



Bungee Sky Atlas for 2018

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2018, May vers.2.0.0

Volume II

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7.450	Main stars visible on chart 223	512
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1 History of this Atlas

Table 1: History

Version	History
1.0	First Version
1.1	Update to the First Version: <ul style="list-style-type: none">• Corrected Star Index Generation;• Fixed English version Generation;• Fixed Dark Atlas Generation
2.0	Second Version: <ul style="list-style-type: none">• added version number to the cover;• added History page;• fixed sky mapping for charts generation• update SkyMap implementation, in order to have a better coverage of the whole sky;• fixed Stars Indexes generation;• update iTextPDF version;• add minimaps;

2 JPARSEC-Based Sky Atlas for 2018

This is my first atlas, based on the powerful JPARSEC java framework.

Data are composed by using the J2018 equinox, unlike the various atlases available, which are generally in J2000.

3 Credits

I want thank you the following people, for their help and job

- Tomás Alonso Albi, for his JPARSEC java framework, <http://conga.oan.es/~alonso/doku.php?id=jparsec>
- Alessandro Merga, for his cool picture I used as cover
- Marco Vaccarin, for his whatsapp typo originating the name of this atlas
- Jacopo and Salvatore, for their very useful tips
- Giangiuseppe Cappabianca, for his bugs-finding eye
- someone else, coming later...

4 Atlas Generation Options

4.1 Atlas Generation Options

Table 2: Generation Data

Property	Value
Paper Size	A3
PPI (Pixels per Inch)	300
Field of view (°)	15
Stellar magnitudes	11.0
Deep Sky Objects Limit Magnitude	16.0
Show Legend in any chart	false
Split the Bungee Sky Atlas in two volumes	true
Sky View through a Telescope of type	Refractor

5 Legenda

5.1 Wind Rose Compass

Each map contains a navigator, showing the neighborhood of a chart

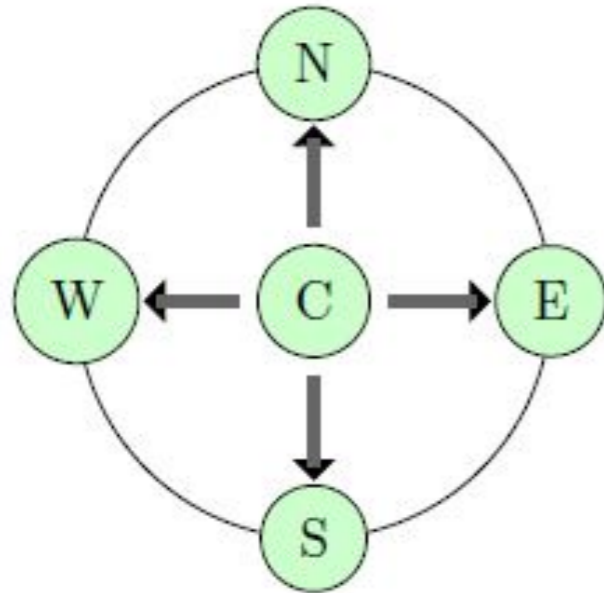


Figure 1: Il Navigatore

That navigator looks like a wind rose compass, and it is shown in figure 1:

- **center, C:** the current chart;
- **upper, N:** the neighboring chart id to the North of the current one;
- **left, E:** the neighboring chart id to the East of the current one;
- **bottom, S:** the neighboring chart id to the South of the current one;
- **right, W:** the neighboring chart id to the West of the current one;

5.2 Charts

Here is showed the Legend of the symbols showed in any char

It is composed by 3 parts:

- Star symbols, by Magnitudes, showed by figure 3
- Star Types, variable and double, by figure 4. Multiple systems are marked with the same symbol of double stars.
- Deep Sky Objects, by figure 5



Figure 2: the Map Legend

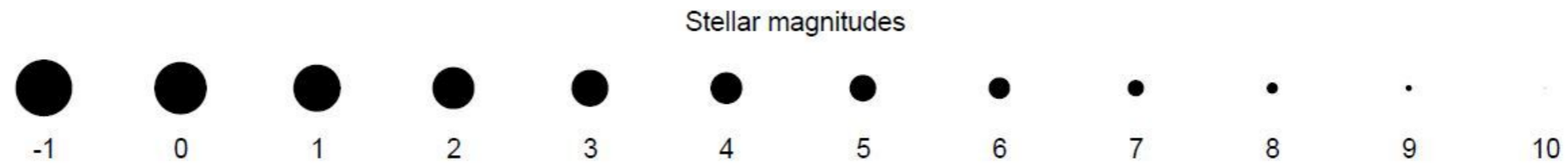


Figure 3: the Map Legend: the stars magnitudes

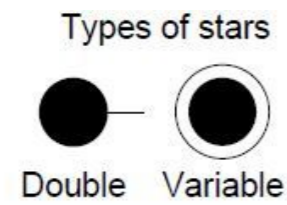


Figure 4: the Map Legend: the stars magnitudes

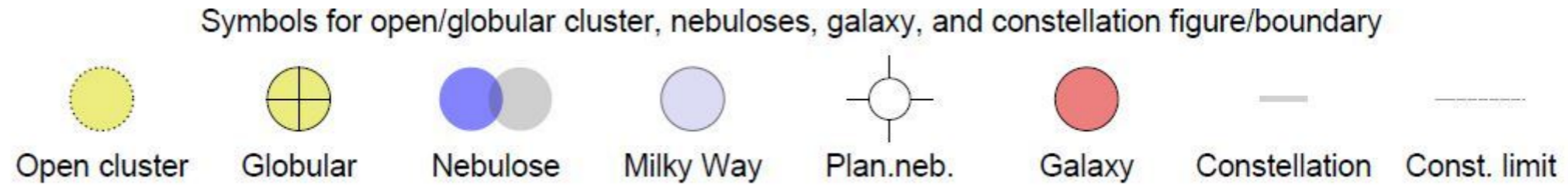


Figure 5: the Map Legend: the deep sky objects types

6 Legends of indexes

6.1 The Index of the Contellations

The Index of Constellation says in which the map the constellation is showed

Table 3: The Index of the Contellations

Column	Description
Constellation	Constellation Name

Table 3: The Index of the Constellations (continuation)

Column	Description
Chart	Chart ID containing that Constellation. Note a constellation can be in more than one Chart!

6.2 The Index of DSO

The list of DSO in any map is indexed in a table, here described. }

Table 4: The Index of DSO

Column	Description
Name	The Object name following the NGC standard
Right ascension	The RA of the object, as it is in the year
Declination	The DEC of the object
Mag.	the Visual Magnitude, if available
Type	the Spectral Type, if available
Angular radius (°)	the angular radius, in deg
Constellation	the constellation which the dso belongs to
Note	other notes, i.e alternative names

6.3 The index of the Main Stars

The index of main stars shows details about the stars by chart. Any informations come from Simbad Catalog

Table 5: The index of the Main Stars

Column	Description
Name	The Star Common Name, and the canonical name relative to the constellation, in available
Other Names	Sky2000 catalog name and/or the Star Name
Right ascension	The RA of the object, as it is in the year
Declination	The DEC of the object
dRA(rad/yr)	The RA proper motion, in radians per year. Here the motion is as a true angle on the celestial sphere.
dDEC(rad/yr)	The DEC proper motion, in radians per year
dVr (km/s)	The radial velocity, in km per secs
Mag.	the Magnitude, if available. If the star is a double one, the magnitude will not be shown
Spectral type	The spectral type, if available
Dist. (pc)	The estimated distance, in pc
Variable	If the Star is a variable one, its category will be shown (Pulsating, Eruptive, Eclipsing, Rotating) and its type.
Constellation	the constellation which the star belongs to

6.4 The Novae and Supernovae index

That index contains a list of any supernova and nova still available. The Novae data come from the Galactic Novae Catalog <https://projectpluto.com/galnovae/galnovae.htm>. Supernovae, on the other hand, comes from Padova-Asiago catalog <http://graspa.oapd.inaf.it>.

Table 6: The Novae and Supernovae index

Column	Description
Name	The name of the object
Type	the type, Nova or Supernova
Right ascension	The RA of the object, as it is in the year
Declination	The DEC of the object
Magnitude	the Magnitude at the discover date
Date of observation	The date of discovery
Constellation	the constellation which the nova/supernova belongs to
Chart	the chart which the nova/supernova belongs to

7 Indexes

7.1 Constellation per Charts

Table 7: Constellation per Charts

Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart
Camelopardalis	1	Lynx	41	Leo	81	Sextans	123	Crater	166	Vela	199
Cepheus	1	Ursa Major	41	Leo Minor	81	Crater	124	Hydra	166	Carina	200
Ursa Minor	1	Leo Minor	42	Coma Berenices	82	Hydra	124	Centaurus	167	Vela	200
Cassiopeia	2	Ursa Major	42	Leo	82	Leo	124	Corvus	167	Carina	201
Cepheus	2	Canes Venatici	43	Virgo	82	Sextans	124	Hydra	167	Centaurus	201
Camelopardalis	3	Ursa Major	43	Bootes	83	Corvus	125	Centaurus	168	Crux	201
Cassiopeia	3	Canes Venatici	44	Coma Berenices	83	Crater	125	Hydra	168	Centaurus	202
Cepheus	3	Ursa Major	44	Virgo	83	Leo	125	Lupus	168	Circinus	202
Camelopardalis	4	Bootes	45	Bootes	84	Virgo	125	Libra	169	Crux	202
Cepheus	4	Canes Venatici	45	Bootes	85	Corvus	126	Lupus	169	Lupus	202
Draco	4	Ursa Major	45	Hercules	85	Virgo	126	Scorpius	169	Centaurus	203
Camelopardalis	5	Bootes	46	Serpens Caput	85	Libra	127	Lupus	170	Circinus	203
Draco	5	Corona Borealis	46	Hercules	86	Virgo	127	Ophiuchus	170	Lupus	203
Ursa Major	5	Hercules	46	Ophiuchus	86	Libra	128	Scorpius	170	Norma	203
Camelopardalis	6	Hercules	47	Serpens Caput	86	Serpens Caput	128	Ophiuchus	171	Triangulum Australe	203
Draco	6	Cygnus	48	Hercules	87	Virgo	128	Sagittarius	171	Ara	204
Ursa Major	6	Draco	48	Ophiuchus	87	Ophiuchus	129	Scorpius	171	Norma	204
Ursa Minor	6	Hercules	48	Hercules	88	Serpens Caput	129	Corona Australis	172	Pavo	204
Camelopardalis	7	Lyra	48	Vulpecula	88	Ophiuchus	130	Sagittarius	172	Telescopium	204
Draco	7	Cygnus	49	Aquila	89	Serpens Cauda	130	Capricornus	173	Pavo	205
Ursa Minor	7	Lyra	49	Delphinus	89	Aquila	131	Microscopium	173	Telescopium	205
Camelopardalis	8	Cygnus	50	Sagitta	89	Ophiuchus	131	Sagittarius	173	Indus	206
Draco	8	Lacerta	50	Vulpecula	89	Scutum	131	Aquarius	174	Pavo	206
Ursa Minor	8	Andromeda	51	Delphinus	90	Serpens Cauda	131	Capricornus	174	Telescopium	206
Cepheus	9	Cygnus	51	Equuleus	90	Aquila	132	Grus	174	Grus	207
Draco	9	Lacerta	51	Pegasus	90	Sagittarius	132	Microscopium	174	Indus	207
Cassiopeia	10	Pegasus	51	Pegasus	91	Aquarius	133	Piscis Austrinus	174	Pavo	207
Cepheus	10	Andromeda	52	Cetus	92	Aquila	133	Aquarius	175	Tucana	207
Camelopardalis	11	Pegasus	52	Pegasus	92	Capricornus	133	Grus	175	Indus	208
Cassiopeia	11	Andromeda	53	Pisces	92	Aquarius	134	Piscis Austrinus	175	Tucana	208
Camelopardalis	12	Pisces	53	Cetus	93	Capricornus	134	Sculptor	175	Horologium	209
Camelopardalis	13	Triangulum	53	Pisces	93	Aquarius	135	Grus	176	Hydrus	209
Lynx	13	Andromeda	54	Aries	94	Pisces	135	Phoenix	176	Reticulum	209
Ursa Major	13	Aries	54	Cetus	94	Aquarius	136	Sculptor	176	Tucana	209
Ursa Major	14	Perseus	54	Pisces	94	Cetus	136	Fornax	177	Dorado	210
Draco	15	Pisces	54	Aries	95	Cetus	137	Phoenix	177	Horologium	210
Ursa Major	15	Triangulum	54	Cetus	95	Fornax	137	Sculptor	177	Hydrus	210
Ursa Minor	15	Aries	55	Taurus	95	Cetus	138	Eridanus	178	Mensa	210
Draco	16	Perseus	55	Eridanus	96	Eridanus	138	Fornax	178	Pictor	210
Ursa Major	16	Taurus	55	Orion	96	Fornax	138	Horologium	178	Reticulum	210
Ursa Minor	16	Triangulum	55	Taurus	96	Eridanus	139	Phoenix	178	Carina	211
Draco	17	Auriga	56	Orion	97	Fornax	139	Caelum	179	Dorado	211

Table 7: Constellation per Charts (continuation)

Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart
Ursa Minor	17	Taurus	56	Monoceros	98	Eridanus	140	Eridanus	179	Mensa	211
Cepheus	18	Auriga	57	Orion	98	Lepus	140	Fornax	179	Pictor	211
Cygnus	18	Gemini	57	Cancer	99	Canis Major	141	Horologium	179	Volans	211
Draco	18	Auriga	58	Canis Minor	99	Lepus	141	Pictor	179	Carina	212
Cepheus	19	Gemini	58	Monoceros	99	Canis Major	142	Caelum	180	Volans	212
Cygnus	19	Lynx	58	Cancer	100	Puppis	142	Columba	180	Carina	213
Draco	19	Cancer	59	Canis Minor	100	Hydra	143	Pictor	180	Centaurus	213
Andromeda	20	Gemini	59	Hydra	100	Puppis	143	Puppis	180	Crux	213
Cassiopeia	20	Lynx	59	Cancer	101	Pyxis	143	Puppis	181	Musca	213
Cepheus	20	Cancer	60	Hydra	101	Hydra	144	Puppis	182	Apus	214
Andromeda	21	Leo	60	Leo	101	Pyxis	144	Vela	182	Centaurus	214
Cassiopeia	21	Leo Minor	60	Sextans	101	Crater	145	Antlia	183	Circinus	214
Perseus	21	Lynx	60	Leo	102	Hydra	145	Pyxis	183	Crux	214
Camelopardalis	22	Leo	61	Sextans	102	Sextans	145	Vela	183	Musca	214
Cassiopeia	22	Leo Minor	61	Leo	103	Corvus	146	Antlia	184	Triangulum Australe	214
Perseus	22	Ursa Major	61	Virgo	103	Crater	146	Centaurus	184	Apus	215
Auriga	23	Canes Venatici	62	Bootes	104	Virgo	146	Vela	184	Ara	215
Camelopardalis	23	Coma Berenices	62	Virgo	104	Corvus	147	Centaurus	185	Pavo	215
Perseus	23	Leo	62	Bootes	105	Hydra	147	Centaurus	186	Triangulum Australe	215
Auriga	24	Ursa Major	62	Virgo	105	Virgo	147	Lupus	186	Apus	216
Camelopardalis	24	Bootes	63	Bootes	106	Libra	148	Centaurus	187	Ara	216
Lynx	24	Canes Venatici	63	Serpens Caput	106	Virgo	148	Lupus	187	Pavo	216
Camelopardalis	25	Coma Berenices	63	Virgo	106	Libra	149	Ara	188	Indus	217
Lynx	25	Bootes	64	Hercules	107	Scorpius	149	Lupus	188	Pavo	217
Ursa Major	25	Canes Venatici	64	Ophiuchus	107	Ophiuchus	150	Norma	188	Tucana	217
Ursa Major	26	Bootes	65	Serpens Caput	107	Scorpius	150	Scorpius	188	Hydrus	218
Canes Venatici	27	Corona Borealis	65	Hercules	108	Ophiuchus	151	Ara	189	Indus	218
Ursa Major	27	Hercules	65	Ophiuchus	108	Sagittarius	151	Corona Australis	189	Octans	218
Bootes	28	Serpens Caput	65	Serpens Cauda	108	Scutum	151	Scorpius	189	Pavo	218
Canes Venatici	28	Corona Borealis	66	Aquila	109	Serpens Cauda	151	Telescopium	189	Tucana	218
Draco	28	Hercules	66	Ophiuchus	109	Sagittarius	152	Corona Australis	190	Dorado	219
Ursa Major	28	Serpens Caput	66	Serpens Cauda	109	Aquarius	153	Sagittarius	190	Hydrus	219
Bootes	29	Hercules	67	Aquila	110	Capricornus	153	Scorpius	190	Mensa	219
Draco	29	Lyra	67	Aquarius	111	Sagittarius	153	Telescopium	190	Tucana	219
Hercules	29	Cygnus	68	Aquila	111	Aquarius	154	Indus	191	Dorado	220
Ursa Major	29	Hercules	68	Delphinus	111	Capricornus	154	Microscopium	191	Hydrus	220
Draco	30	Lyra	68	Equuleus	111	Aquarius	155	Sagittarius	191	Mensa	220
Hercules	30	Vulpecula	68	Aquarius	112	Cetus	156	Telescopium	191	Volans	220
Cygnus	31	Cygnus	69	Equuleus	112	Sculptor	156	Grus	192	Carina	221
Draco	31	Vulpecula	69	Pegasus	112	Cetus	157	Indus	192	Chamaeleon	221
Hercules	31	Cygnus	70	Aquarius	113	Fornax	157	Microscopium	192	Mensa	221
Cepheus	32	Pegasus	70	Pegasus	113	Sculptor	157	Piscis Austrinus	192	Volans	221
Cygnus	32	Vulpecula	70	Pisces	113	Cetus	158	Grus	193	Apus	222
Draco	32	Andromeda	71	Aquarius	114	Fornax	158	Phoenix	193	Carina	222
Cepheus	33	Lacerta	71	Cetus	114	Sculptor	158	Piscis Austrinus	193	Chamaeleon	222
Cygnus	33	Pegasus	71	Pisces	114	Eridanus	159	Sculptor	193	Musca	222

Table 7: Constellation per Charts (continuation)

Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart	Constellation	Chart
Lacerta	33	Andromeda	72	Cetus	115	Fornax	159	Grus	194	Apus	223
Andromeda	34	Pegasus	72	Cetus	116	Caelum	160	Phoenix	194	Chamaeleon	223
Cassiopeia	34	Pisces	72	Eridanus	116	Columba	160	Tucana	194	Musca	223
Pegasus	34	Andromeda	73	Cetus	117	Eridanus	160	Eridanus	195	Octans	223
Andromeda	35	Aries	73	Eridanus	117	Lepus	160	Horologium	195	Triangulum Australe	223
Cassiopeia	35	Pisces	73	Taurus	117	Canis Major	161	Phoenix	195	Apus	224
Triangulum	35	Aries	74	Eridanus	118	Columba	161	Tucana	195	Octans	224
Andromeda	36	Pisces	74	Orion	118	Lepus	161	Caelum	196	Pavo	224
Perseus	36	Aries	75	Taurus	118	Canis Major	162	Dorado	196	Triangulum Australe	224
Triangulum	36	Taurus	75	Eridanus	119	Columba	162	Horologium	196	Apus	225
Auriga	37	Orion	76	Lepus	119	Puppis	162	Reticulum	196	Indus	225
Perseus	37	Taurus	76	Orion	119	Puppis	163	Caelum	197	Octans	225
Auriga	38	Gemini	77	Lepus	120	Pyxis	163	Carina	197	Pavo	225
Perseus	38	Orion	77	Monoceros	120	Antlia	164	Dorado	197	Apus	226
Auriga	39	Taurus	77	Orion	120	Hydra	164	Pictor	197	Mensa	226
Gemini	39	Canis Minor	78	Hydra	121	Pyxis	164	Reticulum	197	Octans	226
Lynx	39	Gemini	78	Monoceros	121	Antlia	165	Carina	198		
Auriga	40	Cancer	79	Puppis	121	Crater	165	Pictor	198		
Lynx	40	Gemini	79	Hydra	122	Hydra	165	Puppis	198		
Ursa Major	40	Cancer	80	Puppis	122	Centaurus	166	Carina	199		
Leo Minor	41	Leo	80	Hydra	123	Corvus	166	Puppis	199		

7.2 Main objects visible on chart 1

Table 8: Main objects visible on chart 1

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 188	00h 49m 26.9s	+85° 21' 23"	8.1	Open cluster	0.125x0.125	Cepheus	CALDWELL 1
NGC 2336	07h 30m 07.4s	+80° 08' 24"	10.4	Galaxy	0.059x0.032	Camelopardalis	
NGC 2300	07h 38m 07.6s	+85° 40' 07"	11.0	Galaxy	0.023x0.016	Cepheus	
NGC 2276	07h 33m 06.9s	+85° 42' 60"	11.4	Galaxy	0.019x0.015	Cepheus	
NGC 2268	07h 19m 03.1s	+84° 20' 58"	11.5	Galaxy	0.022x0.012	Camelopardalis	
IC 512	09h 08m 13.1s	+85° 25' 44"	12.2	Galaxy	0.015x0.010	Camelopardalis	
NGC 1184	03h 19m 34.0s	+80° 51' 29"	12.4	Galaxy	0.023x0.005	Cepheus	
IC 499	08h 50m 11.0s	+85° 40' 25"	12.5	Galaxy	0.017x0.009	Camelopardalis	
NGC 6251	16h 30m 37.4s	+82° 30' 02"	12.6	Galaxy	0.015x0.012	Ursa Minor	
IC 467	07h 33m 16.9s	+79° 50' 00"	12.6	Galaxy	0.025x0.01	Camelopardalis	
IC 469	08h 01m 00.2s	+85° 06' 33"	12.7	Galaxy	0.018x0.008	Cepheus	
NGC 6068	15h 54m 35.4s	+78° 56' 41"	12.8	Galaxy	0.008x0.005	Ursa Minor	
IC 442	06h 40m 19.3s	+82° 57' 08"	12.9	Galaxy	0.007x0.007	Camelopardalis	
IC 1143	15h 29m 27.6s	+82° 23' 44"	13.2	Galaxy	0.007x0.007	Ursa Minor	
NGC 1544	05h 09m 26.9s	+86° 14' 46"	13.3	Galaxy	0.010x0.007	Cepheus	
IC 455	07h 40m 32.3s	+85° 29' 47"	13.3	Galaxy	0.009x0.005	Cepheus	
NGC 6068A	15h 53m 57.5s	+78° 56' 00"	14.0	Galaxy	0.007x0.001	Ursa Minor	6068A
NGC 3172	11h 49m 23.3s	+88° 59' 37"	14.1	Galaxy	0.008x0.005	Ursa Minor	Polarissima borealis

Table 8: Main objects visible on chart 1 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6252	16h 30m 45.0s	+82° 32' 22"	14.2	Galaxy	0.005x0.002	Ursa Minor	
IC 1139	15h 27m 56.0s	+82° 31' 23"	14.9	Galaxy	0.005x0.001	Ursa Minor	

7.3 Main objects visible on chart 2

Table 9: Main objects visible on chart 2

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 110	00h 28m 29.5s	+71° 29' 24"	10.0	Open cluster	0.158x0.158	Cassiopeia	
NGC 4052	00h 14m 00.9s	+72° 37' 21"	12.3	Planetary Nebula	0.010x0.010	Cepheus	
NGC 1184	03h 19m 34.0s	+80° 51' 29"	12.4	Galaxy	0.023x0.005	Cepheus	
IC 1502	23h 37m 05.9s	+75° 44' 50"	13.9	Galaxy	0.009x0.002	Cepheus	
IC 1454	22h 42m 32.2s	+80° 32' 15"	14.0	Planetary Nebula	0.005x0.005	Cepheus	

7.4 Main objects visible on chart 3

Table 10: Main objects visible on chart 3

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2146	06h 21m 29.9s	+78° 20' 49"	10.6	Galaxy	0.045x0.024	Camelopardalis	
IC 334	03h 47m 37.2s	+76° 41' 34"	11.3	Galaxy	0.020x0.017	Camelopardalis	
NGC 1560	04h 34m 51.3s	+71° 54' 58"	11.4	Galaxy	0.081x0.012	Camelopardalis	
NGC 1530	04h 25m 46.2s	+75° 20' 06"	11.5	Galaxy	0.036x0.020	Camelopardalis	
NGC 1573	04h 37m 14.3s	+73° 17' 56"	11.7	Galaxy	0.015x0.010	Camelopardalis	
IC 381	04h 46m 52.9s	+75° 40' 18"	12.3	Galaxy	0.02x0.010	Camelopardalis	
NGC 1184	03h 19m 34.0s	+80° 51' 29"	12.4	Galaxy	0.023x0.005	Cepheus	
NGC 1485	04h 07m 00.2s	+71° 02' 40"	12.6	Galaxy	0.017x0.005	Camelopardalis	
NGC 1343	03h 39m 47.8s	+72° 37' 45"	12.7	Galaxy	0.021x0.013	Cassiopeia	
IC 391	05h 00m 08.5s	+78° 12' 58"	12.7	Galaxy	0.009x0.009	Camelopardalis	
NGC 2146A	06h 26m 47.7s	+78° 31' 08"	12.9	Galaxy	0.025x0.01	Camelopardalis	2146A
IC 440	06h 22m 25.1s	+80° 03' 33"	13.3	Galaxy	0.013x0.007	Camelopardalis	
NGC 1573A	04h 50m 39.4s	+73° 29' 59"	14.0	Galaxy	0.013x0.010	Camelopardalis	1573A

7.5 Main objects visible on chart 4

Table 11: Main objects visible on chart 4

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2655	08h 57m 55.5s	+78° 09' 13"	10.1	Galaxy	0.040x0.034	Camelopardalis	
NGC 2336	07h 30m 07.4s	+80° 08' 24"	10.4	Galaxy	0.059x0.032	Camelopardalis	
NGC 2146	06h 21m 29.9s	+78° 20' 49"	10.6	Galaxy	0.045x0.024	Camelopardalis	
IC 356	04h 09m 39.6s	+69° 51' 31"	10.6	Galaxy	0.049x0.032	Camelopardalis	

Table 11: Main objects visible on chart 4 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2715	09h 10m 18.3s	+78° 00' 44"	11.2	Galaxy	0.04x0.013	Camelopardalis	
IC 334	03h 47m 37.2s	+76° 41' 34"	11.3	Galaxy	0.020x0.017	Camelopardalis	
NGC 1560	04h 34m 51.3s	+71° 54' 58"	11.4	Galaxy	0.081x0.012	Camelopardalis	
NGC 1530	04h 25m 46.2s	+75° 20' 06"	11.5	Galaxy	0.036x0.020	Camelopardalis	
NGC 2268	07h 19m 03.1s	+84° 20' 58"	11.5	Galaxy	0.022x0.012	Camelopardalis	
NGC 1573	04h 37m 14.3s	+73° 17' 56"	11.7	Galaxy	0.015x0.010	Camelopardalis	
NGC 2258	06h 50m 06.4s	+74° 27' 37"	11.9	Galaxy	0.019x0.012	Camelopardalis	
NGC 2523	08h 17m 02.9s	+73° 31' 22"	11.9	Galaxy	0.024x0.015	Camelopardalis	
NGC 2732	09h 15m 43.3s	+79° 06' 45"	11.9	Galaxy	0.017x0.007	Camelopardalis	
NGC 2314	07h 12m 54.5s	+75° 17' 49"	12.2	Galaxy	0.009x0.006	Camelopardalis	
NGC 2441	07h 53m 59.1s	+72° 58' 04"	12.2	Galaxy	0.016x0.015	Camelopardalis	
NGC 2591	08h 39m 47.9s	+77° 57' 42"	12.2	Galaxy	0.025x0.005	Camelopardalis	
IC 381	04h 46m 52.9s	+75° 40' 18"	12.3	Galaxy	0.02x0.010	Camelopardalis	
NGC 1184	03h 19m 34.0s	+80° 51' 29"	12.4	Galaxy	0.023x0.005	Cepheus	
NGC 2256	06h 49m 32.8s	+74° 12' 57"	12.5	Galaxy	0.019x0.016	Camelopardalis	
IC 449	06h 47m 45.9s	+71° 19' 24"	12.5	Galaxy	0.014x0.010	Camelopardalis	
NGC 1485	04h 07m 00.2s	+71° 02' 40"	12.6	Galaxy	0.017x0.005	Camelopardalis	
IC 467	07h 33m 16.9s	+79° 50' 00"	12.6	Galaxy	0.025x0.01	Camelopardalis	
IC 391	05h 00m 08.5s	+78° 12' 58"	12.7	Galaxy	0.009x0.009	Camelopardalis	
NGC 2550	08h 26m 36.5s	+73° 57' 09"	12.8	Galaxy	0.008x0.003	Camelopardalis	NGC 2550A
NGC 2146A	06h 26m 47.7s	+78° 31' 08"	12.9	Galaxy	0.025x0.01	Camelopardalis	2146A
NGC 2544	08h 23m 43.6s	+73° 55' 48"	12.9	Galaxy	0.009x0.006	Camelopardalis	
IC 442	06h 40m 19.3s	+82° 57' 08"	12.9	Galaxy	0.007x0.007	Camelopardalis	
IC 2184	07h 31m 29.0s	+72° 05' 24"	13.1	Galaxy	0.006x0.005	Camelopardalis	
NGC 2523C	08h 19m 45.4s	+73° 15' 40"	13.3	Galaxy	0.012x0.006	Camelopardalis	
NGC 2908	09h 45m 40.0s	+79° 37' 05"	13.3	Galaxy	0.006x0.006	Draco	
IC 440	06h 22m 25.1s	+80° 03' 33"	13.3	Galaxy	0.013x0.007	Camelopardalis	
IC 2174	07h 11m 28.0s	+75° 19' 24"	13.5	Galaxy	0.007x0.005	Camelopardalis	
NGC 2336A	07h 58m 48.9s	+77° 57' 50"	13.7	Galaxy	0.014x0.014	Camelopardalis	2336A
NGC 2523A	08h 06m 15.5s	+73° 59' 46"	13.8	Galaxy	0.008x0.005	Camelopardalis	2523A
IC 451	06h 55m 11.3s	+74° 27' 24"	13.8	Galaxy	0.010x0.009	Camelopardalis	
IC 450	06h 54m 31.6s	+74° 24' 16"	13.9	Galaxy	0.006x0.004	Camelopardalis	
NGC 1573A	04h 50m 39.4s	+73° 29' 59"	14.0	Galaxy	0.013x0.010	Camelopardalis	1573A
NGC 2523B	08h 15m 00.0s	+73° 30' 30"	14.0	Galaxy	0.016x0.002	Camelopardalis	2523B

7.6 Main objects visible on chart 5

Table 12: Main objects visible on chart 5

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2655	08h 57m 55.5s	+78° 09' 13"	10.1	Galaxy	0.040x0.034	Camelopardalis	
NGC 2336	07h 30m 07.4s	+80° 08' 24"	10.4	Galaxy	0.059x0.032	Camelopardalis	
NGC 2985	09h 51m 56.8s	+72° 11' 38"	10.4	Galaxy	0.038x0.028	Ursa Major	
NGC 2146	06h 21m 29.9s	+78° 20' 49"	10.6	Galaxy	0.045x0.024	Camelopardalis	
NGC 3147	10h 18m 23.3s	+73° 18' 36"	10.6	Galaxy	0.032x0.029	Draco	

Table 12: Main objects visible on chart 5 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3348	10h 48m 29.4s	+72° 44' 37"	11.1	Galaxy	0.016x0.016	Ursa Major	
NGC 2715	09h 10m 18.3s	+78° 00' 44"	11.2	Galaxy	0.04x0.013	Camelopardalis	
NGC 2748	09h 15m 44.2s	+76° 24' 02"	11.7	Galaxy	0.025x0.009	Camelopardalis	
NGC 3516	11h 08m 00.2s	+72° 28' 18"	11.7	Galaxy	0.015x0.011	Ursa Major	
IC 520	08h 55m 36.0s	+73° 25' 18"	11.7	Galaxy	0.012x0.010	Camelopardalis	
NGC 3027	09h 57m 14.0s	+72° 07' 05"	11.8	Galaxy	0.032x0.011	Ursa Major	
NGC 2258	06h 50m 06.4s	+74° 27' 37"	11.9	Galaxy	0.019x0.012	Camelopardalis	
NGC 2523	08h 17m 02.9s	+73° 31' 22"	11.9	Galaxy	0.024x0.015	Camelopardalis	
NGC 2732	09h 15m 43.3s	+79° 06' 45"	11.9	Galaxy	0.017x0.007	Camelopardalis	
NGC 3218	10h 23m 18.8s	+74° 05' 09"	11.9	Galaxy	0.019x0.011	Draco	
IC 529	09h 20m 21.3s	+73° 40' 59"	11.9	Galaxy	0.027x0.010	Camelopardalis	
NGC 2634	08h 50m 22.6s	+73° 53' 59"	12.0	Galaxy	0.014x0.013	Camelopardalis	
NGC 2551	08h 26m 50.4s	+73° 21' 11"	12.1	Galaxy	0.013x0.008	Camelopardalis	
NGC 2646	08h 52m 16.4s	+73° 23' 41"	12.1	Galaxy	0.010x0.010	Camelopardalis	
NGC 2314	07h 12m 54.5s	+75° 17' 49"	12.2	Galaxy	0.009x0.006	Camelopardalis	
NGC 2441	07h 53m 59.1s	+72° 58' 04"	12.2	Galaxy	0.016x0.015	Camelopardalis	
NGC 2591	08h 39m 47.9s	+77° 57' 42"	12.2	Galaxy	0.025x0.005	Camelopardalis	
NGC 2629	08h 49m 08.8s	+72° 55' 06"	12.2	Galaxy	0.012x0.010	Ursa Major	
NGC 2633	08h 50m 02.3s	+74° 01' 54"	12.2	Galaxy	0.019x0.012	Camelopardalis	
NGC 2810	09h 23m 46.2s	+71° 45' 59"	12.2	Galaxy	0.014x0.014	Ursa Major	
NGC 3397	10h 46m 07.1s	+76° 42' 53"	12.2	Galaxy	0.015x0.009	Draco	
NGC 3403	10h 55m 12.7s	+73° 35' 38"	12.2	Galaxy	0.025x0.010	Draco	
NGC 3562	11h 14m 09.4s	+72° 46' 52"	12.2	Galaxy	0.014x0.010	Draco	
NGC 2256	06h 49m 32.8s	+74° 12' 57"	12.5	Galaxy	0.019x0.016	Camelopardalis	
IC 2977	09h 45m 31.2s	+74° 46' 38"	12.5	Galaxy	0.015x0.006	Draco	
NGC 3065	10h 03m 27.0s	+72° 04' 57"	12.5	Galaxy	0.014x0.012	Ursa Major	
IC 467	07h 33m 16.9s	+79° 50' 00"	12.6	Galaxy	0.025x0.01	Camelopardalis	
NGC 2550A	08h 30m 39.9s	+73° 41' 14"	12.7	Galaxy	0.013x0.011	Camelopardalis	2550A
NGC 2550	08h 26m 36.5s	+73° 57' 09"	12.8	Galaxy	0.008x0.003	Camelopardalis	NGC 2550A
NGC 3061	09h 57m 55.9s	+75° 46' 49"	12.8	Galaxy	0.014x0.012	Draco	
NGC 3364	10h 49m 47.9s	+72° 19' 46"	12.8	Galaxy	0.012x0.012	Ursa Major	
NGC 2146A	06h 26m 47.7s	+78° 31' 08"	12.9	Galaxy	0.025x0.01	Camelopardalis	2146A
NGC 2544	08h 23m 43.6s	+73° 55' 48"	12.9	Galaxy	0.009x0.006	Camelopardalis	
NGC 2614	08h 44m 42.2s	+72° 54' 40"	12.9	Galaxy	0.016x0.013	Ursa Major	
NGC 3066	10h 03m 41.7s	+72° 02' 17"	12.9	Galaxy	0.009x0.008	Ursa Major	
NGC 3194	10h 19m 11.7s	+74° 15' 26"	12.9	Galaxy	0.008x0.004	Draco	
NGC 3523	11h 04m 24.0s	+75° 01' 07"	12.9	Galaxy	0.010x0.010	Draco	
NGC 3752	11h 33m 37.9s	+74° 31' 45"	12.9	Galaxy	0.014x0.005	Draco	
IC 442	06h 40m 19.3s	+82° 57' 08"	12.9	Galaxy	0.007x0.007	Camelopardalis	
NGC 3057	10h 07m 41.2s	+80° 11' 49"	13.0	Galaxy	0.018x0.010	Draco	
NGC 3215	10h 30m 27.4s	+79° 43' 12"	13.1	Galaxy	0.009x0.008	Draco	
IC 2184	07h 31m 29.0s	+72° 05' 24"	13.1	Galaxy	0.006x0.005	Camelopardalis	
NGC 3212	10h 30m 03.2s	+79° 43' 53"	13.2	Galaxy	0.012x0.009	Draco	
NGC 2523C	08h 19m 45.4s	+73° 15' 40"	13.3	Galaxy	0.012x0.006	Camelopardalis	
NGC 2908	09h 45m 40.0s	+79° 37' 05"	13.3	Galaxy	0.006x0.006	Draco	
IC 440	06h 22m 25.1s	+80° 03' 33"	13.3	Galaxy	0.013x0.007	Camelopardalis	

Table 12: Main objects visible on chart 5 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3174	10h 17m 04.6s	+74° 07' 50"	13.4	Galaxy	0.01x0.005	Draco	
NGC 3343	10h 47m 30.8s	+73° 15' 29"	13.4	Galaxy	0.010x0.007	Draco	
IC 2389	08h 49m 53.8s	+73° 28' 17"	13.4	Galaxy	0.011x0.002	Camelopardalis	
IC 511	08h 42m 46.7s	+73° 25' 18"	13.4	Galaxy	0.011x0.004	Camelopardalis	
NGC 2634A	08h 50m 35.0s	+73° 52' 16"	13.5	Galaxy	0.015x0.003	Camelopardalis	2634A
NGC 2938	09h 40m 16.8s	+76° 14' 14"	13.5	Galaxy	0.015x0.008	Draco	
NGC 2963	09h 49m 27.6s	+72° 52' 49"	13.5	Galaxy	0.01x0.005	Draco	
NGC 3197	10h 16m 11.6s	+77° 43' 49"	13.5	Galaxy	0.010x0.008	Draco	
NGC 3252	10h 35m 47.5s	+73° 40' 14"	13.5	Galaxy	0.015x0.005	Draco	
NGC 3465	11h 00m 50.0s	+75° 05' 41"	13.5	Galaxy	0.01x0.008	Draco	
NGC 3500	11h 03m 09.2s	+75° 06' 15"	13.5	Galaxy	0.010x0.005	Draco	
IC 2174	07h 11m 28.0s	+75° 19' 24"	13.5	Galaxy	0.007x0.005	Camelopardalis	
NGC 2641	08h 49m 50.5s	+72° 49' 45"	13.6	Galaxy	0.010x0.009	Ursa Major	
NGC 2336A	07h 58m 48.9s	+77° 57' 50"	13.7	Galaxy	0.014x0.014	Camelopardalis	2336A
NGC 3901	11h 43m 52.3s	+77° 16' 22"	13.7	Galaxy	0.015x0.006	Camelopardalis	
NGC 2523A	08h 06m 15.5s	+73° 59' 46"	13.8	Galaxy	0.008x0.005	Camelopardalis	2523A
NGC 2636	08h 50m 20.3s	+73° 36' 15"	13.8	Galaxy	0.003x0.003	Camelopardalis	
IC 451	06h 55m 11.3s	+74° 27' 24"	13.8	Galaxy	0.010x0.009	Camelopardalis	
IC 450	06h 54m 31.6s	+74° 24' 16"	13.9	Galaxy	0.006x0.004	Camelopardalis	
NGC 2523B	08h 15m 00.0s	+73° 30' 30"	14.0	Galaxy	0.016x0.002	Camelopardalis	2523B
NGC 2957B	09h 48m 55.9s	+72° 53' 59"	14.7	Galaxy	0.005x0.002	Draco	2957B
IC 2600	10h 47m 57.5s	+72° 13' 31"	14.7	Galaxy	0.005x0.003	Ursa Major	
IC 2601	10h 48m 31.9s	+72° 13' 42"	14.7	Galaxy	0.004x0.004	Ursa Major	
NGC 2957A	09h 48m 53.3s	+72° 54' 09"	14.8	Galaxy	0.002x0.001	Draco	2957A

7.7 Main objects visible on chart 6

Table 13: Main objects visible on chart 6

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2655	08h 57m 55.5s	+78° 09' 13"	10.1	Galaxy	0.040x0.034	Camelopardalis	
NGC 2985	09h 51m 56.8s	+72° 11' 38"	10.4	Galaxy	0.038x0.028	Ursa Major	
NGC 3147	10h 18m 23.3s	+73° 18' 36"	10.6	Galaxy	0.032x0.029	Draco	
IC 3568	12h 33m 35.7s	+82° 27' 54"	10.6	Planetary Nebula	0.001x0.001	Camelopardalis	
NGC 4589	12h 38m 06.1s	+74° 05' 35"	10.7	Galaxy	0.028x0.023	Draco	
NGC 3348	10h 48m 29.4s	+72° 44' 37"	11.1	Galaxy	0.016x0.016	Ursa Major	
NGC 2715	09h 10m 18.3s	+78° 00' 44"	11.2	Galaxy	0.04x0.013	Camelopardalis	
NGC 4750	12h 50m 44.9s	+72° 46' 36"	11.2	Galaxy	0.017x0.015	Draco	
IC 4291	12h 21m 04.4s	+75° 16' 17"	11.5	Galaxy	0.016x0.014	Draco	
NGC 2748	09h 15m 44.2s	+76° 24' 02"	11.7	Galaxy	0.025x0.009	Camelopardalis	
NGC 3516	11h 08m 00.2s	+72° 28' 18"	11.7	Galaxy	0.015x0.011	Ursa Major	
NGC 4386	12h 25m 13.0s	+75° 25' 47"	11.7	Galaxy	0.020x0.010	Draco	
NGC 3027	09h 57m 14.0s	+72° 07' 05"	11.8	Galaxy	0.032x0.011	Ursa Major	
NGC 2732	09h 15m 43.3s	+79° 06' 45"	11.9	Galaxy	0.017x0.007	Camelopardalis	
NGC 3218	10h 23m 18.8s	+74° 05' 09"	11.9	Galaxy	0.019x0.011	Draco	

Table 13: Main objects visible on chart 6 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4319	12h 22m 30.4s	+75° 13' 22"	12.0	Galaxy	0.023x0.017	Draco	
NGC 4648	12h 42m 24.1s	+74° 19' 25"	12.0	Galaxy	0.015x0.01	Draco	
NGC 2591	08h 39m 47.9s	+77° 57' 42"	12.2	Galaxy	0.025x0.005	Camelopardalis	
NGC 3397	10h 46m 07.1s	+76° 42' 53"	12.2	Galaxy	0.015x0.009	Draco	
NGC 3403	10h 55m 12.7s	+73° 35' 38"	12.2	Galaxy	0.025x0.010	Draco	
NGC 3562	11h 14m 09.4s	+72° 46' 52"	12.2	Galaxy	0.014x0.010	Draco	
NGC 4133	12h 09m 41.1s	+74° 48' 16"	12.3	Galaxy	0.015x0.010	Draco	
IC 2977	09h 45m 31.2s	+74° 46' 38"	12.5	Galaxy	0.015x0.006	Draco	
NGC 3065	10h 03m 27.0s	+72° 04' 57"	12.5	Galaxy	0.014x0.012	Ursa Major	
NGC 4127	12h 09m 17.2s	+76° 42' 16"	12.7	Galaxy	0.020x0.01	Camelopardalis	
NGC 3061	09h 57m 55.9s	+75° 46' 49"	12.8	Galaxy	0.014x0.012	Draco	
NGC 3364	10h 49m 47.9s	+72° 19' 46"	12.8	Galaxy	0.012x0.012	Ursa Major	
NGC 6068	15h 54m 35.4s	+78° 56' 41"	12.8	Galaxy	0.008x0.005	Ursa Minor	
NGC 3066	10h 03m 41.7s	+72° 02' 17"	12.9	Galaxy	0.009x0.008	Ursa Major	
NGC 3194	10h 19m 11.7s	+74° 15' 26"	12.9	Galaxy	0.008x0.004	Draco	
NGC 3523	11h 04m 24.0s	+75° 01' 07"	12.9	Galaxy	0.010x0.010	Draco	
NGC 3752	11h 33m 37.9s	+74° 31' 45"	12.9	Galaxy	0.014x0.005	Draco	
NGC 3057	10h 07m 41.2s	+80° 11' 49"	13.0	Galaxy	0.018x0.010	Draco	
NGC 3215	10h 30m 27.4s	+79° 43' 12"	13.1	Galaxy	0.009x0.008	Draco	
NGC 5144A	13h 23m 25.2s	+70° 25' 16"	13.1	Galaxy	0.01x0.006	Ursa Minor	5144A
NGC 3212	10h 30m 03.2s	+79° 43' 53"	13.2	Galaxy	0.012x0.009	Draco	
NGC 4972	13h 02m 49.8s	+75° 18' 30"	13.2	Galaxy	0.006x0.005	Draco	
NGC 2908	09h 45m 40.0s	+79° 37' 05"	13.3	Galaxy	0.006x0.006	Draco	
NGC 3890	11h 50m 18.6s	+74° 12' 07"	13.3	Galaxy	0.007x0.007	Draco	
NGC 5034	13h 12m 53.3s	+70° 33' 16"	13.3	Galaxy	0.007x0.005	Ursa Minor	
NGC 5452	13h 54m 24.6s	+78° 07' 57"	13.3	Galaxy	0.016x0.012	Ursa Minor	
NGC 3174	10h 17m 04.6s	+74° 07' 50"	13.4	Galaxy	0.01x0.005	Draco	
NGC 3343	10h 47m 30.8s	+73° 15' 29"	13.4	Galaxy	0.010x0.007	Draco	
NGC 4693	12h 47m 49.9s	+71° 04' 41"	13.4	Galaxy	0.02x0.004	Draco	
NGC 5412	13h 57m 28.8s	+73° 31' 48"	13.4	Galaxy	0.01x0.008	Ursa Minor	
NGC 2938	09h 40m 16.8s	+76° 14' 14"	13.5	Galaxy	0.015x0.008	Draco	
NGC 2963	09h 49m 27.6s	+72° 52' 49"	13.5	Galaxy	0.01x0.005	Draco	
NGC 3197	10h 16m 11.6s	+77° 43' 49"	13.5	Galaxy	0.010x0.008	Draco	
NGC 3252	10h 35m 47.5s	+73° 40' 14"	13.5	Galaxy	0.015x0.005	Draco	
NGC 3465	11h 00m 50.0s	+75° 05' 41"	13.5	Galaxy	0.01x0.008	Draco	
NGC 3500	11h 03m 09.2s	+75° 06' 15"	13.5	Galaxy	0.010x0.005	Draco	
NGC 4159	12h 11m 43.9s	+76° 01' 35"	13.5	Galaxy	0.010x0.004	Draco	
NGC 4363	12h 24m 14.7s	+74° 51' 08"	13.5	Galaxy	0.011x0.011	Draco	
IC 4749	12h 51m 51.4s	+71° 32' 14"	13.5	Galaxy	0.014x0.002	Draco	
IC 5323	13h 45m 45.8s	+76° 44' 19"	13.5	Galaxy	0.011x0.003	Ursa Minor	
NGC 3901	11h 43m 52.3s	+77° 16' 22"	13.7	Galaxy	0.015x0.006	Camelopardalis	
IC 954	13h 50m 19.1s	+71° 04' 33"	13.7	Galaxy	0.009x0.005	Ursa Minor	
NGC 5314	13h 46m 36.4s	+70° 15' 00"	13.9	Galaxy	0.008x0.004	Ursa Minor	
NGC 5547	14h 09m 36.7s	+78° 31' 01"	13.9	Galaxy	0.005x0.003	Ursa Minor	
NGC 4331	12h 23m 21.3s	+76° 04' 08"	14.0	Galaxy	0.018x0.003	Draco	
IC 4572	12h 36m 27.5s	+74° 08' 50"	14.0	Galaxy	0.012x0.002	Draco	

Table 13: Main objects visible on chart 6 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6068A	15h 53m 57.5s	+78° 56' 00"	14.0	Galaxy	0.007x0.001	Ursa Minor	6068A
IC 5262-1	13h 35m 57.4s	+74° 56' 54"	14.2	Galaxy	0.01x0.005	Ursa Minor	IC 5262-1
IC 945	13h 47m 29.4s	+71° 58' 50"	14.2	Galaxy	0.007x0.005	Ursa Minor	
NGC 5295	13h 38m 40.9s	+79° 22' 06"	14.3	Galaxy	0.003x0.003	Camelopardalis	
NGC 5415	13h 57m 18.5s	+70° 40' 03"	14.4	Galaxy	0.008x0.005	Ursa Minor	
IC 4470	14h 28m 04.6s	+78° 48' 22"	14.4	Galaxy	0.008x0.001	Ursa Minor	
NGC 3736	11h 36m 45.4s	+73° 21' 10"	14.5	Galaxy	0.009x0.005	Draco	
NGC 5344	13h 50m 28.7s	+73° 51' 52"	14.5	Galaxy	0.005x0.003	Ursa Minor	
NGC 5712	14h 29m 23.0s	+78° 47' 06"	14.5	Galaxy	0.005x0.005	Ursa Minor	
NGC 2957B	09h 48m 55.9s	+72° 53' 59"	14.7	Galaxy	0.005x0.002	Draco	2957B
NGC 5340	13h 49m 19.9s	+72° 33' 55"	14.7	Galaxy	0.006x0.004	Ursa Minor	
NGC 5640	14h 20m 16.9s	+80° 02' 30"	14.7	Galaxy	0.007x0.003	Camelopardalis	
IC 2600	10h 47m 57.5s	+72° 13' 31"	14.7	Galaxy	0.005x0.003	Ursa Major	
IC 2601	10h 48m 31.9s	+72° 13' 42"	14.7	Galaxy	0.004x0.004	Ursa Major	
NGC 2957A	09h 48m 53.3s	+72° 54' 09"	14.8	Galaxy	0.002x0.001	Draco	2957A
NGC 3747	11h 33m 36.6s	+74° 16' 46"	15.0	Galaxy	0.005x0.002	Draco	
NGC 5144B	13h 23m 24.8s	+70° 24' 59"	15.0	Galaxy	0.001x0.001	Ursa Minor	5144B

7.8 Main objects visible on chart 7

Table 14: Main objects visible on chart 7

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3568	12h 33m 35.7s	+82° 27' 54"	10.6	Planetary Nebula	0.001x0.001	Camelopardalis	
NGC 4589	12h 38m 06.1s	+74° 05' 35"	10.7	Galaxy	0.028x0.023	Draco	
NGC 6340	17h 10m 05.7s	+72° 16' 59"	11.0	Galaxy	0.025x0.023	Draco	
NGC 4750	12h 50m 44.9s	+72° 46' 36"	11.2	Galaxy	0.017x0.015	Draco	
NGC 6217	16h 31m 47.5s	+78° 09' 42"	11.2	Galaxy	0.025x0.020	Ursa Minor	
IC 4291	12h 21m 04.4s	+75° 16' 17"	11.5	Galaxy	0.016x0.014	Draco	
NGC 4386	12h 25m 13.0s	+75° 25' 47"	11.7	Galaxy	0.020x0.010	Draco	
NGC 6412	17h 28m 58.8s	+75° 41' 29"	11.8	Galaxy	0.020x0.02	Draco	
NGC 6236	16h 44m 24.4s	+70° 44' 51"	11.9	Galaxy	0.024x0.013	Draco	
NGC 4319	12h 22m 30.4s	+75° 13' 22"	12.0	Galaxy	0.023x0.017	Draco	
NGC 4648	12h 42m 24.1s	+74° 19' 25"	12.0	Galaxy	0.015x0.01	Draco	
NGC 5832	14h 57m 50.3s	+71° 36' 35"	12.1	Galaxy	0.03x0.018	Ursa Minor	
NGC 6048	15h 57m 26.6s	+70° 38' 16"	12.3	Galaxy	0.018x0.014	Ursa Minor	
NGC 6232	16h 43m 10.7s	+70° 35' 58"	12.5	Galaxy	0.012x0.012	Draco	
NGC 6251	16h 30m 37.4s	+82° 30' 02"	12.6	Galaxy	0.015x0.012	Ursa Minor	
NGC 4127	12h 09m 17.2s	+76° 42' 16"	12.7	Galaxy	0.020x0.01	Camelopardalis	
NGC 6068	15h 54m 35.4s	+78° 56' 41"	12.8	Galaxy	0.008x0.005	Ursa Minor	
NGC 6324	17h 04m 51.0s	+75° 23' 02"	12.9	Galaxy	0.008x0.005	Ursa Minor	
NGC 5144A	13h 23m 25.2s	+70° 25' 16"	13.1	Galaxy	0.01x0.006	Ursa Minor	5144A
NGC 6248	16h 46m 13.8s	+70° 19' 28"	13.1	Galaxy	0.025x0.01	Draco	
NGC 4972	13h 02m 49.8s	+75° 18' 30"	13.2	Galaxy	0.006x0.005	Draco	
NGC 6094	16h 06m 22.2s	+72° 26' 50"	13.2	Galaxy	0.015x0.011	Ursa Minor	

Table 14: Main objects visible on chart 7 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1143	15h 29m 27.6s	+82° 23' 44"	13.2	Galaxy	0.007x0.007	Ursa Minor	
NGC 5034	13h 12m 53.3s	+70° 33' 16"	13.3	Galaxy	0.007x0.005	Ursa Minor	
NGC 5452	13h 54m 24.6s	+78° 07' 57"	13.3	Galaxy	0.016x0.012	Ursa Minor	
NGC 5412	13h 57m 28.8s	+73° 31' 48"	13.4	Galaxy	0.01x0.008	Ursa Minor	
NGC 5607	14h 19m 40.8s	+71° 30' 21"	13.4	Galaxy	0.007x0.006	Ursa Minor	
NGC 4159	12h 11m 43.9s	+76° 01' 35"	13.5	Galaxy	0.010x0.004	Draco	
NGC 4363	12h 24m 14.7s	+74° 51' 08"	13.5	Galaxy	0.011x0.011	Draco	
IC 4749	12h 51m 51.4s	+71° 32' 14"	13.5	Galaxy	0.014x0.002	Draco	
IC 5323	13h 45m 45.8s	+76° 44' 19"	13.5	Galaxy	0.011x0.003	Ursa Minor	
NGC 5808	14h 54m 03.6s	+73° 03' 33"	13.5	Galaxy	0.007x0.007	Ursa Minor	
NGC 6011	15h 46m 25.4s	+72° 06' 51"	13.5	Galaxy	0.016x0.005	Ursa Minor	
IC 1251	17h 09m 54.2s	+72° 23' 17"	13.5	Galaxy	0.012x0.008	Draco	
IC 4660	17h 21m 06.4s	+75° 49' 55"	13.6	Galaxy	0.010x0.002	Ursa Minor	
NGC 3901	11h 43m 52.3s	+77° 16' 22"	13.7	Galaxy	0.015x0.006	Camelopardalis	
IC 954	13h 50m 19.1s	+71° 04' 33"	13.7	Galaxy	0.009x0.005	Ursa Minor	
NGC 5909	15h 11m 15.0s	+75° 19' 02"	13.8	Galaxy	0.009x0.004	Ursa Minor	
NGC 5912	15h 11m 27.6s	+75° 19' 03"	13.8	Galaxy	0.01x0.009	Ursa Minor	
IC 1254	17h 11m 14.6s	+72° 22' 50"	13.8	Galaxy	0.013x0.005	Draco	
NGC 5314	13h 46m 36.4s	+70° 15' 00"	13.9	Galaxy	0.008x0.004	Ursa Minor	
NGC 5547	14h 09m 36.7s	+78° 31' 01"	13.9	Galaxy	0.005x0.003	Ursa Minor	
NGC 5836	14h 59m 27.8s	+73° 49' 19"	13.9	Galaxy	0.01x0.008	Ursa Minor	
NGC 4331	12h 23m 21.3s	+76° 04' 08"	14.0	Galaxy	0.018x0.003	Draco	
IC 4572	12h 36m 27.5s	+74° 08' 50"	14.0	Galaxy	0.012x0.002	Draco	
NGC 6068A	15h 53m 57.5s	+78° 56' 00"	14.0	Galaxy	0.007x0.001	Ursa Minor	6068A
IC 5262-1	13h 35m 57.4s	+74° 56' 54"	14.2	Galaxy	0.01x0.005	Ursa Minor	IC 5262-1
NGC 6252	16h 30m 45.0s	+82° 32' 22"	14.2	Galaxy	0.005x0.002	Ursa Minor	
IC 1145	15h 44m 00.8s	+72° 22' 29"	14.2	Galaxy	0.012x0.004	Ursa Minor	
IC 945	13h 47m 29.4s	+71° 58' 50"	14.2	Galaxy	0.007x0.005	Ursa Minor	
NGC 5295	13h 38m 40.9s	+79° 22' 06"	14.3	Galaxy	0.003x0.003	Camelopardalis	
NGC 5415	13h 57m 18.5s	+70° 40' 03"	14.4	Galaxy	0.008x0.005	Ursa Minor	
NGC 6331	17h 02m 33.9s	+78° 36' 18"	14.4	Galaxy	0.005x0.003	Ursa Minor	
IC 4470	14h 28m 04.6s	+78° 48' 22"	14.4	Galaxy	0.008x0.001	Ursa Minor	
NGC 5344	13h 50m 28.7s	+73° 51' 52"	14.5	Galaxy	0.005x0.003	Ursa Minor	
NGC 5712	14h 29m 23.0s	+78° 47' 06"	14.5	Galaxy	0.005x0.005	Ursa Minor	
NGC 5340	13h 49m 19.9s	+72° 33' 55"	14.7	Galaxy	0.006x0.004	Ursa Minor	
NGC 5640	14h 20m 16.9s	+80° 02' 30"	14.7	Galaxy	0.007x0.003	Camelopardalis	
NGC 6414	17h 30m 06.8s	+74° 21' 49"	14.7	Galaxy	0.008x0.004	Draco	
IC 1139	15h 27m 56.0s	+82° 31' 23"	14.9	Galaxy	0.005x0.001	Ursa Minor	
NGC 5144B	13h 23m 24.8s	+70° 24' 59"	15.0	Galaxy	0.001x0.001	Ursa Minor	5144B

7.9 Main objects visible on chart 8

Table 15: Main objects visible on chart 8

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6340	17h 10m 05.7s	+72° 16' 59"	11.0	Galaxy	0.025x0.023	Draco	
NGC 6643	18h 19m 14.1s	+74° 34' 37"	11.1	Galaxy	0.030x0.015	Draco	
NGC 6217	16h 31m 47.5s	+78° 09' 42"	11.2	Galaxy	0.025x0.020	Ursa Minor	
NGC 6412	17h 28m 58.8s	+75° 41' 29"	11.8	Galaxy	0.020x0.02	Draco	
NGC 6236	16h 44m 24.4s	+70° 44' 51"	11.9	Galaxy	0.024x0.013	Draco	
NGC 6654	18h 23m 43.8s	+73° 11' 36"	12.0	Galaxy	0.021x0.017	Draco	
NGC 6395	17h 26m 16.9s	+71° 04' 57"	12.3	Galaxy	0.02x0.005	Draco	
NGC 6434	17h 36m 30.2s	+72° 04' 41"	12.4	Galaxy	0.019x0.008	Draco	
NGC 6232	16h 43m 10.7s	+70° 35' 58"	12.5	Galaxy	0.012x0.012	Draco	
NGC 6251	16h 30m 37.4s	+82° 30' 02"	12.6	Galaxy	0.015x0.012	Ursa Minor	
NGC 6068	15h 54m 35.4s	+78° 56' 41"	12.8	Galaxy	0.008x0.005	Ursa Minor	
NGC 6508	17h 49m 27.6s	+72° 01' 02"	12.8	Galaxy	0.010x0.010	Draco	
NGC 6324	17h 04m 51.0s	+75° 23' 02"	12.9	Galaxy	0.008x0.005	Ursa Minor	
NGC 6654A	18h 39m 00.2s	+73° 35' 52"	12.9	Galaxy	0.022x0.006	Draco	6654A
NGC 6786	19h 10m 32.2s	+73° 26' 29"	12.9	Galaxy	0.009x0.007	Draco	
NGC 6248	16h 46m 13.8s	+70° 19' 28"	13.1	Galaxy	0.025x0.01	Draco	
NGC 6651	18h 24m 03.1s	+71° 36' 46"	13.1	Galaxy	0.013x0.005	Draco	
NGC 6094	16h 06m 22.2s	+72° 26' 50"	13.2	Galaxy	0.015x0.011	Ursa Minor	
IC 1143	15h 29m 27.6s	+82° 23' 44"	13.2	Galaxy	0.007x0.007	Ursa Minor	
NGC 6538	17h 53m 51.7s	+73° 25' 18"	13.3	Galaxy	0.008x0.004	Draco	
IC 1251	17h 09m 54.2s	+72° 23' 17"	13.5	Galaxy	0.012x0.008	Draco	
IC 4660	17h 21m 06.4s	+75° 49' 55"	13.6	Galaxy	0.010x0.002	Ursa Minor	
IC 1254	17h 11m 14.6s	+72° 22' 50"	13.8	Galaxy	0.013x0.005	Draco	
NGC 6071	16h 02m 03.5s	+70° 22' 04"	13.9	Galaxy	0.008x0.008	Ursa Minor	
NGC 6068A	15h 53m 57.5s	+78° 56' 00"	14.0	Galaxy	0.007x0.001	Ursa Minor	6068A
NGC 6091	16h 07m 50.3s	+69° 51' 29"	14.1	Galaxy	0.006x0.004	Ursa Minor	
NGC 6747	18h 55m 01.5s	+72° 47' 46"	14.1	Galaxy	0.004x0.003	Draco	
NGC 6252	16h 30m 45.0s	+82° 32' 22"	14.2	Galaxy	0.005x0.002	Ursa Minor	
NGC 6331	17h 02m 33.9s	+78° 36' 18"	14.4	Galaxy	0.005x0.003	Ursa Minor	
IC 4470	14h 28m 04.6s	+78° 48' 22"	14.4	Galaxy	0.008x0.001	Ursa Minor	
NGC 5712	14h 29m 23.0s	+78° 47' 06"	14.5	Galaxy	0.005x0.005	Ursa Minor	
NGC 5640	14h 20m 16.9s	+80° 02' 30"	14.7	Galaxy	0.007x0.003	Camelopardalis	
NGC 6414	17h 30m 06.8s	+74° 21' 49"	14.7	Galaxy	0.008x0.004	Draco	
IC 1204	16h 07m 12.7s	+69° 53' 04"	14.7	Galaxy	0.005x0.002	Ursa Minor	
IC 1139	15h 27m 56.0s	+82° 31' 23"	14.9	Galaxy	0.005x0.001	Ursa Minor	
IC 1201	16h 05m 40.2s	+69° 32' 45"	15.0	Galaxy	0.01x0.0025	Draco	
IC 1261-1	17h 23m 06.1s	+71° 14' 52"	15.0	Galaxy	0.006x0.005	Draco	IC 1261-1
IC 1261-2	17h 23m 11.4s	+71° 14' 50"	15.0	Galaxy	0.007x0.005	Draco	IC 1261-2
NGC 6461	17h 39m 28.2s	+74° 01' 30"	15.1	Galaxy	0.006x0.003	Draco	

7.10 Main objects visible on chart 9

Table 16: Main objects visible on chart 9

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6654A	18h 39m 00.2s	+73° 35' 52"	12.9	Galaxy	0.022x0.006	Draco	6654A
NGC 6786	19h 10m 32.2s	+73° 26' 29"	12.9	Galaxy	0.009x0.007	Draco	
IC 1502	23h 37m 05.9s	+75° 44' 50"	13.9	Galaxy	0.009x0.002	Cepheus	
IC 1454	22h 42m 32.2s	+80° 32' 15"	14.0	Planetary Nebula	0.005x0.005	Cepheus	
NGC 6747	18h 55m 01.5s	+72° 47' 46"	14.1	Galaxy	0.004x0.003	Draco	

7.11 Main objects visible on chart 10

Table 17: Main objects visible on chart 10

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 129	00h 30m 58.9s	+60° 18' 40"	6.5	Open cluster	0.1x0.1	Cassiopeia	
NGC 7654	23h 25m 36.6s	+61° 41' 57"	6.9	Open cluster	0.133x0.133	Cassiopeia	M52
NGC 225	00h 44m 39.9s	+61° 51' 54"	7.0	Open cluster	0.125x0.125	Cassiopeia	
NGC 7380	22h 48m 04.3s	+58° 13' 37"	7.2	Open cluster	0.166x0.166	Cepheus	
NGC 7510	23h 11m 50.6s	+60° 40' 01"	7.9	Open cluster	0.058x0.058	Cepheus	
NGC 7790	23h 59m 19.3s	+61° 18' 31"	8.5	Open cluster	0.041x0.041	Cassiopeia	
King14	00h 32m 56.1s	+63° 15' 57"	8.5	Open cluster	0.058x0.058	Cassiopeia	
NGC 1893	00h 40m 38.6s	+61° 11' 37"	8.8	Open cluster	0.041x0.041	Cassiopeia	
NGC 4337	01h 16m 18.2s	+60° 13' 14"	9.0	Open cluster	0.033x0.033	Cassiopeia	
NGC 146	00h 34m 05.3s	+63° 24' 03"	9.1	Open cluster	0.041x0.041	Cassiopeia	
King19	23h 09m 03.9s	+60° 36' 52"	9.2	Open cluster	0.058x0.058	Cepheus	
NGC 381	01h 09m 28.5s	+61° 40' 45"	9.3	Open cluster	0.058x0.058	Cassiopeia	
King12	23h 53m 54.1s	+62° 04' 01"	9.3	Open cluster	0.016x0.016	Cassiopeia	
NGC 133	00h 32m 20.0s	+63° 27' 03"	9.4	Open cluster	0.025x0.025	Cassiopeia	
NGC 7788	23h 57m 40.8s	+61° 30' 01"	9.4	Open cluster	0.033x0.033	Cassiopeia	
NGC 1039	00h 26m 17.6s	+61° 25' 17"	9.8	Open cluster	0.041x0.041	Cassiopeia	M34
Stock24	00h 40m 45.3s	+62° 02' 55"	9.8	Open cluster	0.05x0.05	Cassiopeia	
King48	22h 53m 44.2s	+58° 22' 46"	9.9	Open cluster	0.033x0.033	Cepheus	
NGC 110	00h 28m 29.5s	+71° 29' 24"	10.0	Open cluster	0.158x0.158	Cassiopeia	
NGC 366	01h 07m 34.4s	+62° 19' 29"	10.0	Open cluster	0.033x0.033	Cassiopeia	
NGC 7762	23h 50m 52.9s	+68° 08' 18"	10.0	Open cluster	0.125x0.125	Cepheus	
King16	00h 44m 46.9s	+64° 16' 54"	10.1	Open cluster	0.025x0.025	Cassiopeia	
King21	23h 50m 47.4s	+62° 49' 00"	10.1	Open cluster	0.020x0.020	Cassiopeia	
IC 10	00h 21m 23.5s	+59° 23' 32"	10.4	Galaxy	0.053x0.044	Cassiopeia	
NGC 7354	22h 41m 00.4s	+61° 22' 49"	12.2	Planetary Nebula	0.005x0.005	Cepheus	
NGC 4052	00h 14m 00.9s	+72° 37' 21"	12.3	Planetary Nebula	0.010x0.010	Cepheus	
IC 1369	00h 32m 32.2s	+61° 36' 30"	13.0	Open cluster	0.012x0.012	Cassiopeia	
NGC 7419	22h 55m 03.2s	+60° 54' 42"	13.0	Open cluster	0.05x0.05	Cepheus	
NGC 7429	22h 56m 43.9s	+60° 04' 11"	13.0	Open cluster	0.125x0.125	Cepheus	
NGC 7635	23h 21m 32.9s	+61° 18' 38"	-	Nebula	0.125x0.066	Cassiopeia	CALDWELL 11, Bubble nebula
Sh2-155	22h 58m 00.8s	+62° 44' 21"	-	Nebula	0.42x0.25	Cepheus	CALDWELL 9, Cave nebula

7.12 Main objects visible on chart 11

Table 18: Main objects visible on chart 11

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Stock2	02h 15m 41.9s	+59° 20' 60"	4.4	Open cluster	0.5x0.5	Cassiopeia	
NGC 457	01h 20m 41.7s	+58° 23' 21"	6.4	Open cluster	0.166x0.166	Cassiopeia	CALDWELL 13, Owl cluster
NGC 6541	01h 45m 14.6s	+61° 58' 22"	6.5	Open cluster	0.05x0.05	Cassiopeia	CALDWELL 78
IC 1805	02h 34m 10.9s	+61° 32' 25"	6.5	Open cluster	0.166x0.166	Cassiopeia	
IC 1848	02h 52m 42.3s	+60° 28' 54"	6.5	Open cluster	0.15x0.15	Cassiopeia	
NGC 1027	02h 44m 00.5s	+61° 40' 15"	6.7	Open cluster	0.125x0.125	Cassiopeia	
NGC 6633	01h 47m 32.1s	+61° 18' 28"	7.1	Open cluster	0.125x0.125	Cassiopeia	
Tr3	03h 13m 18.8s	+63° 15' 01"	7.2	Open cluster	0.191x0.191	Cassiopeia	
NGC 581	01h 34m 35.4s	+60° 45' 01"	7.4	Open cluster	0.05x0.05	Cassiopeia	M103
NGC 659	01h 45m 38.3s	+60° 45' 36"	7.9	Open cluster	0.05x0.05	Cassiopeia	
NGC 637	01h 44m 20.0s	+64° 07' 36"	8.2	Open cluster	0.025x0.025	Cassiopeia	
IC 342	03h 48m 33.9s	+68° 09' 01"	8.4	Galaxy	0.178x0.174	Camelopardalis	CALDWELL 5
NGC 436	01h 17m 06.4s	+58° 54' 23"	8.8	Open cluster	0.041x0.041	Cassiopeia	
Tr1	01h 36m 55.3s	+61° 22' 29"	8.9	Open cluster	0.037x0.037	Cassiopeia	
NGC 4337	01h 16m 18.2s	+60° 13' 14"	9.0	Open cluster	0.033x0.033	Cassiopeia	
NGC 381	01h 09m 28.5s	+61° 40' 45"	9.3	Open cluster	0.058x0.058	Cassiopeia	
NGC 559	01h 30m 44.7s	+63° 23' 39"	9.5	Open cluster	0.058x0.058	Cassiopeia	CALDWELL 8
NGC 366	01h 07m 34.4s	+62° 19' 29"	10.0	Open cluster	0.033x0.033	Cassiopeia	
NGC 743	01h 59m 53.2s	+60° 15' 13"	10.0	Open cluster	0.058x0.058	Cassiopeia	
IC 356	04h 09m 39.6s	+69° 51' 31"	10.6	Galaxy	0.049x0.032	Camelopardalis	
NGC 6093	01h 37m 39.8s	+64° 37' 41"	11.0	Open cluster	0.025x0.025	Cassiopeia	M80
NGC 886	02h 24m 52.2s	+63° 51' 08"	11.0	Open cluster	0.116x0.116	Cassiopeia	
IC 166	01h 53m 38.7s	+61° 56' 30"	11.7	Open cluster	0.066x0.066	Cassiopeia	
IC 1747	01h 58m 54.8s	+63° 24' 36"	12.0	Planetary Nebula	0.002x0.002	Cassiopeia	
NGC 1485	04h 07m 00.2s	+71° 02' 40"	12.6	Galaxy	0.017x0.005	Camelopardalis	
NGC 1469	04h 02m 16.5s	+68° 37' 38"	12.7	Galaxy	0.015x0.006	Camelopardalis	
IC 289	03h 11m 47.1s	+61° 23' 05"	13.2	Planetary Nebula	0.006x0.006	Cassiopeia	

7.13 Main objects visible on chart 12

Table 19: Main objects visible on chart 12

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1502	04h 09m 25.2s	+62° 22' 42"	6.9	Open cluster	0.166x0.166	Camelopardalis	
IC 342	03h 48m 33.9s	+68° 09' 01"	8.4	Galaxy	0.178x0.174	Camelopardalis	CALDWELL 5
IC 356	04h 09m 39.6s	+69° 51' 31"	10.6	Galaxy	0.049x0.032	Camelopardalis	
NGC 1569	04h 32m 32.0s	+64° 53' 09"	11.0	Galaxy	0.030x0.015	Camelopardalis	
NGC 1961	05h 44m 03.0s	+69° 23' 10"	11.0	Galaxy	0.037x0.025	Camelopardalis	
NGC 1560	04h 34m 51.3s	+71° 54' 58"	11.4	Galaxy	0.081x0.012	Camelopardalis	
NGC 1501	04h 08m 33.0s	+60° 58' 07"	11.5	Planetary Nebula	0.007x0.007	Camelopardalis	
IC 396	04h 59m 52.6s	+68° 20' 58"	12.1	Galaxy	0.017x0.012	Camelopardalis	
NGC 1485	04h 07m 00.2s	+71° 02' 40"	12.6	Galaxy	0.017x0.005	Camelopardalis	

Table 19: Main objects visible on chart 12 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1469	04h 02m 16.5s	+68° 37' 38"	12.7	Galaxy	0.015x0.006	Camelopardalis	

7.14 Main objects visible on chart 13

Table 20: Main objects visible on chart 13

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2403	07h 38m 34.2s	+65° 33' 37"	8.5	Galaxy	0.195x0.098	Camelopardalis	CALDWELL 7
NGC 1961	05h 44m 03.0s	+69° 23' 10"	11.0	Galaxy	0.037x0.025	Camelopardalis	
NGC 2366	07h 30m 48.7s	+69° 10' 40"	11.1	Galaxy	0.067x0.025	Camelopardalis	
NGC 2273	06h 51m 45.8s	+60° 49' 25"	11.7	Galaxy	0.03x0.016	Lynx	
NGC 2460	07h 58m 24.9s	+60° 18' 01"	11.8	Galaxy	0.020x0.015	Camelopardalis	
IC 2166	06h 28m 31.0s	+59° 04' 03"	12.4	Galaxy	0.025x0.017	Lynx	
IC 2179	07h 17m 16.2s	+64° 53' 36"	12.4	Galaxy	0.009x0.009	Camelopardalis	
NGC 2273B	06h 48m 08.2s	+60° 19' 11"	12.5	Galaxy	0.0225x0.01	Lynx	2273B
NGC 2347	07h 17m 47.4s	+64° 40' 42"	12.5	Galaxy	0.015x0.010	Camelopardalis	
IC 449	06h 47m 45.9s	+71° 19' 24"	12.5	Galaxy	0.014x0.010	Camelopardalis	
NGC 2273A	06h 41m 43.5s	+60° 03' 46"	12.6	Galaxy	0.022x0.018	Lynx	2273A
NGC 2363	07h 30m 23.7s	+69° 09' 17"	13.0	Galpart	0.013x0.008	Camelopardalis	
IC 2184	07h 31m 29.0s	+72° 05' 24"	13.1	Galaxy	0.006x0.005	Camelopardalis	
IC 445	06h 39m 14.6s	+67° 50' 36"	13.2	Galaxy	0.01x0.0075	Camelopardalis	
NGC 2650	08h 51m 42.9s	+70° 13' 53"	13.3	Galaxy	0.013x0.01	Ursa Major	
IC 2209	07h 57m 46.3s	+60° 15' 18"	13.7	Galaxy	0.009x0.007	Camelopardalis	
NGC 2404	07h 38m 50.6s	+65° 34' 10"	14.5	Galpart	0.003x0.003	Camelopardalis	

7.15 Main objects visible on chart 14

Table 21: Main objects visible on chart 14

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3031	09h 57m 01.1s	+68° 58' 53"	6.9	Galaxy	0.207x0.095	Ursa Major	M81, Bode's nebulae
NGC 3034	09h 57m 22.6s	+69° 35' 49"	8.4	Galaxy	0.093x0.035	Ursa Major	M82
NGC 2768	09h 13m 00.6s	+59° 57' 43"	9.9	Galaxy	0.053x0.025	Ursa Major	
NGC 3077	10h 04m 45.5s	+68° 38' 50"	9.9	Galaxy	0.043x0.039	Ursa Major	
NGC 2976	09h 48m 42.3s	+67° 50' 00"	10.2	Galaxy	0.049x0.022	Ursa Major	
NGC 2985	09h 51m 56.8s	+72° 11' 38"	10.4	Galaxy	0.038x0.028	Ursa Major	
IC 2574	10h 29m 41.2s	+68° 19' 27"	10.4	Galaxy	0.11x0.045	Ursa Major	Coddington nebula
NGC 3359	10h 47m 46.5s	+63° 07' 41"	10.6	Galaxy	0.06x0.036	Ursa Major	
NGC 2787	09h 20m 54.4s	+69° 07' 37"	10.7	Galaxy	0.025x0.015	Ursa Major	
NGC 2805	09h 21m 47.4s	+64° 01' 33"	11.0	Galaxy	0.0525x0.04	Ursa Major	
NGC 2742	09h 08m 57.4s	+60° 24' 22"	11.4	Galaxy	0.025x0.012	Ursa Major	
NGC 2880	09h 30m 58.0s	+62° 24' 42"	11.5	Galaxy	0.016x0.01	Ursa Major	
NGC 2654	08h 50m 38.3s	+60° 09' 11"	11.8	Galaxy	0.035x0.006	Ursa Major	

Table 21: Main objects visible on chart 14 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3027	09h 57m 14.0s	+72° 07' 05"	11.8	Galaxy	0.032x0.011	Ursa Major	
NGC 3259	10h 33m 48.9s	+64° 56' 53"	12.1	Galaxy	0.014x0.007	Ursa Major	
NGC 2810	09h 23m 46.2s	+71° 45' 59"	12.2	Galaxy	0.014x0.014	Ursa Major	
NGC 3266	10h 34m 31.6s	+64° 39' 23"	12.4	Galaxy	0.011x0.01	Ursa Major	
NGC 3394	10h 51m 50.9s	+65° 37' 55"	12.4	Galaxy	0.015x0.011	Ursa Major	
NGC 2726	09h 06m 20.8s	+59° 51' 39"	12.5	Galaxy	0.013x0.004	Ursa Major	
NGC 3065	10h 03m 27.0s	+72° 04' 57"	12.5	Galaxy	0.014x0.012	Ursa Major	
NGC 3043	09h 57m 30.5s	+59° 13' 16"	12.6	Galaxy	0.014x0.005	Ursa Major	
NGC 2820	09h 23m 12.9s	+64° 10' 52"	12.8	Galaxy	0.034x0.003	Ursa Major	
NGC 2959	09h 46m 38.1s	+68° 30' 41"	12.8	Galaxy	0.010x0.010	Ursa Major	
NGC 3654	11h 25m 16.0s	+69° 18' 50"	12.8	Galaxy	0.01x0.005	Ursa Major	
NGC 3066	10h 03m 41.7s	+72° 02' 17"	12.9	Galaxy	0.009x0.008	Ursa Major	
NGC 3231	10h 28m 15.1s	+66° 43' 13"	13.0	Open cluster	0.033x0.033	Ursa Major	
NGC 2892	09h 34m 22.9s	+67° 32' 13"	13.1	Galaxy	0.011x0.011	Ursa Major	
NGC 2742A	09h 11m 23.7s	+62° 10' 22"	13.2	Galaxy	0.013x0.005	Ursa Major	2742A
NGC 3435	10h 55m 55.7s	+61° 11' 33"	13.2	Galaxy	0.015x0.01	Ursa Major	
NGC 2650	08h 51m 42.9s	+70° 13' 53"	13.3	Galaxy	0.013x0.01	Ursa Major	
NGC 3102	10h 05m 47.1s	+60° 01' 12"	13.3	Galaxy	0.007x0.007	Ursa Major	
NGC 3168	10h 17m 36.6s	+60° 08' 41"	13.4	Galaxy	0.008x0.007	Ursa Major	
NGC 3284	10h 37m 30.6s	+58° 31' 36"	13.6	Galaxy	0.007x0.005	Ursa Major	
NGC 3407	10h 53m 25.9s	+61° 17' 01"	13.6	Galaxy	0.011x0.005	Ursa Major	
NGC 2814	09h 22m 38.5s	+64° 10' 29"	13.7	Galaxy	0.009x0.002	Ursa Major	
IC 3392	10h 52m 13.9s	+65° 41' 08"	13.7	Galaxy	0.006x0.005	Ursa Major	
NGC 3288	10h 37m 34.8s	+58° 27' 45"	14.0	Galaxy	0.007x0.005	Ursa Major	
NGC 3236	10h 28m 01.0s	+61° 10' 52"	14.3	Galaxy	0.005x0.003	Ursa Major	
NGC 2961	09h 46m 51.4s	+68° 31' 32"	14.7	Galaxy	0.006x0.001	Ursa Major	

7.16 Main objects visible on chart 15

Table 22: Main objects visible on chart 15

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
4236-1	12h 17m 33.9s	+69° 21' 49"	9.6	Galaxy	0.1825x0.06	Draco	CALDWELL 3, NGC 4236-1
NGC 4125	12h 08m 58.9s	+65° 04' 27"	9.7	Galaxy	0.048x0.026	Draco	
NGC 4605	12h 40m 46.9s	+61° 30' 35"	10.3	Galaxy	0.049x0.02	Ursa Major	
IC 2574	10h 29m 41.2s	+68° 19' 27"	10.4	Galaxy	0.11x0.045	Ursa Major	Coddington nebula
NGC 3359	10h 47m 46.5s	+63° 07' 41"	10.6	Galaxy	0.06x0.036	Ursa Major	
NGC 4036	12h 02m 22.0s	+61° 47' 45"	10.7	Galaxy	0.035x0.014	Ursa Major	
NGC 3945	11h 54m 09.9s	+60° 34' 30"	10.9	Galaxy	0.043x0.029	Ursa Major	
NGC 3642	11h 23m 19.3s	+58° 58' 34"	11.2	Galaxy	0.045x0.039	Ursa Major	
NGC 4041	12h 03m 06.7s	+62° 02' 12"	11.3	Galaxy	0.022x0.021	Ursa Major	
NGC 3894	11h 49m 47.4s	+59° 18' 59"	11.6	Galaxy	0.023x0.014	Ursa Major	
NGC 4250	12h 18m 15.9s	+70° 42' 10"	11.8	Galaxy	0.022x0.017	Draco	
NGC 3735	11h 36m 59.4s	+70° 26' 09"	11.9	Galaxy	0.033x0.006	Draco	
NGC 4256	12h 19m 33.7s	+65° 47' 54"	11.9	Galaxy	0.037x0.006	Draco	

Table 22: Main objects visible on chart 15 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4128	12h 09m 25.1s	+68° 40' 05"	12.0	Galaxy	0.02x0.0075	Draco	
NGC 3259	10h 33m 48.9s	+64° 56' 53"	12.1	Galaxy	0.014x0.007	Ursa Major	
NGC 4332	12h 23m 36.6s	+65° 44' 40"	12.2	Galaxy	0.017x0.012	Draco	
NGC 4521	12h 33m 35.9s	+63° 50' 25"	12.2	Galaxy	0.020x0.005	Draco	
NGC 3668	11h 26m 32.7s	+63° 20' 50"	12.3	Galaxy	0.014x0.010	Ursa Major	
NGC 4108	12h 07m 37.9s	+67° 03' 47"	12.3	Galaxy	0.014x0.011	Draco	
NGC 4545	12h 35m 22.1s	+63° 25' 32"	12.3	Galaxy	0.020x0.012	Draco	
NGC 3266	10h 34m 31.6s	+64° 39' 23"	12.4	Galaxy	0.011x0.01	Ursa Major	
NGC 3394	10h 51m 50.9s	+65° 37' 55"	12.4	Galaxy	0.015x0.011	Ursa Major	
NGC 3835	11h 45m 03.2s	+60° 01' 13"	12.4	Galaxy	0.015x0.005	Ursa Major	
NGC 3471	11h 00m 15.7s	+61° 26' 01"	12.5	Galaxy	0.014x0.006	Ursa Major	
NGC 3682	11h 28m 44.3s	+66° 29' 30"	12.5	Galaxy	0.014x0.009	Draco	
NGC 4210	12h 16m 07.5s	+65° 53' 10"	12.5	Galaxy	0.016x0.013	Draco	
NGC 4221	12h 16m 51.4s	+66° 07' 53"	12.5	Galaxy	0.018x0.014	Draco	
NGC 3762	11h 38m 23.5s	+61° 39' 34"	12.6	Galaxy	0.015x0.004	Ursa Major	
NGC 3796	11h 41m 29.8s	+60° 11' 56"	12.6	Galaxy	0.010x0.007	Ursa Major	
NGC 3809	11h 42m 14.5s	+59° 47' 10"	12.7	Galaxy	0.008x0.006	Ursa Major	
NGC 3978	11h 57m 06.6s	+60° 25' 21"	12.7	Galaxy	0.014x0.012	Ursa Major	
NGC 4391	12h 26m 08.5s	+64° 50' 02"	12.7	Galaxy	0.009x0.009	Draco	
IC 4441	12h 28m 09.4s	+64° 42' 10"	12.7	Galaxy	0.026x0.020	Draco	
NGC 3654	11h 25m 16.0s	+69° 18' 50"	12.8	Galaxy	0.01x0.005	Ursa Major	
NGC 3770	11h 38m 57.9s	+59° 31' 03"	12.8	Galaxy	0.008x0.005	Ursa Major	
NGC 4081	12h 05m 27.5s	+64° 20' 13"	12.9	Galaxy	0.012x0.005	Ursa Major	
NGC 3231	10h 28m 15.1s	+66° 43' 13"	13.0	Open cluster	0.033x0.033	Ursa Major	
NGC 3725	11h 34m 41.1s	+61° 47' 22"	13.0	Galaxy	0.01x0.0075	Ursa Major	
NGC 3879	11h 47m 48.5s	+69° 16' 60"	13.0	Galaxy	0.022x0.004	Draco	
NGC 4205	12h 15m 47.4s	+63° 40' 56"	13.0	Galaxy	0.014x0.005	Draco	
NGC 4510	12h 32m 35.6s	+64° 08' 05"	13.0	Galaxy	0.012x0.007	Draco	
NGC 4513	12h 32m 49.2s	+66° 14' 02"	13.0	Galaxy	0.011x0.006	Draco	
NGC 3835A	11h 48m 20.4s	+60° 12' 02"	13.1	Galaxy	0.008x0.008	Ursa Major	3835A
NGC 3895	11h 50m 01.0s	+59° 19' 59"	13.1	Galaxy	0.009x0.006	Ursa Major	
NGC 5144A	13h 23m 25.2s	+70° 25' 16"	13.1	Galaxy	0.01x0.006	Ursa Minor	5144A
NGC 3435	10h 55m 55.7s	+61° 11' 33"	13.2	Galaxy	0.015x0.01	Ursa Major	
NGC 3470	10h 59m 50.8s	+59° 24' 50"	13.2	Galaxy	0.0125x0.01	Ursa Major	
NGC 3622	11h 21m 17.3s	+67° 08' 36"	13.2	Galaxy	0.01x0.004	Ursa Major	
NGC 5283	13h 41m 36.0s	+67° 34' 57"	13.2	Galaxy	0.009x0.008	Draco	
NGC 5007	13h 09m 56.0s	+62° 04' 47"	13.3	Galaxy	0.007x0.005	Ursa Major	
NGC 5034	13h 12m 53.3s	+70° 33' 16"	13.3	Galaxy	0.007x0.005	Ursa Minor	
IC 758	12h 05m 06.3s	+62° 24' 19"	13.3	Galaxy	0.015x0.013	Ursa Major	
NGC 4693	12h 47m 49.9s	+71° 04' 41"	13.4	Galaxy	0.02x0.004	Draco	
NGC 3408	10h 53m 18.2s	+58° 20' 34"	13.5	Galaxy	0.006x0.005	Ursa Major	
NGC 3961	11h 55m 54.1s	+69° 13' 46"	13.5	Galaxy	0.010x0.010	Draco	
NGC 4034	12h 02m 24.4s	+69° 13' 25"	13.5	Galaxy	0.014x0.01	Draco	
NGC 4120	12h 09m 24.2s	+69° 26' 40"	13.5	Galaxy	0.014x0.003	Draco	
NGC 4121	12h 08m 50.0s	+65° 00' 51"	13.5	Galaxy	0.003x0.003	Draco	
IC 4749	12h 51m 51.4s	+71° 32' 14"	13.5	Galaxy	0.014x0.002	Draco	

Table 22: Main objects visible on chart 15 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3407	10h 53m 25.9s	+61° 17' 01"	13.6	Galaxy	0.011x0.005	Ursa Major	
NGC 4238	12h 17m 47.7s	+63° 18' 38"	13.6	Galaxy	0.015x0.004	Draco	
IC 852	13h 08m 19.8s	+60° 03' 43"	13.6	Galaxy	0.009x0.007	Ursa Major	
IC 3392	10h 52m 13.9s	+65° 41' 08"	13.7	Galaxy	0.006x0.005	Ursa Major	
NGC 4108B	12h 08m 05.0s	+67° 08' 07"	13.7	Galaxy	0.010x0.009	Draco	4108B
IC 836	12h 56m 37.7s	+63° 30' 52"	13.7	Galaxy	0.010x0.001	Draco	
NGC 3589	11h 16m 16.9s	+60° 36' 08"	13.8	Galaxy	0.012x0.006	Ursa Major	
NGC 4108A	12h 06m 43.5s	+67° 09' 08"	13.8	Galaxy	0.011x0.004	Draco	4108A
IC 4857	12h 57m 56.9s	+70° 06' 22"	13.8	Galaxy	0.010x0.005	Draco	
NGC 5314	13h 46m 36.4s	+70° 15' 00"	13.9	Galaxy	0.008x0.004	Ursa Minor	
IC 691	11h 27m 45.1s	+59° 03' 23"	13.9	Galaxy	0.005x0.003	Ursa Major	
NGC 3740	11h 37m 11.7s	+59° 52' 37"	14.0	Galaxy	0.007x0.003	Ursa Major	
NGC 3543	11h 12m 01.1s	+61° 14' 56"	14.2	Galaxy	0.010x0.002	Ursa Major	
NGC 4195	12h 15m 10.8s	+59° 30' 56"	14.2	Galaxy	0.013x0.011	Ursa Major	
NGC 4481	12h 30m 37.5s	+63° 56' 02"	14.2	Galaxy	0.005x0.002	Draco	
NGC 4199-1	12h 15m 41.2s	+59° 48' 23"	14.3	Galaxy	0.004x0.004	Ursa Major	4199-1
IC 4652	12h 44m 07.5s	+58° 52' 01"	14.6	Galaxy	0.008x0.001	Ursa Major	
IC 3671	11h 26m 54.0s	+60° 22' 51"	14.8	Galaxy	0.004x0.003	Ursa Major	
NGC 4128A	12h 09m 07.3s	+68° 41' 08"	15.0	Galaxy	0.003x0.002	Draco	4128A
NGC 4199-2	12h 15m 44.3s	+59° 48' 30"	15.0	Galaxy	0.002x0.002	Ursa Major	4199-2
NGC 5144B	13h 23m 24.8s	+70° 24' 59"	15.0	Galaxy	0.001x0.001	Ursa Minor	5144B
NGC 4236-2	12h 17m 34.1s	+69° 21' 36"	15.1	Galaxy	0.004x0.002	Draco	4236-2
IC 3975	11h 56m 49.7s	+60° 25' 46"	15.3	Galaxy	0.005x0.002	Ursa Major	

7.17 Main objects visible on chart 16

Table 23: Main objects visible on chart 16

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5322	13h 49m 51.0s	+60° 06' 05"	10.2	Galaxy	0.05x0.034	Ursa Major	
NGC 5982	15h 39m 02.3s	+59° 17' 54"	11.1	Galaxy	0.021x0.015	Draco	
NGC 5985	15h 39m 59.3s	+59° 16' 28"	11.1	Galaxy	0.045x0.025	Draco	
NGC 5308	13h 47m 35.8s	+60° 53' 00"	11.4	Galaxy	0.030x0.005	Ursa Major	
NGC 5389	13h 56m 41.7s	+59° 39' 15"	12.0	Galaxy	0.034x0.009	Ursa Major	
NGC 5430	14h 01m 20.5s	+59° 14' 32"	12.0	Galaxy	0.019x0.010	Ursa Major	
NGC 5949	15h 28m 15.9s	+64° 42' 05"	12.0	Galaxy	0.018x0.008	Draco	
NGC 5376	13h 55m 51.5s	+59° 25' 09"	12.1	Galaxy	0.017x0.010	Ursa Major	
NGC 5832	14h 57m 50.3s	+71° 36' 35"	12.1	Galaxy	0.03x0.018	Ursa Minor	
NGC 5205	13h 30m 40.7s	+62° 25' 12"	12.3	Galaxy	0.026x0.015	Ursa Major	
NGC 5218	13h 32m 47.2s	+62° 40' 33"	12.3	Galaxy	0.015x0.010	Ursa Major	
NGC 6048	15h 57m 26.6s	+70° 38' 16"	12.3	Galaxy	0.018x0.014	Ursa Minor	
NGC 5667	14h 30m 53.2s	+59° 23' 27"	12.5	Galaxy	0.014x0.009	Draco	
NGC 5216	13h 32m 44.2s	+62° 36' 31"	12.6	Galaxy	0.015x0.01	Ursa Major	Keenan's system
NGC 6079	16h 04m 27.3s	+69° 37' 04"	12.7	Galaxy	0.011x0.008	Ursa Minor	
NGC 5894	15h 12m 05.6s	+59° 44' 29"	12.8	Galaxy	0.025x0.003	Draco	

Table 23: Main objects visible on chart 16 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5379	13h 56m 09.8s	+59° 39' 20"	12.9	Galaxy	0.018x0.005	Ursa Major	
NGC 5981	15h 38m 15.7s	+59° 19' 60"	13.0	Galaxy	0.022x0.002	Draco	
NGC 5144A	13h 23m 25.2s	+70° 25' 16"	13.1	Galaxy	0.01x0.006	Ursa Minor	5144A
NGC 5939	15h 24m 53.1s	+68° 40' 01"	13.1	Galaxy	0.007x0.004	Ursa Minor	
IC 1129	15h 32m 08.1s	+68° 11' 11"	13.1	Galaxy	0.009x0.007	Ursa Minor	
NGC 5283	13h 41m 36.0s	+67° 34' 57"	13.2	Galaxy	0.009x0.008	Draco	
NGC 5370	13h 54m 44.0s	+60° 35' 26"	13.2	Galaxy	0.009x0.009	Ursa Major	
NGC 5007	13h 09m 56.0s	+62° 04' 47"	13.3	Galaxy	0.007x0.005	Ursa Major	
NGC 5034	13h 12m 53.3s	+70° 33' 16"	13.3	Galaxy	0.007x0.005	Ursa Minor	
NGC 5216A	13h 35m 18.7s	+61° 54' 05"	13.3	Galaxy	0.01x0.0025	Ursa Major	5216A
NGC 5671	14h 27m 58.7s	+69° 36' 53"	13.3	Galaxy	0.014x0.01	Ursa Minor	
IC 1154	15h 52m 26.7s	+70° 19' 21"	13.3	Galaxy	0.008x0.006	Ursa Minor	
NGC 4693	12h 47m 49.9s	+71° 04' 41"	13.4	Galaxy	0.02x0.004	Draco	
NGC 5607	14h 19m 40.8s	+71° 30' 21"	13.4	Galaxy	0.007x0.006	Ursa Minor	
NGC 5881	15h 06m 41.7s	+62° 54' 42"	13.4	Galaxy	0.006x0.005	Draco	
NGC 5342	13h 52m 01.9s	+59° 46' 31"	13.5	Galaxy	0.009x0.003	Ursa Major	
IC 1065	14h 49m 44.5s	+63° 11' 49"	13.6	Galaxy	0.008x0.006	Draco	
IC 852	13h 08m 19.8s	+60° 03' 43"	13.6	Galaxy	0.009x0.007	Ursa Major	
IC 836	12h 56m 37.7s	+63° 30' 52"	13.7	Galaxy	0.010x0.001	Draco	
IC 954	13h 50m 19.1s	+71° 04' 33"	13.7	Galaxy	0.009x0.005	Ursa Minor	
IC 4857	12h 57m 56.9s	+70° 06' 22"	13.8	Galaxy	0.010x0.005	Draco	
NGC 5402	13h 58m 51.4s	+59° 43' 38"	13.8	Galaxy	0.010x0.002	Ursa Major	
NGC 5413	13h 58m 23.6s	+64° 49' 27"	13.8	Galaxy	0.009x0.007	Draco	
IC 1049	14h 39m 59.4s	+61° 55' 34"	13.8	Galaxy	0.007x0.005	Draco	
IC 1146	15h 48m 23.7s	+69° 19' 54"	13.8	Galaxy	0.007x0.005	Draco	
NGC 5314	13h 46m 36.4s	+70° 15' 00"	13.9	Galaxy	0.008x0.004	Ursa Minor	
NGC 5540	14h 15m 26.4s	+59° 55' 39"	13.9	Galaxy	0.006x0.005	Ursa Major	
NGC 5807	14h 56m 09.7s	+63° 49' 54"	13.9	Galaxy	0.004x0.004	Draco	
NGC 6071	16h 02m 03.5s	+70° 22' 04"	13.9	Galaxy	0.008x0.008	Ursa Minor	
NGC 5479	14h 06m 24.8s	+65° 36' 21"	14.0	Galaxy	0.005x0.004	Ursa Minor	
IC 1110	15h 12m 17.8s	+67° 17' 43"	14.0	Galaxy	0.011x0.003	Ursa Minor	
NGC 5620	14h 22m 58.2s	+69° 30' 50"	14.1	Galaxy	0.004x0.004	Ursa Minor	
NGC 6091	16h 07m 50.3s	+69° 51' 29"	14.1	Galaxy	0.006x0.004	Ursa Minor	
NGC 6024	15h 53m 19.5s	+64° 51' 56"	14.2	Galaxy	0.005x0.005	Draco	
IC 945	13h 47m 29.4s	+71° 58' 50"	14.2	Galaxy	0.007x0.005	Ursa Minor	
NGC 5415	13h 57m 18.5s	+70° 40' 03"	14.4	Galaxy	0.008x0.005	Ursa Minor	
IC 1046	14h 38m 08.7s	+68° 56' 14"	14.5	Galaxy	0.006x0.003	Ursa Minor	
IC 1083	14h 55m 46.8s	+68° 20' 11"	14.5	Galaxy	0.005x0.002	Ursa Minor	
NGC 5976A	15h 36m 29.4s	+59° 30' 28"	14.6	Galaxy	0.008x0.008	Draco	5976A
IC 1147	15h 50m 12.5s	+69° 30' 22"	14.6	Galaxy	0.005x0.005	Draco	
NGC 5340	13h 49m 19.9s	+72° 33' 55"	14.7	Galaxy	0.006x0.004	Ursa Minor	
NGC 6019	15h 52m 21.0s	+64° 47' 16"	14.7	Galaxy	0.003x0.003	Draco	
IC 1204	16h 07m 12.7s	+69° 53' 04"	14.7	Galaxy	0.005x0.002	Ursa Minor	
NGC 5976	15h 37m 10.2s	+59° 20' 23"	14.8	Galaxy	0.006x0.003	Draco	NGC 5976A
NGC 5144B	13h 23m 24.8s	+70° 24' 59"	15.0	Galaxy	0.001x0.001	Ursa Minor	5144B
IC 1187	15h 59m 06.7s	+70° 30' 25"	15.0	Galaxy	0.003x0.001	Ursa Minor	

Table 23: Main objects visible on chart 16 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1201	16h 05m 40.2s	+69° 32' 45"	15.0	Galaxy	0.01x0.0025	Draco	
NGC 5502	14h 10m 06.6s	+60° 19' 32"	15.3	Galaxy	0.002x8.333	Ursa Major	

7.18 Main objects visible on chart 17

Table 24: Main objects visible on chart 17

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6543	17h 58m 33.1s	+66° 37' 59"	8.1	Planetary Nebula	0.002x0.002	Draco	CALDWELL 6, Cat eye nebula
NGC 6503	17h 49m 16.3s	+70° 08' 20"	10.2	Galaxy	0.058x0.020	Draco	
NGC 6340	17h 10m 05.7s	+72° 16' 59"	11.0	Galaxy	0.025x0.023	Draco	
NGC 5982	15h 39m 02.3s	+59° 17' 54"	11.1	Galaxy	0.021x0.015	Draco	
NGC 5985	15h 39m 59.3s	+59° 16' 28"	11.1	Galaxy	0.045x0.025	Draco	
NGC 6015	15h 51m 42.0s	+62° 15' 19"	11.1	Galaxy	0.045x0.017	Draco	
NGC 6140	16h 21m 04.7s	+65° 20' 53"	11.3	Galaxy	0.052x0.038	Draco	
NGC 5987	15h 40m 20.6s	+58° 01' 20"	11.7	Galaxy	0.035x0.010	Draco	
NGC 6223	16h 43m 17.6s	+61° 32' 44"	11.7	Galaxy	0.029x0.021	Draco	
NGC 6236	16h 44m 24.4s	+70° 44' 51"	11.9	Galaxy	0.024x0.013	Draco	
NGC 6411	17h 35m 45.2s	+60° 48' 09"	11.9	Galaxy	0.016x0.010	Draco	
NGC 5949	15h 28m 15.9s	+64° 42' 05"	12.0	Galaxy	0.018x0.008	Draco	
NGC 6048	15h 57m 26.6s	+70° 38' 16"	12.3	Galaxy	0.018x0.014	Ursa Minor	
NGC 6395	17h 26m 16.9s	+71° 04' 57"	12.3	Galaxy	0.02x0.005	Draco	
NGC 6434	17h 36m 30.2s	+72° 04' 41"	12.4	Galaxy	0.019x0.008	Draco	
NGC 6232	16h 43m 10.7s	+70° 35' 58"	12.5	Galaxy	0.012x0.012	Draco	
NGC 6689	18h 34m 38.0s	+70° 32' 21"	12.5	Galaxy	0.033x0.010	Draco	
NGC 6095	16h 11m 27.4s	+61° 13' 20"	12.6	Galaxy	0.015x0.013	Draco	
NGC 6359	17h 18m 04.3s	+61° 45' 45"	12.6	Galaxy	0.010x0.007	Draco	
NGC 6079	16h 04m 27.3s	+69° 37' 04"	12.7	Galaxy	0.011x0.008	Ursa Minor	
NGC 6189	16h 31m 58.0s	+59° 35' 21"	12.7	Galaxy	0.015x0.007	Draco	
NGC 6667	18h 30m 36.1s	+68° 00' 00"	12.7	Galaxy	0.02x0.009	Draco	
NGC 6508	17h 49m 27.6s	+72° 01' 02"	12.8	Galaxy	0.010x0.010	Draco	
NGC 6247	16h 48m 29.9s	+62° 56' 47"	12.9	Galaxy	0.008x0.002	Draco	
NGC 6307	17h 07m 53.9s	+60° 43' 41"	12.9	Galaxy	0.010x0.008	Draco	
NGC 6521	17h 55m 57.2s	+62° 36' 36"	12.9	Galaxy	0.013x0.010	Draco	
NGC 5981	15h 38m 15.7s	+59° 19' 60"	13.0	Galaxy	0.022x0.002	Draco	
NGC 6381	17h 27m 31.0s	+59° 59' 59"	13.0	Galaxy	0.010x0.008	Draco	
NGC 5939	15h 24m 53.1s	+68° 40' 01"	13.1	Galaxy	0.007x0.004	Ursa Minor	
NGC 5989	15h 41m 53.8s	+59° 41' 53"	13.1	Galaxy	0.007x0.007	Draco	
NGC 6226	16h 43m 35.9s	+61° 57' 03"	13.1	Galaxy	0.006x0.003	Draco	
NGC 6248	16h 46m 13.8s	+70° 19' 28"	13.1	Galaxy	0.025x0.01	Draco	
NGC 6310	17h 08m 10.4s	+60° 58' 04"	13.1	Galaxy	0.015x0.003	Draco	
NGC 6361	17h 18m 54.3s	+60° 35' 24"	13.1	Galaxy	0.018x0.005	Draco	
IC 1129	15h 32m 08.1s	+68° 11' 11"	13.1	Galaxy	0.009x0.007	Ursa Minor	
IC 1210	16h 14m 43.9s	+62° 29' 30"	13.1	Galaxy	0.013x0.004	Draco	
IC 1241	17h 01m 36.4s	+63° 39' 57"	13.1	Galaxy	0.01x0.008	Draco	

Table 24: Main objects visible on chart 17 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6094	16h 06m 22.2s	+72° 26' 50"	13.2	Galaxy	0.015x0.011	Ursa Minor	
IC 1215	16h 15m 35.9s	+68° 21' 11"	13.2	Galaxy	0.009x0.005	Draco	
NGC 6542	17h 59m 50.3s	+61° 21' 32"	13.3	Galaxy	0.010x0.003	Draco	
NGC 6598	18h 08m 48.2s	+69° 04' 21"	13.3	Galaxy	0.012x0.009	Draco	
IC 1154	15h 52m 26.7s	+70° 19' 21"	13.3	Galaxy	0.008x0.006	Ursa Minor	
IC 1228	16h 42m 11.8s	+65° 33' 08"	13.3	Galaxy	0.013x0.012	Draco	
NGC 6258	16h 52m 44.4s	+60° 29' 07"	13.4	Galaxy	0.007x0.005	Draco	
NGC 6319	17h 09m 53.4s	+62° 57' 05"	13.4	Galaxy	0.006x0.006	Draco	
NGC 6536	17h 57m 20.2s	+64° 56' 12"	13.4	Galaxy	0.01x0.009	Draco	
IC 1267	17h 39m 00.8s	+59° 21' 48"	13.4	Galaxy	0.012x0.008	Draco	
NGC 6011	15h 46m 25.4s	+72° 06' 51"	13.5	Galaxy	0.016x0.005	Ursa Minor	
NGC 6214	16h 39m 36.4s	+66° 00' 19"	13.5	Galaxy	0.008x0.006	Draco	
NGC 6244	16h 48m 15.9s	+62° 10' 11"	13.5	Galaxy	0.013x0.002	Draco	
NGC 6292	17h 03m 16.7s	+61° 01' 09"	13.5	Galaxy	0.013x0.006	Draco	
NGC 6497	17h 51m 32.4s	+59° 28' 03"	13.5	Galaxy	0.011x0.005	Draco	
IC 1251	17h 09m 54.2s	+72° 23' 17"	13.5	Galaxy	0.012x0.008	Draco	
NGC 6297	17h 03m 47.8s	+62° 00' 06"	13.6	Galaxy	0.005x0.004	Draco	
NGC 6373	17h 24m 23.8s	+58° 58' 47"	13.6	Galaxy	0.010x0.008	Draco	
NGC 6491	17h 50m 11.6s	+61° 31' 39"	13.6	Galaxy	0.01x0.004	Draco	
NGC 6621	18h 12m 50.4s	+68° 22' 07"	13.6	Galaxy	0.017x0.006	Draco	
IC 1218	16h 16m 38.6s	+68° 09' 34"	13.6	Galaxy	0.009x0.002	Draco	
IC 1248	17h 11m 54.5s	+59° 58' 27"	13.6	Galaxy	0.007x0.006	Draco	
NGC 6123	16h 17m 34.3s	+61° 53' 45"	13.7	Galaxy	0.006x0.002	Draco	
NGC 6238	16h 47m 28.0s	+62° 06' 59"	13.7	Galaxy	0.005x0.003	Draco	
NGC 6303	17h 04m 57.9s	+68° 48' 14"	13.7	Galaxy	0.010x0.006	Draco	
NGC 6306	17h 07m 50.5s	+60° 42' 23"	13.7	Galaxy	0.008x0.002	Draco	
NGC 6399	17h 32m 05.0s	+59° 36' 12"	13.7	Galaxy	0.009x0.005	Draco	
NGC 6511	17h 54m 51.5s	+60° 48' 54"	13.7	Galaxy	0.008x0.005	Draco	
NGC 6552	18h 00m 06.7s	+66° 36' 55"	13.7	Galaxy	0.008x0.005	Draco	
NGC 6636-1	18h 22m 02.6s	+66° 37' 38"	13.7	Galaxy	0.017x0.002	Draco	6636-1
NGC 6170	16h 27m 54.1s	+59° 31' 26"	13.8	Galaxy	0.005x0.005	Draco	
NGC 6289	16h 57m 41.4s	+68° 29' 14"	13.8	Galaxy	0.006x0.005	Draco	
NGC 6390	17h 28m 42.0s	+60° 04' 51"	13.8	Galaxy	0.013x0.003	Draco	
IC 1146	15h 48m 23.7s	+69° 19' 54"	13.8	Galaxy	0.007x0.005	Draco	
IC 1254	17h 11m 14.6s	+72° 22' 50"	13.8	Galaxy	0.013x0.005	Draco	
NGC 6071	16h 02m 03.5s	+70° 22' 04"	13.9	Galaxy	0.008x0.008	Ursa Minor	
NGC 6260	16h 51m 59.1s	+63° 41' 07"	13.9	Galaxy	0.006x0.006	Draco	
NGC 6365A	17h 22m 54.4s	+62° 08' 59"	13.9	Galaxy	0.009x0.008	Draco	6365A
NGC 6435	17h 40m 20.2s	+62° 37' 60"	13.9	Galaxy	0.009x0.005	Draco	
NGC 6462	17h 44m 59.1s	+61° 54' 14"	13.9	Galaxy	0.003x0.003	Draco	
NGC 6512	17h 54m 59.1s	+62° 38' 36"	13.9	Galaxy	0.004x0.003	Draco	
NGC 6650	18h 25m 24.1s	+68° 01' 03"	13.9	Galaxy	0.003x0.003	Draco	
NGC 6111	16h 14m 35.3s	+63° 13' 01"	14.0	Galaxy	0.005x0.005	Draco	
NGC 6436	17h 41m 26.3s	+60° 26' 30"	14.0	Galaxy	0.011x0.006	Draco	
IC 1110	15h 12m 17.8s	+67° 17' 43"	14.0	Galaxy	0.011x0.003	Ursa Minor	
IC 1214	16h 16m 18.3s	+65° 55' 29"	14.0	Galaxy	0.011x0.005	Draco	

Table 24: Main objects visible on chart 17 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6091	16h 07m 50.3s	+69° 51' 29"	14.1	Galaxy	0.006x0.004	Ursa Minor	
NGC 6299	17h 05m 14.9s	+62° 26' 04"	14.1	Galaxy	0.005x0.005	Draco	
NGC 6424	17h 36m 01.7s	+69° 58' 44"	14.1	Galaxy	0.007x0.005	Draco	
NGC 6463	17h 43m 31.3s	+67° 35' 49"	14.1	Galaxy	0.005x0.005	Draco	
IC 1216	16h 15m 56.3s	+68° 18' 20"	14.1	Galaxy	0.008x0.007	Draco	
IC 1235	16h 52m 13.1s	+63° 05' 13"	14.1	Galaxy	0.006x0.004	Draco	
IC 4669	17h 47m 24.1s	+61° 25' 42"	14.1	Galaxy	0.005x0.002	Draco	
NGC 6024	15h 53m 19.5s	+64° 51' 56"	14.2	Galaxy	0.005x0.005	Draco	
NGC 6135	16h 14m 34.1s	+64° 56' 20"	14.2	Galaxy	0.007x0.002	Draco	
NGC 6365	17h 22m 53.9s	+62° 09' 26"	14.2	Galaxy	0.009x0.001	Draco	NGC 6365A
NGC 6457	17h 42m 53.0s	+66° 28' 07"	14.2	Galaxy	0.01x0.0075	Draco	
NGC 6470	17h 44m 11.8s	+67° 36' 44"	14.2	Galaxy	0.010x0.001	Draco	
NGC 6275	16h 55m 43.1s	+63° 12' 54"	14.3	Galaxy	0.003x0.002	Draco	
NGC 6418	17h 38m 25.4s	+58° 42' 21"	14.4	Galaxy	0.004x0.003	Draco	
NGC 6420	17h 36m 12.2s	+68° 02' 32"	14.4	Galaxy	0.005x0.002	Draco	
NGC 6493	17h 50m 33.5s	+61° 33' 19"	14.4	Galaxy	0.009x0.009	Draco	
NGC 6505	17h 51m 09.8s	+65° 31' 39"	14.4	Galaxy	0.009x0.008	Draco	
NGC 6592	18h 10m 01.8s	+61° 25' 37"	14.4	Galaxy	0.004x0.003	Draco	
NGC 6288	16h 57m 21.0s	+68° 25' 50"	14.5	Galaxy	0.006x0.003	Draco	
NGC 6391	17h 29m 04.9s	+58° 50' 14"	14.5	Galaxy	0.007x0.005	Draco	
NGC 6394	17h 30m 35.9s	+59° 37' 38"	14.5	Galaxy	0.011x0.003	Draco	
NGC 6488	17h 49m 30.5s	+62° 13' 07"	14.5	Galaxy	0.005x0.004	Draco	
IC 1225	16h 36m 53.1s	+67° 35' 37"	14.5	Galaxy	0.011x0.003	Draco	
NGC 5976A	15h 36m 29.4s	+59° 30' 28"	14.6	Galaxy	0.008x0.008	Draco	5976A
IC 1147	15h 50m 12.5s	+69° 30' 22"	14.6	Galaxy	0.005x0.005	Draco	
IC 1212	16h 15m 41.4s	+64° 10' 52"	14.6	Galaxy	0.004x0.004	Draco	
NGC 6019	15h 52m 21.0s	+64° 47' 16"	14.7	Galaxy	0.003x0.003	Draco	
NGC 6423	17h 36m 48.8s	+68° 09' 40"	14.7	Galaxy	0.005x0.004	Draco	
NGC 6471-1	17h 44m 09.8s	+67° 35' 09"	14.7	Galaxy	0.011x0.002	Draco	6471-1
IC 1204	16h 07m 12.7s	+69° 53' 04"	14.7	Galaxy	0.005x0.002	Ursa Minor	
NGC 5976	15h 37m 10.2s	+59° 20' 23"	14.8	Galaxy	0.006x0.003	Draco	NGC 5976A
NGC 6295	17h 03m 29.7s	+60° 18' 48"	14.8	Galaxy	0.007x0.003	Draco	
NGC 6419	17h 36m 01.3s	+68° 08' 43"	14.8	Galaxy	0.010x0.002	Draco	
NGC 6422	17h 36m 25.8s	+68° 02' 53"	14.8	Galaxy	0.005x0.005	Draco	
NGC 6456	17h 42m 28.9s	+67° 35' 04"	14.8	Galaxy	0.006x0.005	Draco	
NGC 6464	17h 45m 59.8s	+60° 53' 29"	14.8	Galaxy	0.005x0.005	Draco	
NGC 6516	17h 55m 25.4s	+62° 40' 03"	14.8	Galaxy	0.004x0.001	Draco	
NGC 6472	17h 44m 00.1s	+67° 37' 24"	15.0	Galaxy	0.002x0.001	Draco	
NGC 6521A	17h 56m 43.7s	+62° 36' 56"	15.0	Galaxy	0.005x0.001	Draco	6521A
NGC 6622	18h 12m 54.7s	+68° 21' 35"	15.0	Galaxy	0.007x0.003	Draco	
IC 1187	15h 59m 06.7s	+70° 30' 25"	15.0	Galaxy	0.003x0.001	Ursa Minor	
IC 1201	16h 05m 40.2s	+69° 32' 45"	15.0	Galaxy	0.01x0.0025	Draco	
IC 1261-1	17h 23m 06.1s	+71° 14' 52"	15.0	Galaxy	0.006x0.005	Draco	IC 1261-1
IC 1261-2	17h 23m 11.4s	+71° 14' 50"	15.0	Galaxy	0.007x0.005	Draco	IC 1261-2
IC 4677	17h 58m 15.4s	+66° 37' 59"	15.0	Nebula	0.009x0.005	Draco	
NGC 6317	17h 09m 08.8s	+62° 52' 33"	15.1	Galaxy	0.01x0.003	Draco	

Table 24: Main objects visible on chart 17 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6636-2	18h 22m 04.9s	+66° 37' 56"	15.2	Galaxy	0.002x0.002	Draco	6636-2
NGC 6471-2	17h 44m 15.0s	+67° 35' 02"	15.3	Galaxy	0.002x0.002	Draco	6471-2
NGC 6477	17h 44m 26.8s	+67° 36' 15"	15.3	Galaxy	0.003x0.002	Draco	
NGC 6489	17h 50m 14.9s	+60° 05' 17"	15.3	Galaxy	0.003x0.002	Draco	
NGC 6393	17h 30m 23.3s	+59° 31' 08"	15.7	Galaxy	0.002x0.002	Draco	

7.19 Main objects visible on chart 18

Table 25: Main objects visible on chart 18

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6939	20h 31m 51.6s	+60° 43' 24"	7.8	Open cluster	0.083x0.083	Cepheus	
NGC 6543	17h 58m 33.1s	+66° 37' 59"	8.1	Planetary Nebula	0.002x0.002	Draco	CALDWELL 6, Cat eye nebula
NGC 6503	17h 49m 16.3s	+70° 08' 20"	10.2	Galaxy	0.058x0.020	Draco	
NGC 6952	20h 37m 27.3s	+66° 10' 10"	10.7	Galaxy	0.032x0.026	Cepheus	
NGC 6869	20h 00m 50.4s	+66° 16' 42"	12.0	Galaxy	0.013x0.010	Draco	
NGC 6701	18h 43m 25.9s	+60° 40' 19"	12.1	Galaxy	0.012x0.010	Draco	
NGC 6689	18h 34m 38.0s	+70° 32' 21"	12.5	Galaxy	0.033x0.010	Draco	
NGC 6796	19h 21m 45.4s	+61° 10' 48"	12.6	Galaxy	0.015x0.003	Draco	
NGC 6667	18h 30m 36.1s	+68° 00' 00"	12.7	Galaxy	0.02x0.009	Draco	
NGC 6521	17h 55m 57.2s	+62° 36' 36"	12.9	Galaxy	0.013x0.010	Draco	
NGC 6651	18h 24m 03.1s	+71° 36' 46"	13.1	Galaxy	0.013x0.005	Draco	
NGC 6677	18h 33m 29.3s	+67° 09' 06"	13.1	Galaxy	0.003x0.002	Draco	
NGC 6750	19h 00m 52.4s	+59° 11' 37"	13.1	Galaxy	0.008x0.005	Draco	
NGC 6789	19h 16m 50.5s	+64° 00' 18"	13.2	Galaxy	0.010x0.008	Draco	
NGC 6542	17h 59m 50.3s	+61° 21' 32"	13.3	Galaxy	0.010x0.003	Draco	
NGC 6598	18h 08m 48.2s	+69° 04' 21"	13.3	Galaxy	0.012x0.009	Draco	
NGC 6679	18h 33m 34.7s	+67° 07' 29"	13.3	Galaxy	0.007x0.003	Draco	
NGC 6831	19h 48m 15.6s	+59° 56' 19"	13.3	Galaxy	0.011x0.011	Draco	
NGC 6536	17h 57m 20.2s	+64° 56' 12"	13.4	Galaxy	0.01x0.009	Draco	
NGC 6763	19h 05m 45.2s	+63° 57' 45"	13.4	Galaxy	0.012x0.003	Draco	
NGC 6916	20h 23m 56.8s	+58° 24' 11"	13.5	Galaxy	0.015x0.01	Cygnus	
NGC 6491	17h 50m 11.6s	+61° 31' 39"	13.6	Galaxy	0.01x0.004	Draco	
NGC 6621	18h 12m 50.4s	+68° 22' 07"	13.6	Galaxy	0.017x0.006	Draco	
NGC 6511	17h 54m 51.5s	+60° 48' 54"	13.7	Galaxy	0.008x0.005	Draco	
NGC 6552	18h 00m 06.7s	+66° 36' 55"	13.7	Galaxy	0.008x0.005	Draco	
NGC 6636-1	18h 22m 02.6s	+66° 37' 38"	13.7	Galaxy	0.017x0.002	Draco	6636-1
NGC 6949	20h 35m 22.5s	+64° 51' 58"	13.8	Galaxy	0.011x0.01	Cepheus	
NGC 6512	17h 54m 59.1s	+62° 38' 36"	13.9	Galaxy	0.004x0.003	Draco	
NGC 6650	18h 25m 24.1s	+68° 01' 03"	13.9	Galaxy	0.003x0.003	Draco	
NGC 6787	19h 16m 25.8s	+60° 27' 01"	13.9	Galaxy	0.01x0.008	Draco	
NGC 6687	18h 37m 36.8s	+59° 39' 34"	14.0	Galaxy	0.010x0.01	Draco	
NGC 6424	17h 36m 01.7s	+69° 58' 44"	14.1	Galaxy	0.007x0.005	Draco	
NGC 6463	17h 43m 31.3s	+67° 35' 49"	14.1	Galaxy	0.005x0.005	Draco	
NGC 6829	19h 47m 25.8s	+59° 57' 09"	14.1	Galaxy	0.013x0.003	Draco	

Table 25: Main objects visible on chart 18 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6457	17h 42m 53.0s	+66° 28' 07"	14.2	Galaxy	0.01x0.0075	Draco	
NGC 6470	17h 44m 11.8s	+67° 36' 44"	14.2	Galaxy	0.010x0.001	Draco	
NGC 6670	18h 33m 47.7s	+59° 54' 09"	14.3	Galaxy	0.009x0.005	Draco	
NGC 6670A	18h 33m 51.8s	+59° 54' 16"	14.3	Galaxy	0.004x0.001	Draco	6670A
NGC 6911	20h 19m 47.7s	+66° 47' 11"	14.3	Galaxy	0.014x0.009	Draco	
NGC 6420	17h 36m 12.2s	+68° 02' 32"	14.4	Galaxy	0.005x0.002	Draco	
NGC 6493	17h 50m 33.5s	+61° 33' 19"	14.4	Galaxy	0.009x0.009	Draco	
NGC 6505	17h 51m 09.8s	+65° 31' 39"	14.4	Galaxy	0.009x0.008	Draco	
NGC 6592	18h 10m 01.8s	+61° 25' 37"	14.4	Galaxy	0.004x0.003	Draco	
NGC 6676	18h 33m 09.0s	+66° 58' 28"	14.4	Galaxy	0.013x0.002	Draco	
NGC 6825	19h 42m 05.2s	+64° 06' 59"	14.4	Galaxy	0.004x0.002	Draco	
IC 4708	18h 13m 57.9s	+61° 09' 47"	14.4	Galaxy	0.002x0.002	Draco	
NGC 6488	17h 49m 30.5s	+62° 13' 07"	14.5	Galaxy	0.005x0.004	Draco	
NGC 6594	18h 10m 17.4s	+61° 08' 17"	14.5	Galaxy	0.008x0.005	Draco	
NGC 6609	18h 12m 45.0s	+61° 20' 16"	14.5	Galaxy	0.005x0.005	Draco	
NGC 6617	18h 14m 14.4s	+61° 19' 32"	14.6	Galaxy	0.009x0.005	Draco	
NGC 6423	17h 36m 48.8s	+68° 09' 40"	14.7	Galaxy	0.005x0.004	Draco	
NGC 6471-1	17h 44m 09.8s	+67° 35' 09"	14.7	Galaxy	0.011x0.002	Draco	6471-1
NGC 6601	18h 11m 55.4s	+61° 27' 30"	14.7	Galaxy	0.004x0.002	Draco	
NGC 6419	17h 36m 01.3s	+68° 08' 43"	14.8	Galaxy	0.010x0.002	Draco	
NGC 6422	17h 36m 25.8s	+68° 02' 53"	14.8	Galaxy	0.005x0.005	Draco	
NGC 6456	17h 42m 28.9s	+67° 35' 04"	14.8	Galaxy	0.006x0.005	Draco	
NGC 6516	17h 55m 25.4s	+62° 40' 03"	14.8	Galaxy	0.004x0.001	Draco	
NGC 6597	18h 11m 25.1s	+61° 11' 10"	14.8	Galaxy	0.006x0.003	Draco	
NGC 6817-1	19h 37m 36.9s	+62° 25' 31"	14.9	Galaxy	0.005x0.005	Draco	6817-1
NGC 6472	17h 44m 00.1s	+67° 37' 24"	15.0	Galaxy	0.002x0.001	Draco	
NGC 6521A	17h 56m 43.7s	+62° 36' 56"	15.0	Galaxy	0.005x0.001	Draco	6521A
NGC 6622	18h 12m 54.7s	+68° 21' 35"	15.0	Galaxy	0.007x0.003	Draco	
IC 4677	17h 58m 15.4s	+66° 37' 59"	15.0	Nebula	0.009x0.005	Draco	
NGC 6608	18h 12m 40.7s	+61° 18' 15"	15.1	Galaxy	0.008x8.333	Draco	
NGC 6696	18h 40m 20.4s	+59° 21' 03"	15.1	Galaxy	0.006x0.001	Draco	
NGC 6636-2	18h 22m 04.9s	+66° 37' 56"	15.2	Galaxy	0.002x0.002	Draco	6636-2
NGC 6471-2	17h 44m 15.0s	+67° 35' 02"	15.3	Galaxy	0.002x0.002	Draco	6471-2
NGC 6477	17h 44m 26.8s	+67° 36' 15"	15.3	Galaxy	0.003x0.002	Draco	
NGC 6607	18h 12m 26.3s	+61° 20' 19"	15.3	Galaxy	0.004x0.004	Draco	
NGC 6817-2	19h 37m 34.5s	+62° 25' 29"	15.3	Galaxy	0.001x0.001	Draco	6817-2

7.20 Main objects visible on chart 19

Table 26: Main objects visible on chart 19

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7160	21h 54m 11.2s	+62° 41' 20"	6.1	Open cluster	0.041x0.041	Cepheus	
NGC 7380	22h 48m 04.3s	+58° 13' 37"	7.2	Open cluster	0.166x0.166	Cepheus	
NGC 6939	20h 31m 51.6s	+60° 43' 24"	7.8	Open cluster	0.083x0.083	Cepheus	

Table 26: Main objects visible on chart 19 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6946	20h 35m 14.7s	+60° 12' 58"	8.8	Galaxy	0.095x0.081	Cygnus	
NGC 7142	21h 45m 35.1s	+65° 51' 28"	9.3	Open cluster	0.1x0.1	Cepheus	
NGC 6952	20h 37m 27.3s	+66° 10' 10"	10.7	Galaxy	0.032x0.026	Cepheus	
NGC 6869	20h 00m 50.4s	+66° 16' 42"	12.0	Galaxy	0.013x0.010	Draco	
NGC 7129	21h 43m 23.7s	+66° 11' 45"	12.0	Open cluster	0.058x0.058	Cepheus	
NGC 7354	22h 41m 00.4s	+61° 22' 49"	12.2	Planetary Nebula	0.005x0.005	Cepheus	
NGC 7419	22h 55m 03.2s	+60° 54' 42"	13.0	Open cluster	0.05x0.05	Cepheus	
NGC 7139	21h 46m 36.8s	+63° 52' 33"	13.3	Planetary Nebula	0.010x0.010	Cepheus	
NGC 6916	20h 23m 56.8s	+58° 24' 11"	13.5	Galaxy	0.015x0.01	Cygnus	
NGC 7076	21h 26m 50.3s	+62° 58' 13"	13.5	Planetary Nebula	0.007x0.007	Cepheus	
NGC 6949	20h 35m 22.5s	+64° 51' 58"	13.8	Galaxy	0.011x0.01	Cepheus	
NGC 6911	20h 19m 47.7s	+66° 47' 11"	14.3	Galaxy	0.014x0.009	Draco	
NGC 7023	21h 01m 48.6s	+68° 14' 27"	-	Nebula	0.083x0.066	Cepheus	CALDWELL 4, Iris nebula
Sh2-155	22h 58m 00.8s	+62° 44' 21"	-	Nebula	0.42x0.25	Cepheus	CALDWELL 9, Cave nebula

7.21 Main objects visible on chart 20

Table 27: Main objects visible on chart 20

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7686	23h 30m 59.1s	+49° 14' 01"	5.6	Open cluster	0.125x0.125	Andromeda	
NGC 129	00h 30m 58.9s	+60° 18' 40"	6.5	Open cluster	0.1x0.1	Cassiopeia	
NGC 7789	23h 58m 23.6s	+56° 48' 53"	6.7	Open cluster	0.208x0.208	Cassiopeia	
NGC 7380	22h 48m 04.3s	+58° 13' 37"	7.2	Open cluster	0.166x0.166	Cepheus	
Stock12	23h 36m 28.1s	+52° 46' 59"	8.1	Open cluster	0.166x0.166	Cassiopeia	
NGC 1857	00h 39m 57.6s	+48° 26' 09"	9.2	Galaxy	0.066x0.058	Cassiopeia	
NGC 147	00h 34m 11.0s	+48° 36' 23"	9.5	Galaxy	0.11x0.065	Cassiopeia	CALDWELL 17
Stock19	00h 05m 20.1s	+56° 08' 01"	9.8	Open cluster	0.025x0.008	Cassiopeia	
King48	22h 53m 44.2s	+58° 22' 46"	9.9	Open cluster	0.033x0.033	Cepheus	
IC 10	00h 21m 23.5s	+59° 23' 32"	10.4	Galaxy	0.053x0.044	Cassiopeia	
NGC 2784	00h 53m 05.8s	+47° 38' 54"	10.8	Galaxy	0.017x0.016	Cassiopeia	
IC 1590	00h 53m 51.8s	+56° 43' 45"	12.0	Open cluster	0.0x0.0	Cassiopeia	
NGC 5139	00h 15m 31.9s	+48° 21' 22"	13.1	Galaxy	0.010x0.008	Andromeda	CALDWELL 80, Omega Centauri
NGC 4833	00h 14m 59.2s	+48° 20' 06"	13.6	Galaxy	0.013x0.008	Andromeda	CALDWELL 105
IC 4996	00h 15m 19.5s	+48° 20' 50"	13.7	Galaxy	0.009x0.008	Andromeda	
IC 1534	00h 14m 42.4s	+48° 15' 07"	13.8	Galaxy	0.008x0.004	Andromeda	
IC 1535	00h 14m 54.2s	+48° 15' 27"	14.3	Galaxy	0.010x0.002	Andromeda	
IC 1536	00h 15m 16.0s	+48° 14' 38"	14.3	Galaxy	0.005x0.004	Andromeda	
NGC 7423	22h 55m 51.5s	+57° 11' 28"	15.0	Open cluster	0.041x0.041	Cepheus	

7.22 Main objects visible on chart 21

Table 28: Main objects visible on chart 21

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Stock2	02h 15m 41.9s	+59° 20' 60"	4.4	Open cluster	0.5x0.5	Cassiopeia	
NGC 869	02h 20m 20.7s	+57° 13' 02"	5.3	Open cluster	0.15x0.15	Perseus	CALDWELL 14, Double cluster
NGC 884	02h 23m 22.1s	+57° 12' 41"	6.1	Open cluster	0.15x0.15	Perseus	
NGC 457	01h 20m 41.7s	+58° 23' 21"	6.4	Open cluster	0.166x0.166	Cassiopeia	CALDWELL 13, Owl cluster
NGC 581	01h 34m 35.4s	+60° 45' 01"	7.4	Open cluster	0.05x0.05	Cassiopeia	M103
NGC 957	02h 34m 39.9s	+57° 38' 18"	7.6	Open cluster	0.083x0.083	Perseus	
NGC 659	01h 45m 38.3s	+60° 45' 36"	7.9	Open cluster	0.05x0.05	Cassiopeia	
NGC 744	01h 59m 45.8s	+55° 33' 37"	7.9	Open cluster	0.041x0.041	Perseus	
Stock4	01h 54m 13.0s	+57° 09' 17"	8.6	Open cluster	0.166x0.166	Perseus	
NGC 436	01h 17m 06.4s	+58° 54' 23"	8.8	Open cluster	0.041x0.041	Cassiopeia	
NGC 4337	01h 16m 18.2s	+60° 13' 14"	9.0	Open cluster	0.033x0.033	Cassiopeia	
NGC 6572	01h 44m 40.7s	+55° 57' 54"	10.0	Open cluster	0.058x0.058	Cassiopeia	
NGC 743	01h 59m 53.2s	+60° 15' 13"	10.0	Open cluster	0.058x0.058	Cassiopeia	
NGC 650	01h 43m 26.6s	+51° 39' 42"	10.1	Planetary Nebula	0.026x0.026	Perseus	M76, Little Dumbbell
NGC 2784	00h 53m 05.8s	+47° 38' 54"	10.8	Galaxy	0.017x0.016	Cassiopeia	
IC 1590	00h 53m 51.8s	+56° 43' 45"	12.0	Open cluster	0.0x0.0	Cassiopeia	
IC 65	01h 01m 57.7s	+47° 46' 42"	12.9	Galaxy	0.025x0.007	Andromeda	
NGC 5629	01h 29m 34.9s	+48° 28' 47"	13.3	Galaxy	0.010x0.009	Andromeda	

7.23 Main objects visible on chart 22

Table 29: Main objects visible on chart 22

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel20	03h 23m 16.8s	+49° 03' 49"	1.2	Open cluster	1.541x1.541	Perseus	Alpha Persei cluster
Stock2	02h 15m 41.9s	+59° 20' 60"	4.4	Open cluster	0.5x0.5	Cassiopeia	
NGC 869	02h 20m 20.7s	+57° 13' 02"	5.3	Open cluster	0.15x0.15	Perseus	CALDWELL 14, Double cluster
NGC 884	02h 23m 22.1s	+57° 12' 41"	6.1	Open cluster	0.15x0.15	Perseus	
NGC 1545	04h 22m 17.9s	+50° 17' 49"	6.2	Open cluster	0.1x0.1	Perseus	
NGC 1528	04h 16m 41.3s	+51° 15' 20"	6.4	Open cluster	0.15x0.15	Perseus	
IC 1848	02h 52m 42.3s	+60° 28' 54"	6.5	Open cluster	0.15x0.15	Cassiopeia	
NGC 1444	03h 50m 47.0s	+52° 42' 32"	6.6	Open cluster	0.033x0.033	Perseus	
NGC 957	02h 34m 39.9s	+57° 38' 18"	7.6	Open cluster	0.083x0.083	Perseus	
NGC 1245	03h 15m 56.4s	+47° 18' 16"	8.4	Open cluster	0.083x0.083	Perseus	
NGC 1513	04h 11m 17.4s	+49° 33' 40"	8.4	Open cluster	0.1x0.1	Perseus	
NGC 1496	04h 05m 54.8s	+52° 42' 34"	9.6	Open cluster	0.025x0.025	Perseus	
IC 361	04h 20m 21.2s	+58° 17' 31"	11.7	Open cluster	0.058x0.058	Camelopardalis	
NGC 1220	03h 13m 00.0s	+53° 24' 54"	11.8	Open cluster	0.016x0.016	Perseus	
IC 257	02h 50m 58.0s	+47° 02' 58"	12.6	Galaxy	0.011x0.006	Perseus	
IC 260	02h 52m 13.8s	+47° 01' 42"	13.2	Galaxy	0.008x0.005	Perseus	
NGC 1348	03h 35m 25.7s	+51° 28' 46"	14.0	Open cluster	0.05x0.05	Perseus	

7.24 Main objects visible on chart 23

Table 30: Main objects visible on chart 23

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1545	04h 22m 17.9s	+50° 17' 49"	6.2	Open cluster	0.1x0.1	Perseus	
NGC 1528	04h 16m 41.3s	+51° 15' 20"	6.4	Open cluster	0.15x0.15	Perseus	
NGC 1513	04h 11m 17.4s	+49° 33' 40"	8.4	Open cluster	0.1x0.1	Perseus	
NGC 1496	04h 05m 54.8s	+52° 42' 34"	9.6	Open cluster	0.025x0.025	Perseus	
NGC 1798	05h 13m 00.5s	+47° 42' 58"	10.0	Open cluster	0.041x0.041	Auriga	
NGC 2126	06h 03m 56.8s	+49° 51' 52"	10.2	Open cluster	0.05x0.05	Auriga	
NGC 1708	05h 04m 53.2s	+52° 51' 27"	11.0	Open cluster	0.166x0.166	Camelopardalis	
IC 361	04h 20m 21.2s	+58° 17' 31"	11.7	Open cluster	0.058x0.058	Camelopardalis	
NGC 1624	04h 41m 59.2s	+50° 29' 43"	11.8	Open cluster	0.025x0.025	Perseus	
NGC 2128	06h 06m 07.3s	+57° 37' 31"	12.6	Galaxy	0.012x0.009	Camelopardalis	
NGC 2013	05h 45m 32.3s	+55° 47' 46"	13.0	Open cluster	0.0x0.0	Auriga	

7.25 Main objects visible on chart 24

Table 31: Main objects visible on chart 24

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2126	06h 03m 56.8s	+49° 51' 52"	10.2	Open cluster	0.05x0.05	Auriga	
NGC 2273	06h 51m 45.8s	+60° 49' 25"	11.7	Galaxy	0.03x0.016	Lynx	
NGC 2340	07h 12m 33.5s	+50° 08' 38"	11.7	Galaxy	0.015x0.01	Lynx	
NGC 2320	07h 07m 05.3s	+50° 33' 08"	11.9	Galaxy	0.011x0.006	Lynx	
NGC 2344	07h 13m 48.6s	+47° 08' 09"	12.0	Galaxy	0.0125x0.01	Lynx	
IC 2166	06h 28m 31.0s	+59° 04' 03"	12.4	Galaxy	0.025x0.017	Lynx	
NGC 2273B	06h 48m 08.2s	+60° 19' 11"	12.5	Galaxy	0.0225x0.01	Lynx	2273B
NGC 2329	07h 10m 29.3s	+48° 35' 09"	12.5	Galaxy	0.010x0.009	Lynx	
NGC 2128	06h 06m 07.3s	+57° 37' 31"	12.6	Galaxy	0.012x0.009	Camelopardalis	
NGC 2273A	06h 41m 43.5s	+60° 03' 46"	12.6	Galaxy	0.022x0.018	Lynx	2273A
IC 2165	06h 12m 29.7s	+51° 40' 23"	12.7	Open cluster	0.05x0.05	Auriga	
IC 2469	07h 59m 30.3s	+56° 37' 49"	12.7	Galaxy	0.008x0.005	Lynx	
NGC 2208	06h 24m 00.5s	+51° 53' 59"	12.8	Galaxy	0.013x0.009	Auriga	
NGC 2332	07h 10m 56.6s	+50° 09' 06"	12.8	Galaxy	0.012x0.008	Lynx	
NGC 2446	07h 50m 04.6s	+54° 33' 56"	12.9	Galaxy	0.015x0.008	Lynx	
NGC 2013	05h 45m 32.3s	+55° 47' 46"	13.0	Open cluster	0.0x0.0	Auriga	
NGC 2326	07h 09m 34.3s	+50° 39' 09"	13.1	Galaxy	0.015x0.015	Lynx	
NGC 2426	07h 44m 41.7s	+52° 16' 27"	13.1	Galaxy	0.009x0.009	Lynx	
NGC 2456	07h 55m 36.7s	+55° 26' 50"	13.1	Galaxy	0.009x0.006	Lynx	
NGC 2462	07h 57m 59.1s	+56° 38' 15"	13.2	Galaxy	0.003x0.002	Lynx	
IC 471	07h 44m 57.2s	+49° 37' 26"	13.3	Galaxy	0.005x0.005	Lynx	
NGC 2431	07h 46m 37.3s	+53° 01' 51"	13.4	Galaxy	0.007x0.007	Lynx	
IC 472	07h 45m 10.9s	+49° 34' 09"	13.4	Galaxy	0.013x0.008	Lynx	
IC 458	07h 11m 56.4s	+50° 05' 21"	13.5	Galaxy	0.007x0.003	Lynx	
NGC 2315	07h 03m 56.5s	+50° 33' 49"	13.6	Galaxy	0.010x0.002	Lynx	
NGC 2321	07h 07m 22.4s	+50° 43' 41"	13.6	Galaxy	0.011x0.009	Lynx	
NGC 2334	07h 12m 56.4s	+50° 13' 04"	13.7	Galaxy	0.007x0.005	Lynx	
NGC 2429	07h 45m 10.8s	+52° 18' 48"	13.7	Galaxy	0.012x0.003	Lynx	

Table 31: Main objects visible on chart 24 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2322	07h 07m 23.6s	+50° 28' 54"	13.8	Galaxy	0.009x0.003	Lynx	
IC 464	07h 12m 27.2s	+50° 06' 19"	13.8	Galaxy	0.006x0.003	Lynx	
NGC 2468	07h 59m 28.9s	+56° 18' 34"	13.9	Galaxy	0.010x0.005	Lynx	
NGC 2463	07h 58m 39.4s	+56° 37' 39"	14.2	Galaxy	0.005x0.005	Lynx	
NGC 2458	07h 57m 18.9s	+56° 39' 43"	14.5	Galaxy	0.003x0.002	Lynx	
IC 459	07h 12m 01.4s	+50° 08' 50"	14.5	Galaxy	0.002x0.002	Lynx	
IC 460	07h 12m 06.9s	+50° 10' 17"	14.6	Galaxy	0.003x0.002	Lynx	
NGC 2326A	07h 09m 57.6s	+50° 36' 07"	14.7	Galaxy	0.008x0.005	Lynx	2326A
NGC 2330	07h 10m 51.1s	+50° 07' 22"	14.8	Galaxy	0.003x0.002	Lynx	
IC 461	07h 12m 07.7s	+50° 03' 02"	14.9	Galaxy	0.005x0.003	Lynx	
IC 463	07h 12m 23.6s	+50° 05' 19"	15.0	Galaxy	0.002x0.001	Lynx	
IC 2473	07h 57m 02.4s	+56° 41' 16"	15.1	Galaxy	0.004x0.002	Lynx	
IC 2472	08h 00m 08.8s	+56° 39' 04"	15.3	Galaxy	0.004x0.004	Lynx	
IC 2457	07h 56m 11.7s	+55° 29' 56"	15.4	Galaxy	0.004x0.001	Lynx	

7.26 Main objects visible on chart 25

Table 32: Main objects visible on chart 25

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2841	09h 23m 16.4s	+50° 53' 56"	9.2	Galaxy	0.067x0.029	Ursa Major	
NGC 2768	09h 13m 00.6s	+59° 57' 43"	9.9	Galaxy	0.053x0.025	Ursa Major	
NGC 2681	08h 54m 49.6s	+51° 14' 38"	10.3	Galaxy	0.03x0.0275	Ursa Major	
NGC 2950	09h 43m 52.5s	+58° 46' 07"	10.9	Galaxy	0.022x0.015	Ursa Major	
NGC 2549	08h 20m 24.9s	+57° 44' 44"	11.2	Galaxy	0.031x0.01	Lynx	
NGC 2685	08h 56m 58.7s	+58° 39' 54"	11.3	Galaxy	0.038x0.020	Ursa Major	Helix galaxy
NGC 2742	09h 08m 57.4s	+60° 24' 22"	11.4	Galaxy	0.025x0.012	Ursa Major	
NGC 2500	08h 03m 13.6s	+50° 41' 08"	11.6	Galaxy	0.024x0.022	Lynx	
NGC 2639	08h 44m 54.9s	+50° 08' 25"	11.7	Galaxy	0.015x0.009	Ursa Major	
NGC 2460	07h 58m 24.9s	+60° 18' 01"	11.8	Galaxy	0.020x0.015	Camelopardalis	
NGC 2541	08h 15m 58.4s	+49° 00' 22"	11.8	Galaxy	0.052x0.026	Lynx	
NGC 2654	08h 50m 38.3s	+60° 09' 11"	11.8	Galaxy	0.035x0.006	Ursa Major	
NGC 2693	08h 58m 16.2s	+51° 16' 40"	11.9	Galaxy	0.021x0.015	Ursa Major	
NGC 2552	08h 20m 38.4s	+49° 56' 58"	12.1	Galaxy	0.03x0.0175	Lynx	
NGC 2701	09h 00m 24.1s	+53° 41' 59"	12.3	Galaxy	0.018x0.013	Ursa Major	
NGC 2857	09h 25m 50.5s	+49° 16' 44"	12.3	Galaxy	0.018x0.016	Ursa Major	
IC 2488	08h 03m 12.3s	+56° 30' 06"	12.4	Galaxy	0.011x0.006	Lynx	
NGC 2756	09h 10m 18.5s	+53° 46' 29"	12.4	Galaxy	0.014x0.01	Ursa Major	
NGC 2726	09h 06m 20.8s	+59° 51' 39"	12.5	Galaxy	0.013x0.004	Ursa Major	
IC 2469	07h 59m 30.3s	+56° 37' 49"	12.7	Galaxy	0.008x0.005	Lynx	
NGC 2771	09h 11m 54.5s	+50° 18' 18"	12.7	Galaxy	0.019x0.015	Ursa Major	
NGC 2521	08h 10m 16.9s	+57° 42' 58"	12.8	Galaxy	0.01x0.005	Lynx	
NGC 2800	09h 19m 50.7s	+52° 26' 17"	12.8	Galaxy	0.011x0.007	Ursa Major	
NGC 2446	07h 50m 04.6s	+54° 33' 56"	12.9	Galaxy	0.015x0.008	Lynx	
IC 2534	08h 14m 18.8s	+55° 37' 00"	12.9	Galaxy	0.008x0.008	Lynx	

Table 32: Main objects visible on chart 25 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2684	08h 56m 09.2s	+49° 05' 27"	12.9	Galaxy	0.007x0.005	Ursa Major	
NGC 2710	09h 01m 08.6s	+55° 38' 05"	12.9	Galaxy	0.016x0.008	Ursa Major	
NGC 2518	08h 08m 40.8s	+51° 04' 45"	13.0	Galaxy	0.01x0.008	Lynx	
NGC 2769	09h 11m 47.2s	+50° 21' 34"	13.0	Galaxy	0.015x0.003	Ursa Major	
NGC 2854	09h 25m 15.7s	+49° 07' 33"	13.0	Galaxy	0.013x0.005	Ursa Major	
NGC 2870	09h 29m 12.1s	+57° 17' 48"	13.0	Galaxy	0.020x0.005	Ursa Major	
IC 522	08h 55m 57.0s	+57° 05' 50"	13.0	Galaxy	0.008x0.006	Ursa Major	
NGC 2426	07h 44m 41.7s	+52° 16' 27"	13.1	Galaxy	0.009x0.009	Lynx	
NGC 2456	07h 55m 36.7s	+55° 26' 50"	13.1	Galaxy	0.009x0.006	Lynx	
NGC 2474	07h 59m 23.2s	+52° 48' 45"	13.1	Galaxy	0.006x0.006	Lynx	
NGC 2462	07h 57m 59.1s	+56° 38' 15"	13.2	Galaxy	0.003x0.002	Lynx	
NGC 2475	07h 59m 21.7s	+52° 48' 27"	13.2	Galaxy	0.005x0.005	Lynx	
NGC 2497	08h 03m 38.2s	+56° 53' 28"	13.2	Galaxy	0.011x0.01	Lynx	
NGC 2505	08h 05m 29.9s	+53° 29' 52"	13.2	Galaxy	0.01x0.005	Lynx	
NGC 2856	09h 25m 29.0s	+49° 10' 16"	13.2	Galaxy	0.009x0.004	Ursa Major	
NGC 2675	08h 53m 24.1s	+53° 32' 55"	13.3	Galaxy	0.012x0.009	Ursa Major	
NGC 2692	08h 58m 15.2s	+51° 59' 45"	13.3	Galaxy	0.010x0.004	Ursa Major	
IC 471	07h 44m 57.2s	+49° 37' 26"	13.3	Galaxy	0.005x0.005	Lynx	
NGC 2431	07h 46m 37.3s	+53° 01' 51"	13.4	Galaxy	0.007x0.007	Lynx	
NGC 2676	08h 52m 50.2s	+47° 29' 24"	13.4	Galaxy	0.01x0.01	Ursa Major	
IC 472	07h 45m 10.9s	+49° 34' 09"	13.4	Galaxy	0.013x0.008	Lynx	
NGC 2429	07h 45m 10.8s	+52° 18' 48"	13.7	Galaxy	0.012x0.003	Lynx	
IC 2209	07h 57m 46.3s	+60° 15' 18"	13.7	Galaxy	0.009x0.007	Camelopardalis	
NGC 2656	08h 49m 12.9s	+53° 48' 32"	13.8	Galaxy	0.008x0.008	Ursa Major	
NGC 2767	09h 11m 26.7s	+50° 19' 40"	13.8	Galaxy	0.007x0.005	Ursa Major	
NGC 2895	09h 33m 42.7s	+57° 24' 10"	13.8	Galaxy	0.006x0.005	Ursa Major	
NGC 2468	07h 59m 28.9s	+56° 18' 34"	13.9	Galaxy	0.010x0.005	Lynx	
NGC 2740	09h 07m 21.2s	+51° 39' 46"	14.0	Galaxy	0.008x0.007	Ursa Major	
NGC 2463	07h 58m 39.4s	+56° 37' 39"	14.2	Galaxy	0.005x0.005	Lynx	
NGC 2600	08h 36m 04.7s	+52° 39' 09"	14.2	Galaxy	0.01x0.003	Ursa Major	
IC 2606	08h 36m 54.3s	+52° 43' 32"	14.3	Galaxy	0.005x0.002	Ursa Major	
IC 2694-1	08h 58m 16.0s	+51° 15' 45"	14.4	Galaxy	0.01x0.01	Ursa Major	IC 2694-1
NGC 2458	07h 57m 18.9s	+56° 39' 43"	14.5	Galaxy	0.003x0.002	Lynx	
IC 2602	08h 36m 24.3s	+52° 46' 06"	14.7	Galaxy	0.002x0.001	Ursa Major	CALDWELL 102, Southern Pleiades
NGC 2739	09h 07m 19.0s	+51° 40' 18"	14.7	Galaxy	0.007x0.001	Ursa Major	
NGC 2686A	08h 56m 14.2s	+49° 04' 23"	14.8	Galaxy	0.004x0.002	Ursa Major	2686A
IC 2762	09h 11m 09.3s	+50° 20' 39"	15.0	Galaxy	0.002x0.001	Ursa Major	
IC 2473	07h 57m 02.4s	+56° 41' 16"	15.1	Galaxy	0.004x0.002	Lynx	
IC 2472	08h 00m 08.8s	+56° 39' 04"	15.3	Galaxy	0.004x0.004	Lynx	
IC 2457	07h 56m 11.7s	+55° 29' 56"	15.4	Galaxy	0.004x0.001	Lynx	
NGC 2603	08h 35m 51.3s	+52° 46' 39"	15.5	Galaxy	0.002x0.002	Ursa Major	
NGC 2605	08h 36m 13.3s	+52° 44' 30"	15.5	Galaxy	0.003x0.002	Ursa Major	
NGC 2687B	08h 56m 21.2s	+49° 05' 12"	15.7	Galaxy	0.002x0.001	Ursa Major	2687B
NGC 2688	08h 56m 26.7s	+49° 03' 11"	15.8	Galaxy	0.002x0.001	Ursa Major	

7.27 Main objects visible on chart 26

Table 33: Main objects visible on chart 26

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2841	09h 23m 16.4s	+50° 53' 56"	9.2	Galaxy	0.067x0.029	Ursa Major	
NGC 3587	11h 15m 49.7s	+54° 55' 16"	9.9	Planetary Nebula	0.023x0.023	Ursa Major	M97, Owl nebula
NGC 3556	11h 12m 32.1s	+55° 34' 29"	10.0	Galaxy	0.071x0.02	Ursa Major	M108
NGC 3631	11h 22m 03.4s	+53° 04' 15"	10.4	Galaxy	0.041x0.030	Ursa Major	
NGC 3310	10h 39m 52.1s	+53° 24' 33"	10.8	Galaxy	0.025x0.02	Ursa Major	
NGC 3610	11h 19m 27.3s	+58° 41' 17"	10.8	Galaxy	0.022x0.019	Ursa Major	
NGC 2950	09h 43m 52.5s	+58° 46' 07"	10.9	Galaxy	0.022x0.015	Ursa Major	
NGC 3079	10h 03m 10.3s	+55° 35' 39"	10.9	Galaxy	0.067x0.010	Ursa Major	
NGC 3613	11h 19m 38.1s	+57° 54' 07"	10.9	Galaxy	0.032x0.015	Ursa Major	
NGC 3690B	11h 29m 33.2s	+58° 27' 55"	10.9	Galaxy	0.016x0.011	Ursa Major	3690B
NGC 3583	11h 15m 11.6s	+48° 13' 12"	11.1	Galaxy	0.023x0.015	Ursa Major	
NGC 3642	11h 23m 19.3s	+58° 58' 34"	11.2	Galaxy	0.045x0.039	Ursa Major	
NGC 3690A	11h 29m 30.9s	+58° 27' 43"	11.2	Galaxy	0.013x0.011	Ursa Major	3690A
NGC 3619	11h 20m 23.5s	+57° 39' 35"	11.5	Galaxy	0.022x0.019	Ursa Major	
NGC 3448	10h 55m 43.5s	+54° 12' 33"	11.6	Galaxy	0.046x0.014	Ursa Major	
NGC 3206	10h 22m 58.2s	+56° 50' 22"	11.9	Galaxy	0.024x0.015	Ursa Major	
NGC 3264	10h 33m 28.5s	+55° 59' 27"	12.0	Galaxy	0.024x0.01	Ursa Major	
NGC 3182	10h 20m 44.7s	+58° 06' 55"	12.1	Galaxy	0.015x0.012	Ursa Major	
NGC 3549	11h 11m 58.9s	+53° 17' 24"	12.1	Galaxy	0.025x0.008	Ursa Major	
NGC 2857	09h 25m 50.5s	+49° 16' 44"	12.3	Galaxy	0.018x0.016	Ursa Major	
NGC 3320	10h 40m 40.8s	+47° 18' 11"	12.3	Galaxy	0.018x0.008	Ursa Major	
NGC 3458	10h 57m 06.9s	+57° 01' 15"	12.3	Galaxy	0.011x0.006	Ursa Major	
NGC 3674	11h 27m 27.0s	+56° 56' 58"	12.3	Galaxy	0.014x0.005	Ursa Major	
NGC 3669	11h 26m 27.5s	+57° 37' 20"	12.4	Galaxy	0.016x0.004	Ursa Major	
NGC 3683	11h 28m 32.2s	+56° 46' 43"	12.5	Galaxy	0.015x0.005	Ursa Major	NGC 3683A
NGC 3043	09h 57m 30.5s	+59° 13' 16"	12.6	Galaxy	0.014x0.005	Ursa Major	
NGC 3225	10h 26m 20.7s	+58° 03' 28"	12.6	Galaxy	0.016x0.008	Ursa Major	
NGC 3445	10h 55m 41.5s	+56° 53' 38"	12.6	Galaxy	0.013x0.011	Ursa Major	
NGC 3406-1	10h 52m 47.7s	+50° 55' 37"	12.7	Galaxy	0.007x0.005	Ursa Major	3406-1
NGC 2800	09h 19m 50.7s	+52° 26' 17"	12.8	Galaxy	0.011x0.007	Ursa Major	
NGC 3353	10h 46m 28.8s	+55° 51' 53"	12.8	Galaxy	0.011x0.008	Ursa Major	
NGC 3238	10h 27m 52.9s	+57° 08' 02"	12.9	Galaxy	0.011x0.010	Ursa Major	
NGC 3406-2	10h 52m 48.6s	+50° 55' 48"	12.9	Galaxy	0.004x0.002	Ursa Major	3406-2
NGC 3488	11h 02m 28.5s	+57° 34' 50"	12.9	Galaxy	0.015x0.01	Ursa Major	
NGC 2854	09h 25m 15.7s	+49° 07' 33"	13.0	Galaxy	0.013x0.005	Ursa Major	
NGC 2870	09h 29m 12.1s	+57° 17' 48"	13.0	Galaxy	0.020x0.005	Ursa Major	
NGC 3111	10h 07m 15.1s	+47° 10' 29"	13.0	Galaxy	0.007x0.006	Ursa Major	
NGC 3517-1	11h 06m 40.7s	+56° 25' 40"	13.0	Galaxy	0.008x0.006	Ursa Major	3517-1
NGC 3220	10h 24m 55.1s	+56° 56' 06"	13.1	Galaxy	0.010x0.004	Ursa Major	
NGC 3625	11h 21m 33.0s	+57° 40' 56"	13.1	Galaxy	0.016x0.005	Ursa Major	
NGC 2856	09h 25m 29.0s	+49° 10' 16"	13.2	Galaxy	0.009x0.004	Ursa Major	
NGC 3440	10h 54m 55.3s	+57° 01' 22"	13.2	Galaxy	0.017x0.004	Ursa Major	
NGC 3470	10h 59m 50.8s	+59° 24' 50"	13.2	Galaxy	0.0125x0.01	Ursa Major	
NGC 3102	10h 05m 47.1s	+60° 01' 12"	13.3	Galaxy	0.007x0.007	Ursa Major	

Table 33: Main objects visible on chart 26 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3073	10h 02m 04.9s	+55° 31' 52"	13.4	Galaxy	0.01x0.009	Ursa Major	
NGC 3168	10h 17m 36.6s	+60° 08' 41"	13.4	Galaxy	0.008x0.007	Ursa Major	
NGC 3577	11h 14m 45.5s	+48° 10' 30"	13.4	Galaxy	0.011x0.009	Ursa Major	
NGC 3408	10h 53m 18.2s	+58° 20' 34"	13.5	Galaxy	0.006x0.005	Ursa Major	
NGC 3284	10h 37m 30.6s	+58° 31' 36"	13.6	Galaxy	0.007x0.005	Ursa Major	
NGC 3398	10h 52m 36.7s	+55° 17' 43"	13.6	Galaxy	0.008x0.002	Ursa Major	
IC 3499	11h 04m 15.0s	+56° 07' 30"	13.6	Galaxy	0.007x0.005	Ursa Major	
NGC 3164	10h 16m 22.9s	+56° 34' 56"	13.7	Galaxy	0.007x0.005	Ursa Major	
NGC 3188	10h 20m 54.1s	+57° 19' 56"	13.7	Galaxy	0.006x0.005	Ursa Major	
NGC 3594	11h 17m 15.9s	+55° 36' 23"	13.7	Galaxy	0.010x0.01	Ursa Major	
NGC 2895	09h 33m 42.7s	+57° 24' 10"	13.8	Galaxy	0.006x0.005	Ursa Major	
NGC 3530	11h 09m 43.8s	+57° 07' 57"	13.8	Galaxy	0.005x0.002	Ursa Major	
NGC 3214	10h 24m 19.2s	+56° 56' 51"	13.9	Galaxy	0.005x0.002	Ursa Major	
NGC 3298	10h 38m 17.6s	+50° 01' 35"	13.9	Galaxy	0.007x0.005	Ursa Major	
IC 691	11h 27m 45.1s	+59° 03' 23"	13.9	Galaxy	0.005x0.003	Ursa Major	
NGC 3288	10h 37m 34.8s	+58° 27' 45"	14.0	Galaxy	0.007x0.005	Ursa Major	
NGC 3410	10h 52m 57.6s	+50° 54' 38"	14.2	Galaxy	0.006x0.004	Ursa Major	
IC 646	10h 52m 40.6s	+55° 22' 14"	14.6	Galaxy	0.007x0.003	Ursa Major	
IC 694	11h 29m 27.9s	+58° 28' 46"	15.0	Galaxy	0.002x0.002	Ursa Major	
NGC 3517-2	11h 06m 40.9s	+56° 26' 13"	15.7	Galaxy	0.004x0.001	Ursa Major	3517-2

7.28 Main objects visible on chart 27

Table 34: Main objects visible on chart 27

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4258	12h 19m 51.0s	+47° 12' 26"	8.4	Galaxy	0.155x0.06	Canes Venatici	M106
NGC 3992	11h 58m 31.0s	+53° 16' 24"	9.8	Galaxy	0.062x0.036	Ursa Major	M109
NGC 3587	11h 15m 49.7s	+54° 55' 16"	9.9	Planetary Nebula	0.023x0.023	Ursa Major	M97, Owl nebula
NGC 3556	11h 12m 32.1s	+55° 34' 29"	10.0	Galaxy	0.071x0.02	Ursa Major	M108
NGC 3953	11h 54m 44.5s	+52° 13' 29"	10.1	Galaxy	0.0575x0.03	Ursa Major	
NGC 3631	11h 22m 03.4s	+53° 04' 15"	10.4	Galaxy	0.041x0.030	Ursa Major	
NGC 3893	11h 49m 34.9s	+48° 36' 41"	10.5	Galaxy	0.037x0.023	Ursa Major	
NGC 4088	12h 06m 29.2s	+50° 26' 25"	10.6	Galaxy	0.046x0.017	Ursa Major	
NGC 3898	11h 50m 12.2s	+55° 59' 05"	10.7	Galaxy	0.036x0.021	Ursa Major	
NGC 3998	11h 58m 51.5s	+55° 21' 13"	10.7	Galaxy	0.022x0.019	Ursa Major	
NGC 3610	11h 19m 27.3s	+58° 41' 17"	10.8	Galaxy	0.022x0.019	Ursa Major	
NGC 3718	11h 33m 33.8s	+52° 58' 04"	10.8	Galaxy	0.067x0.033	Ursa Major	
NGC 4026	12h 00m 20.4s	+50° 51' 42"	10.8	Galaxy	0.043x0.010	Ursa Major	
NGC 3613	11h 19m 38.1s	+57° 54' 07"	10.9	Galaxy	0.032x0.015	Ursa Major	
NGC 3690B	11h 29m 33.2s	+58° 27' 55"	10.9	Galaxy	0.016x0.011	Ursa Major	3690B
NGC 3945	11h 54m 09.9s	+60° 34' 30"	10.9	Galaxy	0.043x0.029	Ursa Major	
NGC 4096	12h 06m 55.5s	+47° 22' 32"	10.9	Galaxy	0.054x0.015	Ursa Major	
NGC 3877	11h 47m 04.2s	+47° 23' 40"	11.0	Galaxy	0.044x0.01	Ursa Major	
NGC 3982	11h 57m 23.8s	+55° 01' 29"	11.0	Galaxy	0.019x0.016	Ursa Major	

Table 34: Main objects visible on chart 27 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3583	11h 15m 11.6s	+48° 13' 12"	11.1	Galaxy	0.023x0.015	Ursa Major	
NGC 3949	11h 54m 37.4s	+47° 45' 35"	11.1	Galaxy	0.024x0.014	Ursa Major	
NGC 3642	11h 23m 19.3s	+58° 58' 34"	11.2	Galaxy	0.045x0.039	Ursa Major	
NGC 3690A	11h 29m 30.9s	+58° 27' 43"	11.2	Galaxy	0.013x0.011	Ursa Major	3690A
NGC 4100	12h 07m 02.8s	+49° 28' 57"	11.2	Galaxy	0.045x0.014	Ursa Major	
NGC 4102	12h 07m 17.7s	+52° 36' 38"	11.2	Galaxy	0.025x0.014	Ursa Major	
NGC 3729	11h 34m 48.1s	+53° 01' 36"	11.4	Galaxy	0.024x0.015	Ursa Major	
NGC 4157	12h 11m 58.3s	+50° 23' 05"	11.4	Galaxy	0.055x0.01	Ursa Major	
NGC 4220	12h 17m 05.2s	+47° 46' 59"	11.4	Galaxy	0.032x0.012	Canes Venatici	
NGC 3619	11h 20m 23.5s	+57° 39' 35"	11.5	Galaxy	0.022x0.019	Ursa Major	
NGC 3756	11h 37m 46.5s	+54° 11' 40"	11.5	Galaxy	0.035x0.017	Ursa Major	
NGC 3780	11h 40m 20.4s	+56° 10' 15"	11.5	Galaxy	0.025x0.02	Ursa Major	
NGC 3448	10h 55m 43.5s	+54° 12' 33"	11.6	Galaxy	0.046x0.014	Ursa Major	
NGC 3894	11h 49m 47.4s	+59° 18' 59"	11.6	Galaxy	0.023x0.014	Ursa Major	
NGC 4800	12h 55m 27.1s	+46° 26' 03"	11.6	Galaxy	0.013x0.01	Canes Venatici	
NGC 3738	11h 36m 47.0s	+54° 25' 27"	11.7	Galaxy	0.020x0.015	Ursa Major	
NGC 3769	11h 38m 42.0s	+47° 47' 37"	11.7	Galaxy	0.024x0.008	Ursa Major	
NGC 3917	11h 51m 42.1s	+51° 43' 28"	11.8	Galaxy	0.041x0.009	Ursa Major	
NGC 3683A	11h 30m 11.9s	+57° 02' 01"	11.9	Galaxy	0.02x0.014	Ursa Major	3683A
NGC 3963	11h 55m 54.9s	+58° 23' 35"	11.9	Galaxy	0.0225x0.02	Ursa Major	
NGC 4290	12h 21m 39.3s	+57° 59' 34"	12.0	Galaxy	0.018x0.013	Ursa Major	
NGC 3549	11h 11m 58.9s	+53° 17' 24"	12.1	Galaxy	0.025x0.008	Ursa Major	
NGC 3595	11h 16m 25.7s	+47° 20' 55"	12.1	Galaxy	0.013x0.005	Ursa Major	
NGC 3888	11h 48m 32.1s	+55° 51' 58"	12.1	Galaxy	0.015x0.011	Ursa Major	
NGC 4047	12h 03m 45.6s	+48° 32' 11"	12.2	Galaxy	0.013x0.010	Ursa Major	
NGC 4814	12h 56m 07.8s	+58° 14' 50"	12.2	Galaxy	0.0275x0.02	Ursa Major	
NGC 3458	10h 57m 06.9s	+57° 01' 15"	12.3	Galaxy	0.011x0.006	Ursa Major	
NGC 3656	11h 24m 39.1s	+53° 44' 36"	12.3	Galaxy	0.013x0.013	Ursa Major	
NGC 3674	11h 27m 27.0s	+56° 56' 58"	12.3	Galaxy	0.014x0.005	Ursa Major	
NGC 3811	11h 42m 13.9s	+47° 35' 28"	12.3	Galaxy	0.018x0.014	Ursa Major	
NGC 3838	11h 45m 11.3s	+57° 50' 55"	12.3	Galaxy	0.011x0.005	Ursa Major	
NGC 3972	11h 56m 41.2s	+55° 13' 11"	12.3	Galaxy	0.030x0.008	Ursa Major	
NGC 3657	11h 24m 55.7s	+52° 49' 20"	12.4	Galaxy	0.009x0.005	Ursa Major	
NGC 3669	11h 26m 27.5s	+57° 37' 20"	12.4	Galaxy	0.016x0.004	Ursa Major	
NGC 3733	11h 36m 00.7s	+54° 45' 02"	12.4	Galaxy	0.040x0.018	Ursa Major	
NGC 3835	11h 45m 03.2s	+60° 01' 13"	12.4	Galaxy	0.015x0.005	Ursa Major	
NGC 3921	11h 52m 03.4s	+54° 58' 45"	12.4	Galaxy	0.017x0.010	Ursa Major	
NGC 4068	12h 04m 57.0s	+52° 29' 25"	12.4	Galaxy	0.020x0.013	Ursa Major	
NGC 4085	12h 06m 17.0s	+50° 15' 11"	12.4	Galaxy	0.023x0.006	Ursa Major	
NGC 4335	12h 23m 53.3s	+58° 20' 41"	12.4	Galaxy	0.015x0.012	Ursa Major	
NGC 4381	12h 24m 51.5s	+48° 40' 49"	12.4	Galaxy	0.030x0.010	Canes Venatici	
NGC 3683	11h 28m 32.2s	+56° 46' 43"	12.5	Galaxy	0.015x0.005	Ursa Major	NGC 3683A
NGC 3985	11h 57m 37.2s	+48° 14' 07"	12.5	Galaxy	0.010x0.006	Ursa Major	
NGC 4194	12h 15m 02.9s	+54° 25' 35"	12.5	Galaxy	0.022x0.013	Ursa Major	
NGC 4218	12h 16m 39.5s	+48° 01' 54"	12.5	Galaxy	0.01x0.005	Canes Venatici	
NGC 4248	12h 18m 43.7s	+47° 18' 33"	12.5	Galaxy	0.024x0.01	Canes Venatici	

Table 34: Main objects visible on chart 27 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4500	12h 32m 12.0s	+57° 51' 57"	12.5	Galaxy	0.013x0.009	Ursa Major	
NGC 3445	10h 55m 41.5s	+56° 53' 38"	12.6	Galaxy	0.013x0.011	Ursa Major	
NGC 3677	11h 27m 16.7s	+46° 52' 31"	12.6	Galaxy	0.015x0.012	Ursa Major	
NGC 3757	11h 38m 02.1s	+58° 18' 59"	12.6	Galaxy	0.009x0.009	Ursa Major	
NGC 3796	11h 41m 29.8s	+60° 11' 56"	12.6	Galaxy	0.010x0.007	Ursa Major	
NGC 3913	11h 51m 35.1s	+55° 15' 14"	12.6	Galaxy	0.021x0.021	Ursa Major	
NGC 3928	11h 52m 43.9s	+48° 34' 58"	12.6	Galaxy	0.012x0.012	Ursa Major	Miniature spiral
NGC 3990	11h 58m 31.1s	+55° 21' 30"	12.6	Galaxy	0.011x0.006	Ursa Major	
NGC 4010	11h 59m 32.6s	+47° 09' 36"	12.6	Galaxy	0.035x0.007	Ursa Major	
NGC 4271	12h 20m 24.9s	+56° 38' 15"	12.6	Galaxy	0.012x0.010	Ursa Major	
NGC 4686	12h 47m 28.2s	+54° 26' 11"	12.6	Galaxy	0.016x0.005	Ursa Major	
NGC 3809	11h 42m 14.5s	+59° 47' 10"	12.7	Galaxy	0.008x0.006	Ursa Major	
NGC 3978	11h 57m 06.6s	+60° 25' 21"	12.7	Galaxy	0.014x0.012	Ursa Major	
NGC 3737	11h 36m 35.1s	+54° 50' 57"	12.8	Galaxy	0.006x0.005	Ursa Major	
NGC 3770	11h 38m 57.9s	+59° 31' 03"	12.8	Galaxy	0.008x0.005	Ursa Major	
NGC 3922	11h 52m 09.8s	+50° 03' 23"	12.8	Galaxy	0.014x0.006	Ursa Major	
NGC 3488	11h 02m 28.5s	+57° 34' 50"	12.9	Galaxy	0.015x0.01	Ursa Major	
NGC 3794	11h 41m 52.3s	+56° 06' 06"	12.9	Galaxy	0.018x0.012	Ursa Major	
IC 3896	11h 49m 52.9s	+48° 34' 29"	12.9	Galaxy	0.012x0.008	Ursa Major	
NGC 3906	11h 50m 36.7s	+48° 19' 32"	12.9	Galaxy	0.015x0.014	Ursa Major	
NGC 4707	12h 49m 12.3s	+51° 03' 55"	12.9	Galaxy	0.018x0.017	Canes Venatici	
NGC 3517-1	11h 06m 40.7s	+56° 25' 40"	13.0	Galaxy	0.008x0.006	Ursa Major	3517-1
NGC 3870	11h 46m 53.7s	+50° 06' 02"	13.0	Galaxy	0.008x0.006	Ursa Major	
NGC 3958	11h 55m 29.7s	+58° 15' 59"	13.0	Galaxy	0.010x0.004	Ursa Major	
NGC 4161	12h 12m 26.3s	+57° 38' 15"	13.0	Galaxy	0.009x0.005	Ursa Major	
NGC 4384	12h 26m 03.5s	+54° 24' 23"	13.0	Galaxy	0.010x0.008	Ursa Major	
IC 708	11h 34m 57.5s	+48° 57' 45"	13.0	Galaxy	0.011x0.007	Ursa Major	Papillon
NGC 3625	11h 21m 33.0s	+57° 40' 56"	13.1	Galaxy	0.016x0.005	Ursa Major	
NGC 3835A	11h 48m 20.4s	+60° 12' 02"	13.1	Galaxy	0.008x0.008	Ursa Major	3835A
NGC 3895	11h 50m 01.0s	+59° 19' 59"	13.1	Galaxy	0.009x0.006	Ursa Major	
NGC 4566	12h 36m 50.3s	+54° 07' 18"	13.1	Galaxy	0.010x0.007	Ursa Major	
NGC 3440	10h 54m 55.3s	+57° 01' 22"	13.2	Galaxy	0.017x0.004	Ursa Major	
NGC 3470	10h 59m 50.8s	+59° 24' 50"	13.2	Galaxy	0.0125x0.01	Ursa Major	
NGC 3795	11h 41m 05.4s	+58° 30' 46"	13.2	Galaxy	0.017x0.004	Ursa Major	
NGC 3795B	11h 39m 07.6s	+58° 39' 30"	13.2	Galaxy	0.007x0.007	Ursa Major	3795B
NGC 4149	12h 11m 26.3s	+58° 12' 14"	13.2	Galaxy	0.010x0.002	Ursa Major	
NGC 4187	12h 14m 22.9s	+50° 38' 30"	13.2	Galaxy	0.010x0.008	Canes Venatici	
NGC 4358	12h 24m 53.3s	+58° 17' 08"	13.2	Galaxy	0.008x0.006	Ursa Major	
NGC 4617	12h 41m 55.8s	+50° 17' 44"	13.2	Galaxy	0.024x0.004	Canes Venatici	
NGC 4669	12h 45m 35.4s	+54° 46' 40"	13.2	Galaxy	0.015x0.005	Ursa Major	
NGC 3759	11h 37m 52.5s	+54° 43' 24"	13.3	Galaxy	0.009x0.009	Ursa Major	
NGC 3846A	11h 45m 12.4s	+54° 56' 06"	13.3	Galaxy	0.015x0.012	Ursa Major	3846A
NGC 3850	11h 46m 33.0s	+55° 47' 12"	13.3	Galaxy	0.017x0.008	Ursa Major	
NGC 4142	12h 10m 24.2s	+53° 00' 14"	13.3	Galaxy	0.018x0.01	Ursa Major	
NGC 4172	12h 13m 08.1s	+56° 04' 35"	13.3	Galaxy	0.010x0.009	Ursa Major	
NGC 4964	13h 06m 10.0s	+56° 13' 37"	13.3	Galaxy	0.009x0.005	Ursa Major	

Table 34: Main objects visible on chart 27 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3577	11h 14m 45.5s	+48° 10' 30"	13.4	Galaxy	0.011x0.009	Ursa Major	
NGC 3846	11h 45m 26.6s	+55° 33' 08"	13.4	Galaxy	0.008x0.005	Ursa Major	NGC 3846A
NGC 3931	11h 52m 09.9s	+51° 54' 04"	13.4	Galaxy	0.009x0.007	Ursa Major	
NGC 3977	11h 57m 03.2s	+55° 17' 26"	13.4	Galaxy	0.012x0.011	Ursa Major	
IC 4646	12h 43m 41.0s	+54° 45' 30"	13.4	Galaxy	0.008x0.006	Ursa Major	
NGC 4837-1	12h 57m 36.5s	+48° 11' 56"	13.4	Galaxy	0.009x0.004	Canes Venatici	4837-1
NGC 3408	10h 53m 18.2s	+58° 20' 34"	13.5	Galaxy	0.006x0.005	Ursa Major	
NGC 3795A	11h 40m 20.1s	+58° 10' 08"	13.5	Galaxy	0.02x0.018	Ursa Major	3795A
NGC 4284	12h 21m 04.7s	+57° 59' 37"	13.5	Galaxy	0.020x0.01	Ursa Major	
NGC 4695	12h 48m 20.4s	+54° 16' 35"	13.5	Galaxy	0.009x0.005	Ursa Major	
NGC 3398	10h 52m 36.7s	+55° 17' 43"	13.6	Galaxy	0.008x0.002	Ursa Major	
IC 3499	11h 04m 15.0s	+56° 07' 30"	13.6	Galaxy	0.007x0.005	Ursa Major	
NGC 3759A	11h 37m 56.7s	+55° 03' 45"	13.6	Galaxy	0.01x0.009	Ursa Major	3759A
NGC 3824	11h 43m 42.5s	+52° 40' 48"	13.6	Galaxy	0.010x0.005	Ursa Major	
NGC 4198	12h 15m 14.9s	+55° 54' 42"	13.6	Galaxy	0.008x0.005	Ursa Major	
IC 4231	12h 17m 42.3s	+47° 21' 29"	13.6	Galaxy	0.01x0.009	Canes Venatici	
NGC 4232	12h 17m 42.4s	+47° 20' 20"	13.6	Galaxy	0.010x0.005	Canes Venatici	
IC 830	12h 52m 04.4s	+53° 35' 53"	13.6	Galaxy	0.006x0.003	Ursa Major	
NGC 3594	11h 17m 15.9s	+55° 36' 23"	13.7	Galaxy	0.010x0.01	Ursa Major	
NGC 4141	12h 10m 41.0s	+58° 44' 58"	13.7	Galaxy	0.010x0.007	Ursa Major	
IC 4741	12h 51m 48.9s	+47° 34' 26"	13.7	Galaxy	0.011x0.005	Canes Venatici	
IC 801	12h 34m 35.5s	+52° 09' 20"	13.7	Galaxy	0.01x0.008	Canes Venatici	
NGC 3530	11h 09m 43.8s	+57° 07' 57"	13.8	Galaxy	0.005x0.002	Ursa Major	
NGC 4837-2	12h 57m 38.5s	+48° 12' 10"	13.8	Galaxy	0.008x0.003	Canes Venatici	4837-2
NGC 4977	13h 06m 49.7s	+55° 33' 38"	13.8	Galaxy	0.016x0.016	Ursa Major	
IC 712	11h 35m 47.4s	+48° 58' 41"	13.8	Galaxy	0.009x0.005	Ursa Major	
NGC 3916	11h 51m 47.9s	+55° 02' 36"	13.9	Galaxy	0.012x0.003	Ursa Major	
NGC 4542	12h 35m 39.9s	+50° 42' 23"	13.9	Galaxy	0.008x0.004	Canes Venatici	
NGC 4644	12h 43m 31.5s	+55° 02' 49"	13.9	Galaxy	0.013x0.004	Ursa Major	
IC 4732	12h 50m 55.4s	+52° 45' 08"	13.9	Galaxy	0.01x0.005	Ursa Major	
IC 691	11h 27m 45.1s	+59° 03' 23"	13.9	Galaxy	0.005x0.003	Ursa Major	
IC 709	11h 35m 12.9s	+48° 56' 38"	13.9	Galaxy	0.005x0.005	Ursa Major	
NGC 3740	11h 37m 11.7s	+59° 52' 37"	14.0	Galaxy	0.007x0.003	Ursa Major	
IC 3829	11h 44m 24.9s	+52° 36' 41"	14.0	Galaxy	0.008x0.005	Ursa Major	
NGC 4181	12h 13m 42.4s	+52° 48' 14"	14.0	Galaxy	0.006x0.005	Ursa Major	
NGC 4511	12h 32m 58.1s	+56° 22' 19"	14.1	Galaxy	0.009x0.004	Ursa Major	
IC 711	11h 35m 44.8s	+48° 51' 23"	14.1	Galaxy	0.004x0.004	Ursa Major	
NGC 3769A	11h 38m 48.4s	+47° 46' 55"	14.2	Galaxy	0.007x0.002	Ursa Major	3769A
NGC 4195	12h 15m 10.8s	+59° 30' 56"	14.2	Galaxy	0.013x0.011	Ursa Major	
IC 4801	12h 55m 25.4s	+52° 59' 36"	14.2	Galaxy	0.007x0.005	Ursa Major	
NGC 4199-1	12h 15m 41.2s	+59° 48' 23"	14.3	Galaxy	0.004x0.004	Ursa Major	4199-1
NGC 4675	12h 46m 20.3s	+54° 38' 20"	14.3	Galaxy	0.013x0.005	Ursa Major	
IC 2943	11h 37m 40.9s	+54° 44' 46"	14.3	Galaxy	0.003x0.003	Ursa Major	
IC 687	11h 25m 16.7s	+47° 44' 56"	14.3	Galaxy	0.006x0.006	Ursa Major	
NGC 4054-1	12h 04m 07.0s	+57° 47' 35"	14.4	Galaxy	0.004x0.002	Ursa Major	4054-1
IC 4362	12h 25m 02.5s	+58° 15' 40"	14.4	Galaxy	0.009x0.003	Ursa Major	

Table 34: Main objects visible on chart 27 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4547	12h 35m 41.0s	+58° 49' 06"	14.5	Galaxy	0.004x0.003	Ursa Major	
IC 705	11h 33m 55.0s	+50° 08' 34"	14.5	Galaxy	0.006x0.003	Ursa Major	
IC 4652	12h 44m 07.5s	+58° 52' 01"	14.6	Galaxy	0.008x0.001	Ursa Major	
IC 646	10h 52m 40.6s	+55° 22' 14"	14.6	Galaxy	0.007x0.003	Ursa Major	
IC 3671	11h 26m 54.0s	+60° 22' 51"	14.8	Galaxy	0.004x0.003	Ursa Major	
NGC 3737A	11h 36m 30.1s	+54° 49' 53"	14.8	Galaxy	0.005x0.004	Ursa Major	3737A
NGC 3889	11h 48m 45.3s	+55° 55' 07"	14.8	Galaxy	0.005x0.003	Ursa Major	
IC 4834	12h 57m 12.8s	+52° 11' 55"	14.8	Galaxy	0.007x0.002	Canes Venatici	
NGC 4054-2	12h 04m 08.4s	+57° 47' 28"	15.0	Galaxy	0.006x0.005	Ursa Major	4054-2
NGC 4199-2	12h 15m 44.3s	+59° 48' 30"	15.0	Galaxy	0.002x0.002	Ursa Major	4199-2
IC 694	11h 29m 27.9s	+58° 28' 46"	15.0	Galaxy	0.002x0.002	Ursa Major	
NGC 4644B	12h 43m 41.7s	+55° 02' 50"	15.1	Galaxy	0.007x0.001	Ursa Major	4644B
IC 731	11h 46m 15.2s	+49° 28' 13"	15.1	Galaxy	0.004x0.002	Ursa Major	
NGC 4187B	12h 14m 22.4s	+50° 39' 25"	15.2	Galaxy	0.002x0.002	Canes Venatici	4187B
IC 4549	12h 36m 10.5s	+58° 51' 02"	15.2	Galaxy	0.003x0.001	Ursa Major	
IC 3975	11h 56m 49.7s	+60° 25' 46"	15.3	Galaxy	0.005x0.002	Ursa Major	
IC 4001	11h 59m 02.2s	+47° 14' 06"	15.3	Galaxy	0.005x0.002	Ursa Major	
MCG 9-20-118	12h 14m 20.5s	+50° 36' 37"	15.6	Galaxy	0.004x0.003	Canes Venatici	4187C
NGC 3517-2	11h 06m 40.9s	+56° 26' 13"	15.7	Galaxy	0.004x0.001	Ursa Major	3517-2
NGC 3950	11h 54m 37.1s	+47° 47' 05"	15.7	Galaxy	0.002x0.002	Ursa Major	

7.29 Main objects visible on chart 28

Table 35: Main objects visible on chart 28

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5457	14h 03m 50.6s	+54° 15' 48"	7.9	Galaxy	0.24x0.224	Ursa Major	M101, Pinwheel galaxy
NGC 5194	13h 30m 38.0s	+47° 06' 11"	8.4	Galaxy	0.093x0.057	Canes Venatici	M51, Whirlpool galaxy
NGC 5195	13h 30m 44.6s	+47° 10' 30"	9.6	Galaxy	0.049x0.038	Canes Venatici	
NGC 5322	13h 49m 51.0s	+60° 06' 05"	10.2	Galaxy	0.05x0.034	Ursa Major	
NGC 5585	14h 20m 22.1s	+56° 38' 49"	10.7	Galaxy	0.048x0.03	Ursa Major	
NGC 5474	14h 05m 39.8s	+53° 34' 38"	10.8	Galaxy	0.039x0.039	Ursa Major	
NGC 5448	14h 03m 31.5s	+49° 05' 11"	11.0	Galaxy	0.031x0.016	Ursa Major	
NGC 5676	14h 33m 24.4s	+49° 22' 42"	11.2	Galaxy	0.032x0.015	Bootes	
NGC 5204	13h 30m 16.5s	+58° 19' 33"	11.3	Galaxy	0.041x0.025	Ursa Major	
NGC 5377	13h 56m 59.4s	+47° 08' 53"	11.3	Galaxy	0.039x0.02	Canes Venatici	
NGC 5678	14h 32m 37.2s	+57° 50' 39"	11.3	Galaxy	0.027x0.011	Draco	
NGC 5485	14h 07m 48.6s	+54° 54' 59"	11.4	Galaxy	0.019x0.015	Ursa Major	
NGC 5473	14h 05m 21.1s	+54° 48' 28"	11.5	Galaxy	0.018x0.014	Ursa Major	
NGC 5631	14h 27m 06.9s	+56° 30' 10"	11.5	Galaxy	0.014x0.014	Ursa Major	
NGC 5687	14h 35m 26.5s	+54° 23' 55"	11.8	Galaxy	0.020x0.015	Bootes	
NGC 5422	14h 01m 19.8s	+55° 04' 41"	11.9	Galaxy	0.032x0.005	Ursa Major	
NGC 5660	14h 30m 26.8s	+49° 32' 35"	11.9	Galaxy	0.022x0.021	Bootes	
NGC 5689	14h 36m 07.7s	+48° 39' 49"	11.9	Galaxy	0.027x0.008	Bootes	
NGC 5389	13h 56m 41.7s	+59° 39' 15"	12.0	Galaxy	0.034x0.009	Ursa Major	

Table 35: Main objects visible on chart 28 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5430	14h 01m 20.5s	+59° 14' 32"	12.0	Galaxy	0.019x0.010	Ursa Major	
NGC 5376	13h 55m 51.5s	+59° 25' 09"	12.1	Galaxy	0.017x0.010	Ursa Major	
NGC 5480	14h 07m 01.4s	+50° 38' 23"	12.1	Galaxy	0.013x0.008	Ursa Major	
NGC 5673	14h 32m 08.4s	+49° 52' 47"	12.1	Galaxy	0.02x0.005	Bootes	
NGC 4814	12h 56m 07.8s	+58° 14' 50"	12.2	Galaxy	0.0275x0.02	Ursa Major	
NGC 5443	14h 02m 48.9s	+55° 43' 42"	12.3	Galaxy	0.022x0.008	Ursa Major	
NGC 5481	14h 07m 21.0s	+50° 38' 18"	12.3	Galaxy	0.015x0.012	Bootes	
NGC 5520	14h 13m 02.2s	+50° 15' 53"	12.4	Galaxy	0.016x0.009	Bootes	
IC 1029	14h 33m 04.9s	+49° 49' 32"	12.4	Galaxy	0.021x0.004	Bootes	
NGC 4500	12h 32m 12.0s	+57° 51' 57"	12.5	Galaxy	0.013x0.009	Ursa Major	
NGC 5667	14h 30m 53.2s	+59° 23' 27"	12.5	Galaxy	0.014x0.009	Draco	
NGC 5707-1	14h 38m 06.9s	+51° 29' 05"	12.5	Galaxy	0.020x0.004	Bootes	5707-1
NGC 4686	12h 47m 28.2s	+54° 26' 11"	12.6	Galaxy	0.016x0.005	Ursa Major	
NGC 5475	14h 05m 49.2s	+55° 39' 24"	12.6	Galaxy	0.015x0.004	Ursa Major	
NGC 5602	14h 22m 56.8s	+50° 25' 17"	12.7	Galaxy	0.012x0.006	Bootes	
IC 875	13h 17m 50.3s	+57° 26' 44"	12.8	Galaxy	0.011x0.006	Ursa Major	
NGC 4707	12h 49m 12.3s	+51° 03' 55"	12.9	Galaxy	0.018x0.017	Canes Venatici	
NGC 5113	13h 21m 34.8s	+57° 32' 54"	12.9	Galaxy	0.014x0.004	Ursa Major	
NGC 5278	13h 42m 20.1s	+55° 34' 48"	12.9	Galaxy	0.010x0.008	Ursa Major	
NGC 5379	13h 56m 09.8s	+59° 39' 20"	12.9	Galaxy	0.018x0.005	Ursa Major	
IC 5250A	13h 36m 50.2s	+51° 08' 42"	13.0	Galaxy	0.008x0.007	Ursa Major	IC 5250A
NGC 5368	13h 55m 08.4s	+54° 14' 35"	13.0	Galaxy	0.007x0.006	Ursa Major	
NGC 5455	14h 03m 39.3s	+54° 09' 17"	13.0	Galpart	0.003x0.003	Ursa Major	
NGC 4566	12h 36m 50.3s	+54° 07' 18"	13.1	Galaxy	0.010x0.007	Ursa Major	
IC 5029	13h 13m 24.7s	+46° 58' 05"	13.1	Galaxy	0.014x0.009	Canes Venatici	
NGC 4617	12h 41m 55.8s	+50° 17' 44"	13.2	Galaxy	0.024x0.004	Canes Venatici	
NGC 4669	12h 45m 35.4s	+54° 46' 40"	13.2	Galaxy	0.015x0.005	Ursa Major	
NGC 4974	13h 06m 41.9s	+53° 33' 47"	13.2	Galaxy	0.011x0.01	Ursa Major	
IC 5201	13h 29m 59.4s	+52° 59' 20"	13.2	Galaxy	0.014x0.009	Ursa Major	
NGC 5256	13h 39m 01.5s	+48° 11' 11"	13.2	Galaxy	0.01x0.009	Ursa Major	
NGC 5370	13h 54m 44.0s	+60° 35' 26"	13.2	Galaxy	0.009x0.009	Ursa Major	
NGC 5486	14h 08m 02.0s	+55° 01' 05"	13.2	Galaxy	0.012x0.007	Ursa Major	
NGC 5622	14h 26m 51.1s	+48° 29' 02"	13.2	Galaxy	0.014x0.008	Bootes	
NGC 5624	14h 27m 12.6s	+51° 30' 16"	13.2	Galaxy	0.009x0.006	Bootes	
NGC 5751	14h 44m 23.2s	+53° 19' 30"	13.2	Galaxy	0.012x0.006	Bootes	
NGC 4964	13h 06m 10.0s	+56° 13' 37"	13.3	Galaxy	0.009x0.005	Ursa Major	
NGC 5238-1	13h 35m 25.7s	+51° 31' 20"	13.3	Galaxy	0.0125x0.01	Canes Venatici	5238-1
NGC 5372	13h 55m 22.3s	+58° 34' 45"	13.3	Galaxy	0.005x0.003	Ursa Major	
NGC 5500	14h 10m 55.9s	+48° 27' 44"	13.3	Galaxy	0.008x0.007	Bootes	
NGC 5777	14h 51m 46.0s	+58° 54' 16"	13.3	Galaxy	0.025x0.003	Draco	
IC 4646	12h 43m 41.0s	+54° 45' 30"	13.4	Galaxy	0.008x0.006	Ursa Major	
NGC 4837-1	12h 57m 36.5s	+48° 11' 56"	13.4	Galaxy	0.009x0.004	Canes Venatici	4837-1
NGC 4987	13h 08m 45.3s	+51° 50' 01"	13.4	Galaxy	0.01x0.005	Canes Venatici	
NGC 5526-1	14h 14m 27.6s	+57° 41' 19"	13.4	Galaxy	0.019x0.002	Ursa Major	5526-1
NGC 5714	14h 38m 51.2s	+46° 33' 39"	13.4	Galaxy	0.026x0.003	Bootes	
NGC 5720	14h 39m 09.7s	+50° 44' 17"	13.4	Galaxy	0.017x0.011	Bootes	

Table 35: Main objects visible on chart 28 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4695	12h 48m 20.4s	+54° 16' 35"	13.5	Galaxy	0.009x0.005	Ursa Major	
NGC 5342	13h 52m 01.9s	+59° 46' 31"	13.5	Galaxy	0.009x0.003	Ursa Major	
NGC 5447	14h 03m 07.3s	+54° 11' 11"	13.5	Galpart	0.008x0.008	Ursa Major	
NGC 5462	14h 04m 31.1s	+54° 16' 53"	13.5	Galpart	0.008x0.008	Ursa Major	
NGC 5693	14h 36m 49.5s	+48° 30' 27"	13.5	Galaxy	0.015x0.012	Bootes	
NGC 4932	13h 03m 25.0s	+50° 20' 34"	13.6	Galaxy	0.012x0.010	Canes Venatici	
NGC 5163	13h 27m 37.7s	+52° 39' 40"	13.6	Galaxy	0.009x0.005	Ursa Major	
NGC 5225	13h 34m 03.4s	+51° 23' 56"	13.6	Galaxy	0.005x0.005	Canes Venatici	
NGC 5425	14h 01m 29.6s	+48° 21' 23"	13.6	Galaxy	0.015x0.004	Ursa Major	
IC 830	12h 52m 04.4s	+53° 35' 53"	13.6	Galaxy	0.006x0.003	Ursa Major	
IC 852	13h 08m 19.8s	+60° 03' 43"	13.6	Galaxy	0.009x0.007	Ursa Major	
IC 853	13h 09m 27.6s	+52° 40' 43"	13.6	Galaxy	0.013x0.010	Ursa Major	
IC 951	13h 52m 28.6s	+50° 53' 22"	13.6	Galaxy	0.01x0.01	Ursa Major	
IC 4741	12h 51m 48.9s	+47° 34' 26"	13.7	Galaxy	0.011x0.005	Canes Venatici	
NGC 5164	13h 27m 54.2s	+55° 23' 38"	13.7	Galaxy	0.008x0.007	Ursa Major	
NGC 5229	13h 34m 47.6s	+47° 49' 21"	13.7	Galaxy	0.027x0.004	Canes Venatici	
IC 902	13h 36m 44.9s	+49° 52' 09"	13.7	Galaxy	0.018x0.003	Ursa Major	
NGC 4837-2	12h 57m 38.5s	+48° 12' 10"	13.8	Galaxy	0.008x0.003	Canes Venatici	4837-2
NGC 4917	13h 01m 44.0s	+47° 07' 33"	13.8	Galaxy	0.012x0.008	Canes Venatici	
NGC 4977	13h 06m 49.7s	+55° 33' 38"	13.8	Galaxy	0.016x0.016	Ursa Major	
NGC 5001	13h 10m 18.6s	+53° 23' 55"	13.8	Galaxy	0.009x0.003	Ursa Major	
NGC 5402	13h 58m 51.4s	+59° 43' 38"	13.8	Galaxy	0.010x0.002	Ursa Major	
NGC 5453	14h 03m 34.9s	+54° 13' 21"	13.8	Galpart	0.004x0.004	Ursa Major	
NGC 4644	12h 43m 31.5s	+55° 02' 49"	13.9	Galaxy	0.013x0.004	Ursa Major	
IC 4732	12h 50m 55.4s	+52° 45' 08"	13.9	Galaxy	0.01x0.005	Ursa Major	
NGC 4973	13h 06m 18.2s	+53° 35' 22"	13.9	Galaxy	0.005x0.005	Ursa Major	
NGC 5540	14h 15m 26.4s	+59° 55' 39"	13.9	Galaxy	0.006x0.005	Ursa Major	
NGC 5449	14h 03m 06.5s	+54° 14' 43"	14.0	Galpart	0.008x0.008	Ursa Major	
NGC 5451	14h 03m 14.7s	+54° 16' 39"	14.0	Galpart	0.002x0.002	Ursa Major	
NGC 5458	14h 03m 50.6s	+54° 12' 46"	14.0	Galpart	0.005x0.005	Ursa Major	
NGC 5461	14h 04m 19.6s	+54° 13' 56"	14.0	Galpart	0.005x0.005	Ursa Major	
NGC 5477	14h 06m 10.8s	+54° 22' 31"	14.0	Galaxy	0.013x0.010	Ursa Major	
IC 995	14h 17m 05.1s	+57° 43' 38"	14.0	Galaxy	0.013x0.003	Ursa Major	
IC 996	14h 17m 55.7s	+57° 32' 50"	14.0	Galaxy	0.011x0.001	Ursa Major	
NGC 4511	12h 32m 58.1s	+56° 22' 19"	14.1	Galaxy	0.009x0.004	Ursa Major	
NGC 5682	14h 35m 23.4s	+48° 35' 32"	14.1	Galaxy	0.013x0.005	Bootes	
IC 942	13h 48m 19.9s	+56° 31' 58"	14.1	Galaxy	0.005x0.004	Ursa Major	
IC 4801	12h 55m 25.4s	+52° 59' 36"	14.2	Galaxy	0.007x0.005	Ursa Major	
IC 4967	13h 06m 22.5s	+53° 28' 06"	14.2	Galaxy	0.004x0.003	Ursa Major	
NGC 5040-1	13h 14m 18.5s	+51° 09' 49"	14.2	Galaxy	0.008x0.004	Canes Venatici	5040-1
IC 1033	14h 35m 20.5s	+47° 51' 35"	14.2	Galaxy	0.009x0.005	Bootes	
NGC 4675	12h 46m 20.3s	+54° 38' 20"	14.3	Galaxy	0.013x0.005	Ursa Major	
IC 4938	13h 03m 44.6s	+51° 13' 22"	14.3	Galaxy	0.006x0.005	Canes Venatici	
NGC 5238-2	13h 35m 26.7s	+51° 31' 04"	14.3	Galaxy	0.006x0.006	Canes Venatici	5238-2
IC 5279	13h 42m 23.9s	+55° 34' 58"	14.3	Galaxy	0.005x0.003	Ursa Major	
NGC 5294	13h 45m 58.1s	+55° 12' 02"	14.3	Galaxy	0.005x0.004	Ursa Major	

Table 35: Main objects visible on chart 28 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 907	13h 40m 05.5s	+50° 57' 38"	14.3	Galaxy	0.010x0.001	Ursa Major	
NGC 5526-2	14h 14m 23.9s	+57° 41' 10"	14.4	Galaxy	0.006x0.005	Ursa Major	5526-2
IC 4547	12h 35m 41.0s	+58° 49' 06"	14.5	Galaxy	0.004x0.003	Ursa Major	
IC 4901	13h 00m 44.9s	+47° 06' 34"	14.5	Galaxy	0.008x0.008	Canes Venatici	
IC 4998	13h 08m 57.0s	+50° 34' 07"	14.5	Galaxy	0.007x0.006	Canes Venatici	
IC 5009	13h 11m 33.8s	+49° 59' 51"	14.5	Galaxy	0.009x0.005	Canes Venatici	
NGC 5255	13h 37m 57.9s	+57° 01' 06"	14.5	Galaxy	0.006x0.001	Ursa Major	
NGC 5561	14h 17m 55.8s	+58° 40' 03"	14.5	Galaxy	0.004x0.004	Ursa Major	
NGC 5700	14h 37m 39.7s	+48° 28' 04"	14.5	Galaxy	0.008x0.003	Bootes	
IC 1027	14h 30m 23.6s	+53° 53' 10"	14.5	Galaxy	0.007x0.006	Bootes	
IC 4652	12h 44m 07.5s	+58° 52' 01"	14.6	Galaxy	0.008x0.001	Ursa Major	
NGC 5471	14h 05m 06.9s	+54° 18' 42"	14.7	Galpart	0.005x0.004	Ursa Major	
NGC 5484	14h 07m 25.4s	+54° 56' 42"	14.7	Galaxy	0.006x0.005	Ursa Major	
IC 1032	14h 35m 17.8s	+47° 53' 26"	14.7	Galaxy	0.003x0.002	Bootes	
IC 4834	12h 57m 12.8s	+52° 11' 55"	14.8	Galaxy	0.007x0.002	Canes Venatici	
NGC 5683	14h 35m 30.6s	+48° 35' 04"	14.8	Galaxy	0.003x0.002	Bootes	
IC 1031	14h 35m 02.6s	+47° 57' 35"	14.8	Galaxy	0.007x0.005	Bootes	
IC 919	13h 43m 36.6s	+55° 30' 47"	14.8	Galaxy	0.003x0.003	Ursa Major	
NGC 5040-2	13h 14m 16.6s	+51° 10' 42"	15.0	Galaxy	0.002x0.001	Canes Venatici	5040-2
IC 923	13h 43m 56.3s	+55° 31' 30"	15.0	Galaxy	0.004x0.001	Ursa Major	
IC 928	13h 44m 25.1s	+55° 32' 37"	15.0	Galaxy	0.002x0.002	Ursa Major	
NGC 4644B	12h 43m 41.7s	+55° 02' 50"	15.1	Galaxy	0.007x0.001	Ursa Major	4644B
IC 4549	12h 36m 10.5s	+58° 51' 02"	15.2	Galaxy	0.003x0.001	Ursa Major	
IC 922	13h 43m 54.4s	+55° 30' 45"	15.2	Galaxy	0.002x0.002	Ursa Major	
IC 938	13h 45m 11.2s	+55° 32' 13"	15.2	Galaxy	0.003x0.001	Ursa Major	
NGC 5502	14h 10m 06.6s	+60° 19' 32"	15.3	Galaxy	0.002x8.333	Ursa Major	
IC 929	13h 44m 25.7s	+55° 33' 22"	15.5	Galaxy	0.001x0.001	Ursa Major	
IC 932	13h 44m 31.4s	+55° 33' 23"	15.5	Galaxy	0.001x0.001	Ursa Major	
IC 934	13h 44m 43.1s	+55° 33' 35"	15.5	Galaxy	0.001x8.333	Ursa Major	
IC 937	13h 45m 08.9s	+55° 32' 22"	15.5	Galaxy	0.001x0.001	Ursa Major	
IC 4277	13h 31m 01.8s	+47° 13' 19"	15.7	Galaxy	0.007x8.333	Canes Venatici	
IC 921	13h 43m 48.1s	+55° 33' 37"	15.7	Galaxy	0.001x0.001	Ursa Major	
IC 930	13h 44m 32.4s	+55° 33' 58"	15.7	Galaxy	0.001x0.001	Ursa Major	
IC 931	13h 44m 29.3s	+55° 31' 60"	15.7	Galaxy	0.001x0.001	Ursa Major	
NGC 5707-2	14h 38m 11.2s	+51° 30' 23"	15.8	Galaxy	0.002x0.002	Bootes	5707-2
IC 926	13h 44m 19.4s	+55° 32' 28"	16.0	Galaxy	0.001x8.333	Ursa Major	

7.30 Main objects visible on chart 29

Table 36: Main objects visible on chart 29

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5866	15h 06m 59.1s	+55° 41' 42"	9.9	Galaxy	0.054x0.025	Draco	M102
NGC 5907	15h 16m 21.9s	+56° 15' 52"	10.3	Galaxy	0.105x0.011	Draco	
NGC 5585	14h 20m 22.1s	+56° 38' 49"	10.7	Galaxy	0.048x0.03	Ursa Major	

Table 36: Main objects visible on chart 29 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5982	15h 39m 02.3s	+59° 17' 54"	11.1	Galaxy	0.021x0.015	Draco	
NGC 5985	15h 39m 59.3s	+59° 16' 28"	11.1	Galaxy	0.045x0.025	Draco	
NGC 5676	14h 33m 24.4s	+49° 22' 42"	11.2	Galaxy	0.032x0.015	Bootes	
NGC 5678	14h 32m 37.2s	+57° 50' 39"	11.3	Galaxy	0.027x0.011	Draco	
NGC 5631	14h 27m 06.9s	+56° 30' 10"	11.5	Galaxy	0.014x0.014	Ursa Major	
NGC 5879	15h 10m 14.9s	+56° 55' 58"	11.6	Galaxy	0.035x0.010	Draco	
NGC 5905	15h 15m 52.3s	+55° 27' 07"	11.7	Galaxy	0.033x0.021	Draco	
NGC 5965-1	15h 34m 27.9s	+56° 37' 34"	11.7	Galaxy	0.043x0.005	Draco	5965-1
NGC 5987	15h 40m 20.6s	+58° 01' 20"	11.7	Galaxy	0.035x0.010	Draco	
NGC 5687	14h 35m 26.5s	+54° 23' 55"	11.8	Galaxy	0.020x0.015	Bootes	
NGC 5908	15h 17m 12.1s	+55° 20' 38"	11.8	Galaxy	0.027x0.011	Draco	
NGC 5660	14h 30m 26.8s	+49° 32' 35"	11.9	Galaxy	0.022x0.021	Bootes	
NGC 5689	14h 36m 07.7s	+48° 39' 49"	11.9	Galaxy	0.027x0.008	Bootes	
NGC 6125	16h 19m 31.8s	+57° 56' 32"	12.0	Galaxy	0.011x0.011	Draco	
NGC 5673	14h 32m 08.4s	+49° 52' 47"	12.1	Galaxy	0.02x0.005	Bootes	
NGC 5875	15h 09m 45.4s	+52° 27' 37"	12.4	Galaxy	0.019x0.01	Bootes	
IC 1029	14h 33m 04.9s	+49° 49' 32"	12.4	Galaxy	0.021x0.004	Bootes	
NGC 5667	14h 30m 53.2s	+59° 23' 27"	12.5	Galaxy	0.014x0.009	Draco	
NGC 5707-1	14h 38m 06.9s	+51° 29' 05"	12.5	Galaxy	0.020x0.004	Bootes	5707-1
NGC 5820	14h 59m 12.1s	+53° 48' 53"	12.5	Galaxy	0.014x0.009	Bootes	
NGC 5874	15h 08m 22.4s	+54° 41' 04"	12.5	Galaxy	0.019x0.013	Bootes	
NGC 5963	15h 33m 53.9s	+56° 30' 01"	12.5	Galaxy	0.027x0.021	Draco	
NGC 6190	16h 32m 25.5s	+58° 24' 06"	12.6	Galaxy	0.011x0.010	Draco	
IC 1153	15h 57m 35.4s	+48° 07' 03"	12.6	Galaxy	0.01x0.009	Hercules	
NGC 5876	15h 10m 01.9s	+54° 26' 19"	12.7	Galaxy	0.02x0.01	Bootes	
NGC 6154	16h 25m 59.8s	+49° 48' 01"	12.7	Galaxy	0.017x0.016	Hercules	
NGC 6189	16h 31m 58.0s	+59° 35' 21"	12.7	Galaxy	0.015x0.007	Draco	
IC 1211	16h 17m 18.5s	+52° 57' 45"	12.7	Galaxy	0.008x0.007	Draco	
NGC 5785	14h 54m 02.5s	+52° 00' 14"	12.8	Galaxy	0.024x0.015	Bootes	
NGC 5797	14h 56m 59.5s	+49° 37' 25"	12.8	Galaxy	0.013x0.008	Bootes	
NGC 5894	15h 12m 05.6s	+59° 44' 29"	12.8	Galaxy	0.025x0.003	Draco	
NGC 5981	15h 38m 15.7s	+59° 19' 60"	13.0	Galaxy	0.022x0.002	Draco	
NGC 5804	14h 57m 42.2s	+49° 35' 49"	13.1	Galaxy	0.01x0.009	Bootes	
NGC 5989	15h 41m 53.8s	+59° 41' 53"	13.1	Galaxy	0.007x0.007	Draco	
NGC 6143	16h 22m 06.3s	+55° 02' 41"	13.1	Galaxy	0.008x0.007	Draco	
IC 1152	15h 57m 15.5s	+48° 02' 37"	13.1	Galaxy	0.01x0.01	Hercules	
NGC 5624	14h 27m 12.6s	+51° 30' 16"	13.2	Galaxy	0.009x0.006	Bootes	
NGC 5751	14h 44m 23.2s	+53° 19' 30"	13.2	Galaxy	0.012x0.006	Bootes	
NGC 5902	15h 14m 55.9s	+50° 15' 51"	13.2	Galaxy	0.009x0.008	Bootes	
NGC 5777	14h 51m 46.0s	+58° 54' 16"	13.3	Galaxy	0.025x0.003	Draco	
NGC 5875A	15h 09m 06.0s	+52° 13' 41"	13.3	Galaxy	0.004x0.004	Bootes	5875A
IC 1057	14h 46m 24.9s	+50° 19' 06"	13.3	Galaxy	0.015x0.010	Bootes	
NGC 5526-1	14h 14m 27.6s	+57° 41' 19"	13.4	Galaxy	0.019x0.002	Ursa Major	5526-1
NGC 5714	14h 38m 51.2s	+46° 33' 39"	13.4	Galaxy	0.026x0.003	Bootes	
NGC 5720	14h 39m 09.7s	+50° 44' 17"	13.4	Galaxy	0.017x0.011	Bootes	
NGC 5693	14h 36m 49.5s	+48° 30' 27"	13.5	Galaxy	0.015x0.012	Bootes	

Table 36: Main objects visible on chart 29 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5794	14h 56m 29.2s	+49° 39' 14"	13.5	Galaxy	0.008x0.008	Bootes	
NGC 6130	16h 19m 54.5s	+57° 34' 21"	13.5	Galaxy	0.008x0.005	Draco	
NGC 6182	16h 29m 56.9s	+55° 28' 46"	13.5	Galaxy	0.011x0.003	Draco	
NGC 5821	14h 59m 31.9s	+53° 51' 08"	13.6	Galaxy	0.011x0.006	Bootes	
NGC 5828	15h 01m 20.9s	+49° 55' 22"	13.6	Galaxy	0.005x0.004	Bootes	
NGC 6198	16h 35m 50.8s	+57° 27' 04"	13.6	Galaxy	0.008x0.005	Draco	
NGC 6206	16h 40m 26.2s	+58° 34' 59"	13.6	Galaxy	0.005x0.005	Draco	
NGC 5818	14h 59m 33.6s	+49° 45' 03"	13.7	Galaxy	0.01x0.0075	Bootes	
NGC 6090	16h 12m 08.2s	+52° 24' 44"	13.7	Galaxy	0.02x0.008	Draco	
NGC 5971	15h 36m 02.9s	+56° 24' 11"	13.8	Galaxy	0.013x0.005	Draco	
NGC 6170	16h 27m 54.1s	+59° 31' 26"	13.8	Galaxy	0.005x0.005	Draco	
IC 1069	14h 51m 19.0s	+54° 20' 17"	13.8	Galaxy	0.010x0.006	Bootes	
NGC 5795	14h 56m 54.8s	+49° 19' 36"	13.9	Galaxy	0.013x0.002	Bootes	
NGC 5767	14h 50m 12.0s	+47° 18' 08"	14.0	Galaxy	0.007x0.005	Bootes	
IC 1099	15h 07m 23.6s	+56° 26' 24"	14.0	Galaxy	0.01x0.008	Draco	
IC 995	14h 17m 05.1s	+57° 43' 38"	14.0	Galaxy	0.013x0.003	Ursa Major	
IC 996	14h 17m 55.7s	+57° 32' 50"	14.0	Galaxy	0.011x0.001	Ursa Major	
NGC 5682	14h 35m 23.4s	+48° 35' 32"	14.1	Galaxy	0.013x0.005	Bootes	
NGC 5830	15h 02m 27.4s	+47° 48' 20"	14.2	Galaxy	0.008x0.005	Bootes	
IC 1033	14h 35m 20.5s	+47° 51' 35"	14.2	Galaxy	0.009x0.005	Bootes	
NGC 5932	15h 27m 22.1s	+48° 33' 11"	14.3	Galaxy	0.006x0.006	Bootes	
IC 1074	14h 52m 32.1s	+51° 11' 30"	14.3	Galaxy	0.009x0.003	Bootes	
IC 4528	15h 02m 09.1s	+49° 02' 34"	14.3	Galaxy	0.005x0.004	Bootes	
NGC 5526-2	14h 14m 23.9s	+57° 41' 10"	14.4	Galaxy	0.006x0.005	Ursa Major	5526-2
NGC 5717	14h 39m 16.7s	+46° 35' 12"	14.4	Galaxy	0.006x0.004	Bootes	
NGC 5826	15h 07m 03.6s	+55° 24' 38"	14.4	Galaxy	0.01x0.0075	Draco	
NGC 5835	15h 03m 01.0s	+48° 48' 29"	14.4	Galaxy	0.009x0.007	Bootes	
NGC 5969	15h 35m 17.0s	+56° 23' 32"	14.4	Galaxy	0.004x0.002	Draco	
NGC 6187	16h 31m 56.7s	+57° 40' 11"	14.4	Galaxy	0.003x0.002	Draco	
NGC 5561	14h 17m 55.8s	+58° 40' 03"	14.5	Galaxy	0.004x0.004	Ursa Major	
NGC 5700	14h 37m 39.7s	+48° 28' 04"	14.5	Galaxy	0.008x0.003	Bootes	
NGC 5906	15h 16m 20.2s	+56° 15' 53"	14.5	Galpart	8.333x8.333	Draco	
NGC 6157	16h 26m 11.7s	+55° 19' 16"	14.5	Galaxy	0.005x0.004	Draco	
IC 1027	14h 30m 23.6s	+53° 53' 10"	14.5	Galaxy	0.007x0.006	Bootes	
NGC 5723	14h 39m 36.8s	+46° 36' 47"	14.6	Galaxy	0.005x0.001	Bootes	
NGC 5866B	15h 12m 36.3s	+55° 43' 06"	14.6	Galaxy	0.022x0.015	Draco	5866B
NGC 5976A	15h 36m 29.4s	+59° 30' 28"	14.6	Galaxy	0.008x0.008	Draco	5976A
NGC 5722	14h 39m 33.4s	+46° 35' 21"	14.7	Galaxy	0.002x0.002	Bootes	
NGC 5788	14h 53m 51.0s	+51° 58' 19"	14.7	Galaxy	0.005x0.003	Bootes	
IC 1032	14h 35m 17.8s	+47° 53' 26"	14.7	Galaxy	0.003x0.002	Bootes	
NGC 5683	14h 35m 30.6s	+48° 35' 04"	14.8	Galaxy	0.003x0.002	Bootes	
NGC 5779	14h 52m 40.5s	+55° 49' 37"	14.8	Galaxy	0.003x0.003	Draco	
NGC 5862	15h 06m 33.1s	+55° 30' 20"	14.8	Galaxy	0.004x0.004	Draco	
NGC 5933	15h 27m 35.4s	+48° 33' 07"	14.8	Galaxy	0.004x0.001	Bootes	
NGC 5976	15h 37m 10.2s	+59° 20' 23"	14.8	Galaxy	0.006x0.003	Draco	NGC 5976A
NGC 6136	16h 21m 22.4s	+55° 55' 42"	14.8	Galaxy	0.007x0.002	Draco	

Table 36: Main objects visible on chart 29 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1031	14h 35m 02.6s	+47° 57' 35"	14.8	Galaxy	0.007x0.005	Bootes	
NGC 5721	14h 39m 32.1s	+46° 35' 51"	14.9	Galaxy	0.002x0.001	Bootes	
NGC 5805	14h 57m 47.3s	+49° 33' 25"	15.0	Galaxy	0.003x0.002	Bootes	
NGC 6088B	16h 11m 06.0s	+57° 24' 58"	15.0	Galaxy	0.005x0.002	Draco	6088B
NGC 6088A	16h 11m 04.3s	+57° 25' 13"	15.2	Galaxy	0.005x0.002	Draco	6088A
NGC 5965-2	15h 34m 19.4s	+56° 37' 54"	15.3	Galaxy	0.002x0.001	Draco	5965-2
NGC 5866A	15h 05m 45.8s	+55° 45' 30"	15.5	Galaxy	0.004x0.004	Draco	5866A
NGC 5867	15h 06m 54.0s	+55° 39' 46"	15.5	Galaxy	0.001x0.001	Draco	
NGC 5707-2	14h 38m 11.2s	+51° 30' 23"	15.8	Galaxy	0.002x0.002	Bootes	5707-2

7.31 Main objects visible on chart 30

Table 37: Main objects visible on chart 30

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6229	16h 47m 29.3s	+47° 29' 49"	9.4	Globular cluster	0.037x0.037	Hercules	
NGC 6125	16h 19m 31.8s	+57° 56' 32"	12.0	Galaxy	0.011x0.011	Draco	
NGC 6155	16h 26m 38.8s	+48° 19' 40"	12.3	Galaxy	0.010x0.007	Hercules	
NGC 6338	17h 15m 41.1s	+57° 23' 31"	12.3	Galaxy	0.012x0.008	Draco	
NGC 6190	16h 32m 25.5s	+58° 24' 06"	12.6	Galaxy	0.011x0.010	Draco	
NGC 6211	16h 41m 47.0s	+57° 45' 01"	12.6	Galaxy	0.013x0.01	Draco	
NGC 6154	16h 25m 59.8s	+49° 48' 01"	12.7	Galaxy	0.017x0.016	Hercules	
NGC 6189	16h 31m 58.0s	+59° 35' 21"	12.7	Galaxy	0.015x0.007	Draco	
IC 1211	16h 17m 18.5s	+52° 57' 45"	12.7	Galaxy	0.008x0.007	Draco	
NGC 6283	16h 59m 54.3s	+49° 53' 45"	12.9	Galaxy	0.009x0.009	Hercules	
NGC 6307	17h 07m 53.9s	+60° 43' 41"	12.9	Galaxy	0.010x0.008	Draco	
NGC 6370	17h 23m 43.9s	+56° 57' 33"	12.9	Galaxy	0.011x0.011	Draco	
IC 1231	16h 47m 17.3s	+58° 23' 29"	12.9	Galaxy	0.018x0.008	Draco	
NGC 6381	17h 27m 31.0s	+59° 59' 59"	13.0	Galaxy	0.010x0.008	Draco	
NGC 6515	17h 57m 51.2s	+50° 43' 35"	13.0	Galaxy	0.013x0.008	Draco	
NGC 6143	16h 22m 06.3s	+55° 02' 41"	13.1	Galaxy	0.008x0.007	Draco	
NGC 6361	17h 18m 54.3s	+60° 35' 24"	13.1	Galaxy	0.018x0.005	Draco	
NGC 6385	17h 28m 19.4s	+57° 30' 29"	13.1	Galaxy	0.010x0.010	Draco	
IC 1259-2	17h 27m 43.2s	+58° 30' 08"	13.1	Galaxy	0.002x0.002	Draco	IC 1259-2
NGC 6286	16h 58m 48.5s	+58° 54' 40"	13.3	Galaxy	0.010x0.01	Draco	
NGC 6258	16h 52m 44.4s	+60° 29' 07"	13.4	Galaxy	0.007x0.005	Draco	
NGC 6478	17h 49m 03.8s	+51° 09' 06"	13.4	Galaxy	0.007x0.005	Draco	
IC 1267	17h 39m 00.8s	+59° 21' 48"	13.4	Galaxy	0.012x0.008	Draco	
NGC 6130	16h 19m 54.5s	+57° 34' 21"	13.5	Galaxy	0.008x0.005	Draco	
NGC 6182	16h 29m 56.9s	+55° 28' 46"	13.5	Galaxy	0.011x0.003	Draco	
NGC 6285	16h 58m 40.7s	+58° 55' 45"	13.5	Galaxy	0.01x0.005	Draco	
NGC 6290	17h 01m 13.1s	+58° 56' 43"	13.5	Galaxy	0.009x0.008	Draco	
NGC 6497	17h 51m 32.4s	+59° 28' 03"	13.5	Galaxy	0.011x0.005	Draco	
IC 1258	17h 27m 33.7s	+58° 28' 16"	13.5	Galaxy	0.007x0.005	Draco	
NGC 6198	16h 35m 50.8s	+57° 27' 04"	13.6	Galaxy	0.008x0.005	Draco	

Table 37: Main objects visible on chart 30 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6206	16h 40m 26.2s	+58° 34' 59"	13.6	Galaxy	0.005x0.005	Draco	
NGC 6246	16h 50m 14.9s	+55° 30' 46"	13.6	Galaxy	0.012x0.005	Draco	
NGC 6246A	16h 50m 36.1s	+55° 21' 17"	13.6	Galaxy	0.016x0.016	Draco	6246A
NGC 6279	16h 59m 31.6s	+47° 12' 42"	13.6	Galaxy	0.009x0.007	Hercules	
NGC 6373	17h 24m 23.8s	+58° 58' 47"	13.6	Galaxy	0.010x0.008	Draco	
NGC 6454	17h 45m 16.7s	+55° 41' 53"	13.6	Galaxy	0.008x0.006	Draco	
IC 1237	16h 56m 38.2s	+54° 59' 58"	13.6	Galaxy	0.015x0.008	Draco	
IC 1248	17h 11m 54.5s	+59° 58' 27"	13.6	Galaxy	0.007x0.006	Draco	
NGC 6090	16h 12m 08.2s	+52° 24' 44"	13.7	Galaxy	0.02x0.008	Draco	
NGC 6262	16h 59m 02.4s	+57° 04' 22"	13.7	Galaxy	0.005x0.003	Draco	
NGC 6306	17h 07m 50.5s	+60° 42' 23"	13.7	Galaxy	0.008x0.002	Draco	
NGC 6399	17h 32m 05.0s	+59° 36' 12"	13.7	Galaxy	0.009x0.005	Draco	
NGC 6479	17h 48m 43.8s	+54° 08' 41"	13.7	Galaxy	0.008x0.007	Draco	
NGC 6170	16h 27m 54.1s	+59° 31' 26"	13.8	Galaxy	0.005x0.005	Draco	
NGC 6390	17h 28m 42.0s	+60° 04' 51"	13.8	Galaxy	0.013x0.003	Draco	
NGC 6409	17h 37m 01.4s	+50° 45' 23"	13.8	Galaxy	0.006x0.005	Draco	
NGC 6443	17h 45m 02.3s	+48° 06' 28"	13.8	Galaxy	0.01x0.004	Hercules	
NGC 6449	17h 44m 05.3s	+56° 47' 50"	13.8	Galaxy	0.008x0.006	Draco	
IC 1286	18h 16m 34.7s	+55° 35' 50"	13.8	Galaxy	0.011x0.004	Draco	
NGC 6313	17h 10m 49.7s	+48° 18' 37"	13.9	Galaxy	0.010x0.003	Hercules	
NGC 6532	17h 59m 33.2s	+56° 13' 54"	13.9	Galaxy	0.015x0.007	Draco	
NGC 6562	18h 05m 20.2s	+56° 15' 57"	13.9	Galaxy	0.005x0.005	Draco	
NGC 6291	17h 01m 12.8s	+58° 54' 44"	14.0	Galaxy	0.005x0.003	Draco	
NGC 6358	17h 19m 17.2s	+52° 35' 53"	14.0	Galaxy	0.007x0.003	Draco	
NGC 6382	17h 28m 14.1s	+56° 51' 18"	14.0	Galaxy	0.007x0.005	Draco	
NGC 6436	17h 41m 26.3s	+60° 26' 30"	14.0	Galaxy	0.011x0.006	Draco	
NGC 6466	17h 48m 33.3s	+51° 23' 40"	14.1	Galaxy	0.004x0.002	Draco	
NGC 6386	17h 29m 15.8s	+52° 42' 37"	14.2	Galaxy	0.008x0.008	Draco	
NGC 6187	16h 31m 56.7s	+57° 40' 11"	14.4	Galaxy	0.003x0.002	Draco	
NGC 6345	17h 15m 42.4s	+57° 19' 52"	14.4	Galaxy	0.006x0.001	Draco	
NGC 6418	17h 38m 25.4s	+58° 42' 21"	14.4	Galaxy	0.004x0.003	Draco	
IC 1223	16h 36m 11.7s	+49° 11' 07"	14.4	Galaxy	0.007x0.005	Hercules	
NGC 6157	16h 26m 11.7s	+55° 19' 16"	14.5	Galaxy	0.005x0.004	Draco	
NGC 6391	17h 29m 04.9s	+58° 50' 14"	14.5	Galaxy	0.007x0.005	Draco	
NGC 6394	17h 30m 35.9s	+59° 37' 38"	14.5	Galaxy	0.011x0.003	Draco	
NGC 6474	17h 47m 23.4s	+57° 17' 45"	14.5	Galaxy	0.007x0.004	Draco	
NGC 6566	18h 07m 25.0s	+52° 15' 49"	14.5	Galaxy	0.005x0.005	Draco	
NGC 6346	17h 15m 42.9s	+57° 18' 13"	14.6	Galaxy	0.004x0.003	Draco	
NGC 6213	16h 41m 56.7s	+57° 46' 53"	14.7	Galaxy	0.005x0.002	Draco	
NGC 6459	17h 46m 07.2s	+55° 46' 15"	14.7	Galaxy	0.006x0.003	Draco	
IC 1230	16h 45m 28.4s	+51° 13' 40"	14.7	Galaxy	0.007x0.007	Hercules	
IC 1260	17h 27m 48.1s	+58° 27' 44"	14.7	Galaxy	0.002x0.002	Draco	
NGC 6136	16h 21m 22.4s	+55° 55' 42"	14.8	Galaxy	0.007x0.002	Draco	
NGC 6295	17h 03m 29.7s	+60° 18' 48"	14.8	Galaxy	0.007x0.003	Draco	
NGC 6376	17h 25m 35.3s	+58° 48' 08"	14.8	Galaxy	0.004x0.002	Draco	
IC 4650	17h 16m 06.0s	+57° 16' 58"	14.8	Galaxy	0.005x0.001	Draco	

Table 37: Main objects visible on chart 30 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6377	17h 25m 39.1s	+58° 48' 28"	14.9	Galaxy	0.005x0.002	Draco	
IC 1252	17h 16m 08.5s	+57° 20' 52"	14.9	Galaxy	0.008x0.001	Draco	
IC 1259-1	17h 27m 41.0s	+58° 30' 09"	14.9	Galaxy	0.006x0.003	Draco	IC 1259-1
NGC 6088B	16h 11m 06.0s	+57° 24' 58"	15.0	Galaxy	0.005x0.002	Draco	6088B
NGC 6088A	16h 11m 04.3s	+57° 25' 13"	15.2	Galaxy	0.005x0.002	Draco	6088A
IC 1250	17h 14m 47.5s	+57° 23' 51"	15.2	Galaxy	0.003x0.001	Draco	
NGC 6489	17h 50m 14.9s	+60° 05' 17"	15.3	Galaxy	0.003x0.002	Draco	
NGC 6387	17h 28m 41.8s	+57° 31' 56"	15.7	Galaxy	0.002x0.001	Draco	
NGC 6393	17h 30m 23.3s	+59° 31' 08"	15.7	Galaxy	0.002x0.002	Draco	
IC 1229	16h 45m 25.6s	+51° 16' 33"	15.7	Galaxy	0.003x0.002	Draco	

7.32 Main objects visible on chart 31

Table 38: Main objects visible on chart 31

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6826	19h 45m 17.3s	+50° 34' 12"	8.8	Planetary Nebula	0.005x0.005	Cygnus	CALDWELL 15, Blinking planetary
NGC 6764	19h 08m 43.6s	+50° 57' 45"	11.9	Galaxy	0.018x0.01	Cygnus	
NGC 6701	18h 43m 25.9s	+60° 40' 19"	12.1	Galaxy	0.012x0.010	Draco	
NGC 6833	19h 50m 17.4s	+49° 00' 29"	12.1	Planetary Nebula	0.001x0.001	Cygnus	
NGC 6824	19h 44m 03.6s	+56° 09' 10"	12.2	Galaxy	0.015x0.011	Cygnus	
NGC 6691	18h 39m 32.7s	+55° 39' 32"	12.9	Galaxy	0.013x0.012	Draco	
NGC 6711	18h 49m 30.5s	+47° 40' 44"	12.9	Galaxy	0.009x0.007	Draco	
NGC 6515	17h 57m 51.2s	+50° 43' 35"	13.0	Galaxy	0.013x0.008	Draco	
NGC 6757	19h 05m 27.6s	+55° 44' 44"	13.0	Galaxy	0.011x0.008	Draco	
IC 1291	18h 34m 20.1s	+49° 17' 36"	13.0	Galaxy	0.015x0.011	Draco	
NGC 6750	19h 00m 52.4s	+59° 11' 37"	13.1	Galaxy	0.008x0.005	Draco	
NGC 6798	19h 24m 28.0s	+53° 39' 37"	13.2	Galaxy	0.013x0.007	Cygnus	
NGC 6831	19h 48m 15.6s	+59° 56' 19"	13.3	Galaxy	0.011x0.011	Draco	
IC 1301	19h 27m 00.5s	+50° 09' 46"	13.3	Galaxy	0.01x0.005	Cygnus	
NGC 6742	18h 59m 48.9s	+48° 29' 32"	13.4	Planetary Nebula	0.004x0.004	Draco	
IC 1267	17h 39m 00.8s	+59° 21' 48"	13.4	Galaxy	0.012x0.008	Draco	
NGC 6497	17h 51m 32.4s	+59° 28' 03"	13.5	Galaxy	0.011x0.005	Draco	
NGC 6454	17h 45m 16.7s	+55° 41' 53"	13.6	Galaxy	0.008x0.006	Draco	
NGC 6560	18h 05m 43.5s	+46° 53' 03"	13.6	Galaxy	0.01x0.006	Hercules	
NGC 6479	17h 48m 43.8s	+54° 08' 41"	13.7	Galaxy	0.008x0.007	Draco	
NGC 6449	17h 44m 05.3s	+56° 47' 50"	13.8	Galaxy	0.008x0.006	Draco	
NGC 6732-1	18h 56m 49.2s	+52° 24' 07"	13.8	Galaxy	0.01x0.005	Draco	6732-1
IC 1286	18h 16m 34.7s	+55° 35' 50"	13.8	Galaxy	0.011x0.004	Draco	
NGC 6532	17h 59m 33.2s	+56° 13' 54"	13.9	Galaxy	0.015x0.007	Draco	
NGC 6562	18h 05m 20.2s	+56° 15' 57"	13.9	Galaxy	0.005x0.005	Draco	
NGC 6582-1	18h 11m 28.6s	+49° 54' 59"	13.9	Galaxy	0.005x0.005	Hercules	6582-1
NGC 6787	19h 16m 25.8s	+60° 27' 01"	13.9	Galaxy	0.01x0.008	Draco	
NGC 6801	19h 28m 00.1s	+54° 24' 36"	13.9	Galaxy	0.010x0.005	Cygnus	
NGC 6687	18h 37m 36.8s	+59° 39' 34"	14.0	Galaxy	0.010x0.01	Draco	

Table 38: Main objects visible on chart 31 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6829	19h 47m 25.8s	+59° 57' 09"	14.1	Galaxy	0.013x0.003	Draco	
NGC 6670	18h 33m 47.7s	+59° 54' 09"	14.3	Galaxy	0.009x0.005	Draco	
NGC 6670A	18h 33m 51.8s	+59° 54' 16"	14.3	Galaxy	0.004x0.001	Draco	6670A
NGC 6759	19h 07m 24.6s	+50° 22' 38"	14.3	Galaxy	0.008x0.005	Draco	
NGC 6418	17h 38m 25.4s	+58° 42' 21"	14.4	Galaxy	0.004x0.003	Draco	
NGC 6582-2	18h 11m 32.0s	+49° 54' 51"	14.4	Galaxy	0.006x0.006	Hercules	6582-2
NGC 6474	17h 47m 23.4s	+57° 17' 45"	14.5	Galaxy	0.007x0.004	Draco	
NGC 6566	18h 07m 25.0s	+52° 15' 49"	14.5	Galaxy	0.005x0.005	Draco	
NGC 6459	17h 46m 07.2s	+55° 46' 15"	14.7	Galaxy	0.006x0.003	Draco	
NGC 6732-2	18h 56m 51.3s	+52° 24' 06"	15.0	Galaxy	8.333x8.333	Draco	6732-2
NGC 6696	18h 40m 20.4s	+59° 21' 03"	15.1	Galaxy	0.006x0.001	Draco	

7.33 Main objects visible on chart 32

Table 39: Main objects visible on chart 32

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7092	21h 32m 31.0s	+48° 30' 18"	4.6	Open cluster	0.258x0.258	Cygnus	M39
NGC 6811	19h 37m 41.9s	+46° 25' 01"	6.8	Open cluster	0.125x0.125	Cygnus	
NGC 7082	21h 29m 56.5s	+47° 12' 22"	7.2	Open cluster	0.2x0.2	Cygnus	
NGC 6939	20h 31m 51.6s	+60° 43' 24"	7.8	Open cluster	0.083x0.083	Cepheus	
NGC 7062	21h 24m 06.8s	+46° 27' 23"	8.3	Open cluster	0.041x0.041	Cygnus	
NGC 7086	21h 31m 04.4s	+51° 40' 49"	8.4	Open cluster	0.1x0.1	Cygnus	
NGC 6826	19h 45m 17.3s	+50° 34' 12"	8.8	Planetary Nebula	0.005x0.005	Cygnus	CALDWELL 15, Blinking planetary
NGC 6946	20h 35m 14.7s	+60° 12' 58"	8.8	Galaxy	0.095x0.081	Cygnus	
IC 1369	21h 12m 46.6s	+47° 50' 29"	8.8	Open cluster	0.041x0.041	Cygnus	
NGC 7031	21h 07m 27.1s	+50° 54' 59"	9.1	Open cluster	0.125x0.125	Cygnus	
NGC 7067	21h 24m 50.9s	+48° 05' 22"	9.7	Open cluster	0.025x0.025	Cygnus	
NGC 7008	21h 01m 04.3s	+54° 36' 54"	10.7	Planetary Nebula	0.011x0.011	Cygnus	
NGC 7026	21h 06m 55.7s	+47° 55' 32"	10.9	Planetary Nebula	0.006x0.006	Cygnus	
NGC 6833	19h 50m 17.4s	+49° 00' 29"	12.1	Planetary Nebula	0.001x0.001	Cygnus	
NGC 6824	19h 44m 03.6s	+56° 09' 10"	12.2	Galaxy	0.015x0.011	Cygnus	
NGC 6831	19h 48m 15.6s	+59° 56' 19"	13.3	Galaxy	0.011x0.011	Draco	
NGC 6916	20h 23m 56.8s	+58° 24' 11"	13.5	Galaxy	0.015x0.01	Cygnus	
NGC 6801	19h 28m 00.1s	+54° 24' 36"	13.9	Galaxy	0.010x0.005	Cygnus	
NGC 6829	19h 47m 25.8s	+59° 57' 09"	14.1	Galaxy	0.013x0.003	Draco	

7.34 Main objects visible on chart 33

Table 40: Main objects visible on chart 33

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7092	21h 32m 31.0s	+48° 30' 18"	4.6	Open cluster	0.258x0.258	Cygnus	M39

Table 40: Main objects visible on chart 33 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7243	22h 15m 51.3s	+49° 59' 15"	6.4	Open cluster	0.25x0.25	Lacerta	CALDWELL 16
NGC 7082	21h 29m 56.5s	+47° 12' 22"	7.2	Open cluster	0.2x0.2	Cygnus	
NGC 7380	22h 48m 04.3s	+58° 13' 37"	7.2	Open cluster	0.166x0.166	Cepheus	
NGC 7234	22h 13m 02.4s	+57° 21' 46"	7.7	Open cluster	0.05x0.05	Cepheus	
NGC 7062	21h 24m 06.8s	+46° 27' 23"	8.3	Open cluster	0.041x0.041	Cygnus	
NGC 7086	21h 31m 04.4s	+51° 40' 49"	8.4	Open cluster	0.1x0.1	Cygnus	
NGC 7261	22h 20m 49.1s	+58° 12' 03"	8.4	Open cluster	0.05x0.05	Cepheus	
NGC 7296	22h 28m 45.2s	+52° 22' 50"	9.0	Open cluster	0.033x0.033	Lacerta	
IC 1434	22h 11m 10.8s	+52° 55' 21"	9.0	Open cluster	0.058x0.058	Lacerta	
IC 1442	22h 16m 46.9s	+54° 04' 55"	9.1	Open cluster	0.041x0.041	Lacerta	
NGC 7245	22h 15m 52.6s	+54° 25' 60"	9.2	Open cluster	0.041x0.041	Lacerta	
NGC 7226	22h 11m 06.3s	+55° 29' 16"	9.6	Open cluster	0.016x0.016	Cepheus	
NGC 7067	21h 24m 50.9s	+48° 05' 22"	9.7	Open cluster	0.025x0.025	Cygnus	
NGC 7128	21h 44m 34.7s	+53° 47' 54"	9.7	Open cluster	0.033x0.033	Cygnus	
King48	22h 53m 44.2s	+58° 22' 46"	9.9	Open cluster	0.033x0.033	Cepheus	
NGC 7281	22h 25m 35.7s	+57° 55' 55"	10.0	Open cluster	0.1x0.1	Cepheus	
NGC 7127	21h 44m 29.3s	+54° 40' 45"	11.0	Open cluster	0.05x0.05	Cygnus	
IC 5217	22h 24m 39.0s	+51° 03' 33"	11.3	Planetary Nebula	0.002x0.002	Lacerta	
NGC 7429	22h 56m 43.9s	+60° 04' 11"	13.0	Open cluster	0.125x0.125	Cepheus	
NGC 7423	22h 55m 51.5s	+57° 11' 28"	15.0	Open cluster	0.041x0.041	Cepheus	
IC 5146	21h 54m 05.7s	+47° 21' 07"	-	Nebula	0.083x0.083	Cygnus	CALDWELL 19, Cocoon nebula

7.35 Main objects visible on chart 34

Table 41: Main objects visible on chart 34

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 224	00h 43m 43.6s	+41° 22' 02"	3.4	Galaxy	1.575x0.514	Andromeda	M31, Andromeda nebula
NGC 205	00h 41m 21.3s	+41° 47' 02"	8.1	Galaxy	0.162x0.095	Andromeda	M110
NGC 221	00h 43m 41.1s	+40° 57' 51"	8.1	Galaxy	0.070x0.054	Andromeda	M32
NGC 7662	23h 26m 46.0s	+42° 38' 05"	8.3	Planetary Nebula	0.005x0.005	Andromeda	CALDWELL 22, Blue snowball
NGC 1857	00h 39m 57.6s	+48° 26' 09"	9.2	Galaxy	0.066x0.058	Cassiopeia	
NGC 147	00h 34m 11.0s	+48° 36' 23"	9.5	Galaxy	0.11x0.065	Cassiopeia	CALDWELL 17
NGC 2784	00h 53m 05.8s	+47° 38' 54"	10.8	Galaxy	0.017x0.016	Cassiopeia	
NGC 7640	23h 22m 58.6s	+40° 56' 38"	11.3	Galaxy	0.087x0.015	Andromeda	
IC 1525	00h 00m 11.0s	+46° 59' 23"	12.2	Galaxy	0.015x0.011	Andromeda	
NGC 2180	00h 47m 31.0s	+36° 25' 25"	12.6	Galaxy	0.0125x0.01	Andromeda	
NGC 7514	23h 13m 17.4s	+34° 58' 45"	12.6	Galaxy	0.011x0.007	Pegasus	
NGC 7618	23h 20m 38.8s	+42° 57' 05"	13.0	Galaxy	0.01x0.008	Andromeda	
NGC 5139	00h 15m 31.9s	+48° 21' 22"	13.1	Galaxy	0.010x0.008	Andromeda	CALDWELL 80, Omega Centauri
NGC 5139	00h 08m 44.8s	+35° 27' 47"	13.3	Galaxy	0.01x0.005	Andromeda	CALDWELL 80, Omega Centauri
NGC 7707	23h 35m 44.1s	+44° 24' 16"	13.4	Galaxy	0.010x0.009	Andromeda	
NGC 4833	00h 14m 59.2s	+48° 20' 06"	13.6	Galaxy	0.013x0.008	Andromeda	CALDWELL 105
NGC 110	00h 09m 38.4s	+37° 32' 53"	13.7	Galaxy	0.012x0.002	Andromeda	
IC 4996	00h 15m 19.5s	+48° 20' 50"	13.7	Galaxy	0.009x0.008	Andromeda	

Table 41: Main objects visible on chart 34 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1534	00h 14m 42.4s	+48° 15' 07"	13.8	Galaxy	0.008x0.004	Andromeda	
IC 1550	00h 25m 25.2s	+38° 17' 06"	13.9	Galaxy	0.007x0.005	Andromeda	
NGC 2060	00h 41m 31.3s	+40° 50' 13"	14.0	Galpart	0.035x0.035	Andromeda	
IC 1535	00h 14m 54.2s	+48° 15' 27"	14.3	Galaxy	0.010x0.002	Andromeda	
IC 1536	00h 15m 16.0s	+48° 14' 38"	14.3	Galaxy	0.005x0.004	Andromeda	

7.36 Main objects visible on chart 35

Table 42: Main objects visible on chart 35

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 224	00h 43m 43.6s	+41° 22' 02"	3.4	Galaxy	1.575x0.514	Andromeda	M31, Andromeda nebula
NGC 752	01h 58m 39.6s	+37° 55' 14"	5.7	Open cluster	0.625x0.625	Andromeda	CALDWELL 28
NGC 205	00h 41m 21.3s	+41° 47' 02"	8.1	Galaxy	0.162x0.095	Andromeda	M110
NGC 221	00h 43m 41.1s	+40° 57' 51"	8.1	Galaxy	0.070x0.054	Andromeda	M32
NGC 1857	00h 39m 57.6s	+48° 26' 09"	9.2	Galaxy	0.066x0.058	Cassiopeia	
NGC 404	01h 10m 27.5s	+35° 48' 50"	10.3	Galaxy	0.029x0.029	Andromeda	Mirach's ghost
NGC 2784	00h 53m 05.8s	+47° 38' 54"	10.8	Galaxy	0.017x0.016	Cassiopeia	
NGC 812	02h 07m 59.6s	+44° 39' 27"	11.3	Galaxy	0.018x0.006	Andromeda	
NGC 846	02h 13m 20.4s	+44° 39' 07"	12.1	Galaxy	0.015x0.014	Andromeda	
IC 171	01h 56m 13.9s	+35° 22' 11"	12.2	Galaxy	0.011x0.008	Triangulum	
NGC 6694	01h 48m 19.2s	+35° 39' 09"	12.3	Galaxy	0.025x0.005	Triangulum	M26
NGC 6791	01h 50m 47.1s	+35° 52' 30"	12.3	Galaxy	0.015x0.015	Andromeda	
NGC 6871	01h 51m 36.8s	+36° 27' 34"	12.3	Galaxy	0.011x0.011	Andromeda	
NGC 7531	01h 58m 46.4s	+36° 00' 11"	12.3	Galaxy	0.025x0.015	Andromeda	
NGC 3938	01h 09m 38.2s	+39° 44' 22"	12.5	Galaxy	0.014x0.011	Andromeda	
NGC 2180	00h 47m 31.0s	+36° 25' 25"	12.6	Galaxy	0.0125x0.01	Andromeda	
IC 179	02h 01m 16.3s	+38° 06' 29"	12.6	Galaxy	0.013x0.01	Andromeda	
NGC 4258	01h 14m 04.2s	+38° 51' 51"	12.7	Galaxy	0.008x0.006	Andromeda	M106
NGC 5516	01h 28m 42.8s	+37° 16' 33"	12.7	Galaxy	0.015x0.006	Andromeda	
NGC 6218	01h 37m 51.3s	+35° 36' 14"	12.7	Galaxy	0.01x0.008	Triangulum	M12
NGC 6883	01h 51m 47.4s	+35° 22' 24"	12.7	Galaxy	0.02x0.0125	Triangulum	
NGC 7089	01h 53m 50.1s	+36° 14' 26"	12.7	Galaxy	0.025x0.020	Andromeda	M2
NGC 7590	01h 58m 54.4s	+36° 25' 49"	12.7	Galaxy	0.011x0.011	Andromeda	
NGC 797	02h 04m 33.0s	+38° 12' 12"	12.7	Galaxy	0.013x0.010	Andromeda	
NGC 5873	01h 33m 35.4s	+35° 27' 01"	12.8	Galaxy	0.018x0.006	Triangulum	
704-1	01h 53m 41.4s	+36° 12' 55"	12.8	Galaxy	0.005x0.003	Andromeda	704-1
NGC 7128	01h 54m 12.3s	+36° 54' 28"	12.8	Galaxy	0.008x0.005	Andromeda	
NGC 5915	01h 34m 33.4s	+35° 45' 37"	12.9	Galaxy	0.010x0.008	Andromeda	
NGC 605	01h 36m 06.2s	+41° 20' 22"	12.9	Galaxy	0.018x0.009	Andromeda	
NGC 6205	01h 38m 04.0s	+42° 24' 51"	12.9	Galaxy	0.008x0.007	Andromeda	M13, Hercules cluster
NGC 7462	01h 58m 58.2s	+45° 00' 20"	12.9	Galaxy	0.014x0.008	Andromeda	
IC 65	01h 01m 57.7s	+47° 46' 42"	12.9	Galaxy	0.025x0.007	Andromeda	
IC 4776	01h 22m 22.8s	+40° 34' 57"	13.0	Galaxy	0.012x0.007	Andromeda	
NGC 5904	01h 34m 45.7s	+45° 01' 16"	13.0	Galaxy	0.021x0.010	Andromeda	M5

Table 42: Main objects visible on chart 35 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6341	01h 39m 21.1s	+35° 27' 21"	13.0	Galaxy	0.017x0.005	Triangulum	M92
NGC 6626	01h 45m 39.1s	+37° 47' 10"	13.0	Galaxy	0.006x0.004	Andromeda	M28
NGC 6681	01h 47m 26.0s	+36° 32' 58"	13.1	Galaxy	0.015x0.01	Andromeda	M70
NGC 7142	01h 54m 33.4s	+36° 18' 34"	13.1	Galaxy	0.012x0.003	Andromeda	
NGC 801	02h 04m 50.1s	+38° 20' 43"	13.1	Galaxy	0.025x0.005	Andromeda	
NGC 5739	01h 31m 52.9s	+41° 20' 58"	13.2	Galaxy	0.003x0.003	Andromeda	
NGC 5629	01h 29m 34.9s	+48° 28' 47"	13.3	Galaxy	0.010x0.009	Andromeda	
NGC 7039	01h 53m 43.3s	+36° 15' 38"	13.3	Galaxy	0.007x0.005	Andromeda	
IC 178	01h 59m 59.2s	+36° 45' 43"	13.3	Galaxy	0.010x0.007	Andromeda	
317B	00h 58m 41.7s	+43° 53' 20"	13.4	Galaxy	0.009x0.004	Andromeda	317B
317A	00h 58m 40.2s	+43° 53' 54"	13.5	Galaxy	0.011x0.010	Andromeda	317A
NGC 6530	01h 43m 28.5s	+35° 43' 44"	13.5	Galaxy	0.012x0.001	Andromeda	
NGC 7213	01h 55m 50.3s	+39° 28' 15"	13.5	Galaxy	0.014x0.008	Andromeda	
NGC 7329	01h 57m 31.9s	+36° 53' 23"	13.5	Galaxy	0.011x0.008	Andromeda	
NGC 7059	01h 53m 45.3s	+36° 13' 58"	13.6	Galaxy	0.01x0.0025	Andromeda	
NGC 7107	01h 53m 57.7s	+36° 08' 29"	13.7	Galaxy	0.010x0.01	Andromeda	
NGC 7177	01h 54m 58.8s	+36° 19' 04"	13.9	Galaxy	0.010x0.001	Andromeda	
NGC 2060	00h 41m 31.3s	+40° 50' 13"	14.0	Galpart	0.035x0.035	Andromeda	
NGC 3893	01h 09m 31.1s	+39° 47' 27"	14.0	Galaxy	0.010x0.003	Andromeda	
IC 1732	01h 51m 51.5s	+36° 01' 18"	14.0	Galaxy	0.012x0.003	Andromeda	
NGC 7092	01h 53m 54.3s	+36° 18' 41"	14.3	Galaxy	0.008x0.004	Andromeda	M39
NGC 7000	01h 53m 20.4s	+36° 07' 30"	14.6	Galaxy	0.006x0.005	Andromeda	CALDWELL 20, North America nebula
704-2	01h 53m 41.7s	+36° 12' 46"	14.6	Galaxy	0.003x0.003	Andromeda	704-2
IC 1647	01h 14m 16.0s	+38° 58' 49"	15.0	Galaxy	0.005x0.002	Andromeda	

7.37 Main objects visible on chart 36

Table 43: Main objects visible on chart 36

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel20	03h 23m 16.8s	+49° 03' 49"	1.2	Open cluster	1.541x1.541	Perseus	Alpha Persei cluster
NGC 1039	02h 43m 14.9s	+42° 50' 16"	5.2	Open cluster	0.208x0.208	Perseus	M34
NGC 752	01h 58m 39.6s	+37° 55' 14"	5.7	Open cluster	0.625x0.625	Andromeda	CALDWELL 28
NGC 1245	03h 15m 56.4s	+47° 18' 16"	8.4	Open cluster	0.083x0.083	Perseus	
NGC 956	02h 33m 25.0s	+44° 43' 31"	9.0	Open cluster	0.075x0.075	Andromeda	
NGC 1023	02h 41m 32.1s	+39° 08' 23"	9.4	Galaxy	0.061x0.020	Perseus	
NGC 891	02h 23m 41.2s	+42° 25' 43"	9.9	Galaxy	0.097x0.013	Andromeda	CALDWELL 23
NGC 1161	03h 02m 26.6s	+44° 58' 04"	11.0	Galaxy	0.023x0.016	Perseus	
IC 239	02h 37m 35.6s	+39° 02' 47"	11.1	Galaxy	0.038x0.035	Andromeda	
NGC 1058	02h 44m 37.3s	+37° 25' 01"	11.2	Galaxy	0.020x0.020	Perseus	
NGC 1169	03h 04m 48.3s	+46° 27' 21"	11.3	Galaxy	0.033x0.021	Perseus	
NGC 812	02h 07m 59.6s	+44° 39' 27"	11.3	Galaxy	0.018x0.006	Andromeda	
NGC 1186	03h 06m 42.5s	+42° 54' 16"	11.4	Galaxy	0.026x0.01	Perseus	
NGC 1003	02h 40m 25.3s	+40° 56' 59"	11.5	Galaxy	0.035x0.010	Perseus	

Table 43: Main objects visible on chart 36 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 284	03h 07m 21.2s	+42° 26' 25"	11.5	Galaxy	0.031x0.01	Perseus	
NGC 1272	03h 20m 33.0s	+41° 33' 18"	11.8	Galaxy	0.018x0.016	Perseus	
NGC 949	02h 31m 55.3s	+37° 12' 54"	11.8	Galaxy	0.025x0.013	Triangulum	
NGC 1275	03h 20m 59.8s	+41° 34' 32"	11.9	Galaxy	0.019x0.013	Perseus	CALDWELL 24, Perseus A
NGC 1123	02h 54m 01.5s	+42° 16' 41"	12.1	Galaxy	0.015x0.010	Perseus	
NGC 1265	03h 19m 27.6s	+41° 55' 21"	12.1	Galaxy	0.015x0.013	Perseus	
NGC 846	02h 13m 20.4s	+44° 39' 07"	12.1	Galaxy	0.015x0.014	Andromeda	
NGC 910	02h 26m 35.0s	+41° 54' 17"	12.2	Galaxy	0.013x0.013	Andromeda	
IC 171	01h 56m 13.9s	+35° 22' 11"	12.2	Galaxy	0.011x0.008	Triangulum	
NGC 1106	02h 51m 50.4s	+41° 44' 45"	12.3	Galaxy	0.010x0.008	Perseus	
NGC 1171	03h 05m 10.7s	+43° 28' 02"	12.3	Galaxy	0.015x0.008	Perseus	
NGC 6871	01h 51m 36.8s	+36° 27' 34"	12.3	Galaxy	0.011x0.011	Andromeda	
NGC 7531	01h 58m 46.4s	+36° 00' 11"	12.3	Galaxy	0.025x0.015	Andromeda	
NGC 828	02h 11m 15.5s	+39° 16' 32"	12.3	Galaxy	0.020x0.013	Andromeda	
NGC 1129	02h 55m 37.4s	+41° 39' 08"	12.4	Galaxy	0.024x0.017	Perseus	
NGC 1167	03h 02m 49.8s	+35° 16' 34"	12.4	Galaxy	0.027x0.019	Perseus	
NGC 1278	03h 21m 05.8s	+41° 37' 40"	12.4	Galaxy	0.011x0.009	Perseus	
NGC 959	02h 33m 30.0s	+35° 34' 25"	12.4	Galaxy	0.019x0.011	Triangulum	
NGC 1198	03h 07m 24.4s	+41° 55' 03"	12.5	Galaxy	0.011x0.006	Perseus	
NGC 818	02h 09m 50.1s	+38° 51' 43"	12.5	Galaxy	0.024x0.01	Andromeda	
NGC 982	02h 36m 33.3s	+40° 56' 50"	12.5	Galaxy	0.012x0.005	Andromeda	
NGC 1193	03h 07m 07.5s	+44° 27' 08"	12.6	Open cluster	0.025x0.025	Perseus	
NGC 841	02h 12m 22.8s	+37° 34' 54"	12.6	Galaxy	0.015x0.008	Andromeda	
IC 179	02h 01m 16.3s	+38° 06' 29"	12.6	Galaxy	0.013x0.01	Andromeda	
IC 257	02h 50m 58.0s	+47° 02' 58"	12.6	Galaxy	0.011x0.006	Perseus	
NGC 1207	03h 09m 24.8s	+38° 27' 01"	12.7	Galaxy	0.019x0.013	Perseus	
NGC 7089	01h 53m 50.1s	+36° 14' 26"	12.7	Galaxy	0.025x0.020	Andromeda	M2
NGC 7590	01h 58m 54.4s	+36° 25' 49"	12.7	Galaxy	0.011x0.011	Andromeda	
NGC 797	02h 04m 33.0s	+38° 12' 12"	12.7	Galaxy	0.013x0.010	Andromeda	
NGC 911	02h 26m 50.7s	+42° 02' 14"	12.7	Galaxy	0.010x0.005	Andromeda	
IC 310	03h 17m 54.4s	+41° 23' 24"	12.7	Galaxy	0.009x0.009	Perseus	
NGC 1086	02h 49m 05.7s	+41° 19' 16"	12.8	Galaxy	0.012x0.008	Perseus	
NGC 1138	02h 57m 47.4s	+43° 07' 08"	12.8	Galaxy	0.009x0.009	Perseus	
NGC 1160	03h 02m 25.7s	+45° 01' 33"	12.8	Galaxy	0.012x0.005	Perseus	
704-1	01h 53m 41.4s	+36° 12' 55"	12.8	Galaxy	0.005x0.003	Andromeda	704-1
NGC 7128	01h 54m 12.3s	+36° 54' 28"	12.8	Galaxy	0.008x0.005	Andromeda	
NGC 1040-1	02h 44m 21.8s	+41° 34' 33"	12.9	Galaxy	0.014x0.006	Perseus	1040-1
NGC 1175	03h 05m 43.5s	+42° 24' 34"	12.9	Galaxy	0.015x0.005	Perseus	
NGC 1226	03h 12m 13.4s	+35° 27' 13"	12.9	Galaxy	0.013x0.010	Perseus	
NGC 1250	03h 16m 32.3s	+41° 25' 17"	12.9	Galaxy	0.017x0.005	Perseus	
NGC 1282	03h 21m 23.6s	+41° 25' 52"	12.9	Galaxy	0.01x0.005	Perseus	
NGC 7462	01h 58m 58.2s	+45° 00' 20"	12.9	Galaxy	0.014x0.008	Andromeda	
NGC 898	02h 24m 28.3s	+42° 01' 58"	12.9	Galaxy	0.015x0.003	Andromeda	
NGC 906	02h 26m 24.5s	+42° 10' 15"	12.9	Galaxy	0.015x0.013	Andromeda	
NGC 914	02h 27m 13.5s	+42° 13' 30"	13.0	Galaxy	0.012x0.009	Andromeda	
NGC 980	02h 36m 27.0s	+41° 00' 17"	13.0	Galaxy	0.014x0.007	Andromeda	

Table 43: Main objects visible on chart 36 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 996	02h 39m 48.7s	+41° 43' 27"	13.0	Galaxy	0.01x0.01	Andromeda	
NGC 1164	03h 03m 11.0s	+42° 39' 20"	13.1	Galaxy	0.010x0.009	Perseus	
NGC 1267	03h 19m 56.4s	+41° 31' 56"	13.1	Galaxy	0.009x0.007	Perseus	
NGC 1270	03h 20m 09.7s	+41° 32' 05"	13.1	Galaxy	0.007x0.005	Perseus	
NGC 7142	01h 54m 33.4s	+36° 18' 34"	13.1	Galaxy	0.012x0.003	Andromeda	
NGC 801	02h 04m 50.1s	+38° 20' 43"	13.1	Galaxy	0.025x0.005	Andromeda	
NGC 834	02h 12m 06.7s	+37° 45' 01"	13.1	Galaxy	0.009x0.004	Andromeda	
NGC 1233	03h 13m 43.2s	+39° 23' 09"	13.2	Galaxy	0.015x0.005	Perseus	
NGC 1273	03h 20m 38.5s	+41° 36' 16"	13.2	Galaxy	0.006x0.005	Perseus	
NGC 1294	03h 22m 51.7s	+41° 25' 27"	13.2	Galaxy	0.009x0.006	Perseus	
NGC 1334	03h 31m 14.2s	+41° 53' 36"	13.2	Galaxy	0.012x0.005	Perseus	
NGC 946	02h 31m 47.2s	+42° 18' 44"	13.2	Galaxy	0.012x0.008	Andromeda	
IC 260	02h 52m 13.8s	+47° 01' 42"	13.2	Galaxy	0.008x0.005	Perseus	
IC 262	02h 52m 53.8s	+42° 54' 06"	13.2	Galaxy	0.013x0.011	Perseus	
IC 278	03h 02m 39.1s	+37° 50' 12"	13.2	Galaxy	0.009x0.009	Perseus	
IC 301	03h 15m 59.5s	+42° 17' 20"	13.2	Galaxy	0.006x0.006	Perseus	
NGC 1260	03h 18m 38.7s	+41° 28' 13"	13.3	Galaxy	0.009x0.004	Perseus	
NGC 1281	03h 21m 18.1s	+41° 41' 38"	13.3	Galaxy	0.007x0.003	Perseus	
NGC 7039	01h 53m 43.3s	+36° 15' 38"	13.3	Galaxy	0.007x0.005	Andromeda	
IC 178	01h 59m 59.2s	+36° 45' 43"	13.3	Galaxy	0.010x0.007	Andromeda	
NGC 1268	03h 19m 56.8s	+41° 33' 14"	13.4	Galaxy	0.007x0.005	Perseus	
NGC 1293	03h 22m 48.1s	+41° 27' 25"	13.4	Galaxy	0.007x0.007	Perseus	
NGC 995	02h 39m 40.9s	+41° 36' 21"	13.4	Galaxy	0.010x0.005	Andromeda	
IC 312	03h 19m 20.1s	+41° 49' 09"	13.4	Galaxy	0.008x0.004	Perseus	
NGC 1159	03h 01m 57.8s	+43° 13' 60"	13.5	Galaxy	0.004x0.003	Perseus	
NGC 7213	01h 55m 50.3s	+39° 28' 15"	13.5	Galaxy	0.014x0.008	Andromeda	
NGC 7329	01h 57m 31.9s	+36° 53' 23"	13.5	Galaxy	0.011x0.008	Andromeda	
NGC 845	02h 13m 25.2s	+37° 33' 41"	13.5	Galaxy	0.014x0.003	Andromeda	
NGC 999	02h 39m 56.5s	+41° 44' 53"	13.5	Galaxy	0.01x0.006	Andromeda	
IC 292	03h 11m 23.6s	+40° 49' 60"	13.5	Galaxy	0.01x0.005	Perseus	
IC 309	03h 17m 17.3s	+40° 52' 13"	13.5	Galaxy	0.007x0.007	Perseus	
NGC 1023A	02h 41m 44.9s	+39° 08' 12"	13.6	Galaxy	0.010x0.005	Perseus	1023A
NGC 1077A	02h 47m 09.4s	+40° 09' 54"	13.6	Galaxy	0.009x0.006	Perseus	1077A
IC 1277	03h 21m 03.1s	+41° 38' 18"	13.6	Galaxy	0.006x0.002	Perseus	
NGC 1283	03h 21m 27.2s	+41° 27' 46"	13.6	Galaxy	0.005x0.005	Perseus	
NGC 7059	01h 53m 45.3s	+36° 13' 58"	13.6	Galaxy	0.01x0.0025	Andromeda	
NGC 7107	01h 53m 57.7s	+36° 08' 29"	13.7	Galaxy	0.010x0.01	Andromeda	
NGC 909	02h 26m 31.0s	+42° 07' 00"	13.7	Galaxy	0.007x0.007	Andromeda	
IC 920	02h 29m 56.3s	+46° 03' 03"	13.7	Galaxy	0.009x0.003	Andromeda	
NGC 923	02h 28m 43.0s	+42° 03' 29"	13.7	Galaxy	0.006x0.005	Andromeda	
IC 1874	03h 07m 30.0s	+36° 05' 01"	13.7	Galaxy	0.008x0.005	Perseus	
IC 320	03h 27m 10.8s	+40° 51' 05"	13.7	Galaxy	0.01x0.009	Perseus	
NGC 1005	02h 40m 36.6s	+41° 34' 12"	13.8	Galaxy	0.008x0.006	Perseus	
NGC 1335	03h 31m 31.7s	+41° 38' 02"	13.8	Galaxy	0.009x0.005	Perseus	
NGC 861	02h 16m 56.2s	+35° 59' 49"	13.8	Galaxy	0.012x0.004	Triangulum	
IC 304	03h 16m 10.9s	+37° 56' 52"	13.8	Galaxy	0.009x0.005	Perseus	

Table 43: Main objects visible on chart 36 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1271	03h 20m 22.8s	+41° 25' 05"	13.9	Galaxy	0.004x0.001	Perseus	
NGC 7177	01h 54m 58.8s	+36° 19' 04"	13.9	Galaxy	0.010x0.001	Andromeda	
IC 933	02h 30m 27.9s	+45° 59' 29"	13.9	Galaxy	0.010x0.007	Andromeda	
IC 294	03h 12m 13.8s	+40° 41' 20"	13.9	Galaxy	0.017x0.012	Perseus	
IC 295	03h 12m 13.8s	+40° 41' 20"	13.9	Galaxy	0.017x0.012	Perseus	
NGC 1224	03h 12m 24.6s	+41° 25' 50"	14.0	Galaxy	0.008x0.006	Perseus	
IC 1732	01h 51m 51.5s	+36° 01' 18"	14.0	Galaxy	0.012x0.003	Andromeda	
IC 1900	03h 17m 04.4s	+37° 13' 13"	14.0	Galaxy	0.004x0.003	Perseus	
IC 1934	03h 32m 27.0s	+42° 51' 11"	14.0	Galaxy	0.01x0.004	Perseus	
IC 1264	03h 19m 11.1s	+41° 35' 07"	14.1	Galaxy	0.008x0.004	Perseus	
NGC 1274	03h 20m 52.3s	+41° 36' 50"	14.1	Galaxy	0.006x0.002	Perseus	
IC 912	02h 26m 50.9s	+41° 51' 31"	14.1	Galaxy	0.007x0.006	Andromeda	
IC 258	02h 50m 55.4s	+41° 07' 33"	14.1	Galaxy	0.008x0.005	Perseus	
IC 305	03h 16m 13.2s	+37° 55' 35"	14.1	Galaxy	0.006x0.005	Perseus	
IC 311	03h 17m 57.5s	+40° 04' 10"	14.1	Galaxy	0.007x0.005	Perseus	
IC 313	03h 22m 09.9s	+41° 57' 29"	14.1	Galaxy	0.007x0.006	Perseus	
NGC 1227	03h 12m 15.8s	+35° 23' 33"	14.2	Galaxy	0.008x0.007	Perseus	
NGC 937	02h 30m 36.8s	+42° 19' 45"	14.2	Galaxy	0.009x0.004	Andromeda	
IC 288	03h 08m 44.2s	+42° 27' 22"	14.2	Galaxy	0.008x0.002	Perseus	
IC 308	03h 17m 27.2s	+41° 14' 49"	14.2	Galaxy	0.01x0.01	Perseus	
IC 316-1	03h 22m 31.9s	+41° 59' 33"	14.2	Galaxy	0.004x8.333	Perseus	IC 316-1
IC 316-2	03h 22m 31.9s	+41° 59' 45"	14.2	Galaxy	0.011x0.005	Perseus	IC 316-2
IC 1259-2	03h 18m 28.8s	+41° 27' 02"	14.3	Galaxy	0.005x0.005	Perseus	IC 1259-2
NGC 7092	01h 53m 54.3s	+36° 18' 41"	14.3	Galaxy	0.008x0.004	Andromeda	M39
IC 259	02h 50m 50.3s	+41° 07' 46"	14.3	Galaxy	0.005x0.005	Perseus	
IC 293	03h 12m 07.1s	+41° 12' 18"	14.3	Galaxy	0.005x0.003	Perseus	
NGC 1213	03h 10m 26.8s	+38° 43' 01"	14.4	Galaxy	0.015x0.011	Perseus	
IC 1000	02h 39m 58.7s	+41° 32' 14"	14.6	Galaxy	0.005x0.005	Andromeda	
IC 1131	02h 55m 44.1s	+41° 37' 53"	14.6	Galaxy	0.003x0.003	Perseus	
NGC 1177	03h 05m 48.4s	+42° 25' 55"	14.6	Galaxy	0.003x0.003	Perseus	
NGC 1212	03h 10m 53.0s	+40° 57' 38"	14.6	Galaxy	0.008x0.004	Perseus	
NGC 7000	01h 53m 20.4s	+36° 07' 30"	14.6	Galaxy	0.006x0.005	Andromeda	CALDWELL 20, North America nebula
704-2	01h 53m 41.7s	+36° 12' 46"	14.6	Galaxy	0.003x0.003	Andromeda	704-2
IC 1902	03h 17m 21.6s	+37° 14' 37"	14.6	Galaxy	0.003x0.003	Perseus	
IC 265	02h 55m 54.1s	+41° 43' 41"	14.6	Galaxy	0.005x0.005	Perseus	
IC 1001	02h 40m 21.7s	+41° 44' 55"	14.8	Galaxy	0.005x0.002	Perseus	
IC 266	02h 56m 15.2s	+42° 20' 10"	14.8	Galaxy	0.005x0.003	Perseus	
IC 290	03h 10m 53.6s	+41° 02' 33"	14.8	Galaxy	0.009x0.001	Perseus	
IC 1901	03h 17m 11.6s	+37° 10' 43"	14.9	Galaxy	0.006x0.001	Perseus	
IC 1279	03h 21m 10.8s	+41° 32' 38"	15.0	Galaxy	0.005x0.003	Perseus	
IC 913	02h 26m 53.0s	+41° 52' 47"	15.0	Galaxy	0.004x0.001	Andromeda	
IC 300	03h 15m 27.7s	+42° 28' 52"	15.0	Galaxy	0.002x0.002	Perseus	
IC 1130	02h 55m 34.6s	+41° 40' 43"	15.1	Galaxy	0.004x0.002	Perseus	
NGC 1040-2	02h 44m 21.4s	+41° 35' 27"	15.3	Galaxy	0.003x0.001	Perseus	1040-2

Table 43: Main objects visible on chart 36 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 275-3	03h 02m 10.7s	+44° 25' 15"	15.6	Galaxy	0.001x0.001	Perseus	

7.38 Main objects visible on chart 37

Table 44: Main objects visible on chart 37

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel20	03h 23m 16.8s	+49° 03' 49"	1.2	Open cluster	1.541x1.541	Perseus	Alpha Persei cluster
NGC 1342	03h 32m 48.1s	+37° 26' 13"	6.7	Open cluster	0.141x0.141	Perseus	
NGC 1582	04h 32m 55.7s	+43° 46' 51"	7.0	Open cluster	0.2x0.2	Perseus	
NGC 1664	04h 52m 22.7s	+43° 42' 20"	7.6	Open cluster	0.15x0.15	Auriga	
NGC 1245	03h 15m 56.4s	+47° 18' 16"	8.4	Open cluster	0.083x0.083	Perseus	
NGC 1605	04h 36m 10.2s	+45° 18' 27"	10.7	Open cluster	0.041x0.041	Perseus	
NGC 1169	03h 04m 48.3s	+46° 27' 21"	11.3	Galaxy	0.033x0.021	Perseus	
IC 284	03h 07m 21.2s	+42° 26' 25"	11.5	Galaxy	0.031x0.01	Perseus	
NGC 1272	03h 20m 33.0s	+41° 33' 18"	11.8	Galaxy	0.018x0.016	Perseus	
NGC 1275	03h 20m 59.8s	+41° 34' 32"	11.9	Galaxy	0.019x0.013	Perseus	CALDWELL 24, Perseus A
NGC 1265	03h 19m 27.6s	+41° 55' 21"	12.1	Galaxy	0.015x0.013	Perseus	
NGC 1278	03h 21m 05.8s	+41° 37' 40"	12.4	Galaxy	0.011x0.009	Perseus	
NGC 1193	03h 07m 07.5s	+44° 27' 08"	12.6	Open cluster	0.025x0.025	Perseus	
IC 310	03h 17m 54.4s	+41° 23' 24"	12.7	Galaxy	0.009x0.009	Perseus	
NGC 1250	03h 16m 32.3s	+41° 25' 17"	12.9	Galaxy	0.017x0.005	Perseus	
NGC 1282	03h 21m 23.6s	+41° 25' 52"	12.9	Galaxy	0.01x0.005	Perseus	
NGC 1267	03h 19m 56.4s	+41° 31' 56"	13.1	Galaxy	0.009x0.007	Perseus	
NGC 1270	03h 20m 09.7s	+41° 32' 05"	13.1	Galaxy	0.007x0.005	Perseus	
NGC 1233	03h 13m 43.2s	+39° 23' 09"	13.2	Galaxy	0.015x0.005	Perseus	
NGC 1273	03h 20m 38.5s	+41° 36' 16"	13.2	Galaxy	0.006x0.005	Perseus	
NGC 1294	03h 22m 51.7s	+41° 25' 27"	13.2	Galaxy	0.009x0.006	Perseus	
NGC 1334	03h 31m 14.2s	+41° 53' 36"	13.2	Galaxy	0.012x0.005	Perseus	
IC 301	03h 15m 59.5s	+42° 17' 20"	13.2	Galaxy	0.006x0.006	Perseus	
NGC 1260	03h 18m 38.7s	+41° 28' 13"	13.3	Galaxy	0.009x0.004	Perseus	
NGC 1281	03h 21m 18.1s	+41° 41' 38"	13.3	Galaxy	0.007x0.003	Perseus	
NGC 1268	03h 19m 56.8s	+41° 33' 14"	13.4	Galaxy	0.007x0.005	Perseus	
NGC 1293	03h 22m 48.1s	+41° 27' 25"	13.4	Galaxy	0.007x0.007	Perseus	
IC 312	03h 19m 20.1s	+41° 49' 09"	13.4	Galaxy	0.008x0.004	Perseus	
IC 292	03h 11m 23.6s	+40° 49' 60"	13.5	Galaxy	0.01x0.005	Perseus	
IC 309	03h 17m 17.3s	+40° 52' 13"	13.5	Galaxy	0.007x0.007	Perseus	
IC 1277	03h 21m 03.1s	+41° 38' 18"	13.6	Galaxy	0.006x0.002	Perseus	
NGC 1283	03h 21m 27.2s	+41° 27' 46"	13.6	Galaxy	0.005x0.005	Perseus	
IC 320	03h 27m 10.8s	+40° 51' 05"	13.7	Galaxy	0.01x0.009	Perseus	
NGC 1335	03h 31m 31.7s	+41° 38' 02"	13.8	Galaxy	0.009x0.005	Perseus	
IC 304	03h 16m 10.9s	+37° 56' 52"	13.8	Galaxy	0.009x0.005	Perseus	
NGC 1271	03h 20m 22.8s	+41° 25' 05"	13.9	Galaxy	0.004x0.001	Perseus	
IC 294	03h 12m 13.8s	+40° 41' 20"	13.9	Galaxy	0.017x0.012	Perseus	
IC 295	03h 12m 13.8s	+40° 41' 20"	13.9	Galaxy	0.017x0.012	Perseus	

Table 44: Main objects visible on chart 37 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1224	03h 12m 24.6s	+41° 25' 50"	14.0	Galaxy	0.008x0.006	Perseus	
IC 1900	03h 17m 04.4s	+37° 13' 13"	14.0	Galaxy	0.004x0.003	Perseus	
IC 1934	03h 32m 27.0s	+42° 51' 11"	14.0	Galaxy	0.01x0.004	Perseus	
IC 1264	03h 19m 11.1s	+41° 35' 07"	14.1	Galaxy	0.008x0.004	Perseus	
NGC 1274	03h 20m 52.3s	+41° 36' 50"	14.1	Galaxy	0.006x0.002	Perseus	
IC 2027	04h 07m 51.0s	+37° 09' 47"	14.1	Galaxy	0.003x0.003	Perseus	
IC 305	03h 16m 13.2s	+37° 55' 35"	14.1	Galaxy	0.006x0.005	Perseus	
IC 311	03h 17m 57.5s	+40° 04' 10"	14.1	Galaxy	0.007x0.005	Perseus	
IC 313	03h 22m 09.9s	+41° 57' 29"	14.1	Galaxy	0.007x0.006	Perseus	
IC 288	03h 08m 44.2s	+42° 27' 22"	14.2	Galaxy	0.008x0.002	Perseus	
IC 308	03h 17m 27.2s	+41° 14' 49"	14.2	Galaxy	0.01x0.01	Perseus	
IC 316-1	03h 22m 31.9s	+41° 59' 33"	14.2	Galaxy	0.004x8.333	Perseus	IC 316-1
IC 316-2	03h 22m 31.9s	+41° 59' 45"	14.2	Galaxy	0.011x0.005	Perseus	IC 316-2
IC 1259-2	03h 18m 28.8s	+41° 27' 02"	14.3	Galaxy	0.005x0.005	Perseus	IC 1259-2
IC 293	03h 12m 07.1s	+41° 12' 18"	14.3	Galaxy	0.005x0.003	Perseus	
NGC 1213	03h 10m 26.8s	+38° 43' 01"	14.4	Galaxy	0.015x0.011	Perseus	
NGC 1212	03h 10m 53.0s	+40° 57' 38"	14.6	Galaxy	0.008x0.004	Perseus	
IC 1902	03h 17m 21.6s	+37° 14' 37"	14.6	Galaxy	0.003x0.003	Perseus	
IC 2005	03h 58m 50.4s	+36° 50' 18"	14.8	Galaxy	0.003x8.333	Perseus	
IC 290	03h 10m 53.6s	+41° 02' 33"	14.8	Galaxy	0.009x0.001	Perseus	
IC 1901	03h 17m 11.6s	+37° 10' 43"	14.9	Galaxy	0.006x0.001	Perseus	
IC 1279	03h 21m 10.8s	+41° 32' 38"	15.0	Galaxy	0.005x0.003	Perseus	
IC 300	03h 15m 27.7s	+42° 28' 52"	15.0	Galaxy	0.002x0.002	Perseus	

7.39 Main objects visible on chart 38

Table 45: Main objects visible on chart 38

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1912	05h 29m 55.6s	+35° 52' 06"	6.4	Open cluster	0.125x0.125	Auriga	M38
NGC 1582	04h 32m 55.7s	+43° 46' 51"	7.0	Open cluster	0.2x0.2	Perseus	
NGC 1857	05h 21m 19.8s	+39° 21' 38"	7.0	Open cluster	0.083x0.083	Auriga	
NGC 1664	04h 52m 22.7s	+43° 42' 20"	7.6	Open cluster	0.15x0.15	Auriga	
NGC 1778	05h 09m 18.0s	+37° 02' 44"	7.7	Open cluster	0.066x0.066	Auriga	
NGC 1907	05h 29m 16.7s	+35° 20' 21"	8.2	Open cluster	0.041x0.041	Auriga	
NGC 1798	05h 13m 00.5s	+47° 42' 58"	10.0	Open cluster	0.041x0.041	Auriga	
IC 2149	05h 57m 44.2s	+46° 06' 24"	10.6	Planetary Nebula	0.004x0.004	Auriga	
NGC 1605	04h 36m 10.2s	+45° 18' 27"	10.7	Open cluster	0.041x0.041	Perseus	
NGC 1883	05h 27m 14.5s	+46° 30' 17"	12.0	Open cluster	0.041x0.041	Auriga	

7.40 Main objects visible on chart 39

Table 46: Main objects visible on chart 39

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2281	06h 49m 33.6s	+41° 03' 28"	5.4	Open cluster	0.208x0.208	Auriga	
NGC 2240	06h 34m 22.7s	+35° 14' 09"	10.0	Open cluster	0.0x0.0	Auriga	
IC 2149	05h 57m 44.2s	+46° 06' 24"	10.6	Planetary Nebula	0.004x0.004	Auriga	
NGC 2192	06h 16m 32.8s	+39° 50' 54"	10.9	Open cluster	0.041x0.041	Auriga	
NGC 2344	07h 13m 48.6s	+47° 08' 09"	12.0	Galaxy	0.0125x0.01	Lynx	
NGC 2337	07h 11m 31.4s	+44° 25' 35"	12.4	Galaxy	0.017x0.011	Lynx	
NGC 2303	06h 57m 36.5s	+45° 28' 07"	12.6	Galaxy	0.012x0.012	Auriga	
NGC 2308	06h 59m 56.3s	+45° 11' 08"	13.2	Galaxy	0.015x0.01	Lynx	
NGC 2333	07h 09m 32.7s	+35° 08' 25"	13.3	Galaxy	0.008x0.005	Gemini	
NGC 2242	06h 35m 26.3s	+44° 45' 45"	15.0	Planetary Nebula	0.003x0.003	Auriga	

7.41 Main objects visible on chart 40

Table 47: Main objects visible on chart 40

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2419	07h 39m 21.5s	+38° 50' 26"	10.3	Globular cluster	0.038x0.038	Lynx	CALDWELL 25, Intergalactic wanderer
NGC 2537	08h 14m 30.5s	+45° 56' 10"	11.7	Galaxy	0.014x0.012	Lynx	Bear claw/paw galaxy
NGC 2543	08h 14m 07.9s	+36° 11' 54"	11.9	Galaxy	0.019x0.01	Lynx	
NGC 2344	07h 13m 48.6s	+47° 08' 09"	12.0	Galaxy	0.0125x0.01	Lynx	
NGC 2493	08h 01m 36.5s	+39° 46' 49"	12.0	Galaxy	0.015x0.015	Lynx	
NGC 2666	08h 51m 00.2s	+44° 38' 12"	12.1	Open cluster	0.0x0.0	Lynx	
NGC 2649	08h 45m 16.0s	+34° 39' 05"	12.3	Galaxy	0.012x0.011	Lynx	
NGC 2337	07h 11m 31.4s	+44° 25' 35"	12.4	Galaxy	0.017x0.011	Lynx	
NGC 2415	07h 38m 07.3s	+35° 12' 02"	12.4	Galaxy	0.007x0.007	Lynx	
NGC 2424	07h 41m 52.4s	+39° 11' 26"	12.6	Galaxy	0.03x0.004	Lynx	
NGC 2476	07h 57m 58.1s	+39° 52' 43"	12.6	Galaxy	0.011x0.006	Lynx	
NGC 2528	08h 08m 37.0s	+39° 08' 30"	12.6	Galaxy	0.012x0.012	Lynx	
IC 2233	08h 15m 14.9s	+45° 41' 03"	12.6	Galaxy	0.038x0.004	Lynx	
NGC 2524	08h 09m 21.5s	+39° 06' 16"	12.7	Galaxy	0.011x0.008	Lynx	
NGC 2638	08h 43m 35.0s	+37° 09' 19"	12.8	Galaxy	0.014x0.005	Lynx	
NGC 2484	07h 59m 39.6s	+37° 44' 13"	13.0	Galaxy	0.007x0.006	Lynx	
NGC 2444	07h 48m 05.7s	+38° 59' 14"	13.2	Galaxy	0.013x0.007	Lynx	
NGC 2445	07h 48m 07.7s	+38° 58' 13"	13.3	Galaxy	0.014x0.010	Lynx	
NGC 2676	08h 52m 50.2s	+47° 29' 24"	13.4	Galaxy	0.01x0.01	Ursa Major	
IC 2225	08h 06m 38.3s	+35° 53' 40"	13.9	Galaxy	0.007x0.005	Lynx	
IC 2190	07h 31m 06.6s	+37° 24' 47"	14.0	Galaxy	0.007x0.004	Auriga	
IC 2227	08h 08m 17.4s	+36° 10' 49"	14.1	Galaxy	0.005x0.005	Lynx	
IC 2385	08h 36m 20.2s	+37° 12' 10"	14.3	Galaxy	0.005x0.004	Lynx	
IC 2400	08h 49m 08.4s	+38° 00' 06"	14.3	Galaxy	0.006x0.002	Lynx	
IC 2222	08h 06m 25.9s	+37° 25' 13"	14.5	Galaxy	0.003x0.001	Lynx	
IC 2224	08h 07m 01.3s	+37° 24' 26"	14.5	Galaxy	0.003x0.003	Lynx	
IC 2495	08h 01m 45.9s	+39° 47' 24"	15.2	Galaxy	0.003x0.001	Lynx	
IC 2221	08h 06m 19.1s	+37° 23' 54"	15.2	Galaxy	0.001x0.001	Lynx	

Table 47: Main objects visible on chart 40 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2537A	08h 14m 57.2s	+45° 56' 16"	15.4	Galaxy	0.005x0.005	Lynx	2537A
IC 2234	08h 15m 01.2s	+35° 26' 16"	15.5	Galaxy	0.002x0.002	Lynx	

7.42 Main objects visible on chart 41

Table 48: Main objects visible on chart 41

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2776	09h 13m 25.8s	+44° 52' 48"	11.6	Galaxy	0.023x0.020	Lynx	
NGC 2782	09h 15m 13.7s	+40° 02' 18"	11.6	Galaxy	0.030x0.02	Lynx	
NGC 2666	08h 51m 00.2s	+44° 38' 12"	12.1	Open cluster	0.0x0.0	Lynx	
NGC 2712	09h 00m 42.9s	+44° 50' 35"	12.1	Galaxy	0.023x0.012	Lynx	
NGC 2798	09h 18m 32.3s	+41° 55' 26"	12.3	Galaxy	0.023x0.007	Lynx	
NGC 2998	09h 49m 51.5s	+43° 59' 50"	12.5	Galaxy	0.0225x0.01	Ursa Major	
NGC 3074	10h 00m 45.1s	+35° 18' 23"	12.7	Galaxy	0.019x0.017	Leo Minor	
NGC 2638	08h 43m 35.0s	+37° 09' 19"	12.8	Galaxy	0.014x0.005	Lynx	
NGC 2955	09h 42m 21.6s	+35° 48' 01"	12.9	Galaxy	0.012x0.005	Leo Minor	
NGC 2759	09h 09m 45.1s	+37° 32' 52"	13.0	Galaxy	0.008x0.005	Lynx	
NGC 2844	09h 22m 56.2s	+40° 04' 28"	13.0	Galaxy	0.014x0.006	Lynx	
NGC 3111	10h 07m 15.1s	+47° 10' 29"	13.0	Galaxy	0.007x0.006	Ursa Major	
NGC 2691	08h 55m 56.0s	+39° 28' 11"	13.1	Galaxy	0.007x0.004	Lynx	
NGC 2719	09h 01m 23.1s	+35° 39' 24"	13.1	Galaxy	0.009x0.002	Lynx	
NGC 2746	09h 07m 06.6s	+35° 18' 16"	13.1	Galaxy	0.013x0.012	Lynx	
NGC 2852	09h 24m 22.6s	+40° 05' 12"	13.2	Galaxy	0.008x0.005	Lynx	
IC 3104	10h 05m 02.4s	+40° 40' 10"	13.2	Galaxy	0.027x0.018	Leo Minor	
NGC 2755	09h 09m 08.2s	+41° 38' 07"	13.3	Galaxy	0.01x0.006	Lynx	
NGC 2853	09h 24m 25.5s	+40° 07' 21"	13.3	Galaxy	0.008x0.005	Lynx	
IC 527	09h 10m 49.6s	+37° 31' 41"	13.3	Galaxy	0.01x0.0075	Lynx	
NGC 2676	08h 52m 50.2s	+47° 29' 24"	13.4	Galaxy	0.01x0.01	Ursa Major	
NGC 2965	09h 44m 24.3s	+36° 09' 55"	13.4	Galaxy	0.01x0.0075	Leo Minor	
IC 2434	09h 08m 23.7s	+37° 08' 32"	13.4	Galaxy	0.012x0.005	Lynx	
NGC 2704	08h 57m 57.2s	+39° 18' 45"	13.5	Galaxy	0.008x0.008	Lynx	
NGC 3135	10h 12m 01.1s	+45° 51' 41"	13.5	Galaxy	0.007x0.005	Ursa Major	
NGC 2724	09h 02m 09.3s	+35° 41' 28"	13.6	Galaxy	0.015x0.013	Lynx	
NGC 3009	09h 51m 19.1s	+44° 12' 38"	13.6	Galaxy	0.006x0.005	Ursa Major	
NGC 2799	09h 18m 40.4s	+41° 55' 04"	13.7	Galaxy	0.015x0.004	Lynx	
NGC 2838	09h 21m 50.9s	+39° 14' 21"	13.7	Galaxy	0.007x0.007	Lynx	
NGC 2860	09h 26m 01.6s	+40° 58' 54"	13.7	Galaxy	0.012x0.005	Lynx	
IC 2668	08h 50m 31.1s	+36° 38' 35"	13.8	Galaxy	0.012x0.007	Lynx	
NGC 2840	09h 21m 58.9s	+35° 17' 28"	13.8	Galaxy	0.008x0.007	Lynx	
IC 2535	10h 05m 36.1s	+37° 55' 08"	13.8	Galaxy	0.006x0.005	Leo Minor	
NGC 2719A	09h 01m 23.4s	+35° 38' 58"	13.9	Galaxy	0.003x0.002	Lynx	2719A
IC 2493	09h 37m 23.6s	+37° 16' 59"	13.9	Galaxy	0.004x0.002	Leo Minor	
NGC 2922	09h 37m 58.8s	+37° 36' 48"	14.0	Galaxy	0.01x0.004	Leo Minor	
NGC 2971	09h 44m 51.3s	+36° 05' 48"	14.0	Galaxy	0.009x0.006	Leo Minor	

Table 48: Main objects visible on chart 41 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2461	09h 21m 05.0s	+37° 06' 50"	14.0	Galaxy	0.019x0.003	Lynx	
IC 2467	09h 25m 59.9s	+38° 16' 24"	14.0	Galaxy	0.005x0.005	Leo Minor	
NGC 2785	09h 16m 24.2s	+40° 50' 33"	14.1	Galaxy	0.012x0.004	Lynx	
IC 2516	09h 55m 53.3s	+37° 36' 06"	14.1	Galaxy	0.008x0.006	Leo Minor	
IC 2385	08h 36m 20.2s	+37° 12' 10"	14.3	Galaxy	0.005x0.004	Lynx	
IC 2400	08h 49m 08.4s	+38° 00' 06"	14.3	Galaxy	0.006x0.002	Lynx	
IC 2500	09h 43m 28.6s	+36° 15' 59"	14.3	Galaxy	0.009x0.002	Leo Minor	
IC 2530	10h 02m 35.3s	+37° 07' 02"	14.3	Galaxy	0.005x0.005	Leo Minor	
IC 2401	08h 49m 19.3s	+37° 41' 19"	14.4	Galaxy	0.01x0.005	Lynx	
IC 2515	09h 55m 44.3s	+37° 19' 21"	14.4	Galaxy	0.009x0.001	Leo Minor	
IC 3008	09h 50m 41.9s	+44° 01' 06"	14.5	Galaxy	0.004x0.002	Ursa Major	
NGC 3010B	09h 51m 41.1s	+44° 13' 48"	14.5	Galaxy	0.005x0.003	Ursa Major	3010B
IC 2405	08h 49m 51.5s	+37° 09' 03"	14.5	Galaxy	0.006x0.004	Lynx	
IC 2527	10h 01m 11.2s	+38° 05' 09"	14.5	Galaxy	0.002x0.002	Leo Minor	
NGC 3010A	09h 51m 42.4s	+44° 14' 20"	14.6	Galaxy	0.005x0.002	Ursa Major	3010A
IC 2525	09h 59m 29.4s	+37° 00' 57"	14.6	Galaxy	0.002x0.002	Leo Minor	
IC 2518	09h 57m 03.2s	+37° 04' 12"	14.7	Galaxy	0.003x0.002	Leo Minor	
IC 3005	09h 50m 22.8s	+44° 02' 46"	14.9	Galaxy	0.009x0.001	Ursa Major	
NGC 3006	09h 50m 25.0s	+43° 56' 28"	14.9	Galaxy	0.005x0.001	Ursa Major	
IC 2427	09h 02m 10.1s	+37° 48' 17"	14.9	Galaxy	0.003x0.002	Lynx	
MCG 7-20-67	09h 51m 47.3s	+44° 14' 46"	15.0	Galaxy	0.003x0.001	Ursa Major	3010C
IC 2468	09h 25m 59.8s	+38° 16' 26"	15.1	Galaxy	0.003x0.003	Leo Minor	
IC 2502	09h 44m 20.2s	+35° 04' 39"	15.1	Galaxy	0.003x0.003	Leo Minor	
IC 2503	09h 44m 20.7s	+35° 07' 24"	15.5	Galaxy	0.003x0.001	Leo Minor	

7.43 Main objects visible on chart 42

Table 49: Main objects visible on chart 42

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3184	10h 19m 21.4s	+41° 19' 58"	9.8	Galaxy	0.061x0.057	Ursa Major	
NGC 3675	11h 27m 06.8s	+43° 29' 14"	10.2	Galaxy	0.049x0.025	Ursa Major	
NGC 3198	10h 21m 00.6s	+45° 27' 33"	10.3	Galaxy	0.070x0.027	Ursa Major	
NGC 3726	11h 34m 19.1s	+46° 55' 42"	10.4	Galaxy	0.05x0.034	Ursa Major	
NGC 3665	11h 25m 41.9s	+38° 39' 50"	10.8	Galaxy	0.035x0.027	Ursa Major	
NGC 3319	10h 40m 12.3s	+41° 35' 35"	11.1	Galaxy	0.050x0.028	Ursa Major	
NGC 3583	11h 15m 11.6s	+48° 13' 12"	11.1	Galaxy	0.023x0.015	Ursa Major	
NGC 3432	10h 53m 31.5s	+36° 31' 23"	11.3	Galaxy	0.055x0.013	Leo Minor	
NGC 3614	11h 19m 21.4s	+45° 39' 00"	11.6	Galaxy	0.038x0.021	Ursa Major	
NGC 3600	11h 16m 51.4s	+41° 29' 34"	11.7	Galaxy	0.034x0.006	Ursa Major	
NGC 3294	10h 37m 17.9s	+37° 13' 52"	11.8	Galaxy	0.028x0.015	Leo Minor	
NGC 3158	10h 14m 54.4s	+38° 40' 33"	11.9	Galaxy	0.016x0.015	Leo Minor	
NGC 3595	11h 16m 25.7s	+47° 20' 55"	12.1	Galaxy	0.013x0.005	Ursa Major	
NGC 3652	11h 23m 37.3s	+37° 39' 58"	12.2	Galaxy	0.021x0.005	Ursa Major	
NGC 3658	11h 24m 56.8s	+38° 27' 53"	12.2	Galaxy	0.015x0.014	Ursa Major	

Table 49: Main objects visible on chart 42 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3320	10h 40m 40.8s	+47° 18' 11"	12.3	Galaxy	0.018x0.008	Ursa Major	
NGC 2998	09h 49m 51.5s	+43° 59' 50"	12.5	Galaxy	0.0225x0.01	Ursa Major	
NGC 3648	11h 23m 29.9s	+39° 46' 41"	12.6	Galaxy	0.010x0.006	Ursa Major	
NGC 3677	11h 27m 16.7s	+46° 52' 31"	12.6	Galaxy	0.015x0.012	Ursa Major	
NGC 3074	10h 00m 45.1s	+35° 18' 23"	12.7	Galaxy	0.019x0.017	Leo Minor	
NGC 3415	10h 52m 44.4s	+43° 37' 01"	12.7	Galaxy	0.017x0.010	Ursa Major	
NGC 3334	10h 42m 32.6s	+37° 13' 05"	12.9	Galaxy	0.009x0.008	Leo Minor	
NGC 3478	11h 00m 29.2s	+46° 01' 35"	12.9	Galaxy	0.021x0.01	Ursa Major	
NGC 3111	10h 07m 15.1s	+47° 10' 29"	13.0	Galaxy	0.007x0.006	Ursa Major	
NGC 3237	10h 26m 46.7s	+39° 33' 19"	13.0	Galaxy	0.010x0.010	Ursa Major	
NGC 3468	10h 58m 32.1s	+40° 50' 59"	13.0	Galaxy	0.010x0.005	Ursa Major	
IC 598	10h 13m 54.0s	+43° 03' 22"	13.0	Galaxy	0.011x0.004	Ursa Major	
NGC 3179	10h 19m 01.5s	+41° 01' 27"	13.1	Galaxy	0.015x0.004	Ursa Major	
IC 3104	10h 05m 02.4s	+40° 40' 10"	13.2	Galaxy	0.027x0.018	Leo Minor	
NGC 3202	10h 21m 36.3s	+42° 55' 49"	13.2	Galaxy	0.01x0.006	Ursa Major	
NGC 3219	10h 23m 40.6s	+38° 29' 18"	13.2	Galaxy	0.006x0.004	Leo Minor	
NGC 3163	10h 15m 11.0s	+38° 33' 47"	13.3	Galaxy	0.01x0.009	Leo Minor	
NGC 3192	10h 20m 11.2s	+46° 21' 51"	13.3	Galaxy	0.006x0.005	Ursa Major	
NGC 3205	10h 21m 54.7s	+42° 52' 50"	13.3	Galaxy	0.011x0.009	Ursa Major	
NGC 3207	10h 22m 05.2s	+42° 53' 41"	13.3	Galaxy	0.010x0.006	Ursa Major	
NGC 3540	11h 10m 15.2s	+35° 55' 25"	13.3	Galaxy	0.011x0.01	Ursa Major	
NGC 3569	11h 13m 06.9s	+35° 21' 14"	13.3	Galaxy	0.009x0.008	Ursa Major	
NGC 3304	10h 38m 39.7s	+37° 21' 45"	13.4	Galaxy	0.014x0.005	Leo Minor	
NGC 3577	11h 14m 45.5s	+48° 10' 30"	13.4	Galaxy	0.011x0.009	Ursa Major	
IC 674	11h 12m 06.6s	+43° 32' 06"	13.4	Galaxy	0.014x0.005	Ursa Major	
NGC 3135	10h 12m 01.1s	+45° 51' 41"	13.5	Galaxy	0.007x0.005	Ursa Major	
NGC 3009	09h 51m 19.1s	+44° 12' 38"	13.6	Galaxy	0.006x0.005	Ursa Major	
NGC 3159	10h 14m 56.7s	+38° 33' 55"	13.6	Galaxy	0.01x0.0075	Leo Minor	
NGC 3161	10h 15m 03.0s	+38° 34' 05"	13.7	Galaxy	0.006x0.005	Leo Minor	
NGC 3374	10h 49m 03.3s	+43° 05' 27"	13.7	Galaxy	0.010x0.007	Ursa Major	
NGC 3151	10h 14m 32.9s	+38° 31' 50"	13.8	Galaxy	0.006x0.003	Leo Minor	
NGC 3545	11h 11m 12.3s	+36° 52' 09"	13.8	Galaxy	0.004x0.004	Ursa Major	
NGC 3545B	11h 11m 11.4s	+36° 52' 01"	13.8	Galaxy	0.004x0.004	Ursa Major	3545B
IC 2535	10h 05m 36.1s	+37° 55' 08"	13.8	Galaxy	0.006x0.005	Leo Minor	
IC 2566	10h 23m 22.1s	+36° 29' 31"	14.0	Galaxy	0.006x0.004	Leo Minor	
IC 2606	10h 51m 18.4s	+37° 51' 39"	14.0	Galaxy	0.006x0.002	Leo Minor	
NGC 3160	10h 14m 59.1s	+38° 45' 11"	14.1	Galaxy	0.010x0.002	Leo Minor	
IC 2516	09h 55m 53.3s	+37° 36' 06"	14.1	Galaxy	0.008x0.006	Leo Minor	
IC 2568	10h 23m 32.7s	+36° 30' 30"	14.1	Galaxy	0.01x0.005	Leo Minor	
IC 3152	10h 14m 38.1s	+38° 45' 14"	14.2	Galaxy	0.006x0.005	Leo Minor	
NGC 3542	11h 10m 54.8s	+36° 50' 55"	14.2	Galaxy	0.006x0.002	Ursa Major	
IC 2620	11h 03m 24.0s	+38° 24' 30"	14.2	Galaxy	0.008x0.007	Ursa Major	
IC 2530	10h 02m 35.3s	+37° 07' 02"	14.3	Galaxy	0.005x0.005	Leo Minor	
IC 2861	11h 29m 56.8s	+38° 45' 09"	14.3	Galaxy	0.006x0.005	Ursa Major	
IC 687	11h 25m 16.7s	+47° 44' 56"	14.3	Galaxy	0.006x0.006	Ursa Major	
NGC 3614A	11h 19m 11.6s	+45° 37' 06"	14.4	Galaxy	0.005x0.005	Ursa Major	3614A

Table 49: Main objects visible on chart 42 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2515	09h 55m 44.3s	+37° 19' 21"	14.4	Galaxy	0.009x0.001	Leo Minor	
IC 2617	11h 03m 07.7s	+38° 34' 02"	14.4	Galaxy	0.007x0.005	Ursa Major	
IC 3008	09h 50m 41.9s	+44° 01' 06"	14.5	Galaxy	0.004x0.002	Ursa Major	
NGC 3010B	09h 51m 41.1s	+44° 13' 48"	14.5	Galaxy	0.005x0.003	Ursa Major	3010B
NGC 3416	10h 52m 50.3s	+43° 40' 08"	14.5	Galaxy	0.005x0.001	Ursa Major	
IC 2527	10h 01m 11.2s	+38° 05' 09"	14.5	Galaxy	0.002x0.002	Leo Minor	
NGC 3010A	09h 51m 42.4s	+44° 14' 20"	14.6	Galaxy	0.005x0.002	Ursa Major	3010A
IC 3150	10h 14m 30.1s	+38° 34' 06"	14.6	Galaxy	0.006x0.005	Leo Minor	
IC 2525	09h 59m 29.4s	+37° 00' 57"	14.6	Galaxy	0.002x0.002	Leo Minor	
IC 2518	09h 57m 03.2s	+37° 04' 12"	14.7	Galaxy	0.003x0.002	Leo Minor	
NGC 3181	10h 19m 15.9s	+41° 19' 22"	14.8	Galpart	0.002x0.002	Ursa Major	
IC 2557	10h 17m 09.4s	+38° 01' 05"	14.8	Galaxy	0.002x0.001	Leo Minor	
IC 2607	10h 51m 19.8s	+37° 53' 55"	14.8	Galaxy	0.005x0.003	Leo Minor	
IC 2616	11h 03m 05.8s	+38° 41' 24"	14.8	Galaxy	0.002x0.001	Ursa Major	
IC 3005	09h 50m 22.8s	+44° 02' 46"	14.9	Galaxy	0.009x0.001	Ursa Major	
NGC 3006	09h 50m 25.0s	+43° 56' 28"	14.9	Galaxy	0.005x0.001	Ursa Major	
IC 2543-1	10h 09m 27.5s	+37° 45' 08"	14.9	Galaxy	0.004x0.001	Leo Minor	IC 2543-1
IC 2547	10h 11m 08.0s	+36° 24' 51"	14.9	Galaxy	0.003x0.001	Leo Minor	
IC 2615	11h 03m 02.2s	+37° 50' 55"	14.9	Galaxy	0.003x0.003	Ursa Major	
MCG 7-20-67	09h 51m 47.3s	+44° 14' 46"	15.0	Galaxy	0.003x0.001	Ursa Major	3010C
NGC 3180	10h 19m 15.1s	+41° 21' 31"	15.0	Galpart	0.001x0.001	Ursa Major	
IC 2619	11h 03m 15.2s	+37° 52' 09"	15.1	Galaxy	0.002x0.002	Ursa Major	
IC 2564	10h 22m 30.3s	+36° 21' 41"	15.2	Galaxy	0.003x0.003	Leo Minor	
IC 2549	10h 11m 13.6s	+36° 22' 34"	15.4	Galaxy	0.002x0.001	Leo Minor	
IC 2543-2	10h 09m 27.8s	+37° 45' 20"	15.5	Galaxy	0.001x0.001	Leo Minor	IC 2543-2
IC 2614	11h 02m 34.1s	+38° 42' 25"	15.5	Galaxy	0.001x0.001	Ursa Major	

7.44 Main objects visible on chart 43

Table 50: Main objects visible on chart 43

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4736	12h 51m 43.8s	+41° 01' 25"	8.2	Galaxy	0.12x0.100	Canes Venatici	M94
NGC 4258	12h 19m 51.0s	+47° 12' 26"	8.4	Galaxy	0.155x0.06	Canes Venatici	M106
NGC 4449	12h 29m 03.8s	+43° 59' 44"	9.6	Galaxy	0.051x0.036	Canes Venatici	CALDWELL 21
NGC 4214	12h 16m 32.9s	+36° 13' 39"	9.8	Galaxy	0.066x0.055	Canes Venatici	
NGC 4490	12h 31m 28.6s	+41° 32' 37"	9.8	Galaxy	0.053x0.026	Canes Venatici	
NGC 3675	11h 27m 06.8s	+43° 29' 14"	10.2	Galaxy	0.049x0.025	Ursa Major	
NGC 4051	12h 04m 04.6s	+44° 25' 54"	10.2	Galaxy	0.043x0.032	Ursa Major	
NGC 3941	11h 53m 51.2s	+36° 53' 12"	10.3	Galaxy	0.029x0.020	Ursa Major	
NGC 3726	11h 34m 19.1s	+46° 55' 42"	10.4	Galaxy	0.05x0.034	Ursa Major	
NGC 3938	11h 53m 45.2s	+44° 01' 16"	10.4	Galaxy	0.045x0.040	Ursa Major	
NGC 4244	12h 18m 23.8s	+37° 42' 28"	10.4	Galaxy	0.138x0.015	Canes Venatici	CALDWELL 26
NGC 3893	11h 49m 34.9s	+48° 36' 41"	10.5	Galaxy	0.037x0.023	Ursa Major	
NGC 4111	12h 07m 57.5s	+42° 57' 59"	10.7	Galaxy	0.038x0.008	Canes Venatici	

Table 50: Main objects visible on chart 43 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3665	11h 25m 41.9s	+38° 39' 50"	10.8	Galaxy	0.035x0.027	Ursa Major	
NGC 4151	12h 11m 26.7s	+39° 18' 24"	10.8	Galaxy	0.052x0.037	Canes Venatici	
NGC 4242	12h 18m 23.4s	+45° 31' 09"	10.8	Galaxy	0.043x0.033	Canes Venatici	
NGC 4618	12h 42m 24.5s	+41° 03' 09"	10.8	Galaxy	0.035x0.028	Canes Venatici	
NGC 4096	12h 06m 55.5s	+47° 22' 32"	10.9	Galaxy	0.054x0.015	Ursa Major	
NGC 4143	12h 10m 30.6s	+42° 26' 04"	10.9	Galaxy	0.019x0.011	Canes Venatici	
NGC 3877	11h 47m 04.2s	+47° 23' 40"	11.0	Galaxy	0.044x0.01	Ursa Major	
NGC 3583	11h 15m 11.6s	+48° 13' 12"	11.1	Galaxy	0.023x0.015	Ursa Major	
NGC 3949	11h 54m 37.4s	+47° 45' 35"	11.1	Galaxy	0.024x0.014	Ursa Major	
NGC 4013	11h 59m 26.8s	+43° 50' 49"	11.2	Galaxy	0.043x0.008	Ursa Major	
NGC 4217	12h 16m 44.1s	+46° 59' 24"	11.2	Galaxy	0.043x0.012	Canes Venatici	
NGC 4346	12h 24m 20.6s	+46° 53' 39"	11.2	Galaxy	0.026x0.010	Canes Venatici	
NGC 4138	12h 10m 24.1s	+43° 35' 08"	11.3	Galaxy	0.021x0.014	Canes Venatici	
NGC 4145	12h 10m 56.1s	+39° 46' 58"	11.3	Galaxy	0.049x0.034	Canes Venatici	
NGC 4460	12h 29m 37.8s	+44° 45' 54"	11.3	Galaxy	0.035x0.010	Canes Venatici	
NGC 4220	12h 17m 05.2s	+47° 46' 59"	11.4	Galaxy	0.032x0.012	Canes Venatici	
NGC 3614	11h 19m 21.4s	+45° 39' 00"	11.6	Galaxy	0.038x0.021	Ursa Major	
NGC 4144	12h 10m 53.5s	+46° 21' 26"	11.6	Galaxy	0.050x0.012	Ursa Major	
NGC 4800	12h 55m 27.1s	+46° 26' 03"	11.6	Galaxy	0.013x0.01	Canes Venatici	
NGC 3600	11h 16m 51.4s	+41° 29' 34"	11.7	Galaxy	0.034x0.006	Ursa Major	
NGC 3769	11h 38m 42.0s	+47° 47' 37"	11.7	Galaxy	0.024x0.008	Ursa Major	
NGC 3813	11h 42m 15.3s	+36° 26' 48"	11.7	Galaxy	0.016x0.008	Ursa Major	
NGC 4369	12h 25m 29.6s	+39° 16' 59"	11.7	Galaxy	0.017x0.016	Canes Venatici	
NGC 4389	12h 26m 27.6s	+45° 35' 08"	11.7	Galaxy	0.021x0.010	Canes Venatici	
NGC 4485	12h 31m 23.8s	+41° 36' 06"	11.9	Galaxy	0.02x0.015	Canes Venatici	
IC 750	11h 59m 47.4s	+42° 37' 21"	11.9	Galaxy	0.021x0.01	Ursa Major	
NGC 3595	11h 16m 25.7s	+47° 20' 55"	12.1	Galaxy	0.013x0.005	Ursa Major	
NGC 3652	11h 23m 37.3s	+37° 39' 58"	12.2	Galaxy	0.021x0.005	Ursa Major	
NGC 3658	11h 24m 56.8s	+38° 27' 53"	12.2	Galaxy	0.015x0.014	Ursa Major	
NGC 4047	12h 03m 45.6s	+48° 32' 11"	12.2	Galaxy	0.013x0.010	Ursa Major	
NGC 3811	11h 42m 13.9s	+47° 35' 28"	12.3	Galaxy	0.018x0.014	Ursa Major	
NGC 4183	12h 14m 10.8s	+43° 35' 53"	12.3	Galaxy	0.044x0.005	Canes Venatici	
NGC 4534	12h 34m 58.2s	+35° 25' 09"	12.3	Galaxy	0.021x0.017	Canes Venatici	
NGC 3782	11h 40m 18.1s	+46° 24' 48"	12.4	Galaxy	0.013x0.009	Ursa Major	
NGC 3930	11h 52m 41.7s	+37° 54' 51"	12.4	Galaxy	0.025x0.019	Ursa Major	
NGC 4381	12h 24m 51.5s	+48° 40' 49"	12.4	Galaxy	0.030x0.010	Canes Venatici	
NGC 4625	12h 42m 44.0s	+41° 10' 30"	12.4	Galaxy	0.013x0.011	Canes Venatici	
IC 749	11h 59m 29.3s	+42° 37' 59"	12.4	Galaxy	0.019x0.016	Ursa Major	
NGC 3985	11h 57m 37.2s	+48° 14' 07"	12.5	Galaxy	0.010x0.006	Ursa Major	
NGC 4218	12h 16m 39.5s	+48° 01' 54"	12.5	Galaxy	0.01x0.005	Canes Venatici	
NGC 4248	12h 18m 43.7s	+47° 18' 33"	12.5	Galaxy	0.024x0.01	Canes Venatici	
NGC 3648	11h 23m 29.9s	+39° 46' 41"	12.6	Galaxy	0.010x0.006	Ursa Major	
NGC 3677	11h 27m 16.7s	+46° 52' 31"	12.6	Galaxy	0.015x0.012	Ursa Major	
NGC 3928	11h 52m 43.9s	+48° 34' 58"	12.6	Galaxy	0.012x0.012	Ursa Major	Miniature spiral
NGC 4010	11h 59m 32.6s	+47° 09' 36"	12.6	Galaxy	0.035x0.007	Ursa Major	
NGC 3694	11h 29m 51.6s	+35° 18' 52"	12.7	Galaxy	0.008x0.006	Ursa Major	

Table 50: Main objects visible on chart 43 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4619	12h 42m 36.7s	+34° 57' 51"	12.7	Galaxy	0.010x0.010	Canes Venatici	
IC 4662	12h 45m 18.1s	+37° 01' 22"	12.7	Galaxy	0.015x0.013	Canes Venatici	
NGC 3755	11h 37m 30.3s	+36° 18' 38"	12.8	Galaxy	0.028x0.011	Ursa Major	
IC 3896	11h 49m 52.9s	+48° 34' 29"	12.9	Galaxy	0.012x0.008	Ursa Major	
NGC 3906	11h 50m 36.7s	+48° 19' 32"	12.9	Galaxy	0.015x0.014	Ursa Major	
NGC 4288	12h 21m 31.0s	+46° 11' 41"	12.9	Galaxy	0.018x0.013	Canes Venatici	
NGC 4117	12h 08m 40.6s	+43° 01' 34"	13.0	Galaxy	0.015x0.007	Canes Venatici	
IC 3668	12h 42m 24.2s	+41° 01' 38"	13.0	Galpart	0.008x0.008	Canes Venatici	
NGC 4156	12h 11m 43.8s	+39° 22' 23"	13.2	Galaxy	0.010x0.01	Canes Venatici	
NGC 3569	11h 13m 06.9s	+35° 21' 14"	13.3	Galaxy	0.009x0.008	Ursa Major	
NGC 4148	12h 11m 02.4s	+35° 46' 42"	13.3	Galaxy	0.012x0.008	Canes Venatici	
NGC 4190	12h 14m 38.6s	+36° 32' 01"	13.3	Galaxy	0.014x0.013	Canes Venatici	
NGC 3577	11h 14m 45.5s	+48° 10' 30"	13.4	Galaxy	0.011x0.009	Ursa Major	
NGC 4097	12h 06m 57.2s	+36° 45' 49"	13.4	Galaxy	0.01x0.005	Ursa Major	
IC 674	11h 12m 06.6s	+43° 32' 06"	13.4	Galaxy	0.014x0.005	Ursa Major	
NGC 4226	12h 17m 19.8s	+46° 55' 32"	13.5	Galaxy	0.008x0.004	Canes Venatici	
IC 3014	12h 09m 31.5s	+38° 43' 55"	13.5	Galaxy	0.01x0.006	Canes Venatici	
IC 3022	12h 10m 56.8s	+38° 38' 26"	13.5	Galaxy	0.024x0.007	Canes Venatici	
IC 3687	12h 43m 06.9s	+38° 24' 18"	13.5	Galaxy	0.020x0.012	Canes Venatici	
NGC 4025	12h 00m 05.4s	+37° 41' 31"	13.6	Galaxy	0.020x0.011	Ursa Major	
IC 4231	12h 17m 42.3s	+47° 21' 29"	13.6	Galaxy	0.01x0.009	Canes Venatici	
NGC 4232	12h 17m 42.4s	+47° 20' 20"	13.6	Galaxy	0.010x0.005	Canes Venatici	
NGC 4392	12h 26m 11.3s	+45° 44' 53"	13.7	Galaxy	0.005x0.005	Canes Venatici	
IC 4704	12h 49m 37.2s	+41° 49' 24"	13.7	Galaxy	0.008x0.007	Canes Venatici	
IC 4741	12h 51m 48.9s	+47° 34' 26"	13.7	Galaxy	0.011x0.005	Canes Venatici	
NGC 3695	11h 30m 14.9s	+35° 28' 34"	13.9	Galaxy	0.007x0.005	Ursa Major	
NGC 4135	12h 10m 03.2s	+43° 54' 13"	13.9	Galaxy	0.008x0.005	Canes Venatici	
NGC 4655	12h 44m 27.8s	+40° 55' 15"	13.9	Galaxy	0.008x0.008	Canes Venatici	
NGC 3700	11h 30m 36.1s	+35° 24' 56"	14.0	Galaxy	0.008x0.005	Ursa Major	
NGC 3741	11h 37m 03.8s	+45° 11' 04"	14.0	Galaxy	0.011x0.006	Ursa Major	
NGC 4163	12h 13m 03.4s	+36° 04' 07"	14.0	Galaxy	0.015x0.013	Canes Venatici	
NGC 4109	12h 07m 45.7s	+42° 53' 45"	14.1	Galaxy	0.005x0.005	Canes Venatici	
NGC 4137	12h 10m 11.8s	+43° 59' 24"	14.1	Galaxy	0.009x0.005	Canes Venatici	
NGC 3769A	11h 38m 48.4s	+47° 46' 55"	14.2	Galaxy	0.007x0.002	Ursa Major	3769A
IC 2950	11h 42m 34.6s	+37° 53' 33"	14.2	Galaxy	0.005x0.004	Ursa Major	
IC 2861	11h 29m 56.8s	+38° 45' 09"	14.3	Galaxy	0.006x0.005	Ursa Major	
IC 687	11h 25m 16.7s	+47° 44' 56"	14.3	Galaxy	0.006x0.006	Ursa Major	
IC 751	11h 59m 47.8s	+42° 28' 11"	14.3	Galaxy	0.01x0.0025	Ursa Major	
NGC 3614A	11h 19m 11.6s	+45° 37' 06"	14.4	Galaxy	0.005x0.005	Ursa Major	3614A
IC 3758	12h 46m 50.8s	+40° 40' 38"	14.4	Galaxy	0.003x0.003	Canes Venatici	
IC 752	12h 00m 10.4s	+42° 28' 00"	14.4	Galaxy	0.005x0.004	Ursa Major	
NGC 4145A-1	12h 11m 48.7s	+39° 39' 26"	14.5	Galaxy	0.015x0.004	Canes Venatici	4145A-1
NGC 4288A	12h 21m 33.6s	+46° 09' 20"	14.5	Galaxy	0.003x0.003	Canes Venatici	4288A
IC 3778	12h 47m 53.0s	+40° 29' 56"	14.5	Galaxy	0.003x0.002	Canes Venatici	
NGC 4118	12h 08m 47.4s	+43° 00' 40"	14.6	Galaxy	0.005x0.003	Canes Venatici	
IC 2987	12h 04m 19.6s	+38° 42' 47"	14.6	Galaxy	0.004x0.002	Ursa Major	

Table 50: Main objects visible on chart 43 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3713	12h 44m 54.4s	+41° 04' 16"	14.7	Galaxy	0.006x0.005	Canes Venatici	
IC 3726	12h 45m 33.9s	+40° 34' 50"	14.7	Galaxy	0.012x0.002	Canes Venatici	
IC 3783	12h 48m 18.9s	+40° 28' 06"	14.7	Galaxy	0.005x0.005	Canes Venatici	
IC 3808	12h 49m 49.8s	+40° 29' 53"	14.7	Galaxy	0.005x0.002	Canes Venatici	
IC 3746	12h 46m 23.4s	+37° 43' 32"	14.8	Galaxy	0.001x0.001	Canes Venatici	
IC 3772	12h 47m 47.8s	+36° 25' 59"	14.8	Galaxy	0.005x0.003	Canes Venatici	
IC 3795	12h 48m 56.0s	+40° 37' 15"	15.0	Galaxy	0.004x8.333	Canes Venatici	
IC 3723	12h 45m 21.9s	+40° 38' 20"	15.1	Galaxy	0.002x0.001	Canes Venatici	
IC 4001	11h 59m 02.2s	+47° 14' 06"	15.3	Galaxy	0.005x0.002	Ursa Major	
IC 3697	12h 43m 50.4s	+39° 44' 52"	15.3	Galaxy	0.006x0.005	Canes Venatici	
IC 3669	12h 42m 28.9s	+41° 02' 30"	15.5	Galpart	0.002x0.002	Canes Venatici	
IC 3717	12h 45m 14.5s	+39° 25' 26"	15.5	Galaxy	0.005x0.001	Canes Venatici	
IC 3729	12h 45m 44.5s	+39° 15' 12"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 3751	12h 46m 36.7s	+37° 43' 32"	15.5	Galaxy	0.001x0.001	Canes Venatici	
NGC 3930A	11h 52m 58.2s	+37° 55' 10"	15.7	Galaxy	0.002x0.001	Ursa Major	3930A
NGC 3950	11h 54m 37.1s	+47° 47' 05"	15.7	Galaxy	0.002x0.002	Ursa Major	
NGC 4145A-2	12h 11m 47.7s	+39° 38' 55"	15.7	Galaxy	0.002x0.002	Canes Venatici	4145A-2
IC 3771	12h 47m 43.9s	+39° 04' 32"	15.7	Galaxy	0.002x0.001	Canes Venatici	
IC 3774	12h 47m 52.7s	+36° 11' 24"	15.7	Galaxy	0.007x0.003	Canes Venatici	
IC 3786	12h 48m 28.1s	+38° 56' 54"	15.8	Galaxy	0.003x0.002	Canes Venatici	
IC 3110	12h 18m 38.7s	+37° 18' 01"	16.0	Galaxy	0.004x0.003	Canes Venatici	

7.45 Main objects visible on chart 44

Table 51: Main objects visible on chart 44

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4736	12h 51m 43.8s	+41° 01' 25"	8.2	Galaxy	0.12x0.100	Canes Venatici	M94
NGC 5194	13h 30m 38.0s	+47° 06' 11"	8.4	Galaxy	0.093x0.057	Canes Venatici	M51, Whirlpool galaxy
NGC 5055	13h 16m 37.3s	+41° 56' 18"	8.6	Galaxy	0.105x0.06	Canes Venatici	M63, Sunflower galaxy
NGC 4449	12h 29m 03.8s	+43° 59' 44"	9.6	Galaxy	0.051x0.036	Canes Venatici	CALDWELL 21
NGC 5195	13h 30m 44.6s	+47° 10' 30"	9.6	Galaxy	0.049x0.038	Canes Venatici	
NGC 4490	12h 31m 28.6s	+41° 32' 37"	9.8	Galaxy	0.053x0.026	Canes Venatici	
NGC 5005	13h 11m 45.9s	+36° 57' 48"	9.8	Galaxy	0.048x0.024	Canes Venatici	CALDWELL 29
NGC 5033	13h 14m 17.7s	+36° 29' 54"	10.2	Galaxy	0.089x0.041	Canes Venatici	
NGC 5371	13h 56m 25.4s	+40° 22' 29"	10.6	Galaxy	0.035x0.028	Canes Venatici	
NGC 4618	12h 42m 24.5s	+41° 03' 09"	10.8	Galaxy	0.035x0.028	Canes Venatici	
NGC 5353	13h 54m 12.4s	+40° 11' 42"	11.0	Galaxy	0.018x0.009	Canes Venatici	
IC 4182	13h 06m 39.4s	+37° 30' 37"	11.1	Galaxy	0.04x0.034	Canes Venatici	
NGC 4346	12h 24m 20.6s	+46° 53' 39"	11.2	Galaxy	0.026x0.010	Canes Venatici	
NGC 4460	12h 29m 37.8s	+44° 45' 54"	11.3	Galaxy	0.035x0.010	Canes Venatici	
NGC 5350	13h 54m 07.1s	+40° 16' 33"	11.3	Galaxy	0.026x0.019	Canes Venatici	
NGC 5377	13h 56m 59.4s	+47° 08' 53"	11.3	Galaxy	0.039x0.02	Canes Venatici	
NGC 5354	13h 54m 12.3s	+40° 12' 54"	11.4	Galaxy	0.011x0.010	Canes Venatici	
NGC 5383	13h 57m 49.7s	+41° 45' 32"	11.4	Galaxy	0.026x0.022	Canes Venatici	

Table 51: Main objects visible on chart 44 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5395	13h 59m 24.1s	+37° 20' 18"	11.4	Galaxy	0.022x0.010	Canes Venatici	
NGC 4800	12h 55m 27.1s	+46° 26' 03"	11.6	Galaxy	0.013x0.01	Canes Venatici	
NGC 4914	13h 01m 33.4s	+37° 13' 05"	11.6	Galaxy	0.029x0.017	Canes Venatici	
IC 5273	13h 42m 56.2s	+35° 33' 49"	11.6	Galaxy	0.023x0.020	Canes Venatici	
NGC 4389	12h 26m 27.6s	+45° 35' 08"	11.7	Galaxy	0.021x0.010	Canes Venatici	
NGC 5198	13h 30m 57.0s	+46° 34' 42"	11.8	Galaxy	0.016x0.014	Canes Venatici	
NGC 5297	13h 47m 08.4s	+43° 46' 59"	11.8	Galaxy	0.046x0.010	Canes Venatici	
NGC 4485	12h 31m 23.8s	+41° 36' 06"	11.9	Galaxy	0.02x0.015	Canes Venatici	
NGC 5326	13h 51m 36.6s	+39° 29' 12"	11.9	Galaxy	0.018x0.01	Canes Venatici	
NGC 5444	14h 04m 10.8s	+35° 02' 48"	11.9	Galaxy	0.020x0.016	Canes Venatici	
NGC 5313	13h 50m 30.3s	+39° 53' 47"	12.0	Galaxy	0.014x0.008	Canes Venatici	
NGC 5112	13h 22m 45.2s	+38° 38' 29"	12.1	Galaxy	0.033x0.024	Canes Venatici	
NGC 5320	13h 51m 05.7s	+41° 16' 39"	12.1	Galaxy	0.03x0.014	Canes Venatici	
NGC 5351	13h 54m 14.4s	+37° 49' 37"	12.1	Galaxy	0.024x0.013	Canes Venatici	
NGC 4868	12h 59m 59.6s	+37° 12' 45"	12.2	Galaxy	0.012x0.011	Canes Venatici	
NGC 5173	13h 29m 11.0s	+46° 29' 58"	12.2	Galaxy	0.008x0.007	Canes Venatici	
NGC 4534	12h 34m 58.2s	+35° 25' 09"	12.3	Galaxy	0.021x0.017	Canes Venatici	
NGC 5023	13h 12m 59.8s	+43° 56' 31"	12.3	Galaxy	0.048x0.006	Canes Venatici	
NGC 5311	13h 49m 41.9s	+39° 53' 51"	12.3	Galaxy	0.021x0.019	Canes Venatici	
NGC 5362	13h 55m 38.3s	+41° 13' 33"	12.3	Galaxy	0.018x0.008	Canes Venatici	
NGC 5380	13h 57m 43.0s	+37° 31' 22"	12.3	Galaxy	0.014x0.014	Canes Venatici	
NGC 5406	14h 01m 05.7s	+38° 49' 43"	12.3	Galaxy	0.015x0.011	Canes Venatici	
NGC 5440	14h 03m 47.4s	+34° 40' 14"	12.3	Galaxy	0.018x0.008	Canes Venatici	
NGC 4625	12h 42m 44.0s	+41° 10' 30"	12.4	Galaxy	0.013x0.011	Canes Venatici	
NGC 5303	13h 48m 31.9s	+38° 12' 55"	12.4	Galaxy	0.007x0.003	Canes Venatici	
NGC 5290	13h 46m 04.9s	+41° 37' 24"	12.5	Galaxy	0.030x0.008	Canes Venatici	
NGC 5378	13h 57m 37.1s	+37° 42' 35"	12.5	Galaxy	0.022x0.018	Canes Venatici	
NGC 5145	13h 26m 01.0s	+43° 10' 26"	12.6	Galaxy	0.016x0.015	Canes Venatici	
NGC 5337	13h 53m 08.9s	+39° 35' 59"	12.6	Galaxy	0.014x0.006	Canes Venatici	
NGC 4619	12h 42m 36.7s	+34° 57' 51"	12.7	Galaxy	0.010x0.010	Canes Venatici	
IC 4662	12h 45m 18.1s	+37° 01' 22"	12.7	Galaxy	0.015x0.013	Canes Venatici	
NGC 5103	13h 21m 17.6s	+42° 59' 25"	12.7	Galaxy	0.011x0.008	Canes Venatici	
NGC 5301	13h 47m 08.3s	+46° 01' 05"	12.7	Galaxy	0.033x0.006	Canes Venatici	
NGC 5123	13h 23m 57.7s	+42° 59' 33"	12.8	Galaxy	0.010x0.009	Canes Venatici	
IC 5141	13h 25m 40.3s	+36° 17' 08"	12.8	Galaxy	0.010x0.008	Canes Venatici	
NGC 5336	13h 52m 54.5s	+43° 09' 17"	12.8	Galaxy	0.011x0.008	Canes Venatici	
NGC 5014	13h 12m 21.3s	+36° 11' 11"	12.9	Galaxy	0.013x0.004	Canes Venatici	
NGC 5149	13h 26m 58.0s	+35° 50' 29"	12.9	Galaxy	0.013x0.007	Canes Venatici	
NGC 5289	13h 45m 54.6s	+41° 24' 50"	13.0	Galaxy	0.015x0.005	Canes Venatici	
NGC 5352	13h 54m 25.3s	+36° 02' 46"	13.0	Galaxy	0.01x0.008	Canes Venatici	
NGC 5394	13h 59m 19.9s	+37° 21' 60"	13.0	Galaxy	0.015x0.010	Canes Venatici	
NGC 5445	14h 04m 18.0s	+34° 56' 20"	13.0	Galaxy	0.012x0.005	Canes Venatici	
IC 3668	12h 42m 24.2s	+41° 01' 38"	13.0	Galpart	0.008x0.008	Canes Venatici	
IC 5029	13h 13m 24.7s	+46° 58' 05"	13.1	Galaxy	0.014x0.009	Canes Venatici	
NGC 5107	13h 22m 13.1s	+38° 26' 40"	13.1	Galaxy	0.014x0.004	Canes Venatici	
IC 5240	13h 36m 43.4s	+35° 29' 49"	13.1	Galaxy	0.015x0.011	Canes Venatici	

Table 51: Main objects visible on chart 44 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5355	13h 54m 31.1s	+40° 15' 03"	13.1	Galaxy	0.01x0.005	Canes Venatici	
NGC 5410	14h 01m 39.3s	+40° 54' 06"	13.1	Galaxy	0.012x0.006	Canes Venatici	
IC 4064	13h 01m 56.7s	+39° 44' 42"	13.1	Galaxy	0.013x0.01	Canes Venatici	
NGC 4687	12h 48m 15.6s	+35° 15' 14"	13.2	Galaxy	0.005x0.005	Canes Venatici	
NGC 5243	13h 37m 02.7s	+38° 15' 07"	13.2	Galaxy	0.012x0.003	Canes Venatici	
NGC 5256	13h 39m 01.5s	+48° 11' 11"	13.2	Galaxy	0.01x0.009	Ursa Major	
NGC 5407	14h 01m 35.5s	+39° 04' 13"	13.2	Galaxy	0.009x0.005	Canes Venatici	
NGC 4963	13h 06m 41.1s	+41° 37' 31"	13.3	Galaxy	0.006x0.006	Canes Venatici	
NGC 5142	13h 25m 50.1s	+36° 18' 23"	13.3	Galaxy	0.008x0.005	Canes Venatici	
NGC 5341	13h 53m 18.6s	+37° 43' 43"	13.3	Galaxy	0.010x0.004	Canes Venatici	
IC 4213	13h 13m 01.3s	+35° 34' 34"	13.3	Galaxy	0.020x0.004	Canes Venatici	
NGC 4711	12h 49m 37.4s	+35° 14' 06"	13.4	Galaxy	0.010x0.006	Canes Venatici	
NGC 4837-1	12h 57m 36.5s	+48° 11' 56"	13.4	Galaxy	0.009x0.004	Canes Venatici	4837-1
NGC 5021	13h 12m 53.7s	+46° 06' 04"	13.4	Galaxy	0.012x0.005	Canes Venatici	
IC 5169	13h 28m 55.8s	+46° 34' 46"	13.5	Galaxy	0.017x0.006	Canes Venatici	
IC 5267	13h 41m 27.1s	+38° 42' 14"	13.5	Galaxy	0.011x0.004	Canes Venatici	
IC 3687	12h 43m 06.9s	+38° 24' 18"	13.5	Galaxy	0.020x0.012	Canes Venatici	
IC 4189	13h 06m 54.1s	+35° 53' 02"	13.5	Galaxy	0.010x0.007	Canes Venatici	
IC 4846	12h 58m 38.6s	+36° 16' 23"	13.6	Galaxy	0.010x0.005	Canes Venatici	
NGC 5214	13h 33m 35.3s	+41° 46' 49"	13.6	Galaxy	0.009x0.006	Canes Venatici	
NGC 5305	13h 48m 42.6s	+37° 44' 13"	13.6	Galaxy	0.012x0.009	Canes Venatici	
IC 5358-1	13h 54m 46.0s	+40° 11' 23"	13.6	Galaxy	0.009x0.002	Canes Venatici	IC 5358-1
NGC 5403	14h 00m 36.8s	+38° 05' 43"	13.6	Galaxy	0.025x0.005	Canes Venatici	
NGC 5425	14h 01m 29.6s	+48° 21' 23"	13.6	Galaxy	0.015x0.004	Ursa Major	
NGC 4392	12h 26m 11.3s	+45° 44' 53"	13.7	Galaxy	0.005x0.005	Canes Venatici	
IC 4704	12h 49m 37.2s	+41° 49' 24"	13.7	Galaxy	0.008x0.007	Canes Venatici	
IC 4741	12h 51m 48.9s	+47° 34' 26"	13.7	Galaxy	0.011x0.005	Canes Venatici	
NGC 4985	13h 09m 01.0s	+41° 34' 52"	13.7	Galaxy	0.010x0.01	Canes Venatici	
NGC 5093	13h 20m 26.2s	+40° 17' 32"	13.7	Galaxy	0.011x0.005	Canes Venatici	
NGC 5229	13h 34m 47.6s	+47° 49' 21"	13.7	Galaxy	0.027x0.004	Canes Venatici	
NGC 5401	14h 00m 30.0s	+36° 09' 05"	13.7	Galaxy	0.012x0.002	Canes Venatici	
NGC 4837-2	12h 57m 38.5s	+48° 12' 10"	13.8	Galaxy	0.008x0.003	Canes Venatici	4837-2
NGC 4917	13h 01m 44.0s	+47° 07' 33"	13.8	Galaxy	0.012x0.008	Canes Venatici	
IC 5002	13h 11m 28.1s	+36° 32' 19"	13.8	Galaxy	0.014x0.008	Canes Venatici	
NGC 5154	13h 27m 17.5s	+35° 55' 03"	13.8	Galaxy	0.011x0.01	Canes Venatici	
NGC 5276	13h 43m 09.8s	+35° 32' 02"	13.8	Galaxy	0.007x0.004	Canes Venatici	
NGC 5346	13h 53m 47.9s	+39° 29' 34"	13.8	Galaxy	0.016x0.006	Canes Venatici	
IC 4171	13h 06m 09.2s	+36° 00' 23"	13.8	Galaxy	0.007x0.004	Canes Venatici	
NGC 4655	12h 44m 27.8s	+40° 55' 15"	13.9	Galaxy	0.008x0.008	Canes Venatici	
NGC 5265	13h 40m 56.7s	+36° 46' 14"	13.9	Galaxy	0.005x0.005	Canes Venatici	
NGC 5361	13h 55m 21.5s	+38° 21' 42"	13.9	Galaxy	0.006x0.004	Canes Venatici	
NGC 5439	14h 02m 40.1s	+46° 13' 30"	13.9	Galaxy	0.009x0.003	Canes Venatici	
IC 4341	13h 54m 20.9s	+37° 26' 02"	13.9	Galaxy	0.005x0.005	Canes Venatici	
NGC 5349	13h 53m 59.6s	+37° 47' 42"	14.0	Galaxy	0.014x0.004	Canes Venatici	
IC 4100	13h 02m 54.6s	+40° 18' 44"	14.0	Galaxy	0.011x0.009	Canes Venatici	
IC 4336	13h 51m 29.2s	+39° 37' 06"	14.0	Galaxy	0.011x0.003	Canes Venatici	

Table 51: Main objects visible on chart 44 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4340	13h 54m 20.2s	+37° 17' 55"	14.0	Galaxy	0.008x0.005	Canes Venatici	
NGC 5083	13h 19m 51.7s	+39° 29' 43"	14.2	Galaxy	0.010x0.009	Canes Venatici	
IC 4062	13h 01m 48.7s	+39° 45' 43"	14.2	Galaxy	0.003x0.003	Canes Venatici	
NGC 4774	12h 53m 57.8s	+36° 43' 17"	14.3	Galaxy	0.005x0.003	Canes Venatici	Kidney Bean galaxy
NGC 4893	13h 00m 50.2s	+37° 05' 50"	14.3	Galaxy	0.003x0.002	Canes Venatici	
NGC 5003	13h 09m 26.3s	+43° 38' 29"	14.3	Galaxy	0.008x0.006	Canes Venatici	
IC 3852	12h 53m 54.6s	+35° 40' 32"	14.3	Galaxy	0.01x0.005	Canes Venatici	
IC 3888	12h 55m 36.9s	+39° 28' 29"	14.3	Galaxy	0.008x0.001	Canes Venatici	
IC 4003	13h 00m 29.6s	+38° 43' 10"	14.3	Galaxy	0.005x0.005	Canes Venatici	
IC 4049	13h 01m 33.3s	+36° 14' 57"	14.3	Galaxy	0.006x0.006	Canes Venatici	
IC 4060	13h 01m 42.3s	+40° 29' 16"	14.3	Galaxy	0.005x0.004	Canes Venatici	
NGC 5296	13h 47m 03.6s	+43° 45' 44"	14.4	Galaxy	0.007x0.005	Canes Venatici	
IC 3758	12h 46m 50.8s	+40° 40' 38"	14.4	Galaxy	0.003x0.003	Canes Venatici	
IC 3816	12h 50m 19.8s	+37° 07' 59"	14.4	Galaxy	0.004x0.004	Canes Venatici	
IC 3892	12h 55m 56.7s	+39° 07' 33"	14.4	Galaxy	0.010x0.005	Canes Venatici	
IC 3975	13h 00m 06.0s	+38° 47' 10"	14.4	Galaxy	0.005x0.003	Canes Venatici	
IC 4028	13h 01m 07.2s	+36° 09' 23"	14.4	Galaxy	0.005x0.005	Canes Venatici	
IC 4901	13h 00m 44.9s	+47° 06' 34"	14.5	Galaxy	0.008x0.008	Canes Venatici	
IC 3778	12h 47m 53.0s	+40° 29' 56"	14.5	Galaxy	0.003x0.002	Canes Venatici	
IC 3862	12h 54m 44.4s	+35° 59' 21"	14.5	Galaxy	0.010x0.005	Canes Venatici	
IC 3895	12h 55m 59.9s	+39° 06' 23"	14.5	Galaxy	0.006x0.006	Canes Venatici	
IC 4004	13h 00m 33.1s	+38° 42' 52"	14.5	Galaxy	0.006x0.006	Canes Venatici	
IC 4184	13h 06m 41.5s	+38° 44' 30"	14.5	Galaxy	0.003x0.002	Canes Venatici	
IC 4263	13h 29m 19.0s	+46° 50' 03"	14.5	Galaxy	0.015x0.003	Canes Venatici	
IC 4870	13h 00m 08.5s	+36° 57' 05"	14.6	Galaxy	0.007x0.002	Canes Venatici	
NGC 5303B	13h 48m 32.1s	+38° 10' 13"	14.6	Galaxy	0.005x0.002	Canes Venatici	5303B
IC 3916	12h 57m 21.8s	+38° 31' 01"	14.6	Galaxy	0.007x0.005	Canes Venatici	
IC 3987	13h 00m 15.4s	+38° 38' 13"	14.6	Galaxy	0.003x0.003	Canes Venatici	
IC 4065	13h 02m 01.0s	+39° 38' 52"	14.6	Galaxy	0.006x0.003	Canes Venatici	
IC 4073	13h 02m 15.6s	+39° 49' 05"	14.6	Galaxy	0.005x0.001	Canes Venatici	
IC 4086	13h 02m 33.6s	+36° 33' 04"	14.6	Galaxy	0.007x0.006	Canes Venatici	
IC 4193	13h 06m 55.9s	+39° 19' 38"	14.6	Galaxy	0.004x0.002	Canes Venatici	
IC 4201	13h 08m 41.6s	+35° 44' 17"	14.6	Galaxy	0.004x0.004	Canes Venatici	
IC 4204	13h 09m 11.1s	+39° 21' 54"	14.6	Galaxy	0.010x0.001	Canes Venatici	
IC 3713	12h 44m 54.4s	+41° 04' 16"	14.7	Galaxy	0.006x0.005	Canes Venatici	
IC 3726	12h 45m 33.9s	+40° 34' 50"	14.7	Galaxy	0.012x0.002	Canes Venatici	
IC 3783	12h 48m 18.9s	+40° 28' 06"	14.7	Galaxy	0.005x0.005	Canes Venatici	
IC 3808	12h 49m 49.8s	+40° 29' 53"	14.7	Galaxy	0.005x0.002	Canes Venatici	
IC 3920	12h 57m 40.4s	+39° 51' 43"	14.7	Galaxy	0.005x0.001	Canes Venatici	
IC 3940	12h 59m 07.4s	+35° 44' 33"	14.7	Galaxy	0.003x0.001	Canes Venatici	
IC 3746	12h 46m 23.4s	+37° 43' 32"	14.8	Galaxy	0.001x0.001	Canes Venatici	
IC 3772	12h 47m 47.8s	+36° 25' 59"	14.8	Galaxy	0.005x0.003	Canes Venatici	
IC 3850	12h 53m 30.3s	+40° 00' 20"	14.8	Galaxy	0.008x0.006	Canes Venatici	
IC 3919	12h 57m 39.3s	+38° 29' 29"	14.8	Galaxy	0.002x0.001	Canes Venatici	
IC 3922	12h 57m 48.1s	+38° 22' 53"	14.8	Galaxy	0.008x0.001	Canes Venatici	
IC 3966	13h 00m 04.0s	+35° 45' 26"	14.8	Galaxy	0.005x0.004	Canes Venatici	

Table 51: Main objects visible on chart 44 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3993	13h 00m 20.4s	+40° 30' 19"	14.8	Galaxy	0.002x0.002	Canes Venatici	
IC 4108	13h 03m 21.7s	+38° 22' 57"	14.8	Galaxy	0.006x0.003	Canes Venatici	
IC 4118	13h 03m 41.8s	+38° 11' 50"	14.8	Galaxy	0.004x0.002	Canes Venatici	
IC 4158	13h 05m 15.0s	+36° 23' 04"	14.8	Galaxy	0.004x0.001	Canes Venatici	
IC 4165	13h 05m 46.8s	+39° 49' 43"	14.8	Galaxy	0.005x0.005	Canes Venatici	
IC 4103	13h 03m 09.4s	+37° 55' 12"	14.9	Galaxy	0.006x0.004	Canes Venatici	
IC 4187	13h 06m 50.0s	+36° 12' 08"	14.9	Galaxy	0.002x0.002	Canes Venatici	
NGC 5214A	13h 33m 34.0s	+41° 46' 23"	15.0	Galaxy	0.005x0.001	Canes Venatici	5214A
IC 3795	12h 48m 56.0s	+40° 37' 15"	15.0	Galaxy	0.004x8.333	Canes Venatici	
IC 3820	12h 50m 30.4s	+37° 01' 10"	15.0	Galaxy	0.001x0.001	Canes Venatici	
IC 3863	12h 54m 44.8s	+38° 23' 00"	15.0	Galaxy	0.005x0.001	Canes Venatici	
IC 3945	12h 59m 19.8s	+39° 50' 19"	15.0	Galaxy	0.005x0.001	Canes Venatici	
IC 3952	12h 59m 42.5s	+38° 46' 22"	15.0	Galaxy	0.002x0.002	Canes Venatici	
IC 4001	13h 00m 28.1s	+38° 46' 23"	15.0	Galaxy	0.005x0.002	Canes Venatici	
IC 4002	13h 00m 31.4s	+36° 40' 04"	15.0	Galaxy	0.003x0.001	Canes Venatici	
IC 4016	13h 00m 50.5s	+37° 05' 26"	15.0	Galaxy	0.003x0.001	Canes Venatici	
IC 4027	13h 01m 04.4s	+37° 02' 39"	15.0	Galaxy	0.002x8.333	Canes Venatici	
IC 4029	13h 01m 04.5s	+38° 39' 47"	15.0	Galaxy	0.002x8.333	Canes Venatici	
IC 4034	13h 01m 10.4s	+36° 56' 57"	15.0	Galaxy	0.001x0.001	Canes Venatici	
IC 4061-1	13h 01m 47.5s	+39° 29' 12"	15.0	Galaxy	0.002x0.001	Canes Venatici	IC 4061-1
IC 4067	13h 02m 10.2s	+39° 50' 39"	15.0	Galaxy	0.002x0.002	Canes Venatici	
IC 4068	13h 02m 10.2s	+39° 48' 08"	15.0	Galaxy	0.002x0.001	Canes Venatici	
IC 4085	13h 02m 28.1s	+39° 36' 24"	15.0	Galaxy	0.002x0.001	Canes Venatici	
IC 4104	13h 03m 08.4s	+38° 29' 45"	15.0	Galaxy	0.002x0.001	Canes Venatici	
IC 4105	13h 03m 09.1s	+38° 10' 29"	15.0	Galaxy	0.002x0.002	Canes Venatici	
IC 4123	13h 03m 56.0s	+38° 13' 07"	15.0	Galaxy	0.004x0.004	Canes Venatici	
IC 4145	13h 04m 39.9s	+38° 11' 24"	15.0	Galaxy	0.005x0.001	Canes Venatici	
IC 4161	13h 05m 24.9s	+39° 52' 53"	15.0	Galaxy	0.004x8.333	Canes Venatici	
IC 4169	13h 06m 02.4s	+38° 40' 39"	15.0	Galaxy	0.001x0.001	Canes Venatici	
IC 4271-1	13h 30m 09.7s	+37° 19' 16"	15.0	Galaxy	0.005x0.003	Canes Venatici	IC 4271-1
IC 4356	13h 59m 31.2s	+37° 24' 15"	15.0	Galaxy	0.002x0.002	Canes Venatici	
IC 3723	12h 45m 21.9s	+40° 38' 20"	15.1	Galaxy	0.002x0.001	Canes Venatici	
IC 3904	12h 56m 36.6s	+36° 11' 46"	15.1	Galaxy	0.005x0.004	Canes Venatici	
IC 4077	13h 02m 24.5s	+37° 17' 24"	15.1	Galaxy	0.002x0.001	Canes Venatici	
IC 4115	13h 03m 39.4s	+37° 07' 33"	15.1	Galaxy	0.003x0.003	Canes Venatici	
IC 4178	13h 06m 32.0s	+35° 55' 17"	15.1	Galaxy	0.009x0.003	Canes Venatici	
IC 4269	13h 30m 09.2s	+37° 31' 52"	15.1	Galaxy	0.006x0.005	Canes Venatici	
IC 3828	12h 51m 11.8s	+37° 51' 06"	15.2	Galaxy	0.002x0.001	Canes Venatici	
IC 3835	12h 51m 46.6s	+40° 05' 20"	15.2	Galaxy	0.003x0.001	Canes Venatici	
IC 3842	12h 52m 26.6s	+40° 16' 27"	15.2	Galaxy	0.002x0.002	Canes Venatici	
IC 3861	12h 54m 41.7s	+38° 11' 06"	15.2	Galaxy	0.002x0.001	Canes Venatici	
IC 3885	12h 55m 33.7s	+37° 03' 26"	15.2	Galaxy	0.002x0.002	Canes Venatici	
IC 3909	12h 56m 53.1s	+40° 17' 17"	15.2	Galaxy	0.002x0.001	Canes Venatici	
IC 3930	12h 58m 12.9s	+38° 40' 04"	15.2	Galaxy	0.004x0.001	Canes Venatici	
IC 3956	12h 59m 47.1s	+37° 18' 06"	15.2	Galaxy	0.002x0.002	Canes Venatici	
IC 3967	13h 00m 03.6s	+36° 01' 58"	15.2	Galaxy	0.003x0.001	Canes Venatici	

Table 51: Main objects visible on chart 44 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4020	13h 00m 53.8s	+38° 30' 47"	15.2	Galaxy	0.006x8.333	Canes Venatici	
IC 4048	13h 01m 28.3s	+39° 44' 02"	15.2	Galaxy	0.003x0.001	Canes Venatici	
IC 4056	13h 01m 34.4s	+39° 39' 28"	15.2	Galaxy	0.006x0.005	Canes Venatici	
IC 4098	13h 02m 54.4s	+37° 53' 01"	15.2	Galaxy	0.003x0.001	Canes Venatici	
IC 4135	13h 04m 27.0s	+40° 09' 08"	15.2	Galaxy	0.007x0.005	Canes Venatici	
IC 4152	13h 04m 48.6s	+38° 06' 10"	15.2	Galaxy	0.002x0.002	Canes Venatici	
IC 4168	13h 06m 00.5s	+39° 57' 13"	15.2	Galaxy	0.005x0.003	Canes Venatici	
IC 5325	13h 51m 40.5s	+38° 11' 10"	15.3	Galaxy	0.007x0.006	Canes Venatici	
IC 3697	12h 43m 50.4s	+39° 44' 52"	15.3	Galaxy	0.006x0.005	Canes Venatici	
IC 3911-1	12h 57m 00.3s	+35° 32' 23"	15.3	Galaxy	0.002x0.002	Canes Venatici	IC 3911-1
IC 4000	13h 00m 26.8s	+39° 29' 28"	15.3	Galaxy	0.001x0.001	Canes Venatici	
IC 4038	13h 01m 12.3s	+36° 56' 35"	15.3	Galaxy	0.002x0.001	Canes Venatici	
IC 4127	13h 04m 07.7s	+37° 56' 59"	15.3	Galaxy	0.004x0.002	Canes Venatici	
IC 4144	13h 04m 40.6s	+36° 50' 46"	15.3	Galaxy	0.009x8.333	Canes Venatici	
IC 4271-2	13h 30m 09.6s	+37° 19' 02"	15.3	Galaxy	0.002x0.002	Canes Venatici	IC 4271-2
IC 3836	12h 51m 54.4s	+40° 05' 10"	15.4	Galaxy	0.002x8.333	Canes Venatici	
IC 3843	12h 52m 30.0s	+38° 54' 12"	15.4	Galaxy	0.003x0.001	Canes Venatici	
IC 3890	12h 55m 41.1s	+37° 05' 17"	15.4	Galaxy	0.002x8.333	Canes Venatici	
IC 3891	12h 55m 49.5s	+35° 57' 19"	15.4	Galaxy	0.002x0.001	Canes Venatici	
IC 3921	12h 57m 47.3s	+38° 32' 34"	15.4	Galaxy	0.004x0.001	Canes Venatici	
IC 4035	13h 01m 06.7s	+40° 12' 10"	15.4	Galaxy	0.003x0.001	Canes Venatici	
IC 4094-1	13h 02m 48.8s	+37° 41' 56"	15.4	Galaxy	0.002x0.001	Canes Venatici	IC 4094-1
IC 4278	13h 31m 12.7s	+47° 09' 16"	15.4	Galaxy	0.004x0.002	Canes Venatici	
IC 3669	12h 42m 28.9s	+41° 02' 30"	15.5	Galpart	0.002x0.002	Canes Venatici	
IC 3717	12h 45m 14.5s	+39° 25' 26"	15.5	Galaxy	0.005x0.001	Canes Venatici	
IC 3729	12h 45m 44.5s	+39° 15' 12"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 3751	12h 46m 36.7s	+37° 43' 32"	15.5	Galaxy	0.001x0.001	Canes Venatici	
IC 3800	12h 49m 18.9s	+36° 28' 37"	15.5	Galaxy	0.003x0.003	Canes Venatici	
IC 3844	12h 52m 57.2s	+39° 43' 16"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 3854-2	12h 54m 05.0s	+40° 45' 04"	15.5	Galaxy	0.002x0.002	Canes Venatici	IC 3854-2
IC 3928	12h 58m 08.6s	+40° 20' 41"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 3980	13h 00m 08.9s	+39° 03' 15"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 3997	13h 00m 27.7s	+36° 35' 54"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 4018	13h 00m 47.4s	+40° 23' 32"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 4031	13h 01m 05.7s	+39° 02' 54"	15.5	Galaxy	0.001x0.001	Canes Venatici	
IC 4037	13h 01m 09.8s	+38° 54' 20"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 4061-2	13h 01m 48.2s	+39° 29' 13"	15.5	Galaxy	0.001x0.001	Canes Venatici	IC 4061-2
IC 4063	13h 01m 56.8s	+39° 08' 54"	15.5	Galaxy	0.001x0.001	Canes Venatici	
IC 4082	13h 02m 29.8s	+37° 14' 39"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 4083	13h 02m 29.0s	+38° 02' 44"	15.5	Galaxy	0.003x0.002	Canes Venatici	
IC 4102	13h 03m 08.6s	+36° 03' 20"	15.5	Galaxy	0.001x8.333	Canes Venatici	
IC 4131	13h 04m 15.5s	+38° 51' 17"	15.5	Galaxy	0.005x0.003	Canes Venatici	
IC 4207	13h 10m 16.8s	+37° 43' 38"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 4266	13h 29m 54.0s	+37° 31' 08"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 3809	12h 49m 55.9s	+36° 23' 30"	15.6	Galaxy	0.004x0.002	Canes Venatici	
IC 3832	12h 51m 39.9s	+39° 42' 44"	15.6	Galaxy	0.004x0.004	Canes Venatici	

Table 51: Main objects visible on chart 44 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3897	12h 56m 09.6s	+39° 34' 33"	15.6	Galaxy	0.002x0.001	Canes Venatici	
IC 4268	13h 30m 00.5s	+37° 34' 06"	15.6	Galaxy	0.001x0.001	Canes Venatici	
IC 3771	12h 47m 43.9s	+39° 04' 32"	15.7	Galaxy	0.002x0.001	Canes Venatici	
IC 3774	12h 47m 52.7s	+36° 11' 24"	15.7	Galaxy	0.007x0.003	Canes Venatici	
IC 3855	12h 54m 13.8s	+36° 41' 20"	15.7	Galaxy	0.004x0.001	Canes Venatici	
IC 3879	12h 55m 22.8s	+38° 31' 53"	15.7	Galaxy	0.005x0.004	Canes Venatici	
IC 3893	12h 55m 58.3s	+38° 31' 38"	15.7	Galaxy	0.003x0.001	Canes Venatici	
IC 3914	12h 57m 13.7s	+36° 15' 48"	15.7	Galaxy	0.001x0.001	Canes Venatici	
IC 3941	12h 59m 04.1s	+39° 40' 35"	15.7	Galaxy	0.002x0.002	Canes Venatici	
IC 4010	13h 00m 44.4s	+37° 45' 46"	15.7	Galaxy	0.003x0.001	Canes Venatici	
IC 4069	13h 02m 15.6s	+36° 00' 57"	15.7	Galaxy	0.002x8.333	Canes Venatici	
IC 4114	13h 03m 31.9s	+40° 00' 30"	15.7	Galaxy	0.002x8.333	Canes Venatici	
IC 4151	13h 04m 49.6s	+36° 45' 39"	15.7	Galaxy	0.002x0.001	Canes Venatici	
IC 4188	13h 06m 52.8s	+36° 13' 52"	15.7	Galaxy	0.005x0.002	Canes Venatici	
IC 4277	13h 31m 01.8s	+47° 13' 19"	15.7	Galaxy	0.007x8.333	Canes Venatici	
NGC 5143	13h 25m 50.3s	+36° 20' 39"	15.8	Galaxy	0.005x0.003	Canes Venatici	
IC 3786	12h 48m 28.1s	+38° 56' 54"	15.8	Galaxy	0.003x0.002	Canes Venatici	
IC 4043	13h 01m 25.5s	+36° 58' 27"	15.9	Galaxy	0.007x0.002	Canes Venatici	
IC 3853	12h 54m 01.4s	+38° 43' 55"	16.0	Galaxy	0.003x0.002	Canes Venatici	
IC 3854-1	12h 54m 03.1s	+40° 45' 05"	16.0	Galaxy	0.004x0.001	Canes Venatici	IC 3854-1
IC 3911-2	12h 57m 00.7s	+35° 32' 30"	16.0	Galaxy	0.001x0.001	Canes Venatici	IC 3911-2
IC 4284	13h 32m 17.3s	+46° 42' 09"	16.0	Galaxy	0.001x0.001	Canes Venatici	

7.46 Main objects visible on chart 45

Table 52: Main objects visible on chart 45

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5371	13h 56m 25.4s	+40° 22' 29"	10.6	Galaxy	0.035x0.028	Canes Venatici	
NGC 5353	13h 54m 12.4s	+40° 11' 42"	11.0	Galaxy	0.018x0.009	Canes Venatici	
NGC 5557	14h 19m 10.8s	+36° 24' 40"	11.0	Galaxy	0.02x0.015	Bootes	
NGC 5350	13h 54m 07.1s	+40° 16' 33"	11.3	Galaxy	0.026x0.019	Canes Venatici	
NGC 5377	13h 56m 59.4s	+47° 08' 53"	11.3	Galaxy	0.039x0.02	Canes Venatici	
NGC 5354	13h 54m 12.3s	+40° 12' 54"	11.4	Galaxy	0.011x0.010	Canes Venatici	
NGC 5383	13h 57m 49.7s	+41° 45' 32"	11.4	Galaxy	0.026x0.022	Canes Venatici	
NGC 5395	13h 59m 24.1s	+37° 20' 18"	11.4	Galaxy	0.022x0.010	Canes Venatici	
NGC 5582	14h 21m 27.0s	+39° 36' 43"	11.6	Galaxy	0.023x0.014	Bootes	
NGC 5899	15h 15m 42.3s	+41° 59' 02"	11.7	Galaxy	0.027x0.011	Bootes	
NGC 5297	13h 47m 08.4s	+43° 46' 59"	11.8	Galaxy	0.046x0.010	Canes Venatici	
NGC 5533	14h 16m 53.2s	+35° 15' 39"	11.8	Galaxy	0.025x0.015	Bootes	
NGC 5656	14h 31m 10.3s	+35° 14' 32"	11.8	Galaxy	0.015x0.012	Bootes	
NGC 5326	13h 51m 36.6s	+39° 29' 12"	11.9	Galaxy	0.018x0.01	Canes Venatici	
NGC 5444	14h 04m 10.8s	+35° 02' 48"	11.9	Galaxy	0.020x0.016	Canes Venatici	
NGC 5529	14h 16m 19.5s	+36° 08' 38"	11.9	Galaxy	0.05x0.005	Bootes	
NGC 5689	14h 36m 07.7s	+48° 39' 49"	11.9	Galaxy	0.027x0.008	Bootes	

Table 52: Main objects visible on chart 45 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5313	13h 50m 30.3s	+39° 53' 47"	12.0	Galaxy	0.014x0.008	Canes Venatici	
NGC 5320	13h 51m 05.7s	+41° 16' 39"	12.1	Galaxy	0.03x0.014	Canes Venatici	
NGC 5351	13h 54m 14.4s	+37° 49' 37"	12.1	Galaxy	0.024x0.013	Canes Venatici	
NGC 5739	14h 43m 10.2s	+41° 46' 02"	12.1	Galaxy	0.019x0.017	Bootes	
NGC 5930	15h 26m 46.6s	+41° 36' 49"	12.2	Galaxy	0.007x0.006	Bootes	
NGC 5311	13h 49m 41.9s	+39° 53' 51"	12.3	Galaxy	0.021x0.019	Canes Venatici	
NGC 5362	13h 55m 38.3s	+41° 13' 33"	12.3	Galaxy	0.018x0.008	Canes Venatici	
NGC 5380	13h 57m 43.0s	+37° 31' 22"	12.3	Galaxy	0.014x0.014	Canes Venatici	
NGC 5406	14h 01m 05.7s	+38° 49' 43"	12.3	Galaxy	0.015x0.011	Canes Venatici	
NGC 5590	14h 22m 23.8s	+35° 07' 24"	12.3	Galaxy	0.015x0.015	Bootes	
NGC 5633	14h 28m 08.8s	+46° 04' 03"	12.4	Galaxy	0.017x0.009	Bootes	
NGC 5784	14h 54m 56.5s	+42° 29' 10"	12.4	Galaxy	0.015x0.015	Bootes	
NGC 5378	13h 57m 37.1s	+37° 42' 35"	12.5	Galaxy	0.022x0.018	Canes Venatici	
NGC 5337	13h 53m 08.9s	+39° 35' 59"	12.6	Galaxy	0.014x0.006	Canes Venatici	
NGC 5301	13h 47m 08.3s	+46° 01' 05"	12.7	Galaxy	0.033x0.006	Canes Venatici	
NGC 5541-1	14h 17m 15.9s	+39° 30' 20"	12.7	Galaxy	0.006x0.005	Bootes	5541-1
NGC 5684	14h 36m 34.1s	+36° 27' 57"	12.7	Galaxy	0.012x0.010	Bootes	
NGC 5336	13h 52m 54.5s	+43° 09' 17"	12.8	Galaxy	0.011x0.008	Canes Venatici	
NGC 5675	14h 33m 24.1s	+36° 13' 26"	12.8	Galaxy	0.023x0.008	Bootes	
NGC 5695	14h 38m 06.0s	+36° 29' 25"	12.8	Galaxy	0.012x0.009	Bootes	
NGC 5772	14h 52m 20.2s	+40° 31' 34"	12.8	Galaxy	0.017x0.010	Bootes	
NGC 5945	15h 30m 22.5s	+42° 51' 29"	12.8	Galaxy	0.024x0.015	Bootes	
NGC 5515	14h 13m 22.7s	+39° 13' 34"	12.9	Galaxy	0.010x0.005	Bootes	
NGC 5352	13h 54m 25.3s	+36° 02' 46"	13.0	Galaxy	0.01x0.008	Canes Venatici	
NGC 5394	13h 59m 19.9s	+37° 21' 60"	13.0	Galaxy	0.015x0.010	Canes Venatici	
NGC 5445	14h 04m 18.0s	+34° 56' 20"	13.0	Galaxy	0.012x0.005	Canes Venatici	
NGC 5544	14h 17m 47.7s	+36° 29' 18"	13.0	Galaxy	0.009x0.008	Bootes	
NGC 5598	14h 23m 11.9s	+40° 14' 20"	13.0	Galaxy	0.013x0.009	Bootes	
NGC 5603	14h 23m 45.0s	+40° 17' 48"	13.0	Galaxy	0.009x0.009	Bootes	
NGC 5630	14h 28m 19.2s	+41° 10' 41"	13.0	Galaxy	0.018x0.005	Bootes	
NGC 5654	14h 30m 46.0s	+36° 16' 51"	13.0	Galaxy	0.012x0.008	Bootes	
NGC 5696	14h 37m 38.7s	+41° 45' 03"	13.0	Galaxy	0.016x0.012	Bootes	
NGC 5698	14h 37m 57.8s	+38° 22' 37"	13.0	Galaxy	0.015x0.007	Bootes	
NGC 5754	14h 46m 02.2s	+38° 39' 27"	13.0	Galaxy	0.016x0.015	Bootes	
NGC 5355	13h 54m 31.1s	+40° 15' 03"	13.1	Galaxy	0.01x0.005	Canes Venatici	
NGC 5410	14h 01m 39.3s	+40° 54' 06"	13.1	Galaxy	0.012x0.006	Canes Venatici	
NGC 5893	15h 14m 13.5s	+41° 53' 34"	13.1	Galaxy	0.01x0.009	Bootes	
NGC 5923	15h 21m 53.0s	+41° 39' 45"	13.1	Galaxy	0.015x0.015	Bootes	
NGC 5929	15h 26m 44.7s	+41° 36' 32"	13.1	Galaxy	0.007x0.006	Bootes	
NGC 5407	14h 01m 35.5s	+39° 04' 13"	13.2	Galaxy	0.009x0.005	Canes Venatici	
NGC 5622	14h 26m 51.1s	+48° 29' 02"	13.2	Galaxy	0.014x0.008	Bootes	
NGC 5731	14h 40m 50.3s	+42° 42' 09"	13.2	Galaxy	0.013x0.003	Bootes	
NGC 5787	14h 55m 55.5s	+42° 26' 06"	13.2	Galaxy	0.008x0.007	Bootes	
NGC 5860	15h 07m 12.9s	+42° 34' 24"	13.2	Galaxy	0.007x0.005	Bootes	
NGC 5918	15h 20m 01.5s	+45° 48' 57"	13.2	Galaxy	0.015x0.006	Bootes	
NGC 5943	15h 30m 21.7s	+42° 43' 03"	13.2	Galaxy	0.010x0.010	Bootes	

Table 52: Main objects visible on chart 45 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5341	13h 53m 18.6s	+37° 43' 43"	13.3	Galaxy	0.010x0.004	Canes Venatici	
NGC 5500	14h 10m 55.9s	+48° 27' 44"	13.3	Galaxy	0.008x0.007	Bootes	
NGC 5589	14h 22m 10.4s	+35° 11' 20"	13.3	Galaxy	0.009x0.009	Bootes	
NGC 5608	14h 24m 00.4s	+41° 41' 40"	13.3	Galaxy	0.018x0.01	Bootes	
NGC 5704	14h 38m 58.5s	+40° 22' 50"	13.3	Galaxy	0.013x0.005	Bootes	
NGC 5714	14h 38m 51.2s	+46° 33' 39"	13.4	Galaxy	0.026x0.003	Bootes	
NGC 5888	15h 13m 47.0s	+41° 11' 52"	13.4	Galaxy	0.010x0.006	Bootes	
NGC 5536	14h 17m 07.9s	+39° 25' 10"	13.5	Galaxy	0.01x0.008	Bootes	
NGC 5596	14h 23m 13.3s	+37° 02' 29"	13.5	Galaxy	0.009x0.006	Bootes	
NGC 5693	14h 36m 49.5s	+48° 30' 27"	13.5	Galaxy	0.015x0.012	Bootes	
NGC 5732	14h 41m 21.8s	+38° 33' 42"	13.5	Galaxy	0.011x0.005	Bootes	
NGC 5755	14h 46m 07.1s	+38° 42' 19"	13.5	Galaxy	0.010x0.008	Bootes	
IC 5358-1	13h 54m 46.0s	+40° 11' 23"	13.6	Galaxy	0.009x0.002	Canes Venatici	IC 5358-1
NGC 5403	14h 00m 36.8s	+38° 05' 43"	13.6	Galaxy	0.025x0.005	Canes Venatici	
NGC 5425	14h 01m 29.6s	+48° 21' 23"	13.6	Galaxy	0.015x0.004	Ursa Major	
NGC 5499	14h 11m 33.6s	+35° 49' 46"	13.6	Galaxy	0.007x0.005	Bootes	
NGC 5579	14h 21m 12.0s	+35° 06' 26"	13.6	Galaxy	0.015x0.011	Bootes	
NGC 5401	14h 00m 30.0s	+36° 09' 05"	13.7	Galaxy	0.012x0.002	Canes Venatici	
NGC 5853	15h 06m 34.2s	+39° 27' 14"	13.7	Galaxy	0.012x0.007	Bootes	
NGC 5947	15h 31m 14.3s	+42° 39' 25"	13.7	Galaxy	0.01x0.01	Bootes	
NGC 5346	13h 53m 47.9s	+39° 29' 34"	13.8	Galaxy	0.016x0.006	Canes Venatici	
NGC 5517	14h 13m 37.2s	+35° 37' 39"	13.8	Galaxy	0.008x0.006	Bootes	
NGC 5527	14h 15m 12.7s	+36° 19' 16"	13.8	Galaxy	0.006x0.005	Bootes	
NGC 5616	14h 25m 05.5s	+36° 22' 50"	13.8	Galaxy	0.017x0.003	Bootes	
NGC 5625-1	14h 27m 45.7s	+39° 52' 38"	13.8	Galaxy	0.01x0.006	Bootes	5625-1
NGC 5697	14h 37m 13.8s	+41° 36' 28"	13.8	Galaxy	0.009x0.005	Bootes	
NGC 5361	13h 55m 21.5s	+38° 21' 42"	13.9	Galaxy	0.006x0.004	Canes Venatici	
NGC 5439	14h 02m 40.1s	+46° 13' 30"	13.9	Galaxy	0.009x0.003	Canes Venatici	
NGC 5934	15h 28m 50.3s	+42° 52' 06"	13.9	Galaxy	0.010x0.005	Bootes	
IC 4341	13h 54m 20.9s	+37° 26' 02"	13.9	Galaxy	0.005x0.005	Canes Venatici	
NGC 5349	13h 53m 59.6s	+37° 47' 42"	14.0	Galaxy	0.014x0.004	Canes Venatici	
NGC 5730	14h 40m 33.2s	+42° 39' 57"	14.0	Galaxy	0.015x0.003	Bootes	
NGC 5752	14h 45m 56.8s	+38° 39' 14"	14.0	Galaxy	0.004x0.001	Bootes	
NGC 5767	14h 50m 12.0s	+47° 18' 08"	14.0	Galaxy	0.007x0.005	Bootes	
NGC 5900	15h 15m 44.1s	+42° 08' 37"	14.0	Galaxy	0.014x0.004	Bootes	
IC 1028	14h 33m 58.5s	+41° 34' 20"	14.0	Galaxy	0.009x0.005	Bootes	
IC 4336	13h 51m 29.2s	+39° 37' 06"	14.0	Galaxy	0.011x0.003	Canes Venatici	
IC 4340	13h 54m 20.2s	+37° 17' 55"	14.0	Galaxy	0.008x0.005	Canes Venatici	
IC 4492	14h 43m 17.1s	+37° 22' 37"	14.0	Galaxy	0.002x0.002	Bootes	
NGC 5497	14h 11m 16.4s	+38° 48' 34"	14.1	Galaxy	0.01x0.005	Bootes	
NGC 5682	14h 35m 23.4s	+48° 35' 32"	14.1	Galaxy	0.013x0.005	Bootes	
NGC 5886	15h 13m 25.0s	+41° 10' 02"	14.1	Galaxy	0.007x0.003	Bootes	
NGC 5572	14h 20m 20.6s	+36° 03' 31"	14.2	Galaxy	0.007x0.005	Bootes	
NGC 5646	14h 30m 18.7s	+35° 22' 57"	14.2	Galaxy	0.012x0.003	Bootes	
NGC 5830	15h 02m 27.4s	+47° 48' 20"	14.2	Galaxy	0.008x0.005	Bootes	
NGC 5895	15h 14m 29.2s	+41° 56' 29"	14.2	Galaxy	0.007x0.001	Bootes	

Table 52: Main objects visible on chart 45 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1033	14h 35m 20.5s	+47° 51' 35"	14.2	Galaxy	0.009x0.005	Bootes	
IC 4435	14h 28m 08.4s	+37° 23' 31"	14.2	Galaxy	0.005x0.005	Bootes	
NGC 5296	13h 47m 03.6s	+43° 45' 44"	14.4	Galaxy	0.007x0.005	Canes Venatici	
NGC 5603B	14h 23m 39.9s	+40° 20' 08"	14.4	Galaxy	0.016x0.016	Bootes	5603B
NGC 5686	14h 36m 46.6s	+36° 25' 33"	14.4	Galaxy	0.005x0.005	Bootes	
NGC 5717	14h 39m 16.7s	+46° 35' 12"	14.4	Galaxy	0.006x0.004	Bootes	
NGC 5914	15h 19m 22.6s	+41° 48' 02"	14.4	Galaxy	0.006x0.002	Bootes	
NGC 5700	14h 37m 39.7s	+48° 28' 04"	14.5	Galaxy	0.008x0.003	Bootes	
IC 4519	14h 55m 27.0s	+37° 20' 26"	14.5	Galaxy	0.005x0.003	Bootes	
NGC 5601	14h 23m 36.6s	+40° 13' 43"	14.6	Galaxy	0.006x0.002	Bootes	
NGC 5723	14h 39m 36.8s	+46° 36' 47"	14.6	Galaxy	0.005x0.001	Bootes	
IC 4380	14h 10m 47.5s	+37° 27' 58"	14.6	Galaxy	0.004x0.004	Bootes	
IC 4413	14h 23m 41.8s	+37° 26' 49"	14.6	Galaxy	0.002x0.002	Bootes	
NGC 5541-2	14h 17m 16.3s	+39° 30' 33"	14.7	Galaxy	0.003x0.001	Bootes	5541-2
NGC 5722	14h 39m 33.4s	+46° 35' 21"	14.7	Galaxy	0.002x0.002	Bootes	
IC 1032	14h 35m 17.8s	+47° 53' 26"	14.7	Galaxy	0.003x0.002	Bootes	
IC 4500	14h 45m 18.7s	+37° 24' 27"	14.7	Galaxy	0.002x0.001	Bootes	
IC 990	14h 16m 33.3s	+39° 42' 55"	14.7	Galaxy	0.005x0.003	Bootes	
NGC 5683	14h 35m 30.6s	+48° 35' 04"	14.8	Galaxy	0.003x0.002	Bootes	
NGC 5935	15h 28m 54.3s	+42° 52' 60"	14.8	Galaxy	0.005x0.002	Bootes	
IC 1031	14h 35m 02.6s	+47° 57' 35"	14.8	Galaxy	0.007x0.005	Bootes	
NGC 5721	14h 39m 32.1s	+46° 35' 51"	14.9	Galaxy	0.002x0.001	Bootes	
IC 4515	14h 51m 49.4s	+37° 25' 19"	14.9	Galaxy	0.005x0.004	Bootes	
NGC 5545	14h 17m 50.1s	+36° 29' 31"	15.0	Galaxy	0.008x0.002	Bootes	
NGC 5625-2	14h 27m 43.8s	+39° 52' 34"	15.0	Galaxy	0.002x0.001	Bootes	5625-2
NGC 5753	14h 46m 01.4s	+38° 43' 52"	15.0	Galaxy	0.005x0.004	Bootes	
IC 4356	13h 59m 31.2s	+37° 24' 15"	15.0	Galaxy	0.002x0.002	Canes Venatici	
IC 4502	14h 45m 59.0s	+37° 13' 28"	15.0	Galaxy	0.005x0.002	Bootes	
IC 4446	14h 29m 45.6s	+37° 23' 02"	15.2	Galaxy	0.007x0.003	Bootes	
IC 5325	13h 51m 40.5s	+38° 11' 10"	15.3	Galaxy	0.007x0.006	Canes Venatici	
NGC 5896	15h 14m 29.7s	+41° 57' 31"	15.3	Galaxy	0.002x0.001	Bootes	
NGC 5889	15h 13m 55.3s	+41° 15' 40"	15.4	Galaxy	0.007x0.002	Bootes	
IC 4535	15h 09m 23.4s	+37° 30' 08"	15.5	Galaxy	0.003x0.001	Bootes	
NGC 5914B-2	15h 19m 25.2s	+41° 49' 19"	15.7	Galaxy	0.005x0.003	Bootes	5914B-2
NGC 5914B-1	15h 19m 24.2s	+41° 49' 33"	16.0	Galaxy	0.002x0.001	Bootes	5914B-1

7.47 Main objects visible on chart 46

Table 53: Main objects visible on chart 46

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6205	16h 42m 20.1s	+36° 25' 39"	5.8	Globular cluster	0.166x0.166	Hercules	M13, Hercules cluster
NGC 6229	16h 47m 29.3s	+47° 29' 49"	9.4	Globular cluster	0.037x0.037	Hercules	
NGC 6207	16h 43m 42.0s	+36° 47' 57"	11.6	Galaxy	0.025x0.01	Hercules	
NGC 5899	15h 15m 42.3s	+41° 59' 02"	11.7	Galaxy	0.027x0.011	Bootes	

Table 53: Main objects visible on chart 46 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6166	16h 29m 15.5s	+39° 30' 45"	11.8	Galaxy	0.015x0.011	Hercules	
NGC 6173	16h 30m 21.2s	+40° 46' 22"	12.1	Galaxy	0.015x0.011	Hercules	
NGC 5930	15h 26m 46.6s	+41° 36' 49"	12.2	Galaxy	0.007x0.006	Bootes	
NGC 5966	15h 36m 31.4s	+39° 42' 37"	12.2	Galaxy	0.015x0.009	Bootes	
NGC 6155	16h 26m 38.8s	+48° 19' 40"	12.3	Galaxy	0.010x0.007	Hercules	
NGC 6137	16h 23m 41.4s	+37° 52' 53"	12.4	Galaxy	0.015x0.01	Corona Borealis	
NGC 6146	16h 25m 46.5s	+40° 51' 08"	12.5	Galaxy	0.010x0.008	Hercules	
NGC 6239	16h 50m 39.4s	+42° 42' 35"	12.5	Galaxy	0.02x0.009	Hercules	
IC 1153	15h 57m 35.4s	+48° 07' 03"	12.6	Galaxy	0.01x0.009	Hercules	
IC 4562	15h 36m 34.0s	+43° 26' 03"	12.6	Galaxy	0.01x0.01	Bootes	
NGC 5945	15h 30m 22.5s	+42° 51' 29"	12.8	Galaxy	0.024x0.015	Bootes	
IC 4567	15h 37m 50.2s	+43° 14' 22"	12.8	Galaxy	0.011x0.008	Bootes	
NGC 6058	16h 05m 03.9s	+40° 38' 07"	12.9	Planetary Nebula	0.005x0.005	Hercules	
NGC 6196	16h 38m 32.7s	+36° 02' 17"	12.9	Galaxy	0.016x0.01	Hercules	
NGC 6195	16h 37m 09.7s	+38° 59' 34"	13.0	Galaxy	0.012x0.009	Hercules	
NGC 5893	15h 14m 13.5s	+41° 53' 34"	13.1	Galaxy	0.01x0.009	Bootes	
NGC 5923	15h 21m 53.0s	+41° 39' 45"	13.1	Galaxy	0.015x0.015	Bootes	
NGC 5929	15h 26m 44.7s	+41° 36' 32"	13.1	Galaxy	0.007x0.006	Bootes	
NGC 5993	15h 45m 05.5s	+41° 03' 54"	13.1	Galaxy	0.01x0.0075	Bootes	
IC 1152	15h 57m 15.5s	+48° 02' 37"	13.1	Galaxy	0.01x0.01	Hercules	
NGC 5860	15h 07m 12.9s	+42° 34' 24"	13.2	Galaxy	0.007x0.005	Bootes	
NGC 5918	15h 20m 01.5s	+45° 48' 57"	13.2	Galaxy	0.015x0.006	Bootes	
NGC 5943	15h 30m 21.7s	+42° 43' 03"	13.2	Galaxy	0.010x0.010	Bootes	
NGC 6160	16h 28m 17.3s	+40° 53' 18"	13.2	Galaxy	0.015x0.012	Hercules	
NGC 6104	16h 17m 10.4s	+35° 39' 50"	13.3	Galaxy	0.006x0.005	Corona Borealis	
NGC 6131	16h 22m 30.0s	+38° 53' 43"	13.3	Galaxy	0.008x0.008	Corona Borealis	
IC 4566	15h 37m 19.0s	+43° 28' 52"	13.3	Galaxy	0.013x0.008	Bootes	
NGC 5888	15h 13m 47.0s	+41° 11' 52"	13.4	Galaxy	0.010x0.006	Bootes	
NGC 6185	16h 33m 57.3s	+35° 18' 19"	13.4	Galaxy	0.01x0.0075	Hercules	
NGC 6038	16h 03m 19.7s	+37° 18' 38"	13.5	Galaxy	0.009x0.009	Corona Borealis	
IC 1144	15h 51m 57.7s	+43° 21' 54"	13.5	Galaxy	0.008x0.005	Hercules	
IC 1222	16h 35m 41.0s	+46° 10' 39"	13.5	Galaxy	0.014x0.010	Hercules	
IC 4564	15h 37m 03.8s	+43° 27' 36"	13.5	Galaxy	0.010x0.004	Bootes	
NGC 6013	15h 53m 30.7s	+40° 35' 38"	13.6	Galaxy	0.011x0.006	Hercules	
NGC 6117	16h 19m 57.1s	+37° 03' 10"	13.6	Galaxy	0.01x0.01	Corona Borealis	
NGC 6126	16h 22m 07.0s	+36° 20' 08"	13.6	Galaxy	0.008x0.008	Corona Borealis	
NGC 6177	16h 31m 18.6s	+35° 01' 03"	13.6	Galaxy	0.014x0.01	Hercules	
NGC 5947	15h 31m 14.3s	+42° 39' 25"	13.7	Galaxy	0.01x0.01	Bootes	
NGC 5992	15h 44m 59.5s	+41° 01' 48"	13.7	Galaxy	0.007x0.005	Bootes	
NGC 6158	16h 28m 18.1s	+39° 20' 39"	13.7	Galaxy	0.007x0.005	Hercules	
NGC 6175-1	16h 30m 33.7s	+40° 35' 31"	13.7	Galaxy	0.010x0.006	Hercules	6175-1
NGC 5950	15h 32m 09.6s	+40° 22' 13"	13.8	Galaxy	0.012x0.006	Bootes	
NGC 6142	16h 23m 59.7s	+37° 13' 03"	13.8	Galaxy	0.016x0.004	Corona Borealis	
NGC 6194	16h 37m 15.9s	+36° 09' 54"	13.8	Galaxy	0.008x0.006	Hercules	
IC 1221	16h 35m 13.3s	+46° 21' 19"	13.8	Galaxy	0.010x0.009	Hercules	
IC 4612	16h 34m 26.8s	+39° 13' 36"	13.8	Galaxy	0.005x0.005	Hercules	

Table 53: Main objects visible on chart 46 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5934	15h 28m 50.3s	+42° 52' 06"	13.9	Galaxy	0.010x0.005	Bootes	
NGC 6120	16h 20m 26.6s	+37° 43' 55"	13.9	Galaxy	0.008x0.005	Corona Borealis	
NGC 5900	15h 15m 44.1s	+42° 08' 37"	14.0	Galaxy	0.014x0.004	Bootes	
NGC 6129	16h 22m 21.5s	+37° 57' 17"	14.0	Galaxy	0.006x0.006	Corona Borealis	
NGC 6150	16h 26m 26.4s	+40° 26' 56"	14.0	Galaxy	0.010x0.004	Hercules	
NGC 6174	16h 29m 59.9s	+40° 50' 12"	14.0	Galaxy	0.005x0.005	Hercules	
NGC 6175-2	16h 30m 34.3s	+40° 35' 23"	14.0	Galaxy	0.005x0.005	Hercules	6175-2
NGC 6184	16h 32m 10.7s	+40° 31' 41"	14.0	Galaxy	0.006x0.004	Hercules	
NGC 5886	15h 13m 25.0s	+41° 10' 02"	14.1	Galaxy	0.007x0.003	Bootes	
NGC 6180	16h 31m 10.2s	+40° 30' 06"	14.1	Galaxy	0.007x0.005	Hercules	
IC 4565	15h 37m 12.1s	+43° 22' 00"	14.1	Galaxy	0.007x0.004	Bootes	
NGC 5830	15h 02m 27.4s	+47° 48' 20"	14.2	Galaxy	0.008x0.005	Bootes	
NGC 5895	15h 14m 29.2s	+41° 56' 29"	14.2	Galaxy	0.007x0.001	Bootes	
NGC 6145	16h 25m 38.7s	+40° 54' 22"	14.2	Galaxy	0.006x0.003	Hercules	
NGC 6159	16h 28m 00.1s	+42° 38' 28"	14.2	Galaxy	0.011x0.008	Hercules	
NGC 6212	16h 43m 59.6s	+39° 46' 28"	14.2	Galaxy	0.005x0.003	Hercules	
NGC 6069	16h 08m 19.8s	+38° 53' 04"	14.3	Galaxy	0.006x0.006	Corona Borealis	
NGC 6114	16h 19m 03.5s	+35° 07' 54"	14.3	Galaxy	0.01x0.005	Corona Borealis	
NGC 6116	16h 19m 34.5s	+35° 06' 40"	14.3	Galaxy	0.018x0.007	Corona Borealis	
NGC 6150B	16h 26m 20.9s	+40° 26' 08"	14.3	Galaxy	0.004x0.001	Hercules	6150B
IC 4563	15h 36m 42.6s	+39° 46' 22"	14.3	Galaxy	0.006x0.003	Bootes	
IC 4614	16h 38m 26.1s	+36° 04' 47"	14.3	Galaxy	0.006x0.005	Hercules	
NGC 5914	15h 19m 22.6s	+41° 48' 02"	14.4	Galaxy	0.006x0.002	Bootes	
IC 1208	16h 16m 27.1s	+36° 29' 01"	14.4	Galaxy	0.008x0.001	Corona Borealis	
IC 4562A	15h 36m 39.6s	+43° 26' 42"	14.4	Galaxy	0.002x0.002	Bootes	IC 4562A
NGC 6131B	16h 22m 38.1s	+38° 52' 28"	14.5	Galaxy	0.003x0.001	Corona Borealis	6131B
NGC 6166C	16h 29m 00.2s	+39° 31' 54"	14.5	Galaxy	0.003x0.003	Hercules	
NGC 6122	16h 20m 47.8s	+37° 45' 23"	14.6	Galaxy	0.007x0.002	Corona Borealis	
NGC 6197	16h 38m 38.8s	+35° 57' 39"	14.6	Galaxy	0.010x0.004	Hercules	
IC 1226	16h 41m 38.4s	+45° 58' 13"	14.6	Galaxy	0.003x0.002	Hercules	
NGC 6137B	16h 23m 37.9s	+37° 54' 29"	14.7	Galaxy	0.004x0.004	Corona Borealis	6137B
NGC 5935	15h 28m 54.3s	+42° 52' 60"	14.8	Galaxy	0.005x0.002	Bootes	
NGC 6166D	16h 29m 16.2s	+39° 28' 48"	14.8	Galaxy	0.003x0.002	Hercules	
NGC 6141	16h 23m 42.7s	+40° 49' 02"	14.9	Galaxy	0.002x0.002	Hercules	
NGC 6166B	16h 29m 30.1s	+39° 31' 20"	14.9	Galaxy	0.003x0.002	Hercules	6166B
IC 4557	15h 35m 16.2s	+39° 40' 13"	14.9	Galaxy	0.003x0.002	Bootes	
NGC 6166A	16h 29m 08.1s	+39° 28' 56"	15.0	Galaxy	0.002x0.001	Hercules	6166A
IC 4611	16h 34m 19.2s	+39° 08' 56"	15.0	Galaxy	0.004x0.004	Hercules	
NGC 6117B	16h 20m 00.5s	+37° 01' 35"	15.1	Galaxy	0.005x0.002	Corona Borealis	6117B
NGC 6147	16h 25m 42.1s	+40° 53' 19"	15.1	Galaxy	0.003x0.002	Hercules	
NGC 6241	16h 50m 43.1s	+45° 23' 28"	15.2	Galaxy	0.008x0.006	Hercules	
IC 4610	16h 34m 16.3s	+39° 13' 15"	15.2	Galaxy	0.005x0.001	Hercules	
IC 4617	16h 42m 46.6s	+36° 39' 03"	15.2	Galaxy	0.01x0.003	Hercules	
NGC 5896	15h 14m 29.7s	+41° 57' 31"	15.3	Galaxy	0.002x0.001	Bootes	
NGC 6119	16h 20m 20.5s	+37° 45' 52"	15.3	Galaxy	0.005x0.004	Corona Borealis	
NGC 6179	16h 31m 26.6s	+35° 03' 54"	15.3	Galaxy	0.003x0.003	Hercules	

Table 53: Main objects visible on chart 46 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5889	15h 13m 55.3s	+41° 15' 40"	15.4	Galaxy	0.007x0.002	Bootes	
NGC 5914B-2	15h 19m 25.2s	+41° 49' 19"	15.7	Galaxy	0.005x0.003	Bootes	5914B-2
IC 4560	15h 36m 33.1s	+39° 45' 21"	15.7	Galaxy	0.003x0.001	Bootes	
NGC 5914B-1	15h 19m 24.2s	+41° 49' 33"	16.0	Galaxy	0.002x0.001	Bootes	5914B-1

7.48 Main objects visible on chart 47

Table 54: Main objects visible on chart 47

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6205	16h 42m 20.1s	+36° 25' 39"	5.8	Globular cluster	0.166x0.166	Hercules	M13, Hercules cluster
NGC 6341	17h 17m 40.5s	+43° 07' 06"	6.5	Globular cluster	0.116x0.116	Hercules	M92
NGC 6229	16h 47m 29.3s	+47° 29' 49"	9.4	Globular cluster	0.037x0.037	Hercules	
NGC 6207	16h 43m 42.0s	+36° 47' 57"	11.6	Galaxy	0.025x0.01	Hercules	
NGC 6173	16h 30m 21.2s	+40° 46' 22"	12.1	Galaxy	0.015x0.011	Hercules	
IC 1265	17h 37m 13.0s	+42° 04' 44"	12.3	Galaxy	0.016x0.007	Hercules	
NGC 6239	16h 50m 39.4s	+42° 42' 35"	12.5	Galaxy	0.02x0.009	Hercules	
NGC 6339	17h 17m 41.5s	+40° 49' 35"	12.7	Galaxy	0.024x0.014	Hercules	
NGC 6255	16h 55m 25.7s	+36° 28' 25"	12.8	Galaxy	0.03x0.0125	Hercules	
NGC 6329	17h 14m 47.9s	+43° 39' 55"	12.8	Galaxy	0.015x0.015	Hercules	
NGC 6447	17h 46m 55.3s	+35° 33' 59"	12.8	Galaxy	0.013x0.007	Hercules	
NGC 6524	17h 59m 45.3s	+45° 53' 16"	12.8	Galaxy	0.011x0.008	Hercules	
NGC 6196	16h 38m 32.7s	+36° 02' 17"	12.9	Galaxy	0.016x0.01	Hercules	
NGC 6195	16h 37m 09.7s	+38° 59' 34"	13.0	Galaxy	0.012x0.009	Hercules	
NGC 6350	17h 19m 16.5s	+41° 40' 36"	13.2	Galaxy	0.008x0.008	Hercules	
NGC 6138	17h 23m 14.5s	+41° 05' 10"	13.3	Galaxy	0.009x0.007	Hercules	
NGC 6433	17h 44m 33.6s	+36° 47' 37"	13.3	Galaxy	0.016x0.004	Hercules	
NGC 6185	16h 33m 57.3s	+35° 18' 19"	13.4	Galaxy	0.01x0.0075	Hercules	
NGC 6301	17h 09m 06.7s	+42° 19' 01"	13.4	Galaxy	0.015x0.009	Hercules	
NGC 6311	17h 11m 18.0s	+41° 37' 47"	13.5	Galaxy	0.009x0.009	Hercules	
IC 1222	16h 35m 41.0s	+46° 10' 39"	13.5	Galaxy	0.014x0.010	Hercules	
NGC 6279	16h 59m 31.6s	+47° 12' 42"	13.6	Galaxy	0.009x0.007	Hercules	
NGC 6332	17h 15m 35.5s	+43° 38' 27"	13.6	Galaxy	0.013x0.006	Hercules	
NGC 6336	17h 16m 49.2s	+43° 48' 07"	13.6	Galaxy	0.007x0.005	Hercules	
NGC 6560	18h 05m 43.5s	+46° 53' 03"	13.6	Galaxy	0.01x0.006	Hercules	
IC 1262	17h 33m 34.5s	+43° 44' 53"	13.6	Galaxy	0.01x0.005	Hercules	
NGC 6175-1	16h 30m 33.7s	+40° 35' 31"	13.7	Galaxy	0.010x0.006	Hercules	6175-1
IC 1245	17h 13m 13.7s	+37° 59' 59"	13.7	Galaxy	0.014x0.007	Hercules	
IC 1263	17h 33m 39.4s	+43° 48' 36"	13.7	Galaxy	0.013x0.005	Hercules	
NGC 6194	16h 37m 15.9s	+36° 09' 54"	13.8	Galaxy	0.008x0.006	Hercules	
NGC 6343	17h 17m 51.0s	+41° 02' 04"	13.8	Galaxy	0.009x0.009	Hercules	
NGC 6443	17h 45m 02.3s	+48° 06' 28"	13.8	Galaxy	0.01x0.004	Hercules	
IC 1221	16h 35m 13.3s	+46° 21' 19"	13.8	Galaxy	0.010x0.009	Hercules	
IC 4612	16h 34m 26.8s	+39° 13' 36"	13.8	Galaxy	0.005x0.005	Hercules	
NGC 6313	17h 10m 49.7s	+48° 18' 37"	13.9	Galaxy	0.010x0.003	Hercules	

Table 54: Main objects visible on chart 47 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6320	17h 13m 31.0s	+40° 14' 49"	13.9	Galaxy	0.01x0.006	Hercules	
NGC 6323	17h 13m 50.7s	+43° 45' 43"	13.9	Galaxy	0.009x0.003	Hercules	
IC 1244	17h 11m 11.7s	+36° 16' 57"	13.9	Galaxy	0.008x0.008	Hercules	
NGC 6174	16h 29m 59.9s	+40° 50' 12"	14.0	Galaxy	0.005x0.005	Hercules	
NGC 6175-2	16h 30m 34.3s	+40° 35' 23"	14.0	Galaxy	0.005x0.005	Hercules	6175-2
NGC 6184	16h 32m 10.7s	+40° 31' 41"	14.0	Galaxy	0.006x0.004	Hercules	
IC 1249	17h 15m 33.4s	+35° 30' 04"	14.0	Galaxy	0.005x0.005	Hercules	
IC 1264	17h 33m 49.4s	+43° 37' 02"	14.0	Galaxy	0.01x0.009	Hercules	
NGC 6180	16h 31m 10.2s	+40° 30' 06"	14.1	Galaxy	0.007x0.005	Hercules	
NGC 6159	16h 28m 00.1s	+42° 38' 28"	14.2	Galaxy	0.011x0.008	Hercules	
NGC 6212	16h 43m 59.6s	+39° 46' 28"	14.2	Galaxy	0.005x0.003	Hercules	
NGC 6312	17h 11m 22.1s	+42° 16' 01"	14.2	Galaxy	0.005x0.005	Hercules	
NGC 6367	17h 25m 45.8s	+37° 44' 43"	14.2	Galaxy	0.006x0.005	Hercules	
NGC 6349	17h 19m 44.5s	+36° 02' 37"	14.3	Galaxy	0.006x0.001	Hercules	
IC 4614	16h 38m 26.1s	+36° 04' 47"	14.3	Galaxy	0.006x0.005	Hercules	
NGC 6348	17h 18m 55.4s	+41° 37' 48"	14.4	Galaxy	0.005x0.005	Hercules	
NGC 6197	16h 38m 38.8s	+35° 57' 39"	14.6	Galaxy	0.010x0.004	Hercules	
IC 1226	16h 41m 38.4s	+45° 58' 13"	14.6	Galaxy	0.003x0.002	Hercules	
NGC 6166B	16h 29m 30.1s	+39° 31' 20"	14.9	Galaxy	0.003x0.002	Hercules	6166B
NGC 6327	17h 14m 35.1s	+43° 37' 45"	14.9	Galaxy	0.003x0.003	Hercules	
IC 4611	16h 34m 19.2s	+39° 08' 56"	15.0	Galaxy	0.004x0.004	Hercules	
NGC 6257	16h 56m 39.6s	+39° 37' 07"	15.1	Galaxy	0.006x0.001	Hercules	
IC 4645	17h 15m 16.3s	+43° 05' 05"	15.1	Galaxy	0.003x0.003	Hercules	
NGC 6241	16h 50m 43.1s	+45° 23' 28"	15.2	Galaxy	0.008x0.006	Hercules	
NGC 6351	17h 19m 49.0s	+36° 02' 33"	15.2	Galaxy	0.005x0.003	Hercules	
NGC 6446	17h 46m 45.7s	+35° 33' 49"	15.2	Galaxy	0.005x0.005	Hercules	
IC 4610	16h 34m 16.3s	+39° 13' 15"	15.2	Galaxy	0.005x0.001	Hercules	
IC 4617	16h 42m 46.6s	+36° 39' 03"	15.2	Galaxy	0.01x0.003	Hercules	

7.49 Main objects visible on chart 48

Table 55: Main objects visible on chart 48

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6791	19h 21m 30.6s	+37° 48' 32"	9.5	Open cluster	0.083x0.083	Lyra	
NGC 6703	18h 47m 50.3s	+45° 34' 17"	11.3	Galaxy	0.022x0.020	Lyra	
NGC 6792	19h 21m 31.5s	+43° 10' 01"	12.1	Galaxy	0.018x0.010	Lyra	
NGC 6702	18h 47m 28.8s	+45° 43' 36"	12.2	Galaxy	0.015x0.012	Lyra	
NGC 6675	18h 38m 01.6s	+40° 04' 27"	12.5	Galaxy	0.015x0.010	Lyra	
NGC 6745-2	19h 02m 17.3s	+40° 47' 09"	12.5	Galaxy	0.003x0.001	Lyra	6745-2
NGC 6646	18h 30m 14.1s	+39° 52' 41"	12.6	Galaxy	0.013x0.010	Lyra	
NGC 6688	18h 41m 17.9s	+36° 18' 26"	12.6	Galaxy	0.013x0.010	Lyra	
NGC 6524	17h 59m 45.3s	+45° 53' 16"	12.8	Galaxy	0.011x0.008	Hercules	
NGC 6585	18h 12m 57.4s	+39° 38' 20"	12.9	Galaxy	0.015x0.003	Hercules	
NGC 6711	18h 49m 30.5s	+47° 40' 44"	12.9	Galaxy	0.009x0.007	Draco	

Table 55: Main objects visible on chart 48 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6685	18h 40m 34.1s	+39° 59' 59"	13.4	Galaxy	0.009x0.007	Lyra	
NGC 6742	18h 59m 48.9s	+48° 29' 32"	13.4	Planetary Nebula	0.004x0.004	Draco	
IC 1288	18h 29m 58.0s	+39° 43' 37"	13.4	Galaxy	0.009x0.005	Lyra	
NGC 6695	18h 43m 18.1s	+40° 23' 09"	13.5	Galaxy	0.009x0.005	Lyra	
IC 1279	18h 11m 53.3s	+36° 00' 45"	13.5	Galaxy	0.021x0.005	Hercules	
NGC 6560	18h 05m 43.5s	+46° 53' 03"	13.6	Galaxy	0.01x0.006	Hercules	
NGC 6606	18h 15m 14.1s	+43° 16' 31"	13.9	Galaxy	0.007x0.005	Lyra	
NGC 6663	18h 34m 09.1s	+40° 03' 50"	13.9	Galaxy	0.008x0.007	Lyra	
NGC 6745-1	19h 02m 17.0s	+40° 46' 21"	13.9	Galaxy	0.010x0.004	Lyra	6745-1
IC 4772	18h 40m 31.9s	+40° 02' 40"	13.9	Galaxy	0.003x0.002	Lyra	
NGC 6612	18h 16m 48.8s	+36° 05' 11"	14.2	Galaxy	0.005x0.005	Lyra	
NGC 6783	19h 17m 19.3s	+46° 03' 04"	14.4	Galaxy	0.005x0.005	Cygnus	
NGC 6686	18h 40m 42.3s	+40° 09' 20"	14.7	Galaxy	0.007x0.006	Lyra	
IC 1281	18h 12m 16.0s	+36° 00' 11"	14.9	Galaxy	0.004x0.002	Hercules	
IC 1289	18h 30m 37.6s	+39° 58' 41"	15.0	Galaxy	0.005x0.002	Lyra	

7.50 Main objects visible on chart 49

Table 56: Main objects visible on chart 49

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7000	20h 59m 56.6s	+44° 35' 15"	5.0	Nebula	1.0x0.833	Cygnus	CALDWELL 20, North America nebula
NGC 6871	20h 07m 07.6s	+35° 50' 34"	5.2	Open cluster	0.25x0.25	Cygnus	
Cr419	20h 18m 38.4s	+40° 36' 25"	5.4	Open cluster	0.375x0.375	Cygnus	
NGC 6913	20h 24m 45.9s	+38° 33' 09"	6.6	Open cluster	0.083x0.083	Cygnus	M29
NGC 6811	19h 37m 41.9s	+46° 25' 01"	6.8	Open cluster	0.125x0.125	Cygnus	
NGC 6819	19h 41m 55.0s	+40° 13' 35"	7.3	Open cluster	0.041x0.041	Cygnus	
IC 4996	20h 17m 11.7s	+37° 41' 58"	7.3	Open cluster	0.058x0.058	Cygnus	
NGC 6910	20h 23m 50.5s	+40° 50' 14"	7.4	Open cluster	0.083x0.083	Cygnus	
NGC 6866	20h 04m 30.4s	+44° 12' 39"	7.6	Open cluster	0.058x0.058	Cygnus	
NGC 6883	20h 11m 58.7s	+35° 54' 16"	8.0	Open cluster	0.291x0.291	Cygnus	
NGC 6791	19h 21m 30.6s	+37° 48' 32"	9.5	Open cluster	0.083x0.083	Lyra	
NGC 6766	20h 10m 57.7s	+46° 30' 57"	10.9	Planetary Nebula	0.002x0.002	Cygnus	
NGC 6874	20h 08m 27.3s	+38° 17' 11"	11.0	Open cluster	0.058x0.058	Cygnus	
NGC 6792	19h 21m 31.5s	+43° 10' 01"	12.1	Galaxy	0.018x0.010	Lyra	
IC 1311	20h 11m 25.6s	+41° 13' 39"	13.1	Open cluster	0.041x0.041	Cygnus	
IC 1302	19h 31m 32.2s	+35° 49' 26"	13.4	Galaxy	0.007x0.003	Cygnus	
NGC 6881	20h 11m 32.4s	+37° 27' 59"	13.9	Planetary Nebula	0.002x0.002	Cygnus	
IC 1303	19h 32m 09.5s	+35° 54' 54"	14.3	Galaxy	0.010x0.006	Cygnus	
NGC 6783	19h 17m 19.3s	+46° 03' 04"	14.4	Galaxy	0.005x0.005	Cygnus	
NGC 6888	20h 12m 45.9s	+38° 24' 35"	-	Nebula	0.15x0.108	Cygnus	CALDWELL 27, Crescent nebula

7.51 Main objects visible on chart 50

Table 57: Main objects visible on chart 50

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7092	21h 32m 31.0s	+48° 30' 18"	4.6	Open cluster	0.258x0.258	Cygnus	M39
NGC 7000	20h 59m 56.6s	+44° 35' 15"	5.0	Nebula	1.0x0.833	Cygnus	CALDWELL 20, North America nebula
NGC 7063	21h 25m 06.2s	+36° 33' 53"	7.0	Open cluster	0.075x0.075	Cygnus	
NGC 7082	21h 29m 56.5s	+47° 12' 22"	7.2	Open cluster	0.2x0.2	Cygnus	
NGC 7039	21h 11m 50.8s	+45° 43' 28"	7.6	Open cluster	0.125x0.125	Cygnus	
NGC 7209	22h 05m 51.2s	+46° 34' 17"	7.7	Open cluster	0.125x0.125	Lacerta	
NGC 7062	21h 24m 06.8s	+46° 27' 23"	8.3	Open cluster	0.041x0.041	Cygnus	
NGC 7027	21h 07m 42.1s	+42° 18' 35"	8.5	Planetary Nebula	0.002x0.001	Cygnus	
IC 1369	21h 12m 46.6s	+47° 50' 29"	8.8	Open cluster	0.041x0.041	Cygnus	
NGC 7067	21h 24m 50.9s	+48° 05' 22"	9.7	Open cluster	0.025x0.025	Cygnus	
NGC 6996	20h 57m 07.8s	+45° 32' 36"	10.0	Open cluster	0.041x0.041	Cygnus	
NGC 6997	20h 57m 08.3s	+44° 43' 12"	10.0	Open cluster	0.066x0.066	Cygnus	
NGC 7026	21h 06m 55.7s	+47° 55' 32"	10.9	Planetary Nebula	0.006x0.006	Cygnus	
IC 5117	21h 33m 12.1s	+44° 40' 39"	11.5	Planetary Nebula	0.001x0.001	Cygnus	
NGC 7044	21h 13m 50.1s	+42° 34' 16"	12.0	Open cluster	0.058x0.058	Cygnus	
IC 1392	21h 36m 17.9s	+35° 28' 47"	12.0	Galaxy	0.009x0.005	Cygnus	
NGC 7048	21h 14m 53.9s	+46° 21' 52"	12.1	Planetary Nebula	0.008x0.008	Cygnus	
NGC 7223	22h 10m 54.9s	+41° 06' 22"	12.2	Galaxy	0.011x0.009	Lacerta	
NGC 7197	22h 03m 43.0s	+41° 08' 49"	12.8	Galaxy	0.013x0.006	Lacerta	
NGC 7231	22h 13m 14.7s	+45° 25' 05"	13.0	Galaxy	0.015x0.005	Lacerta	
IC 5146	21h 54m 05.7s	+47° 21' 07"	-	Nebula	0.083x0.083	Cygnus	CALDWELL 19, Cocoon nebula

7.52 Main objects visible on chart 51

Table 58: Main objects visible on chart 51

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7209	22h 05m 51.2s	+46° 34' 17"	7.7	Open cluster	0.125x0.125	Lacerta	
NGC 7662	23h 26m 46.0s	+42° 38' 05"	8.3	Planetary Nebula	0.005x0.005	Andromeda	CALDWELL 22, Blue snowball
NGC 7640	23h 22m 58.6s	+40° 56' 38"	11.3	Galaxy	0.087x0.015	Andromeda	
NGC 7265	22h 23m 15.6s	+36° 18' 06"	12.1	Galaxy	0.02x0.015	Lacerta	
NGC 7223	22h 10m 54.9s	+41° 06' 22"	12.2	Galaxy	0.011x0.009	Lacerta	
NGC 7330	22h 37m 44.7s	+38° 38' 31"	12.2	Galaxy	0.011x0.011	Lacerta	
NGC 7426	22h 56m 53.5s	+36° 27' 31"	12.3	Galaxy	0.014x0.011	Lacerta	
NGC 7248	22h 17m 38.9s	+40° 35' 44"	12.4	Galaxy	0.015x0.007	Lacerta	
NGC 7250	22h 19m 04.2s	+40° 39' 13"	12.6	Galaxy	0.014x0.006	Lacerta	
NGC 7514	23h 13m 17.4s	+34° 58' 45"	12.6	Galaxy	0.011x0.007	Pegasus	
NGC 7197	22h 03m 43.0s	+41° 08' 49"	12.8	Galaxy	0.013x0.006	Lacerta	
NGC 7274	22h 24m 59.2s	+36° 13' 05"	12.8	Galaxy	0.012x0.012	Lacerta	
NGC 7231	22h 13m 14.7s	+45° 25' 05"	13.0	Galaxy	0.015x0.005	Lacerta	
NGC 7618	23h 20m 38.8s	+42° 57' 05"	13.0	Galaxy	0.01x0.008	Andromeda	

Table 58: Main objects visible on chart 51 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7242	22h 16m 26.6s	+37° 23' 16"	13.2	Galaxy	0.019x0.014	Lacerta	
IC 5180	22h 11m 58.5s	+39° 00' 57"	13.3	Galaxy	0.008x0.006	Lacerta	
NGC 7379	22h 48m 22.0s	+40° 20' 04"	13.4	Galaxy	0.009x0.006	Lacerta	
NGC 7227	22h 12m 17.9s	+38° 48' 36"	13.5	Galaxy	0.010x0.005	Lacerta	
NGC 7228	22h 12m 35.2s	+38° 47' 18"	13.5	Galaxy	0.0175x0.01	Lacerta	
NGC 7440	22h 59m 23.3s	+35° 53' 59"	13.5	Galaxy	0.011x0.009	Andromeda	
NGC 7282	22h 26m 41.1s	+40° 24' 27"	13.7	Galaxy	0.020x0.008	Lacerta	
NGC 7264	22h 23m 01.5s	+36° 28' 42"	13.8	Galaxy	0.018x0.002	Lacerta	
NGC 7273	22h 24m 57.3s	+36° 17' 31"	13.8	Galaxy	0.006x0.004	Lacerta	
NGC 7395	22h 51m 52.8s	+37° 11' 03"	13.8	Galaxy	0.01x0.009	Lacerta	
NGC 7446	23h 00m 19.2s	+39° 10' 48"	13.8	Galaxy	0.006x0.006	Andromeda	
NGC 7276	22h 25m 02.6s	+36° 10' 47"	13.9	Galaxy	0.007x0.007	Lacerta	
NGC 7342	22h 39m 02.6s	+35° 35' 33"	13.9	Galaxy	0.010x0.010	Pegasus	
NGC 7449	23h 00m 27.9s	+39° 14' 33"	14.0	Galaxy	0.008x0.005	Andromeda	
IC 5191	22h 15m 49.7s	+37° 23' 25"	14.1	Galaxy	0.009x0.001	Lacerta	
NGC 7240	22h 16m 10.0s	+37° 22' 14"	14.2	Galaxy	0.005x0.005	Lacerta	
NGC 7345	22h 39m 34.3s	+35° 38' 05"	14.3	Galaxy	0.01x0.001	Pegasus	
IC 5193	22h 16m 30.8s	+37° 20' 00"	14.5	Galaxy	0.002x0.002	Lacerta	
NGC 7263-1	22h 22m 33.2s	+36° 26' 27"	14.6	Galaxy	0.006x0.005	Lacerta	7263-1
NGC 7445	23h 00m 12.7s	+39° 12' 17"	14.6	Galaxy	0.005x0.001	Andromeda	
IC 1441	22h 16m 06.4s	+37° 23' 27"	14.6	Galaxy	0.005x0.002	Lacerta	
NGC 7263-2	22h 22m 34.0s	+36° 26' 37"	15.0	Galaxy	0.003x0.003	Lacerta	7263-2
IC 5192	22h 16m 01.4s	+37° 21' 39"	15.2	Galaxy	0.002x0.002	Lacerta	
IC 5195	22h 16m 28.8s	+37° 23' 34"	15.4	Galaxy	0.002x0.002	Lacerta	
IC 5146	21h 54m 05.7s	+47° 21' 07"	-	Nebula	0.083x0.083	Cygnus	CALDWELL 19, Cocoon nebula

7.53 Main objects visible on chart 52

Table 59: Main objects visible on chart 52

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7741	23h 44m 48.9s	+26° 10' 31"	11.3	Galaxy	0.037x0.024	Pegasus	
NGC 1647	00h 10m 00.1s	+27° 49' 48"	12.0	Galaxy	0.015x0.008	Pegasus	
IC 2391	00h 10m 49.2s	+26° 01' 26"	12.0	Galaxy	0.017x0.010	Pegasus	CALDWELL 85, Omicron Velorum cluster
NGC 7753	23h 47m 59.4s	+29° 35' 02"	12.0	Galaxy	0.027x0.017	Pegasus	
NGC 1084	00h 26m 56.6s	+29° 18' 41"	12.1	Galaxy	0.019x0.015	Andromeda	
NGC 2141	00h 42m 25.4s	+25° 35' 53"	12.3	Galaxy	0.015x0.012	Andromeda	
NGC 7720-1	23h 39m 23.5s	+27° 07' 51"	12.3	Galaxy	0.013x0.010	Pegasus	7720-1
NGC 7768	23h 51m 53.3s	+27° 14' 53"	12.3	Galaxy	0.013x0.010	Pegasus	
NGC 972	00h 23m 26.7s	+29° 50' 43"	12.3	Galaxy	0.010x0.010	Andromeda	
NGC 1691	00h 37m 48.8s	+24° 05' 25"	12.4	Galaxy	0.021x0.005	Andromeda	
NGC 2335	00h 44m 34.6s	+30° 41' 07"	12.4	Galaxy	0.01x0.01	Andromeda	
NGC 4372	00h 13m 57.1s	+31° 00' 56"	12.6	Galaxy	0.013x0.012	Andromeda	CALDWELL 108
NGC 7514	23h 13m 17.4s	+34° 58' 45"	12.6	Galaxy	0.011x0.007	Pegasus	

Table 59: Main objects visible on chart 52 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7680-1	23h 29m 28.5s	+32° 30' 53"	12.6	Galaxy	0.015x0.015	Pegasus	7680-1
NGC 1605	00h 37m 01.2s	+24° 03' 25"	12.7	Galaxy	0.019x0.01	Andromeda	
NGC 1835	00h 39m 27.0s	+29° 36' 38"	12.7	Galaxy	0.014x0.009	Andromeda	
NGC 292	00h 11m 43.1s	+33° 27' 07"	12.7	Galaxy	0.012x0.005	Andromeda	Small Magellanic Cloud
NGC 7628	23h 21m 48.4s	+25° 59' 51"	12.7	Galaxy	0.009x0.007	Pegasus	
NGC 7660	23h 26m 42.3s	+27° 07' 44"	12.7	Galaxy	0.011x0.009	Pegasus	
NGC 7664	23h 27m 33.4s	+25° 10' 46"	12.7	Galaxy	0.021x0.012	Pegasus	
NGC 7712	23h 36m 45.8s	+23° 43' 05"	12.7	Galaxy	0.007x0.006	Pegasus	
NGC 7673	23h 28m 35.1s	+23° 41' 18"	12.8	Galaxy	0.010x0.01	Pegasus	
NGC 7831	00h 08m 15.2s	+32° 42' 34"	12.8	Galaxy	0.012x0.002	Andromeda	
NGC 104	00h 08m 11.7s	+27° 48' 33"	12.9	Galaxy	0.014x0.01	Pegasus	CALDWELL 106, 47 Tucanae
IC 2602	00h 11m 21.8s	+25° 55' 56"	12.9	Galaxy	0.017x0.011	Pegasus	CALDWELL 102, Southern Pleiades
NGC 6871	00h 19m 14.7s	+30° 10' 21"	12.9	Galaxy	0.01x0.009	Andromeda	
NGC 2099	00h 10m 28.6s	+33° 24' 32"	13.1	Galaxy	0.014x0.013	Andromeda	M37
NGC 7686	00h 20m 34.3s	+30° 02' 02"	13.1	Galaxy	0.008x0.007	Andromeda	
NGC 7620	23h 20m 59.1s	+24° 19' 10"	13.1	Galaxy	0.009x0.009	Pegasus	
NGC 7624	23h 21m 15.8s	+27° 24' 49"	13.1	Galaxy	0.008x0.005	Pegasus	
NGC 7728	23h 40m 55.0s	+27° 13' 59"	13.1	Galaxy	0.008x0.006	Pegasus	
NGC 1342	00h 09m 43.7s	+33° 31' 59"	13.2	Galaxy	0.019x0.005	Andromeda	
NGC 1407	00h 32m 17.7s	+30° 53' 28"	13.2	Galaxy	0.0125x0.01	Andromeda	
NGC 7160	00h 19m 20.0s	+30° 09' 47"	13.2	Galaxy	0.01x0.0075	Andromeda	
NGC 7677	23h 29m 00.0s	+23° 37' 50"	13.2	Galaxy	0.013x0.008	Pegasus	
IC 43	00h 43m 19.9s	+29° 44' 25"	13.2	Galaxy	0.013x0.011	Andromeda	
NGC 1976	00h 11m 36.9s	+33° 04' 58"	13.3	Galaxy	0.009x0.005	Andromeda	M42, Orion nebula
NGC 5139	00h 08m 44.8s	+35° 27' 47"	13.3	Galaxy	0.01x0.005	Andromeda	CALDWELL 80, Omega Centauri
NGC 7698	23h 34m 55.6s	+25° 02' 42"	13.3	Galaxy	0.008x0.006	Pegasus	
NGC 7775	23h 53m 19.3s	+28° 52' 22"	13.3	Galaxy	0.007x0.006	Pegasus	
NGC 7777	23h 54m 07.5s	+28° 23' 03"	13.3	Galaxy	0.01x0.006	Pegasus	
NGC 7805	00h 02m 22.2s	+31° 32' 02"	13.3	Galaxy	0.01x0.0075	Pegasus	
NGC 2264	00h 43m 52.2s	+32° 40' 43"	13.4	Galaxy	0.007x0.005	Andromeda	Christmas Tree cluster
NGC 7760	23h 50m 06.6s	+31° 04' 59"	13.4	Galaxy	0.007x0.007	Pegasus	
NGC 7773	23h 53m 04.9s	+31° 22' 38"	13.4	Galaxy	0.01x0.01	Pegasus	
IC 2714	00h 11m 28.7s	+29° 05' 49"	13.5	Galaxy	0.01x0.004	Andromeda	
NGC 3918	00h 13m 15.0s	+31° 09' 39"	13.5	Galaxy	0.009x0.008	Andromeda	Blue planetary
NGC 7092	00h 19m 18.9s	+30° 10' 44"	13.5	Galaxy	0.013x0.011	Andromeda	M39
NGC 7243	00h 19m 24.9s	+30° 08' 26"	13.5	Galaxy	0.009x0.007	Andromeda	CALDWELL 16
NGC 7729	23h 41m 27.8s	+29° 17' 17"	13.5	Galaxy	0.015x0.005	Pegasus	
NGC 7767	23h 51m 51.4s	+27° 11' 13"	13.5	Galaxy	0.008x0.001	Pegasus	
NGC 7806	00h 02m 25.6s	+31° 32' 32"	13.5	Galaxy	0.009x0.006	Pegasus	
NGC 7819	00h 05m 20.2s	+31° 34' 22"	13.5	Galaxy	0.0125x0.01	Pegasus	
NGC 957	00h 09m 50.3s	+23° 55' 04"	13.5	Galaxy	0.009x0.005	Pegasus	
IC 5315	23h 22m 11.7s	+25° 29' 05"	13.5	Galaxy	0.005x0.005	Pegasus	
NGC 1123	00h 27m 45.9s	+31° 48' 08"	13.6	Galaxy	0.008x0.004	Andromeda	
NGC 224	00h 10m 44.1s	+27° 55' 58"	13.6	Galaxy	0.010x0.008	Pegasus	M31, Andromeda nebula
NGC 7735	23h 43m 11.8s	+26° 19' 56"	13.6	Galaxy	0.010x0.007	Pegasus	
NGC 7747	23h 46m 27.1s	+27° 27' 38"	13.6	Galaxy	0.012x0.004	Pegasus	

Table 59: Main objects visible on chart 52 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1496	00h 34m 47.7s	+30° 49' 22"	13.7	Galaxy	0.01x0.005	Andromeda	
NGC 7836	00h 08m 57.5s	+33° 10' 18"	13.7	Galaxy	0.007x0.004	Andromeda	
IC 1544	00h 22m 13.9s	+23° 11' 26"	13.7	Galaxy	0.01x0.006	Andromeda	
IC 5355	23h 48m 09.7s	+32° 52' 57"	13.7	Galaxy	0.008x0.005	Andromeda	
IC 5376	00h 02m 15.4s	+34° 37' 34"	13.7	Galaxy	0.016x0.002	Andromeda	
NGC 7737	23h 43m 40.8s	+27° 09' 09"	13.8	Galaxy	0.007x0.003	Pegasus	
NGC 7740	23h 44m 26.7s	+27° 24' 45"	14.0	Galaxy	0.006x0.004	Pegasus	
IC 1559	00h 37m 49.3s	+24° 05' 02"	14.0	Galaxy	0.003x0.002	Andromeda	
NGC 7718	23h 38m 59.2s	+25° 49' 10"	14.1	Galaxy	0.007x0.005	Pegasus	
IC 1540	00h 20m 45.1s	+23° 52' 20"	14.1	Galaxy	0.007x0.003	Andromeda	
IC 5370	00h 01m 04.5s	+32° 50' 21"	14.1	Galaxy	0.006x0.005	Andromeda	
IC 2602	00h 08m 12.9s	+27° 46' 44"	14.2	Galaxy	0.008x0.005	Pegasus	CALDWELL 102, Southern Pleiades
NGC 6752	00h 19m 11.4s	+30° 09' 48"	14.2	Galaxy	0.002x0.001	Andromeda	CALDWELL 93
NGC 7726	23h 40m 06.2s	+27° 12' 53"	14.2	Galaxy	0.012x0.005	Pegasus	
NGC 7745	23h 45m 40.3s	+26° 00' 34"	14.2	Galaxy	0.005x0.005	Pegasus	
NGC 7752	23h 47m 53.1s	+29° 33' 34"	14.3	Galaxy	0.007x0.004	Pegasus	
IC 5369	00h 00m 46.0s	+32° 48' 10"	14.4	Galaxy	0.008x0.004	Andromeda	
NGC 7720-2	23h 39m 23.7s	+27° 08' 04"	14.5	Galaxy	0.001x0.001	Pegasus	7720-2
IC 5346	23h 42m 00.7s	+25° 03' 01"	14.5	Galaxy	0.003x0.002	Pegasus	
IC 5347	23h 42m 31.1s	+24° 59' 11"	14.5	Galaxy	0.002x0.001	Pegasus	
IC 5372	00h 01m 11.7s	+32° 53' 36"	14.5	Galaxy	0.004x0.004	Andromeda	
NGC 7765	23h 51m 47.3s	+27° 15' 58"	14.6	Galaxy	0.005x0.005	Pegasus	
IC 5342	23h 39m 32.9s	+27° 06' 42"	14.6	Galaxy	0.002x0.002	Pegasus	
IC 1848	00h 39m 33.5s	+29° 32' 47"	14.7	Galaxy	0.005x0.001	Andromeda	
67A	00h 19m 08.6s	+30° 09' 19"	14.7	Galaxy	0.003x0.001	Andromeda	67A
NGC 6940	00h 19m 16.9s	+30° 08' 26"	14.7	Galaxy	0.004x0.002	Andromeda	
72A	00h 19m 30.8s	+30° 08' 10"	14.7	Galaxy	0.002x0.002	Andromeda	72A
IC 1476	23h 15m 08.9s	+30° 39' 01"	14.7	Galaxy	0.005x0.005	Pegasus	
IC 5341	23h 39m 20.9s	+27° 05' 07"	14.7	Galaxy	0.002x0.002	Pegasus	
IC 5371	00h 01m 10.2s	+32° 55' 57"	14.7	Galaxy	0.004x0.004	Andromeda	
IC 5373	00h 01m 24.7s	+32° 52' 56"	14.7	Galaxy	0.006x0.001	Andromeda	
NGC 744	00h 19m 46.0s	+30° 09' 40"	14.8	Galaxy	0.006x0.002	Andromeda	
NGC 1817	00h 39m 21.0s	+29° 34' 20"	14.9	Galaxy	0.005x0.001	Andromeda	
NGC 7680-2	23h 29m 24.8s	+32° 31' 19"	15.0	Galaxy	0.001x0.001	Pegasus	7680-2
NGC 7766	23h 51m 50.7s	+27° 13' 38"	15.5	Galaxy	0.004x0.001	Pegasus	

7.54 Main objects visible on chart 53

Table 60: Main objects visible on chart 53

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 598	01h 34m 53.0s	+30° 44' 60"	5.7	Galaxy	0.572x0.346	Triangulum	M33, Triangulum galaxy
NGC 404	01h 10m 27.5s	+35° 48' 50"	10.3	Galaxy	0.029x0.029	Andromeda	Mirach's ghost
NGC 6723	01h 48m 55.1s	+27° 31' 19"	10.9	Galaxy	0.05x0.02	Triangulum	
NGC 315	00h 58m 47.9s	+30° 26' 56"	11.2	Galaxy	0.025x0.020	Pisces	

Table 60: Main objects visible on chart 53 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5078	01h 24m 41.0s	+33° 21' 01"	11.2	Galaxy	0.020x0.020	Pisces	
NGC 4103	01h 11m 59.0s	+33° 14' 52"	11.5	Galaxy	0.02x0.010	Pisces	
IC 1727	01h 48m 31.0s	+27° 25' 18"	11.5	Galaxy	0.0475x0.02	Triangulum	
NGC 2669	00h 50m 46.5s	+32° 22' 31"	11.6	Galaxy	0.025x0.024	Pisces	
NGC 604	01h 35m 33.7s	+30° 52' 34"	12.0	Galpart	0.016x0.016	Triangulum	
NGC 4214	01h 13m 09.7s	+32° 13' 06"	12.1	Galaxy	0.016x0.015	Pisces	
IC 4996	01h 24m 12.5s	+33° 33' 12"	12.1	Galaxy	0.014x0.010	Pisces	
NGC 5292	01h 26m 41.7s	+34° 48' 23"	12.1	Galaxy	0.02x0.0175	Andromeda	
NGC 7368	01h 57m 44.0s	+33° 07' 55"	12.1	Galaxy	0.012x0.012	Triangulum	
NGC 383	01h 08m 24.7s	+32° 30' 29"	12.2	Galaxy	0.016x0.014	Pisces	
NGC 6611	01h 45m 15.8s	+28° 47' 48"	12.2	Galaxy	0.013x0.010	Triangulum	M16
IC 171	01h 56m 13.9s	+35° 22' 11"	12.2	Galaxy	0.011x0.008	Triangulum	
NGC 2141	00h 42m 25.4s	+25° 35' 53"	12.3	Galaxy	0.015x0.012	Andromeda	
NGC 6694	01h 48m 19.2s	+35° 39' 09"	12.3	Galaxy	0.025x0.005	Triangulum	M26
NGC 6791	01h 50m 47.1s	+35° 52' 30"	12.3	Galaxy	0.015x0.015	Andromeda	
NGC 7531	01h 58m 46.4s	+36° 00' 11"	12.3	Galaxy	0.025x0.015	Andromeda	
NGC 1691	00h 37m 48.8s	+24° 05' 25"	12.4	Galaxy	0.021x0.005	Andromeda	
NGC 2335	00h 44m 34.6s	+30° 41' 07"	12.4	Galaxy	0.01x0.01	Andromeda	
NGC 2527	00h 48m 59.7s	+27° 43' 17"	12.4	Galaxy	0.011x0.008	Andromeda	
NGC 5363	01h 27m 23.1s	+34° 47' 47"	12.4	Galaxy	0.0275x0.01	Andromeda	
NGC 6569	01h 43m 27.8s	+26° 14' 01"	12.4	Galaxy	0.012x0.010	Pisces	
NGC 6848	01h 51m 15.3s	+27° 44' 05"	12.4	Galaxy	0.026x0.005	Triangulum	
NGC 3801	01h 08m 17.4s	+32° 34' 43"	12.5	Galaxy	0.010x0.010	Pisces	
NGC 4038	01h 10m 14.2s	+32° 50' 50"	12.5	Galaxy	0.015x0.005	Pisces	CALDWELL 60, Antennae
NGC 4526	01h 17m 15.1s	+31° 07' 41"	12.5	Galaxy	0.020x0.006	Pisces	
NGC 5170	01h 25m 44.9s	+33° 31' 20"	12.5	Galaxy	0.011x0.004	Pisces	
NGC 5281	01h 26m 34.8s	+33° 45' 50"	12.5	Galaxy	0.01x0.006	Andromeda	
NGC 2180	00h 47m 31.0s	+36° 25' 25"	12.6	Galaxy	0.0125x0.01	Andromeda	
NGC 2964	00h 56m 06.3s	+31° 38' 22"	12.6	Galaxy	0.018x0.008	Pisces	
NGC 1605	00h 37m 01.2s	+24° 03' 25"	12.7	Galaxy	0.019x0.01	Andromeda	
NGC 1835	00h 39m 27.0s	+29° 36' 38"	12.7	Galaxy	0.014x0.009	Andromeda	
NGC 3923	01h 09m 23.3s	+33° 13' 45"	12.7	Galaxy	0.01x0.0075	Pisces	
NGC 5371	01h 26m 22.0s	+34° 07' 07"	12.7	Galaxy	0.020x0.005	Andromeda	
NGC 6144	01h 36m 54.1s	+33° 46' 24"	12.7	Galaxy	0.011x0.011	Triangulum	
NGC 6218	01h 37m 51.3s	+35° 36' 14"	12.7	Galaxy	0.01x0.008	Triangulum	M12
NGC 6705	01h 48m 26.0s	+27° 58' 31"	12.7	Galaxy	0.017x0.007	Triangulum	M11, Wild Duck cluster
NGC 6883	01h 51m 47.4s	+35° 22' 24"	12.7	Galaxy	0.02x0.0125	Triangulum	
NGC 7089	01h 53m 50.1s	+36° 14' 26"	12.7	Galaxy	0.025x0.020	Andromeda	M2
NGC 3384	01h 01m 35.6s	+30° 45' 57"	12.8	Galaxy	0.015x0.005	Pisces	
NGC 3798	01h 08m 15.5s	+32° 36' 58"	12.8	Galaxy	0.011x0.005	Pisces	
NGC 5873	01h 33m 35.4s	+35° 27' 01"	12.8	Galaxy	0.018x0.006	Triangulum	
704-1	01h 53m 41.4s	+36° 12' 55"	12.8	Galaxy	0.005x0.003	Andromeda	704-1
NGC 4314	01h 15m 05.1s	+33° 48' 01"	12.9	Galaxy	0.011x0.007	Andromeda	
NGC 4945	01h 23m 56.4s	+33° 15' 59"	12.9	Galaxy	0.016x0.006	Pisces	CALDWELL 83
NGC 4958	01h 23m 57.0s	+33° 33' 52"	12.9	Galaxy	0.01x0.006	Pisces	
NGC 5617	01h 29m 20.3s	+34° 24' 04"	12.9	Galaxy	0.013x0.012	Andromeda	

Table 60: Main objects visible on chart 53 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5915	01h 34m 33.4s	+35° 45' 37"	12.9	Galaxy	0.010x0.008	Andromeda	
NGC 3114	00h 58m 31.7s	+30° 22' 38"	13.0	Galaxy	0.012x0.006	Pisces	
NGC 3853	01h 08m 27.0s	+32° 24' 55"	13.0	Galaxy	0.009x0.008	Pisces	
NGC 5044	01h 24m 29.1s	+33° 17' 51"	13.0	Galaxy	0.014x0.003	Pisces	
NGC 5139	01h 25m 28.1s	+33° 53' 32"	13.0	Galaxy	0.007x0.005	Andromeda	CALDWELL 80, Omega Centauri
IC 5152	01h 25m 39.8s	+33° 33' 56"	13.0	Galaxy	0.011x0.009	Pisces	
NGC 5927	01h 34m 13.0s	+30° 44' 18"	13.0	Galpart	0.005x0.005	Triangulum	
NGC 6341	01h 39m 21.1s	+35° 27' 21"	13.0	Galaxy	0.017x0.005	Triangulum	M92
IC 140	01h 34m 59.2s	+30° 38' 33"	13.0	Galpart	0.004x0.004	Triangulum	
IC 1672	01h 21m 38.4s	+29° 47' 34"	13.0	Galaxy	0.010x0.008	Pisces	
IC 1733	01h 51m 45.6s	+33° 10' 15"	13.0	Galaxy	0.01x0.008	Triangulum	
NGC 2627	00h 49m 45.7s	+32° 03' 19"	13.1	Galaxy	0.009x0.009	Andromeda	
NGC 3041	00h 57m 04.0s	+24° 13' 28"	13.1	Galaxy	0.009x0.005	Andromeda	
NGC 3842	01h 08m 24.8s	+32° 23' 19"	13.1	Galaxy	0.009x0.006	Pisces	
NGC 4439	01h 16m 08.0s	+33° 28' 21"	13.1	Galaxy	0.006x0.005	Pisces	
NGC 5084	01h 24m 41.7s	+33° 22' 26"	13.1	Galaxy	0.009x0.009	Pisces	
NGC 7142	01h 54m 33.4s	+36° 18' 34"	13.1	Galaxy	0.012x0.003	Andromeda	
IC 1659	01h 17m 06.2s	+30° 26' 35"	13.1	Galaxy	0.01x0.0075	Pisces	
NGC 1407	00h 32m 17.7s	+30° 53' 28"	13.2	Galaxy	0.0125x0.01	Andromeda	
NGC 3261	00h 59m 21.1s	+26° 57' 46"	13.2	Galaxy	0.011x0.011	Pisces	
IC 382	01h 08m 23.7s	+32° 29' 57"	13.2	Galaxy	0.005x0.005	Pisces	382
NGC 4833	01h 22m 57.3s	+33° 36' 52"	13.2	Galaxy	0.005x0.005	Pisces	CALDWELL 105
NGC 5128	01h 25m 01.0s	+34° 00' 03"	13.2	Galaxy	0.013x0.003	Andromeda	CALDWELL 77, Centaurus A
NGC 5822	01h 32m 59.8s	+33° 34' 04"	13.2	Galaxy	0.018x0.005	Triangulum	
IC 1654	01h 16m 11.7s	+30° 17' 24"	13.2	Galaxy	0.010x0.01	Pisces	
IC 43	00h 43m 19.9s	+29° 44' 25"	13.2	Galaxy	0.013x0.011	Andromeda	
NGC 2808	00h 53m 28.1s	+24° 26' 54"	13.3	Galaxy	0.014x0.009	Andromeda	
IC 4725	01h 21m 29.6s	+32° 48' 08"	13.3	Galaxy	0.010x0.009	Pisces	M25
NGC 5792	01h 32m 48.3s	+33° 42' 24"	13.3	Galaxy	0.012x0.010	Triangulum	
NGC 6087	01h 36m 30.0s	+33° 44' 53"	13.3	Galaxy	0.015x0.012	Triangulum	CALDWELL 89, S Normae cluster
NGC 7039	01h 53m 43.3s	+36° 15' 38"	13.3	Galaxy	0.007x0.005	Andromeda	
NGC 7354	01h 57m 41.6s	+34° 15' 54"	13.3	Galaxy	0.015x0.006	Triangulum	
IC 1683	01h 23m 40.3s	+34° 31' 51"	13.3	Galaxy	0.010x0.005	Andromeda	
IC 1731	01h 51m 13.6s	+27° 17' 05"	13.3	Galaxy	0.012x0.008	Triangulum	
NGC 2264	00h 43m 52.2s	+32° 40' 43"	13.4	Galaxy	0.007x0.005	Andromeda	Christmas Tree cluster
NGC 4073	01h 11m 36.7s	+33° 13' 15"	13.4	Galaxy	0.015x0.003	Pisces	
NGC 4965	01h 24m 12.7s	+33° 37' 18"	13.4	Galaxy	0.013x0.007	Pisces	
NGC 6664	01h 47m 08.7s	+34° 27' 51"	13.4	Galaxy	0.005x0.004	Triangulum	
IC 1675	01h 22m 01.2s	+34° 20' 34"	13.4	Galaxy	0.006x0.002	Andromeda	
IC 2602	00h 49m 32.9s	+27° 47' 24"	13.5	Galaxy	0.006x0.006	Andromeda	CALDWELL 102, Southern Pleiades
NGC 3742	01h 08m 05.7s	+32° 53' 26"	13.5	Galaxy	0.009x0.004	Pisces	
NGC 3992	01h 09m 59.1s	+32° 43' 45"	13.5	Galaxy	0.007x0.005	Pisces	M109
NGC 5662	01h 30m 04.1s	+32° 25' 30"	13.5	Galaxy	0.013x0.003	Pisces	
NGC 5882	01h 33m 46.7s	+30° 44' 27"	13.5	Galpart	0.005x0.005	Triangulum	
NGC 5957	01h 34m 35.1s	+30° 47' 03"	13.5	Galpart	0.004x0.004	Triangulum	
NGC 6530	01h 43m 28.5s	+35° 43' 44"	13.5	Galaxy	0.012x0.001	Andromeda	

Table 60: Main objects visible on chart 53 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 132	01h 34m 17.1s	+31° 02' 13"	13.5	Galpart	0.005x0.005	Triangulum	
IC 1652	01h 15m 56.7s	+32° 02' 33"	13.5	Galaxy	0.009x0.002	Pisces	
IC 1666	01h 20m 54.0s	+32° 33' 39"	13.5	Galaxy	0.009x0.008	Pisces	
NGC 1123	00h 27m 45.9s	+31° 48' 08"	13.6	Galaxy	0.008x0.004	Andromeda	
NGC 7059	01h 53m 45.3s	+36° 13' 58"	13.6	Galaxy	0.01x0.0025	Andromeda	
IC 1584	00h 48m 16.5s	+27° 55' 35"	13.6	Galaxy	0.013x0.011	Andromeda	
IC 1682	01h 23m 14.3s	+33° 21' 13"	13.6	Galaxy	0.006x0.003	Pisces	
NGC 1496	00h 34m 47.7s	+30° 49' 22"	13.7	Galaxy	0.01x0.005	Andromeda	
NGC 2287	00h 43m 51.8s	+23° 36' 06"	13.7	Galaxy	0.01x0.009	Andromeda	M41
NGC 2437	00h 46m 58.9s	+30° 03' 28"	13.7	Galaxy	0.007x0.003	Andromeda	M46
NGC 2822	00h 53m 40.6s	+30° 44' 11"	13.7	Galaxy	0.008x0.007	Pisces	
NGC 5715	01h 30m 57.4s	+32° 35' 36"	13.7	Galaxy	0.010x0.010	Pisces	
NGC 7107	01h 53m 57.7s	+36° 08' 29"	13.7	Galaxy	0.010x0.01	Andromeda	
IC 143	01h 35m 12.2s	+30° 52' 11"	13.7	Galpart	0.002x0.002	Triangulum	
IC 1687	01h 24m 20.3s	+33° 22' 14"	13.7	Galaxy	0.004x0.002	Pisces	
IC 69	01h 02m 22.8s	+31° 08' 16"	13.7	Galaxy	0.007x0.006	Pisces	
NGC 3941	01h 09m 26.1s	+33° 14' 37"	13.8	Galaxy	0.005x0.002	Pisces	
NGC 4143	01h 12m 17.8s	+33° 12' 32"	13.8	Galaxy	0.005x0.003	Pisces	
NGC 5316	01h 27m 20.3s	+34° 50' 50"	13.8	Galaxy	0.015x0.004	Andromeda	
IC 1689	01h 24m 49.0s	+33° 08' 55"	13.8	Galaxy	0.007x0.004	Pisces	
NGC 7177	01h 54m 58.8s	+36° 19' 04"	13.9	Galaxy	0.010x0.001	Andromeda	
NGC 7391	01h 57m 57.7s	+33° 21' 16"	13.9	Galaxy	0.007x0.005	Triangulum	
IC 1690	01h 24m 50.5s	+33° 15' 02"	13.9	Galaxy	0.004x0.002	Pisces	
IC 46	00h 43m 55.6s	+27° 21' 08"	13.9	Galaxy	0.005x0.004	Andromeda	
IC 96	01h 21m 33.4s	+29° 42' 37"	13.9	Galaxy	0.006x0.003	Pisces	
NGC 2872	00h 54m 27.2s	+32° 34' 48"	14.0	Galaxy	0.006x0.003	Pisces	
NGC 4472	01h 16m 38.4s	+33° 09' 40"	14.0	Galaxy	0.018x0.018	Pisces	M49
NGC 4517	01h 17m 12.9s	+33° 09' 30"	14.0	Galaxy	0.005x0.004	Pisces	
NGC 5530	01h 27m 13.7s	+33° 29' 52"	14.0	Galaxy	0.005x0.002	Pisces	
NGC 7408	01h 57m 58.0s	+33° 06' 10"	14.0	Galaxy	0.011x0.002	Triangulum	
IC 131	01h 34m 12.2s	+30° 50' 41"	14.0	Galpart	0.002x0.002	Triangulum	
IC 133	01h 34m 16.9s	+30° 58' 36"	14.0	Galpart	0.003x0.003	Triangulum	
IC 135	01h 35m 16.6s	+30° 42' 40"	14.0	Galpart	0.003x0.003	Triangulum	
IC 137	01h 34m 39.8s	+30° 36' 54"	14.0	Galpart	0.005x0.005	Triangulum	
IC 139	01h 35m 00.4s	+30° 40' 04"	14.0	Galpart	0.004x0.004	Triangulum	
IC 1559	00h 37m 49.3s	+24° 05' 02"	14.0	Galaxy	0.003x0.002	Andromeda	
IC 1732	01h 51m 51.5s	+36° 01' 18"	14.0	Galaxy	0.012x0.003	Andromeda	
IC 64	01h 00m 22.9s	+27° 09' 23"	14.0	Galaxy	0.009x0.005	Pisces	
NGC 2298	00h 44m 02.0s	+23° 36' 28"	14.1	Galaxy	0.008x0.003	Andromeda	
NGC 5033	01h 24m 29.4s	+33° 25' 33"	14.1	Galaxy	0.007x0.005	Pisces	
IC 1638	01h 13m 22.0s	+33° 27' 37"	14.1	Galaxy	0.005x0.005	Pisces	
IC 1673	01h 21m 47.1s	+33° 08' 22"	14.1	Galaxy	0.002x0.002	Pisces	
IC 1677	01h 22m 08.0s	+33° 18' 34"	14.1	Galaxy	0.007x0.004	Pisces	
IC 66	01h 01m 31.5s	+30° 53' 36"	14.1	Galaxy	0.01x0.004	Pisces	
IC 2581	00h 49m 10.8s	+27° 45' 21"	14.2	Galaxy	0.004x0.003	Andromeda	
NGC 4490	01h 17m 08.0s	+33° 11' 01"	14.2	Galaxy	0.006x0.004	Pisces	

Table 60: Main objects visible on chart 53 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 142	01h 34m 56.9s	+30° 50' 53"	14.2	Galpart	0.004x0.004	Triangulum	
NGC 3865	01h 08m 31.0s	+32° 27' 30"	14.3	Galaxy	0.003x0.002	Pisces	
NGC 3887	01h 08m 46.9s	+32° 24' 23"	14.3	Galaxy	0.005x0.002	Pisces	
NGC 4449	01h 16m 49.7s	+31° 10' 31"	14.3	Galaxy	0.015x0.003	Pisces	CALDWELL 21
NGC 4689	01h 20m 49.1s	+32° 51' 41"	14.3	Galaxy	0.005x0.003	Pisces	
NGC 4981	01h 24m 12.2s	+33° 35' 01"	14.3	Galaxy	0.004x0.004	Pisces	
NGC 7092	01h 53m 54.3s	+36° 18' 41"	14.3	Galaxy	0.008x0.004	Andromeda	M39
NGC 3184	00h 59m 04.1s	+30° 31' 23"	14.4	Galaxy	0.004x0.002	Pisces	
IC 1636	01h 12m 37.6s	+33° 27' 01"	14.4	Galaxy	0.002x0.001	Pisces	
IC 1648	01h 14m 42.6s	+33° 18' 47"	14.4	Galaxy	0.003x0.002	Pisces	
IC 1680	01h 22m 52.3s	+33° 22' 33"	14.4	Galaxy	0.005x0.004	Pisces	
IC 1718	01h 39m 28.9s	+33° 27' 23"	14.4	Galaxy	0.005x0.002	Triangulum	
NGC 3756	01h 08m 05.6s	+32° 26' 40"	14.5	Galaxy	0.004x0.004	Pisces	
NGC 3981	01h 09m 53.5s	+32° 36' 38"	14.5	Galaxy	0.006x0.004	Pisces	
NGC 5018	01h 24m 23.4s	+33° 31' 38"	14.5	Galaxy	0.004x0.004	Pisces	
IC 136	01h 35m 14.6s	+30° 39' 10"	14.5	Galpart	0.002x0.002	Triangulum	
NGC 7000	01h 53m 20.4s	+36° 07' 30"	14.6	Galaxy	0.006x0.005	Andromeda	CALDWELL 20, North America nebula
704-2	01h 53m 41.7s	+36° 12' 46"	14.6	Galaxy	0.003x0.003	Andromeda	704-2
IC 1585	00h 48m 11.7s	+23° 09' 08"	14.6	Galaxy	0.006x0.004	Andromeda	
IC 1619	01h 08m 22.3s	+33° 09' 46"	14.6	Galaxy	0.005x0.004	Pisces	
IC 1676	01h 21m 58.7s	+30° 21' 14"	14.6	Galaxy	0.004x0.003	Pisces	
IC 1692	01h 25m 40.8s	+33° 19' 43"	14.6	Galaxy	0.003x0.002	Pisces	
IC 1848	00h 39m 33.5s	+29° 32' 47"	14.7	Galaxy	0.005x0.001	Andromeda	
IC 1618	01h 06m 55.6s	+32° 30' 32"	14.7	Galaxy	0.01x0.004	Pisces	
IC 1685	01h 24m 07.7s	+33° 17' 04"	14.7	Galaxy	0.004x0.003	Pisces	
NGC 3976	01h 09m 31.0s	+33° 12' 20"	14.8	Galaxy	0.005x0.004	Pisces	
NGC 5427	01h 27m 32.4s	+34° 46' 09"	14.8	Galaxy	0.008x0.001	Andromeda	
IC 1669	01h 21m 07.7s	+33° 16' 41"	14.8	Galaxy	0.008x0.001	Pisces	
IC 1679	01h 22m 45.5s	+33° 35' 12"	14.8	Galaxy	0.004x0.003	Pisces	
NGC 1817	00h 39m 21.0s	+29° 34' 20"	14.9	Galaxy	0.005x0.001	Andromeda	
NGC 3738	01h 07m 58.1s	+32° 24' 17"	14.9	Galaxy	0.003x0.003	Pisces	
NGC 7380	01h 57m 48.6s	+33° 08' 47"	14.9	Galaxy	0.003x0.001	Triangulum	
IC 1583	00h 48m 07.7s	+23° 10' 21"	14.9	Galaxy	0.004x0.002	Andromeda	
IC 1684	01h 23m 54.2s	+33° 30' 24"	15.0	Galaxy	0.005x0.002	Pisces	
IC 1688	01h 24m 29.2s	+33° 10' 35"	15.0	Galaxy	0.003x0.002	Pisces	
IC 1668	01h 19m 53.9s	+33° 15' 59"	15.2	Galaxy	0.002x0.002	Pisces	
IC 1691	01h 25m 27.0s	+33° 30' 00"	15.2	Galaxy	0.003x0.002	Pisces	
IC 1735	01h 51m 54.5s	+33° 10' 50"	15.2	Galaxy	0.004x0.002	Triangulum	
NGC 3877	01h 08m 32.8s	+32° 29' 12"	15.5	Galaxy	0.003x0.003	Pisces	

7.55 Main objects visible on chart 54

Table 61: Main objects visible on chart 54

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 925	02h 28m 21.8s	+33° 39' 32"	10.1	Galaxy	0.087x0.049	Triangulum	
NGC 6723	01h 48m 55.1s	+27° 31' 19"	10.9	Galaxy	0.05x0.02	Triangulum	
NGC 890	02h 23m 05.6s	+33° 20' 52"	11.2	Galaxy	0.020x0.014	Triangulum	
NGC 972	02h 35m 17.1s	+29° 23' 19"	11.4	Galaxy	0.027x0.013	Aries	
NGC 777	02h 01m 17.6s	+31° 30' 59"	11.5	Galaxy	0.020x0.016	Triangulum	
IC 1727	01h 48m 31.0s	+27° 25' 18"	11.5	Galaxy	0.0475x0.02	Triangulum	
NGC 1156	03h 00m 45.5s	+25° 18' 29"	11.7	Galaxy	0.021x0.014	Aries	
NGC 784	02h 02m 19.2s	+28° 55' 28"	11.7	Galaxy	0.055x0.013	Triangulum	
NGC 1060	02h 44m 20.4s	+32° 30' 01"	11.8	Galaxy	0.019x0.014	Triangulum	
NGC 7507	01h 58m 35.7s	+33° 17' 49"	11.9	Galaxy	0.013x0.010	Triangulum	
NGC 1012	02h 40m 19.0s	+30° 13' 42"	12.0	Galaxy	0.020x0.009	Aries	
NGC 7368	01h 57m 44.0s	+33° 07' 55"	12.1	Galaxy	0.012x0.012	Triangulum	
NGC 6611	01h 45m 15.8s	+28° 47' 48"	12.2	Galaxy	0.013x0.010	Triangulum	M16
NGC 783	02h 02m 09.5s	+31° 58' 06"	12.2	Galaxy	0.013x0.011	Triangulum	
NGC 968	02h 35m 11.8s	+34° 33' 32"	12.2	Galaxy	0.022x0.012	Triangulum	
NGC 978	02h 35m 52.1s	+32° 55' 23"	12.2	Galaxy	0.010x0.008	Triangulum	
IC 171	01h 56m 13.9s	+35° 22' 11"	12.2	Galaxy	0.011x0.008	Triangulum	
NGC 6694	01h 48m 19.2s	+35° 39' 09"	12.3	Galaxy	0.025x0.005	Triangulum	M26
NGC 6791	01h 50m 47.1s	+35° 52' 30"	12.3	Galaxy	0.015x0.015	Andromeda	
NGC 6871	01h 51m 36.8s	+36° 27' 34"	12.3	Galaxy	0.011x0.011	Andromeda	
NGC 7531	01h 58m 46.4s	+36° 00' 11"	12.3	Galaxy	0.025x0.015	Andromeda	
NGC 969	02h 35m 13.1s	+33° 01' 29"	12.3	Galaxy	0.014x0.008	Triangulum	
NGC 1056	02h 43m 52.3s	+28° 39' 01"	12.4	Galaxy	0.02x0.009	Aries	
NGC 1167	03h 02m 49.8s	+35° 16' 34"	12.4	Galaxy	0.027x0.019	Perseus	
NGC 6569	01h 43m 27.8s	+26° 14' 01"	12.4	Galaxy	0.012x0.010	Pisces	
NGC 6848	01h 51m 15.3s	+27° 44' 05"	12.4	Galaxy	0.026x0.005	Triangulum	
NGC 7762	02h 00m 55.2s	+23° 43' 51"	12.4	Galaxy	0.014x0.014	Aries	
NGC 940	02h 30m 31.8s	+31° 43' 15"	12.4	Galaxy	0.01x0.0075	Triangulum	
NGC 959	02h 33m 30.0s	+35° 34' 25"	12.4	Galaxy	0.019x0.011	Triangulum	
NGC 987	02h 37m 54.9s	+33° 24' 17"	12.4	Galaxy	0.013x0.009	Triangulum	
NGC 7510	01h 58m 36.2s	+33° 17' 23"	12.5	Galaxy	0.01x0.01	Triangulum	
NGC 807	02h 05m 57.8s	+29° 04' 24"	12.5	Galaxy	0.015x0.010	Triangulum	
NGC 1050	02h 43m 41.9s	+34° 50' 24"	12.6	Galaxy	0.014x0.009	Perseus	
NGC 855	02h 15m 06.1s	+27° 57' 40"	12.6	Galaxy	0.021x0.008	Triangulum	
NGC 6218	01h 37m 51.3s	+35° 36' 14"	12.7	Galaxy	0.01x0.008	Triangulum	M12
NGC 6705	01h 48m 26.0s	+27° 58' 31"	12.7	Galaxy	0.017x0.007	Triangulum	M11, Wild Duck cluster
NGC 6883	01h 51m 47.4s	+35° 22' 24"	12.7	Galaxy	0.02x0.0125	Triangulum	
NGC 7089	01h 53m 50.1s	+36° 14' 26"	12.7	Galaxy	0.025x0.020	Andromeda	M2
NGC 7590	01h 58m 54.4s	+36° 25' 49"	12.7	Galaxy	0.011x0.011	Andromeda	
704-1	01h 53m 41.4s	+36° 12' 55"	12.8	Galaxy	0.005x0.003	Andromeda	704-1
NGC 7654	01h 59m 49.0s	+24° 58' 45"	12.8	Galaxy	0.023x0.023	Aries	M52
NGC 931	02h 29m 18.7s	+31° 23' 27"	12.8	Galaxy	0.032x0.006	Triangulum	
NGC 973	02h 35m 25.1s	+32° 35' 01"	12.8	Galaxy	0.030x0.004	Triangulum	
NGC 974	02h 35m 30.8s	+33° 01' 59"	12.8	Galaxy	0.014x0.01	Triangulum	
NGC 984	02h 35m 44.9s	+23° 29' 30"	12.8	Galaxy	0.016x0.01	Aries	
NGC 7690	02h 00m 38.4s	+30° 59' 47"	12.9	Galaxy	0.006x0.004	Triangulum	

Table 61: Main objects visible on chart 54 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 962	02h 33m 43.2s	+28° 08' 58"	12.9	Galaxy	0.011x0.01	Aries	
IC 187-1	02h 02m 32.1s	+26° 34' 03"	12.9	Galaxy	0.016x0.005	Triangulum	IC 187-1
IC 200	02h 06m 29.6s	+31° 15' 40"	12.9	Galaxy	0.017x0.012	Triangulum	
NGC 6341	01h 39m 21.1s	+35° 27' 21"	13.0	Galaxy	0.017x0.005	Triangulum	M92
NGC 785	02h 02m 43.0s	+31° 54' 47"	13.0	Galaxy	0.012x0.009	Triangulum	
IC 1733	01h 51m 45.6s	+33° 10' 15"	13.0	Galaxy	0.01x0.008	Triangulum	
IC 187-2	02h 02m 35.3s	+26° 34' 16"	13.0	Galaxy	0.005x0.002	Triangulum	IC 187-2
IC 221	02h 23m 43.7s	+28° 20' 18"	13.0	Galaxy	0.013x0.01	Triangulum	
NGC 1093	02h 49m 22.5s	+34° 29' 39"	13.1	Galaxy	0.011x0.008	Triangulum	
NGC 7142	01h 54m 33.4s	+36° 18' 34"	13.1	Galaxy	0.012x0.003	Andromeda	
IC 1784	02h 17m 16.8s	+32° 43' 55"	13.1	Galaxy	0.011x0.005	Triangulum	
NGC 7789	02h 01m 22.1s	+31° 23' 59"	13.2	Galaxy	0.009x0.004	Triangulum	
NGC 865	02h 17m 17.8s	+28° 41' 01"	13.2	Galaxy	0.012x0.003	Triangulum	
IC 983	02h 40m 01.7s	+34° 41' 56"	13.2	Galaxy	0.01x0.0075	Triangulum	
IC 1066	02h 44m 55.3s	+32° 33' 04"	13.3	Galaxy	0.014x0.013	Triangulum	
NGC 7039	01h 53m 43.3s	+36° 15' 38"	13.3	Galaxy	0.007x0.005	Andromeda	
NGC 7354	01h 57m 41.6s	+34° 15' 54"	13.3	Galaxy	0.015x0.006	Triangulum	
NGC 917	02h 27m 12.0s	+31° 59' 33"	13.3	Galaxy	0.020x0.010	Triangulum	
IC 1731	01h 51m 13.6s	+27° 17' 05"	13.3	Galaxy	0.012x0.008	Triangulum	
IC 1764	02h 01m 24.2s	+24° 39' 59"	13.3	Galaxy	0.01x0.006	Aries	
IC 1815	02h 35m 24.8s	+32° 30' 29"	13.3	Galaxy	0.011x0.009	Triangulum	
IC 1861	02h 54m 10.2s	+25° 33' 47"	13.3	Galaxy	0.01x0.006	Aries	
NGC 6664	01h 47m 08.7s	+34° 27' 51"	13.4	Galaxy	0.005x0.004	Triangulum	
NGC 6530	01h 43m 28.5s	+35° 43' 44"	13.5	Galaxy	0.012x0.001	Andromeda	
NGC 7619	01h 58m 52.8s	+33° 27' 49"	13.5	Galaxy	0.011x0.004	Triangulum	
NGC 789	02h 03m 29.1s	+32° 09' 30"	13.5	Galaxy	0.01x0.006	Triangulum	
NGC 798	02h 04m 22.7s	+32° 09' 48"	13.5	Galaxy	0.01x0.004	Triangulum	
NGC 805	02h 05m 31.7s	+28° 53' 54"	13.5	Galaxy	0.009x0.005	Triangulum	
NGC 819	02h 09m 37.1s	+29° 19' 10"	13.5	Galaxy	0.005x0.003	Triangulum	
NGC 953	02h 32m 13.6s	+29° 40' 05"	13.5	Galaxy	0.010x0.010	Triangulum	
IC 1823	02h 39m 41.9s	+32° 08' 50"	13.5	Galaxy	0.017x0.016	Triangulum	
NGC 7059	01h 53m 45.3s	+36° 13' 58"	13.6	Galaxy	0.01x0.0025	Andromeda	
NGC 904	02h 25m 08.2s	+27° 25' 26"	13.6	Galaxy	0.01x0.0075	Aries	
IC 1792	02h 20m 05.9s	+34° 32' 38"	13.6	Galaxy	0.009x0.005	Triangulum	
IC 1067	02h 44m 56.0s	+32° 35' 14"	13.7	Galaxy	0.009x0.008	Triangulum	
NGC 7107	01h 53m 57.7s	+36° 08' 29"	13.7	Galaxy	0.010x0.01	Andromeda	
IC 804	02h 05m 05.0s	+30° 55' 06"	13.7	Galaxy	0.011x0.002	Triangulum	
IC 900	02h 24m 34.5s	+26° 35' 35"	13.7	Galaxy	0.009x0.005	Aries	
IC 1789	02h 18m 55.3s	+32° 28' 41"	13.7	Galaxy	0.018x0.003	Triangulum	
IC 1874	03h 07m 30.0s	+36° 05' 01"	13.7	Galaxy	0.008x0.005	Perseus	
NGC 7800	02h 01m 37.0s	+28° 18' 45"	13.8	Galaxy	0.010x0.007	Triangulum	
NGC 861	02h 16m 56.2s	+35° 59' 49"	13.8	Galaxy	0.012x0.004	Triangulum	
IC 1793	02h 22m 36.5s	+32° 37' 33"	13.8	Galaxy	0.012x0.004	Triangulum	
NGC 7177	01h 54m 58.8s	+36° 19' 04"	13.9	Galaxy	0.010x0.001	Andromeda	
NGC 7391	01h 57m 57.7s	+33° 21' 16"	13.9	Galaxy	0.007x0.005	Triangulum	
826-1	02h 10m 28.1s	+30° 49' 26"	13.9	Galaxy	0.006x0.005	Triangulum	826-1

Table 61: Main objects visible on chart 54 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1753	01h 58m 21.1s	+28° 40' 36"	13.9	Galaxy	0.003x0.003	Triangulum	
IC 189	02h 02m 53.6s	+23° 38' 15"	13.9	Galaxy	0.005x0.005	Aries	
NGC 7408	01h 57m 58.0s	+33° 06' 10"	14.0	Galaxy	0.011x0.002	Triangulum	
NGC 928	02h 28m 43.6s	+27° 18' 03"	14.0	Galaxy	0.005x0.002	Aries	
IC 1732	01h 51m 51.5s	+36° 01' 18"	14.0	Galaxy	0.012x0.003	Andromeda	
NGC 1061	02h 44m 21.2s	+32° 32' 34"	14.1	Galaxy	0.007x0.005	Triangulum	
IC 190	02h 03m 07.9s	+23° 38' 11"	14.1	Galaxy	0.006x0.004	Aries	
IC 1057	02h 44m 08.2s	+32° 34' 03"	14.2	Galaxy	0.01x0.006	Triangulum	
IC 915	02h 26m 48.2s	+27° 18' 08"	14.2	Galaxy	0.005x0.005	Aries	
IC 226	02h 28m 48.6s	+28° 17' 20"	14.2	Galaxy	0.014x0.012	Triangulum	
NGC 7092	01h 53m 54.3s	+36° 18' 41"	14.3	Galaxy	0.008x0.004	Andromeda	M39
IC 816	02h 09m 11.3s	+29° 20' 28"	14.3	Galaxy	0.003x0.003	Triangulum	
NGC 860	02h 16m 03.5s	+30° 51' 46"	14.3	Galaxy	0.004x0.002	Triangulum	
IC 1718	01h 39m 28.9s	+33° 27' 23"	14.4	Galaxy	0.005x0.002	Triangulum	
NGC 919	02h 27m 19.4s	+27° 17' 30"	14.5	Galaxy	0.01x0.0025	Aries	
978B	02h 35m 53.2s	+32° 55' 14"	14.5	Galaxy	0.003x0.001	Triangulum	978B
IC 227	02h 29m 06.5s	+28° 15' 20"	14.5	Galaxy	0.010x0.006	Triangulum	
NGC 7000	01h 53m 20.4s	+36° 07' 30"	14.6	Galaxy	0.006x0.005	Andromeda	CALDWELL 20, North America nebula
704-2	01h 53m 41.7s	+36° 12' 46"	14.6	Galaxy	0.003x0.003	Andromeda	704-2
IC 180	02h 01m 00.9s	+23° 41' 30"	14.6	Galaxy	0.006x0.002	Aries	
IC 1785	02h 17m 25.0s	+32° 44' 59"	14.7	Galaxy	0.007x0.003	Triangulum	
IC 1804-2	02h 30m 51.5s	+23° 11' 17"	14.7	Galaxy	0.002x0.002	Aries	IC 1804-2
IC 181	02h 01m 03.0s	+23° 44' 45"	14.7	Galaxy	0.004x0.003	Aries	
IC 901	02h 24m 36.4s	+26° 38' 16"	14.8	Galaxy	0.003x0.003	Aries	
IC 970	02h 35m 16.8s	+33° 03' 17"	14.8	Galaxy	0.005x0.001	Triangulum	
NGC 7380	01h 57m 48.6s	+33° 08' 47"	14.9	Galaxy	0.003x0.001	Triangulum	
IC 1803	02h 30m 18.8s	+23° 13' 13"	15.0	Galaxy	0.002x0.001	Aries	
826-2	02h 10m 27.8s	+30° 49' 41"	15.2	Galaxy	0.002x8.333	Triangulum	826-2
IC 1735	01h 51m 54.5s	+33° 10' 50"	15.2	Galaxy	0.004x0.002	Triangulum	
IC 916	02h 26m 50.3s	+27° 19' 25"	15.3	Galaxy	0.007x0.002	Aries	
IC 1752	01h 58m 17.2s	+28° 42' 05"	15.3	Galaxy	0.002x0.001	Triangulum	
IC 903	02h 25m 03.5s	+27° 26' 16"	15.7	Galaxy	0.004x0.002	Aries	

7.56 Main objects visible on chart 55

Table 62: Main objects visible on chart 55

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel22	03h 48m 28.4s	+24° 10' 17"	1.2	Open cluster	0.916x0.916	Taurus	M45, Pleiades Cluster
IC 348	03h 45m 42.0s	+32° 13' 07"	7.3	Open cluster	0.083x0.083	Perseus	
NGC 1514	04h 10m 25.1s	+30° 49' 22"	10.9	Planetary Nebula	0.018x0.018	Taurus	
IC 2003	03h 57m 31.2s	+33° 55' 37"	11.4	Planetary Nebula	0.002x0.002	Perseus	
NGC 1156	03h 00m 45.5s	+25° 18' 29"	11.7	Galaxy	0.021x0.014	Aries	
IC 351	03h 48m 42.5s	+35° 06' 06"	11.9	Planetary Nebula	0.002x0.002	Perseus	

Table 62: Main objects visible on chart 55 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1167	03h 02m 49.8s	+35° 16' 34"	12.4	Galaxy	0.027x0.019	Perseus	
NGC 1226	03h 12m 13.4s	+35° 27' 13"	12.9	Galaxy	0.013x0.010	Perseus	
NGC 1093	02h 49m 22.5s	+34° 29' 39"	13.1	Galaxy	0.011x0.008	Triangulum	
NGC 1497	04h 03m 11.1s	+23° 10' 57"	13.1	Galaxy	0.012x0.005	Taurus	
IC 1861	02h 54m 10.2s	+25° 33' 47"	13.3	Galaxy	0.01x0.006	Aries	
NGC 1465	03h 54m 40.3s	+32° 32' 42"	13.7	Galaxy	0.014x0.004	Perseus	
IC 1874	03h 07m 30.0s	+36° 05' 01"	13.7	Galaxy	0.008x0.005	Perseus	
IC 359	04h 13m 35.0s	+27° 44' 53"	13.9	Galaxy	0.010x0.010	Taurus	
NGC 1227	03h 12m 15.8s	+35° 23' 33"	14.2	Galaxy	0.008x0.007	Perseus	
IC 1508	04h 06m 53.0s	+25° 27' 25"	14.5	Galaxy	0.005x0.005	Taurus	

7.57 Main objects visible on chart 56

Table 63: Main objects visible on chart 56

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1912	05h 29m 55.6s	+35° 52' 06"	6.4	Open cluster	0.125x0.125	Auriga	M38
NGC 1893	05h 23m 56.6s	+33° 25' 49"	7.5	Open cluster	0.083x0.083	Auriga	
NGC 1907	05h 29m 16.7s	+35° 20' 21"	8.2	Open cluster	0.041x0.041	Auriga	
NGC 1514	04h 10m 25.1s	+30° 49' 22"	10.9	Planetary Nebula	0.018x0.018	Taurus	
NGC 1750	05h 04m 59.6s	+23° 40' 57"	11.0	Open cluster	0.208x0.1	Taurus	
NGC 1758	05h 05m 41.7s	+23° 49' 20"	11.0	Open cluster	0.333x0.333	Taurus	
NGC 1802	05h 11m 19.9s	+24° 08' 47"	11.0	Open cluster	0.166x0.166	Taurus	
IC 359	04h 13m 35.0s	+27° 44' 53"	13.9	Galaxy	0.010x0.010	Taurus	
IC 1508	04h 06m 53.0s	+25° 27' 25"	14.5	Galaxy	0.005x0.005	Taurus	
NGC 1539-1	04h 20m 08.3s	+26° 52' 12"	14.8	Galaxy	0.004x0.004	Taurus	1539-1
IC 405	05h 17m 40.9s	+34° 22' 29"	-	Nebula	0.25x0.166	Auriga	CALDWELL 31, Flaming Star nebula

7.58 Main objects visible on chart 57

Table 64: Main objects visible on chart 57

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2168	06h 10m 06.2s	+24° 20' 45"	5.1	Open cluster	0.208x0.208	Gemini	M35
NGC 2099	05h 53m 29.0s	+32° 33' 22"	5.6	Open cluster	0.125x0.125	Auriga	M37
NGC 1960	05h 37m 29.3s	+34° 09' 03"	6.0	Open cluster	0.083x0.083	Auriga	M36
NGC 1912	05h 29m 55.6s	+35° 52' 06"	6.4	Open cluster	0.125x0.125	Auriga	M38
NGC 2129	06h 02m 12.2s	+23° 19' 01"	6.7	Open cluster	0.05x0.05	Gemini	
NGC 1893	05h 23m 56.6s	+33° 25' 49"	7.5	Open cluster	0.083x0.083	Auriga	
NGC 1907	05h 29m 16.7s	+35° 20' 21"	8.2	Open cluster	0.041x0.041	Auriga	
IC 2157	06h 05m 55.9s	+24° 03' 13"	8.4	Open cluster	0.041x0.041	Gemini	
NGC 2158	06h 08m 31.7s	+24° 05' 33"	8.6	Open cluster	0.041x0.041	Gemini	
NGC 2240	06h 34m 22.7s	+35° 14' 09"	10.0	Open cluster	0.0x0.0	Auriga	

Table 64: Main objects visible on chart 57 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 405	05h 17m 40.9s	+34° 22' 29"	-	Nebula	0.25x0.166	Auriga	CALDWELL 31, Flaming Star nebula

7.59 Main objects visible on chart 58

Table 65: Main objects visible on chart 58

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2331	07h 08m 07.0s	+27° 13' 57"	8.5	Open cluster	0.158x0.158	Gemini	
NGC 2266	06h 44m 26.6s	+26° 57' 01"	9.5	Open cluster	0.041x0.041	Gemini	
NGC 2240	06h 34m 22.7s	+35° 14' 09"	10.0	Open cluster	0.0x0.0	Auriga	
NGC 2371	07h 26m 41.9s	+29° 27' 06"	11.2	Planetary Nebula	0.008x0.008	Gemini	
NGC 2274	06h 48m 28.4s	+33° 32' 48"	12.1	Galaxy	0.01x0.009	Gemini	
NGC 2415	07h 38m 07.3s	+35° 12' 02"	12.4	Galaxy	0.007x0.007	Lynx	
IC 2196	07h 35m 18.5s	+31° 21' 57"	12.7	Galaxy	0.011x0.009	Gemini	
NGC 2435	07h 45m 22.0s	+31° 36' 23"	12.8	Galaxy	0.018x0.004	Gemini	
NGC 2389	07h 30m 15.1s	+33° 49' 21"	12.9	Galaxy	0.016x0.011	Gemini	
NGC 2410	07h 36m 11.7s	+32° 46' 55"	13.0	Galaxy	0.02x0.005	Gemini	
NGC 2289	06h 52m 04.4s	+33° 27' 24"	13.1	Galaxy	0.009x0.005	Gemini	
NGC 2275	06h 48m 28.9s	+33° 34' 42"	13.2	Galaxy	0.010x0.007	Gemini	
NGC 2290	06h 52m 07.7s	+33° 24' 55"	13.2	Galaxy	0.01x0.005	Gemini	
NGC 2291	06h 52m 09.5s	+33° 30' 10"	13.2	Galaxy	0.008x0.006	Gemini	
IC 2199	07h 36m 04.3s	+31° 14' 07"	13.2	Galaxy	0.009x0.005	Gemini	
NGC 2333	07h 09m 32.7s	+35° 08' 25"	13.3	Galaxy	0.008x0.005	Gemini	
NGC 2357	07h 18m 46.0s	+23° 19' 22"	13.3	Galaxy	0.03x0.004	Gemini	
NGC 2449	07h 48m 26.6s	+26° 53' 06"	13.4	Galaxy	0.010x0.005	Gemini	
IC 2193	07h 34m 32.5s	+31° 26' 36"	13.4	Galaxy	0.012x0.007	Gemini	
NGC 2379	07h 28m 36.5s	+33° 46' 28"	13.5	Galaxy	0.007x0.006	Gemini	
IC 2375	07h 28m 19.7s	+33° 47' 42"	13.6	Galaxy	0.010x0.008	Gemini	
IC 2180	07h 12m 26.2s	+26° 20' 24"	13.6	Galaxy	0.009x0.006	Gemini	
IC 2203	07h 41m 43.7s	+34° 11' 14"	13.6	Galaxy	0.01x0.008	Gemini	
NGC 2370	07h 26m 06.7s	+23° 44' 49"	13.7	Galaxy	0.006x0.004	Gemini	
NGC 2294	06h 52m 22.2s	+33° 30' 17"	13.8	Galaxy	0.006x0.003	Gemini	
NGC 2373	07h 27m 47.2s	+33° 47' 13"	13.8	Galaxy	0.005x0.004	Gemini	
NGC 2388	07h 30m 03.7s	+33° 46' 51"	13.8	Galaxy	0.008x0.005	Gemini	
NGC 2385	07h 29m 38.5s	+33° 48' 00"	13.9	Galaxy	0.008x0.005	Gemini	
NGC 2398-1	07h 31m 21.7s	+24° 26' 58"	13.9	Galaxy	0.003x0.002	Gemini	2398-1
IC 2194	07h 34m 49.0s	+31° 17' 40"	13.9	Galaxy	0.009x0.002	Gemini	
IC 2393	07h 31m 15.2s	+33° 59' 21"	14.0	Galaxy	0.01x0.006	Gemini	
IC 2201	07h 37m 26.5s	+33° 04' 55"	14.0	Galaxy	0.010x0.002	Gemini	
IC 2208	07h 53m 14.3s	+27° 26' 13"	14.0	Galaxy	0.008x0.005	Gemini	
NGC 2405-1	07h 33m 20.0s	+25° 51' 60"	14.1	Galaxy	0.004x0.002	Gemini	2405-1
IC 2176	07h 08m 41.8s	+32° 26' 27"	14.1	Galaxy	0.007x0.003	Gemini	
IC 2191	07h 31m 22.8s	+24° 17' 23"	14.1	Galaxy	0.007x0.005	Gemini	
IC 2198	07h 35m 16.2s	+23° 55' 34"	14.1	Galaxy	0.003x0.003	Gemini	
IC 2205	07h 48m 00.7s	+26° 49' 39"	14.1	Galaxy	0.004x0.002	Gemini	

Table 65: Main objects visible on chart 58 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2288	06h 52m 02.7s	+33° 26' 25"	14.4	Galaxy	0.003x0.001	Gemini	
IC 2185	07h 24m 25.7s	+32° 27' 32"	14.4	Galaxy	0.005x0.003	Gemini	
IC 474	07h 47m 13.4s	+26° 27' 34"	14.4	Galaxy	0.008x0.002	Gemini	
IC 477	07h 53m 11.5s	+23° 26' 11"	14.4	Galaxy	0.007x0.007	Gemini	
IC 478	07h 54m 47.5s	+26° 26' 40"	14.4	Galaxy	0.005x0.002	Gemini	
NGC 2405-2	07h 33m 21.2s	+25° 51' 59"	14.5	Galaxy	0.002x0.002	Gemini	2405-2
IC 2207	07h 51m 00.5s	+33° 54' 58"	14.5	Galaxy	0.016x0.002	Gemini	
IC 475	07h 48m 17.2s	+30° 26' 37"	14.5	Galaxy	0.006x0.004	Gemini	
IC 2450	07h 48m 38.5s	+26° 58' 26"	14.7	Galaxy	0.007x0.001	Gemini	
IC 476	07h 48m 22.6s	+26° 54' 19"	14.8	Galaxy	0.004x0.002	Gemini	
NGC 2398-2	07h 31m 19.1s	+24° 27' 10"	14.9	Galaxy	0.004x0.004	Gemini	2398-2
IC 2178	07h 08m 47.6s	+32° 29' 01"	15.0	Galaxy	0.003x0.001	Gemini	
IC 2192	07h 34m 28.7s	+31° 30' 48"	15.0	Galaxy	0.002x0.002	Gemini	
IC 2204	07h 42m 28.2s	+34° 11' 18"	15.0	Galaxy	0.009x0.007	Gemini	
IC 2197-1	07h 35m 27.7s	+31° 17' 49"	15.4	Galaxy	0.003x0.003	Gemini	IC 2197-1
IC 2197-2	07h 35m 28.3s	+31° 17' 53"	16.0	Galaxy	0.001x0.001	Gemini	IC 2197-2

7.60 Main objects visible on chart 59

Table 66: Main objects visible on chart 59

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2683	08h 53m 48.2s	+33° 21' 05"	9.8	Galaxy	0.077x0.017	Lynx	
NGC 2543	08h 14m 07.9s	+36° 11' 54"	11.9	Galaxy	0.019x0.01	Lynx	
NGC 2750	09h 06m 51.2s	+25° 21' 53"	11.9	Galaxy	0.018x0.015	Cancer	
IC 2554A	08h 18m 57.3s	+23° 24' 55"	12.0	Galaxy	0.026x0.02	Cancer	IC 2554A
NGC 2592	08h 28m 12.8s	+25° 54' 38"	12.3	Galaxy	0.014x0.011	Cancer	
NGC 2608	08h 36m 22.7s	+28° 24' 37"	12.3	Galaxy	0.015x0.01	Cancer	
NGC 2649	08h 45m 16.0s	+34° 39' 05"	12.3	Galaxy	0.012x0.011	Lynx	
NGC 2415	07h 38m 07.3s	+35° 12' 02"	12.4	Galaxy	0.007x0.007	Lynx	
NGC 2532	08h 11m 24.2s	+33° 54' 07"	12.4	Galaxy	0.015x0.011	Lynx	
NGC 2619	08h 38m 38.1s	+28° 38' 28"	12.4	Galaxy	0.015x0.009	Cancer	
NGC 2487	07h 59m 25.4s	+25° 05' 58"	12.5	Galaxy	0.022x0.017	Gemini	
NGC 2604	08h 34m 28.9s	+29° 28' 34"	12.6	Galaxy	0.014x0.014	Cancer	
NGC 2679	08h 52m 38.7s	+30° 47' 48"	12.6	Galaxy	0.013x0.010	Cancer	
NGC 2492	08h 00m 35.7s	+26° 58' 35"	12.7	Galaxy	0.008x0.008	Gemini	
NGC 2575	08h 23m 49.1s	+24° 14' 18"	12.7	Galaxy	0.014x0.010	Cancer	
NGC 2435	07h 45m 22.0s	+31° 36' 23"	12.8	Galaxy	0.018x0.004	Gemini	
NGC 2535	08h 12m 18.4s	+25° 09' 10"	12.8	Galaxy	0.020x0.01	Cancer	
NGC 2481	07h 58m 18.3s	+23° 43' 06"	13.0	Galaxy	0.011x0.004	Gemini	
IC 509	08h 33m 07.3s	+23° 56' 54"	13.0	Galaxy	0.01x0.009	Cancer	
NGC 2512	08h 04m 11.9s	+23° 20' 25"	13.1	Galaxy	0.011x0.007	Cancer	
NGC 2719	09h 01m 23.1s	+35° 39' 24"	13.1	Galaxy	0.009x0.002	Lynx	
NGC 2746	09h 07m 06.6s	+35° 18' 16"	13.1	Galaxy	0.013x0.012	Lynx	
IC 2393	08h 47m 54.1s	+28° 06' 14"	13.2	Galaxy	0.010x0.007	Cancer	

Table 66: Main objects visible on chart 59 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2486	07h 59m 01.7s	+25° 06' 42"	13.3	Galaxy	0.014x0.007	Gemini	
NGC 2628	08h 41m 25.9s	+23° 28' 30"	13.3	Galaxy	0.009x0.009	Cancer	
NGC 2735	09h 03m 42.0s	+25° 51' 46"	13.3	Galaxy	0.01x0.003	Cancer	
IC 2421	08h 55m 28.0s	+32° 36' 41"	13.3	Galaxy	0.016x0.012	Cancer	
NGC 2449	07h 48m 26.6s	+26° 53' 06"	13.4	Galaxy	0.010x0.005	Gemini	
NGC 2498	08h 00m 43.7s	+24° 55' 59"	13.4	Galaxy	0.009x0.006	Gemini	
NGC 2623	08h 39m 28.4s	+25° 41' 26"	13.4	Galaxy	0.02x0.005	Cancer	
IC 2365	08h 27m 23.5s	+27° 46' 50"	13.4	Galaxy	0.009x0.007	Cancer	
NGC 2540	08h 13m 51.8s	+26° 18' 23"	13.5	Galaxy	0.010x0.007	Cancer	
NGC 2620	08h 38m 32.3s	+24° 52' 60"	13.5	Galaxy	0.016x0.004	Cancer	
IC 2217	08h 01m 55.9s	+27° 26' 59"	13.5	Galaxy	0.005x0.003	Cancer	
IC 2430	09h 05m 27.0s	+27° 52' 48"	13.5	Galaxy	0.009x0.005	Cancer	
IC 492	08h 06m 43.8s	+26° 06' 54"	13.5	Galaxy	0.009x0.008	Cancer	
NGC 2724	09h 02m 09.3s	+35° 41' 28"	13.6	Galaxy	0.015x0.013	Lynx	
NGC 2743	09h 05m 57.1s	+24° 55' 54"	13.6	Galaxy	0.009x0.006	Cancer	
IC 2203	07h 41m 43.7s	+34° 11' 14"	13.6	Galaxy	0.01x0.008	Gemini	
IC 2214	08h 01m 02.8s	+33° 14' 24"	13.6	Galaxy	0.006x0.005	Lynx	
IC 2239	08h 15m 10.9s	+23° 48' 39"	13.6	Galaxy	0.008x0.005	Cancer	
NGC 2607	08h 35m 01.5s	+26° 54' 38"	13.7	Galaxy	0.007x0.006	Cancer	
IC 2211	07h 58m 54.3s	+32° 30' 33"	13.7	Galaxy	0.006x0.003	Gemini	
IC 2219	08h 03m 42.6s	+27° 23' 09"	13.7	Galaxy	0.010x0.005	Cancer	
IC 486	08h 01m 26.9s	+26° 33' 46"	13.7	Galaxy	0.007x0.005	Gemini	
NGC 2480	07h 58m 15.2s	+23° 43' 50"	13.8	Galaxy	0.010x0.005	Gemini	
IC 2668	08h 50m 31.1s	+36° 38' 35"	13.8	Galaxy	0.012x0.007	Lynx	
IC 2394	08h 48m 11.6s	+28° 10' 10"	13.8	Galaxy	0.012x0.005	Cancer	
IC 2428	09h 04m 19.9s	+30° 31' 08"	13.8	Galaxy	0.015x0.003	Cancer	
NGC 2719A	09h 01m 23.4s	+35° 38' 58"	13.9	Galaxy	0.003x0.002	Lynx	2719A
IC 2225	08h 06m 38.3s	+35° 53' 40"	13.9	Galaxy	0.007x0.005	Lynx	
IC 2282	08h 20m 20.0s	+24° 44' 08"	13.9	Galaxy	0.008x0.006	Cancer	
IC 2361	08h 26m 50.0s	+27° 48' 54"	13.9	Galaxy	0.009x0.004	Cancer	
IC 2439	09h 09m 44.2s	+32° 31' 11"	13.9	Galaxy	0.008x0.001	Cancer	
IC 2208	07h 53m 14.3s	+27° 26' 13"	14.0	Galaxy	0.008x0.005	Gemini	
IC 2387	08h 39m 40.3s	+30° 44' 03"	14.0	Galaxy	0.009x0.004	Cancer	
IC 508	08h 29m 26.6s	+25° 03' 50"	14.0	Galaxy	0.005x0.005	Cancer	
IC 2594	08h 28m 21.8s	+25° 49' 06"	14.1	Galaxy	0.006x0.004	Cancer	
NGC 2622	08h 39m 14.8s	+24° 49' 53"	14.1	Galaxy	0.006x0.003	Cancer	
IC 2205	07h 48m 00.7s	+26° 49' 39"	14.1	Galaxy	0.004x0.002	Gemini	
IC 2227	08h 08m 17.4s	+36° 10' 49"	14.1	Galaxy	0.005x0.005	Lynx	
IC 2267	08h 19m 06.0s	+24° 40' 45"	14.1	Galaxy	0.017x0.002	Cancer	
IC 493	08h 08m 32.5s	+25° 04' 50"	14.1	Galaxy	0.005x0.004	Cancer	
IC 2536	08h 12m 20.9s	+25° 07' 31"	14.2	Galaxy	0.006x0.003	Cancer	
IC 2271	08h 19m 24.1s	+24° 28' 14"	14.2	Galaxy	0.002x0.001	Cancer	
IC 480	07h 56m 29.0s	+26° 41' 37"	14.2	Galaxy	0.014x0.002	Gemini	
IC 2576	08h 24m 02.5s	+25° 40' 51"	14.3	Galaxy	0.014x0.002	Cancer	
IC 2378	08h 29m 38.2s	+30° 22' 14"	14.3	Galaxy	0.006x0.006	Cancer	
NGC 2611	08h 36m 33.2s	+24° 57' 53"	14.4	Galaxy	0.005x0.001	Cancer	

Table 66: Main objects visible on chart 59 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2254	08h 17m 50.0s	+24° 43' 26"	14.4	Galaxy	0.002x0.001	Cancer	
IC 2429	09h 04m 47.2s	+29° 13' 28"	14.4	Galaxy	0.003x0.001	Cancer	
IC 474	07h 47m 13.4s	+26° 27' 34"	14.4	Galaxy	0.008x0.002	Gemini	
IC 477	07h 53m 11.5s	+23° 26' 11"	14.4	Galaxy	0.007x0.007	Gemini	
IC 478	07h 54m 47.5s	+26° 26' 40"	14.4	Galaxy	0.005x0.002	Gemini	
IC 481	08h 00m 07.5s	+24° 06' 37"	14.4	Galaxy	0.008x0.001	Gemini	
IC 497	08h 11m 10.8s	+24° 52' 05"	14.4	Galaxy	0.006x0.002	Cancer	
IC 2207	07h 51m 00.5s	+33° 54' 58"	14.5	Galaxy	0.016x0.002	Gemini	
IC 2212	08h 00m 05.8s	+32° 33' 46"	14.5	Galaxy	0.004x0.004	Gemini	
IC 2213	08h 00m 12.7s	+27° 24' 52"	14.5	Galaxy	0.006x0.005	Gemini	
IC 2268	08h 19m 11.0s	+24° 44' 21"	14.5	Galaxy	0.001x0.001	Cancer	
IC 2376	08h 29m 32.7s	+30° 20' 49"	14.5	Galaxy	0.005x0.003	Cancer	
IC 2404	08h 49m 15.7s	+29° 25' 27"	14.5	Galaxy	0.003x0.002	Cancer	
IC 475	07h 48m 17.2s	+30° 26' 37"	14.5	Galaxy	0.006x0.004	Gemini	
IC 482	08h 00m 52.5s	+25° 18' 21"	14.5	Galaxy	0.005x0.003	Gemini	
IC 485	08h 01m 25.6s	+26° 39' 04"	14.5	Galaxy	0.01x0.0025	Gemini	
IC 491	08h 05m 00.6s	+26° 28' 04"	14.5	Galaxy	0.004x0.001	Cancer	
IC 501-2	08h 19m 52.1s	+24° 28' 48"	14.5	Galaxy	0.001x0.001	Cancer	IC 501-2
IC 2490	08h 00m 23.9s	+27° 01' 40"	14.6	Galaxy	0.005x0.003	Gemini	
IC 2230	08h 12m 01.6s	+25° 37' 51"	14.6	Galaxy	0.002x0.001	Cancer	
IC 2256	08h 17m 58.7s	+24° 07' 12"	14.6	Galaxy	0.005x0.002	Cancer	
IC 2380	08h 29m 50.4s	+30° 20' 39"	14.6	Galaxy	0.004x0.004	Cancer	
IC 484	08h 01m 06.8s	+26° 36' 56"	14.6	Galaxy	0.005x0.002	Gemini	
IC 501-1	08h 19m 51.9s	+24° 28' 50"	14.6	Galaxy	0.001x0.001	Cancer	IC 501-1
IC 2450	07h 48m 38.5s	+26° 58' 26"	14.7	Galaxy	0.007x0.001	Gemini	
IC 2374	08h 29m 28.8s	+30° 22' 57"	14.7	Galaxy	0.005x0.004	Cancer	
IC 2383	08h 30m 48.1s	+30° 37' 37"	14.7	Galaxy	0.002x0.002	Cancer	
IC 2402	08h 49m 05.4s	+31° 43' 08"	14.7	Galaxy	0.004x0.004	Cancer	
IC 479	07h 55m 28.2s	+26° 57' 33"	14.7	Galaxy	0.005x0.005	Gemini	
NGC 2604B	08h 34m 41.7s	+29° 26' 13"	14.8	Galaxy	0.007x0.005	Cancer	2604B
IC 2621	08h 38m 40.9s	+24° 56' 11"	14.8	Galaxy	0.006x0.003	Cancer	
IC 2288	08h 20m 26.3s	+23° 41' 23"	14.8	Galaxy	0.005x0.002	Cancer	
IC 2384	08h 35m 30.7s	+32° 22' 21"	14.8	Galaxy	0.004x0.004	Cancer	
IC 476	07h 48m 22.6s	+26° 54' 19"	14.8	Galaxy	0.004x0.002	Gemini	
IC 490	08h 04m 25.4s	+25° 45' 34"	14.8	Galaxy	0.004x0.003	Cancer	
IC 2218-1	08h 02m 43.2s	+24° 22' 52"	14.9	Galaxy	0.005x0.001	Cancer	IC 2218-1
IC 2204	07h 42m 28.2s	+34° 11' 18"	15.0	Galaxy	0.009x0.007	Gemini	
IC 496	08h 10m 49.1s	+25° 49' 38"	15.2	Galaxy	0.006x0.004	Cancer	
NGC 2735A	09h 03m 45.3s	+25° 52' 01"	15.3	Galaxy	0.003x0.001	Cancer	2735A
IC 2234	08h 15m 01.2s	+35° 26' 16"	15.5	Galaxy	0.002x0.002	Lynx	
IC 2249	08h 17m 38.9s	+24° 26' 12"	15.7	Galaxy	0.002x0.002	Cancer	
IC 2250	08h 17m 36.3s	+23° 34' 34"	15.7	Galaxy	0.001x0.001	Cancer	

7.61 Main objects visible on chart 60

Table 67: Main objects visible on chart 60

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2683	08h 53m 48.2s	+33° 21' 05"	9.8	Galaxy	0.077x0.017	Lynx	
NGC 2859	09h 25m 24.3s	+34° 26' 07"	10.9	Galaxy	0.038x0.034	Leo Minor	
NGC 2964	09h 43m 57.8s	+31° 45' 50"	11.3	Galaxy	0.025x0.014	Leo	
NGC 2750	09h 06m 51.2s	+25° 21' 53"	11.9	Galaxy	0.018x0.015	Cancer	
NGC 2832	09h 20m 52.5s	+33° 40' 22"	11.9	Galaxy	0.025x0.016	Lynx	
NGC 2968	09h 44m 15.6s	+31° 50' 44"	11.9	Galaxy	0.017x0.013	Leo	
NGC 3003	09h 49m 39.8s	+33° 20' 15"	11.9	Galaxy	0.047x0.011	Leo Minor	
NGC 3098	10h 03m 17.5s	+24° 37' 26"	12.0	Galaxy	0.018x0.005	Leo	
NGC 3021	09h 52m 01.0s	+33° 28' 09"	12.1	Galaxy	0.012x0.007	Leo Minor	
NGC 3067	09h 59m 24.5s	+32° 17' 00"	12.1	Galaxy	0.02x0.0075	Leo	
NGC 2770	09h 10m 39.4s	+33° 03' 01"	12.2	Galaxy	0.030x0.009	Lynx	
NGC 2789	09h 16m 04.1s	+29° 39' 17"	12.2	Galaxy	0.012x0.010	Cancer	
NGC 3167	09h 16m 04.1s	+29° 39' 17"	12.2	Galaxy	0.012x0.010	Cancer	
NGC 2778	09h 13m 31.1s	+34° 57' 11"	12.4	Galaxy	0.011x0.008	Lynx	
NGC 3106	10h 05m 07.6s	+31° 05' 53"	12.4	Galaxy	0.015x0.015	Leo Minor	
NGC 3032	09h 53m 10.5s	+29° 09' 05"	12.5	Galaxy	0.014x0.010	Leo	
NGC 2679	08h 52m 38.7s	+30° 47' 48"	12.6	Galaxy	0.013x0.010	Cancer	
NGC 2783	09h 14m 43.9s	+29° 55' 05"	12.6	Galaxy	0.018x0.012	Cancer	
NGC 2918	09h 36m 48.1s	+31° 37' 27"	12.6	Galaxy	0.011x0.008	Leo	
NGC 2942	09h 40m 12.7s	+33° 55' 27"	12.6	Galaxy	0.015x0.012	Leo Minor	
NGC 3074	10h 00m 45.1s	+35° 18' 23"	12.7	Galaxy	0.019x0.017	Leo Minor	
NGC 3126	10h 09m 22.9s	+31° 46' 30"	12.8	Galaxy	0.023x0.005	Leo Minor	
IC 2450	09h 18m 08.3s	+25° 21' 06"	12.8	Galaxy	0.012x0.006	Cancer	
NGC 2862	09h 25m 57.9s	+26° 41' 49"	12.9	Galaxy	0.020x0.004	Leo	
NGC 2927	09h 38m 16.6s	+23° 30' 32"	12.9	Galaxy	0.010x0.008	Leo	
NGC 2955	09h 42m 21.6s	+35° 48' 01"	12.9	Galaxy	0.012x0.005	Leo Minor	
NGC 3026	09h 51m 57.1s	+28° 27' 60"	12.9	Galaxy	0.022x0.006	Leo	
IC 2476	09h 28m 56.7s	+29° 54' 24"	12.9	Galaxy	0.01x0.0075	Leo	
NGC 2793	09h 17m 52.7s	+34° 21' 22"	13.0	Galaxy	0.01x0.008	Lynx	
IC 2473	09h 28m 27.4s	+30° 21' 45"	13.0	Galaxy	0.013x0.010	Leo	
NGC 2719	09h 01m 23.1s	+35° 39' 24"	13.1	Galaxy	0.009x0.002	Lynx	
NGC 2746	09h 07m 06.6s	+35° 18' 16"	13.1	Galaxy	0.013x0.012	Lynx	
NGC 2893	09h 31m 20.5s	+29° 27' 38"	13.2	Galaxy	0.009x0.008	Leo	
NGC 2735	09h 03m 42.0s	+25° 51' 46"	13.3	Galaxy	0.01x0.003	Cancer	
NGC 2824	09h 20m 05.3s	+26° 11' 37"	13.3	Galaxy	0.007x0.005	Cancer	
NGC 2831	09h 20m 51.2s	+33° 40' 04"	13.3	Galaxy	0.004x0.004	Lynx	
NGC 3011	09h 50m 44.6s	+32° 08' 14"	13.3	Galaxy	0.007x0.006	Leo	
IC 2421	08h 55m 28.0s	+32° 36' 41"	13.3	Galaxy	0.016x0.012	Cancer	
NGC 2780	09h 13m 50.8s	+34° 51' 03"	13.4	Galaxy	0.007x0.005	Lynx	
NGC 2965	09h 44m 24.3s	+36° 09' 55"	13.4	Galaxy	0.01x0.0075	Leo Minor	
IC 2490	09h 34m 07.3s	+29° 50' 53"	13.4	Galaxy	0.012x0.008	Leo	
IC 2520	09h 57m 22.0s	+27° 08' 29"	13.4	Galaxy	0.005x0.005	Leo	
NGC 2796	09h 17m 46.5s	+30° 50' 24"	13.5	Galaxy	0.009x0.005	Cancer	
NGC 3012	09h 50m 56.3s	+34° 37' 48"	13.5	Galaxy	0.008x0.008	Leo Minor	
NGC 3099A	10h 03m 39.4s	+32° 37' 11"	13.5	Galaxy	0.005x0.004	Leo Minor	3099A
NGC 3118	10h 08m 14.1s	+32° 56' 20"	13.5	Galaxy	0.020x0.003	Leo Minor	

Table 67: Main objects visible on chart 60 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2430	09h 05m 27.0s	+27° 52' 48"	13.5	Galaxy	0.009x0.005	Cancer	
NGC 2724	09h 02m 09.3s	+35° 41' 28"	13.6	Galaxy	0.015x0.013	Lynx	
NGC 2743	09h 05m 57.1s	+24° 55' 54"	13.6	Galaxy	0.009x0.006	Cancer	
NGC 2766	09h 09m 52.1s	+29° 47' 30"	13.6	Galaxy	0.011x0.004	Cancer	
NGC 2926	09h 38m 35.3s	+32° 45' 36"	13.6	Galaxy	0.008x0.006	Leo	
NGC 2970	09h 44m 34.7s	+31° 53' 40"	13.6	Galaxy	0.003x0.002	Leo	
NGC 2981	09h 45m 60.0s	+31° 00' 53"	13.6	Galaxy	0.01x0.008	Leo	
IC 2551	10h 11m 40.6s	+24° 19' 32"	13.6	Galaxy	0.008x0.006	Leo	
IC 558	09h 46m 03.2s	+29° 22' 10"	13.6	Galaxy	0.006x0.006	Leo	
NGC 2826	09h 20m 29.7s	+33° 32' 49"	13.7	Galaxy	0.013x0.002	Lynx	
IC 2491	09h 36m 19.4s	+34° 39' 04"	13.7	Galaxy	0.009x0.006	Leo Minor	
IC 2550	10h 11m 29.1s	+27° 52' 00"	13.7	Galaxy	0.008x0.006	Leo Minor	
NGC 2840	09h 21m 58.9s	+35° 17' 28"	13.8	Galaxy	0.008x0.007	Lynx	
IC 2428	09h 04m 19.9s	+30° 31' 08"	13.8	Galaxy	0.015x0.003	Cancer	
IC 2435	09h 07m 53.2s	+26° 12' 10"	13.8	Galaxy	0.006x0.003	Cancer	
IC 2444	09h 13m 55.4s	+30° 08' 16"	13.8	Galaxy	0.005x0.005	Cancer	
IC 2446	09h 14m 35.5s	+28° 52' 35"	13.8	Galaxy	0.011x0.005	Cancer	
NGC 2719A	09h 01m 23.4s	+35° 38' 58"	13.9	Galaxy	0.003x0.002	Lynx	2719A
NGC 2830	09h 20m 46.9s	+33° 39' 40"	13.9	Galaxy	0.01x0.0025	Lynx	
IC 2439	09h 09m 44.2s	+32° 31' 11"	13.9	Galaxy	0.008x0.001	Cancer	
IC 2542	10h 08m 53.5s	+34° 13' 36"	13.9	Galaxy	0.007x0.006	Leo Minor	
NGC 2753-2	09h 08m 11.6s	+25° 16' 16"	14.0	Galaxy	0.002x0.002	Cancer	2753-2
NGC 2896	09h 31m 18.6s	+23° 35' 02"	14.0	Galaxy	0.007x0.007	Leo	
NGC 2944-1	09h 40m 22.1s	+32° 13' 43"	14.0	Galaxy	0.008x0.003	Leo	2944-1
NGC 2971	09h 44m 51.3s	+36° 05' 48"	14.0	Galaxy	0.009x0.006	Leo Minor	
IC 2486	09h 31m 20.1s	+26° 33' 41"	14.0	Galaxy	0.007x0.006	Leo	
IC 2495	09h 39m 10.2s	+27° 58' 35"	14.0	Galaxy	0.006x0.005	Leo	
IC 2524	09h 58m 36.4s	+33° 32' 02"	14.0	Galaxy	0.005x0.003	Leo Minor	
IC 2443	09h 12m 35.0s	+28° 45' 09"	14.1	Galaxy	0.005x0.005	Cancer	
IC 2540	10h 07m 49.0s	+31° 23' 16"	14.1	Galaxy	0.008x0.006	Leo Minor	
IC 2561	10h 20m 10.9s	+34° 35' 01"	14.1	Galaxy	0.007x0.004	Leo Minor	
NGC 2839	09h 21m 41.9s	+33° 34' 26"	14.2	Galaxy	0.007x0.007	Lynx	
IC 2445	09h 14m 17.7s	+31° 43' 57"	14.2	Galaxy	0.006x0.004	Cancer	
NGC 3068	09h 59m 42.1s	+28° 47' 29"	14.3	Galaxy	0.009x0.007	Leo	
IC 2449	09h 14m 37.4s	+29° 55' 31"	14.3	Galaxy	0.014x0.001	Cancer	
IC 2500	09h 43m 28.6s	+36° 15' 59"	14.3	Galaxy	0.009x0.002	Leo Minor	
NGC 2825	09h 20m 28.1s	+33° 39' 59"	14.4	Galaxy	0.007x0.003	Lynx	
IC 2429	09h 04m 47.2s	+29° 13' 28"	14.4	Galaxy	0.003x0.001	Cancer	
IC 536	09h 25m 42.4s	+25° 01' 55"	14.4	Galaxy	0.01x0.001	Leo	
IC 545	09h 37m 07.2s	+24° 51' 59"	14.4	Galaxy	0.004x0.003	Leo	
NGC 2753-1	09h 08m 11.3s	+25° 16' 05"	14.5	Galaxy	0.006x0.004	Cancer	2753-1
NGC 2834	09h 21m 08.1s	+33° 38' 01"	14.5	Galaxy	0.005x0.004	Lynx	
NGC 3071	09h 59m 55.7s	+31° 32' 03"	14.5	Galaxy	0.004x0.002	Leo	
NGC 3116	10h 07m 47.2s	+31° 00' 36"	14.5	Galaxy	0.003x0.003	Leo Minor	
IC 2451	09h 16m 49.9s	+23° 25' 16"	14.5	Galaxy	0.003x0.003	Cancer	
IC 2465	09h 24m 33.7s	+24° 22' 06"	14.5	Galaxy	0.007x0.004	Leo	

Table 67: Main objects visible on chart 60 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2466	09h 24m 47.0s	+24° 26' 24"	14.5	Galaxy	0.007x0.005	Leo	
IC 2480	09h 29m 21.5s	+29° 37' 38"	14.5	Galaxy	0.006x0.004	Leo	
IC 2498	09h 42m 24.5s	+28° 01' 55"	14.5	Galaxy	0.005x0.001	Leo	
IC 2519	09h 57m 02.5s	+33° 57' 01"	14.5	Galaxy	0.002x0.001	Leo Minor	
IC 2544	10h 09m 32.3s	+33° 15' 27"	14.5	Galaxy	0.003x0.003	Leo Minor	
IC 2823	09h 20m 23.2s	+33° 55' 54"	14.6	Galaxy	0.007x0.004	Lynx	
IC 2452	09h 16m 59.7s	+23° 23' 49"	14.6	Galaxy	0.003x0.001	Cancer	
IC 544	09h 36m 55.0s	+24° 48' 42"	14.6	Galaxy	0.006x0.001	Leo	
IC 2459	09h 20m 05.5s	+34° 47' 10"	14.7	Galaxy	0.003x0.002	Lynx	
IC 2470	09h 26m 43.0s	+23° 16' 58"	14.7	Galaxy	0.005x0.005	Leo	
IC 2478	09h 29m 04.8s	+29° 57' 30"	14.7	Galaxy	0.005x0.005	Leo	
IC 2496	09h 39m 49.4s	+34° 38' 41"	14.7	Galaxy	0.003x0.002	Leo Minor	
IC 2506	09h 46m 14.9s	+27° 10' 08"	14.7	Galaxy	0.007x0.005	Leo	
NGC 2827	09h 20m 24.6s	+33° 48' 15"	14.8	Galaxy	0.006x0.002	Lynx	
NGC 2833	09h 21m 03.5s	+33° 51' 02"	14.8	Galaxy	0.007x0.002	Lynx	
NGC 2944-2	09h 40m 20.9s	+32° 13' 43"	14.8	Galaxy	0.002x0.001	Leo	2944-2
NGC 3099B	10h 03m 33.8s	+32° 37' 37"	14.8	Galaxy	0.002x0.002	Leo Minor	3099B
IC 2456	09h 18m 30.4s	+34° 35' 55"	14.8	Galaxy	0.004x0.002	Lynx	
IC 2479	09h 29m 08.1s	+29° 54' 43"	14.8	Galaxy	0.003x0.001	Leo	
IC 2505	09h 46m 09.1s	+27° 11' 08"	14.8	Galaxy	0.008x0.007	Leo	
IC 2829	09h 20m 57.9s	+33° 34' 21"	14.9	Galaxy	0.002x0.002	Lynx	
IC 3013	09h 51m 13.2s	+33° 29' 06"	14.9	Galaxy	0.006x0.004	Leo Minor	
IC 2483	09h 30m 29.8s	+30° 54' 54"	14.9	Galaxy	0.003x0.002	Leo	
IC 2547	10h 11m 08.0s	+36° 24' 51"	14.9	Galaxy	0.003x0.001	Leo Minor	
NGC 2779	09h 13m 34.9s	+34° 58' 45"	15.0	Galaxy	0.005x0.005	Lynx	
IC 2828	09h 20m 40.5s	+33° 48' 43"	15.0	Galaxy	0.003x0.001	Lynx	
IC 2497	09h 42m 08.8s	+34° 39' 04"	15.0	Galaxy	0.005x0.002	Leo Minor	
IC 2508	09h 48m 11.0s	+33° 25' 29"	15.0	Galaxy	0.003x0.002	Leo Minor	
IC 2521	09h 58m 19.3s	+33° 53' 26"	15.0	Galaxy	0.004x0.004	Leo Minor	
IC 2502	09h 44m 20.2s	+35° 04' 39"	15.1	Galaxy	0.003x0.003	Leo Minor	
NGC 2770A	09h 10m 25.4s	+33° 02' 54"	15.2	Galaxy	0.005x0.004	Lynx	2770A
NGC 3068B	09h 59m 40.1s	+28° 47' 04"	15.2	Galaxy	0.002x0.002	Leo	3068B
IC 2475	09h 28m 58.1s	+29° 42' 47"	15.2	Galaxy	0.007x0.001	Leo	
NGC 2735A	09h 03m 45.3s	+25° 52' 01"	15.3	Galaxy	0.003x0.001	Cancer	2735A
IC 2499	09h 42m 27.1s	+27° 48' 48"	15.4	Galaxy	0.003x0.001	Leo	
IC 2549	10h 11m 13.6s	+36° 22' 34"	15.4	Galaxy	0.002x0.001	Leo Minor	
IC 2503	09h 44m 20.7s	+35° 07' 24"	15.5	Galaxy	0.003x0.001	Leo Minor	

7.62 Main objects visible on chart 61

Table 68: Main objects visible on chart 61

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3344	10h 44m 29.9s	+24° 49' 41"	9.9	Galaxy	0.059x0.054	Leo Minor	
NGC 3486	11h 01m 22.7s	+28° 52' 43"	10.5	Galaxy	0.059x0.043	Leo Minor	

Table 68: Main objects visible on chart 61 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3245	10h 28m 18.7s	+28° 24' 56"	10.8	Galaxy	0.026x0.015	Leo Minor	
NGC 3414	10h 52m 15.2s	+27° 52' 45"	11.0	Galaxy	0.029x0.021	Leo Minor	
NGC 3504	11h 04m 09.6s	+27° 52' 33"	11.1	Galaxy	0.022x0.017	Leo Minor	
NGC 3432	10h 53m 31.5s	+36° 31' 23"	11.3	Galaxy	0.055x0.013	Leo Minor	
NGC 3430	10h 53m 11.4s	+32° 51' 18"	11.6	Galaxy	0.034x0.018	Leo Minor	
NGC 3254	10h 30m 20.5s	+29° 23' 59"	11.7	Galaxy	0.037x0.011	Leo Minor	
NGC 3277	10h 33m 55.6s	+28° 25' 09"	11.7	Galaxy	0.017x0.015	Leo Minor	
NGC 3381	10h 49m 25.1s	+34° 36' 57"	11.8	Galaxy	0.016x0.015	Leo Minor	
NGC 3396	10h 50m 55.6s	+32° 53' 42"	12.0	Galaxy	0.024x0.01	Leo Minor	
NGC 3687	11h 28m 57.7s	+29° 24' 43"	12.0	Galaxy	0.015x0.015	Ursa Major	
NGC 3395	10h 50m 49.9s	+32° 53' 09"	12.1	Galaxy	0.017x0.009	Leo Minor	
NGC 3510	11h 04m 42.2s	+28° 47' 15"	12.1	Galaxy	0.034x0.006	Leo Minor	
NGC 3629	11h 21m 29.1s	+26° 51' 50"	12.1	Galaxy	0.019x0.013	Leo	
NGC 3413	10h 52m 20.6s	+32° 40' 13"	12.2	Galaxy	0.015x0.006	Leo Minor	
NGC 3512	11h 05m 01.1s	+27° 56' 25"	12.3	Galaxy	0.013x0.012	Leo Minor	
NGC 3689	11h 29m 07.7s	+25° 33' 44"	12.3	Galaxy	0.014x0.009	Leo	
NGC 3106	10h 05m 07.6s	+31° 05' 53"	12.4	Galaxy	0.015x0.015	Leo Minor	
NGC 3424	10h 52m 46.1s	+32° 48' 16"	12.4	Galaxy	0.022x0.006	Leo Minor	
NGC 3380	10h 49m 11.5s	+28° 30' 24"	12.5	Galaxy	0.013x0.011	Leo Minor	
NGC 3074	10h 00m 45.1s	+35° 18' 23"	12.7	Galaxy	0.019x0.017	Leo Minor	
NGC 3209	10h 21m 38.6s	+25° 24' 49"	12.7	Galaxy	0.010x0.009	Leo	
NGC 3694	11h 29m 51.6s	+35° 18' 52"	12.7	Galaxy	0.008x0.006	Ursa Major	
NGC 3126	10h 09m 22.9s	+31° 46' 30"	12.8	Galaxy	0.023x0.005	Leo Minor	
NGC 3274	10h 33m 17.1s	+27° 34' 33"	12.8	Galaxy	0.016x0.009	Leo	
NGC 3615	11h 19m 03.7s	+23° 17' 56"	12.8	Galaxy	0.011x0.007	Leo	
NGC 3265	10h 32m 07.1s	+28° 42' 15"	12.9	Galaxy	0.007x0.005	Leo Minor	
NGC 3451	10h 55m 19.9s	+27° 08' 37"	13.0	Galaxy	0.014x0.006	Leo Minor	
NGC 3270	10h 32m 29.5s	+24° 46' 36"	13.1	Galaxy	0.025x0.006	Leo	
NGC 3475	10h 59m 23.4s	+24° 07' 49"	13.1	Galaxy	0.014x0.009	Leo	
NGC 3400	10h 51m 44.7s	+28° 22' 23"	13.2	Galaxy	0.009x0.005	Leo Minor	
NGC 3418	10h 52m 23.0s	+28° 00' 59"	13.2	Galaxy	0.011x0.009	Leo Minor	
NGC 3550	11h 11m 36.4s	+28° 40' 11"	13.2	Galaxy	0.008x0.008	Ursa Major	
NGC 3234	10h 25m 59.8s	+27° 55' 56"	13.3	Galaxy	0.01x0.0075	Leo Minor	
NGC 3540	11h 10m 15.2s	+35° 55' 25"	13.3	Galaxy	0.011x0.01	Ursa Major	
NGC 3569	11h 13m 06.9s	+35° 21' 14"	13.3	Galaxy	0.009x0.008	Ursa Major	
NGC 3609	11h 18m 48.1s	+26° 31' 36"	13.3	Galaxy	0.01x0.008	Leo	
IC 2590	10h 37m 16.2s	+26° 52' 09"	13.3	Galaxy	0.009x0.009	Leo	
NGC 3216	10h 22m 41.0s	+23° 49' 56"	13.4	Galaxy	0.010x0.008	Leo	
NGC 3251	10h 30m 16.4s	+26° 00' 23"	13.4	Galaxy	0.016x0.003	Leo	
NGC 3323	10h 40m 38.3s	+25° 13' 42"	13.4	Galaxy	0.008x0.005	Leo Minor	
NGC 3327	10h 40m 56.8s	+23° 59' 51"	13.4	Galaxy	0.009x0.006	Leo Minor	
NGC 3442	10h 54m 08.0s	+33° 48' 50"	13.4	Galaxy	0.005x0.004	Leo Minor	
NGC 3561B	11h 12m 11.1s	+28° 36' 50"	13.4	Galaxy	0.007x0.007	Ursa Major	3561B
NGC 3099A	10h 03m 39.4s	+32° 37' 11"	13.5	Galaxy	0.005x0.004	Leo Minor	3099A
NGC 3118	10h 08m 14.1s	+32° 56' 20"	13.5	Galaxy	0.020x0.003	Leo Minor	
NGC 3204	10h 21m 11.9s	+27° 43' 35"	13.5	Galaxy	0.010x0.007	Leo	

Table 68: Main objects visible on chart 61 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3570	11h 13m 01.2s	+27° 29' 32"	13.5	Galaxy	0.008x0.008	Leo	
NGC 3670	11h 25m 46.6s	+23° 50' 47"	13.5	Galaxy	0.009x0.005	Leo	
IC 2591	10h 37m 39.9s	+34° 57' 35"	13.5	Galaxy	0.01x0.005	Leo Minor	
NGC 3618	11h 19m 29.6s	+23° 22' 13"	13.6	Galaxy	0.007x0.006	Leo	
NGC 3651-1	11h 23m 23.4s	+24° 11' 60"	13.6	Galaxy	0.009x0.009	Leo	3651-1
NGC 3678	11h 27m 12.9s	+27° 46' 04"	13.6	Galaxy	0.006x0.006	Leo	
IC 2551	10h 11m 40.6s	+24° 19' 32"	13.6	Galaxy	0.008x0.006	Leo	
NGC 3563	11h 12m 23.1s	+26° 51' 58"	13.7	Galaxy	0.009x0.006	Leo	
NGC 3563B	11h 12m 21.6s	+26° 51' 51"	13.7	Galaxy	0.005x0.004	Leo	3563B
NGC 3653	11h 23m 27.1s	+24° 10' 51"	13.7	Galaxy	0.005x0.003	Leo	
IC 2550	10h 11m 29.1s	+27° 52' 00"	13.7	Galaxy	0.008x0.006	Leo Minor	
IC 2928	11h 34m 27.1s	+34° 12' 60"	13.7	Galaxy	0.009x0.007	Ursa Major	
NGC 3536	11h 09m 49.4s	+28° 22' 42"	13.8	Galaxy	0.009x0.006	Ursa Major	
NGC 3558	11h 11m 54.0s	+28° 26' 44"	13.8	Galaxy	0.007x0.006	Ursa Major	
NGC 3561	11h 12m 11.3s	+28° 35' 55"	13.8	Galaxy	0.006x0.006	Ursa Major	NGC 3561B
NGC 3515	11h 05m 35.7s	+28° 07' 51"	13.9	Galaxy	0.007x0.005	Leo Minor	
NGC 3695	11h 30m 14.9s	+35° 28' 34"	13.9	Galaxy	0.007x0.005	Ursa Major	
IC 2542	10h 08m 53.5s	+34° 13' 36"	13.9	Galaxy	0.007x0.006	Leo Minor	
NGC 3527	11h 08m 16.6s	+28° 25' 49"	14.0	Galaxy	0.008x0.007	Ursa Major	
NGC 3700	11h 30m 36.1s	+35° 24' 56"	14.0	Galaxy	0.008x0.005	Ursa Major	
IC 2566	10h 23m 22.1s	+36° 29' 31"	14.0	Galaxy	0.006x0.004	Leo Minor	
NGC 3553	11h 11m 38.4s	+28° 35' 16"	14.1	Galaxy	0.003x0.002	Ursa Major	
NGC 3612	11h 19m 12.2s	+26° 31' 19"	14.1	Galaxy	0.008x0.006	Leo	
IC 2540	10h 07m 49.0s	+31° 23' 16"	14.1	Galaxy	0.008x0.006	Leo Minor	
IC 2561	10h 20m 10.9s	+34° 35' 01"	14.1	Galaxy	0.007x0.004	Leo Minor	
IC 2568	10h 23m 32.7s	+36° 30' 30"	14.1	Galaxy	0.01x0.005	Leo Minor	
IC 2598	10h 40m 41.7s	+26° 37' 60"	14.1	Galaxy	0.003x0.001	Leo Minor	
IC 2604	10h 50m 25.0s	+32° 40' 37"	14.1	Galaxy	0.01x0.0075	Leo Minor	
IC 2759	11h 23m 10.3s	+24° 13' 06"	14.1	Galaxy	0.003x0.003	Leo	
NGC 3554	11h 11m 45.9s	+28° 33' 45"	14.2	Galaxy	0.004x0.004	Ursa Major	
IC 2565	10h 22m 18.5s	+27° 50' 20"	14.2	Galaxy	0.003x0.001	Leo Minor	
NGC 3232	10h 25m 24.9s	+27° 56' 12"	14.3	Galaxy	0.006x0.006	Leo Minor	
NGC 3245A	10h 28m 01.6s	+28° 32' 49"	14.3	Galaxy	0.029x0.002	Leo Minor	3245A
NGC 3350	10h 45m 22.8s	+30° 37' 49"	14.3	Galaxy	0.005x0.005	Leo Minor	
NGC 3493	11h 02m 26.3s	+27° 37' 23"	14.3	Galaxy	0.009x0.002	Leo Minor	
NGC 3534A	11h 09m 53.5s	+26° 30' 45"	14.3	Galaxy	0.010x0.002	Leo	3534A
IC 2567	10h 22m 57.8s	+24° 33' 50"	14.4	Galaxy	0.007x0.005	Leo	
IC 2569	10h 23m 53.4s	+24° 30' 56"	14.4	Galaxy	0.002x0.002	Leo	
IC 2738	11h 22m 21.1s	+34° 15' 30"	14.4	Galaxy	0.005x0.005	Ursa Major	
NGC 3116	10h 07m 47.2s	+31° 00' 36"	14.5	Galaxy	0.003x0.003	Leo Minor	
NGC 3552	11h 11m 40.9s	+28° 35' 42"	14.5	Galaxy	0.005x0.005	Ursa Major	
IC 2544	10h 09m 32.3s	+33° 15' 27"	14.5	Galaxy	0.003x0.003	Leo Minor	
IC 2744	11h 22m 40.6s	+34° 15' 50"	14.5	Galaxy	0.004x0.004	Ursa Major	
NGC 3539	11h 10m 07.0s	+28° 34' 29"	14.6	Galaxy	0.009x0.001	Ursa Major	
IC 2572	10h 26m 07.7s	+28° 00' 08"	14.6	Galaxy	0.007x0.004	Leo Minor	
IC 2735	11h 22m 01.9s	+34° 14' 44"	14.6	Galaxy	0.008x0.001	Ursa Major	

Table 68: Main objects visible on chart 61 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3534B	11h 09m 55.0s	+26° 29' 56"	14.7	Galaxy	0.007x0.003	Leo	3534B
IC 2583	10h 32m 10.3s	+25° 57' 43"	14.7	Galaxy	0.006x0.004	Leo	
NGC 3099B	10h 03m 33.8s	+32° 37' 37"	14.8	Galaxy	0.002x0.002	Leo Minor	3099B
NGC 3651-2	11h 23m 23.3s	+24° 11' 50"	14.8	Galaxy	0.003x0.001	Leo	3651-2
IC 2608	10h 51m 15.4s	+32° 40' 24"	14.8	Galaxy	0.007x0.002	Leo Minor	
NGC 3196	10h 19m 49.7s	+27° 34' 43"	14.9	Galaxy	0.002x0.001	Leo	
IC 2547	10h 11m 08.0s	+36° 24' 51"	14.9	Galaxy	0.003x0.001	Leo Minor	
IC 2626	11h 10m 01.8s	+26° 48' 24"	14.9	Galaxy	0.003x8.333	Leo	
IC 2751	11h 23m 05.4s	+34° 16' 03"	14.9	Galaxy	0.005x0.004	Ursa Major	
IC 2925	11h 34m 10.4s	+34° 09' 58"	14.9	Galaxy	0.004x0.001	Ursa Major	
IC 2577	10h 29m 02.8s	+32° 40' 16"	15.1	Galaxy	0.005x0.003	Leo Minor	
IC 3574	11h 13m 10.0s	+27° 31' 38"	15.2	Galaxy	0.003x0.003	Leo	
IC 2564	10h 22m 30.3s	+36° 21' 41"	15.2	Galaxy	0.003x0.003	Leo Minor	
IC 2549	10h 11m 13.6s	+36° 22' 34"	15.4	Galaxy	0.002x0.001	Leo Minor	
IC 2612	10h 54m 36.8s	+32° 40' 20"	15.6	Galaxy	0.003x0.002	Leo Minor	

7.63 Main objects visible on chart 62

Table 69: Main objects visible on chart 62

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel111	12h 23m 24.2s	+25° 45' 01"	2.7	Open cluster	2.291x2.291	Coma Berenices	Berenice Hair
NGC 4631	12h 43m 00.1s	+32° 26' 35"	9.2	Galaxy	0.126x0.023	Canes Venatici	CALDWELL 32, Whale galaxy
NGC 4565	12h 37m 14.0s	+25° 53' 20"	9.6	Galaxy	0.131x0.017	Coma Berenices	CALDWELL 38, Needle galaxy
NGC 4214	12h 16m 32.9s	+36° 13' 39"	9.8	Galaxy	0.066x0.055	Canes Venatici	
NGC 4494	12h 32m 17.8s	+25° 40' 34"	9.8	Galaxy	0.04x0.029	Coma Berenices	
NGC 4559	12h 36m 51.1s	+27° 51' 39"	10.0	Galaxy	0.089x0.036	Coma Berenices	CALDWELL 36
NGC 4414	12h 27m 20.7s	+31° 07' 27"	10.1	Galaxy	0.036x0.025	Coma Berenices	
NGC 4278	12h 21m 00.8s	+29° 10' 50"	10.2	Galaxy	0.031x0.031	Coma Berenices	
NGC 4395	12h 26m 42.3s	+33° 26' 50"	10.2	Galaxy	0.11x0.091	Canes Venatici	
NGC 4274	12h 20m 44.9s	+29° 30' 50"	10.4	Galaxy	0.056x0.02	Coma Berenices	
NGC 4656	12h 44m 50.5s	+32° 04' 17"	10.5	Galaxy	0.1275x0.02	Canes Venatici	
NGC 4314	12h 23m 25.8s	+29° 47' 46"	10.6	Galaxy	0.035x0.030	Coma Berenices	
NGC 4251	12h 19m 02.7s	+28° 04' 31"	10.7	Galaxy	0.03x0.0125	Coma Berenices	
NGC 4203	12h 15m 59.3s	+33° 05' 51"	10.9	Galaxy	0.029x0.026	Coma Berenices	
NGC 4062	12h 04m 58.9s	+31° 47' 42"	11.1	Galaxy	0.033x0.015	Ursa Major	
NGC 4136	12h 10m 12.6s	+29° 49' 40"	11.1	Galaxy	0.0325x0.03	Coma Berenices	
NGC 4448	12h 29m 09.2s	+28° 31' 19"	11.1	Galaxy	0.032x0.011	Coma Berenices	
NGC 3900	11h 50m 05.2s	+26° 55' 18"	11.4	Galaxy	0.026x0.014	Leo	
NGC 4245	12h 18m 31.2s	+29° 30' 27"	11.4	Galaxy	0.024x0.018	Coma Berenices	
NGC 4150	12h 11m 28.3s	+30° 18' 07"	11.6	Galaxy	0.019x0.013	Coma Berenices	
NGC 3813	11h 42m 15.3s	+36° 26' 48"	11.7	Galaxy	0.016x0.008	Ursa Major	
NGC 3687	11h 28m 57.7s	+29° 24' 43"	12.0	Galaxy	0.015x0.015	Ursa Major	
NGC 4008	11h 59m 12.5s	+28° 05' 33"	12.0	Galaxy	0.02x0.010	Leo	
NGC 3629	11h 21m 29.1s	+26° 51' 50"	12.1	Galaxy	0.019x0.013	Leo	

Table 69: Main objects visible on chart 62 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3798	11h 41m 10.2s	+24° 35' 50"	12.1	Galaxy	0.019x0.01	Leo	
NGC 4104	12h 07m 33.7s	+28° 04' 24"	12.1	Galaxy	0.021x0.013	Coma Berenices	
NGC 4185	12h 14m 16.8s	+28° 24' 37"	12.1	Galaxy	0.021x0.016	Coma Berenices	
NGC 4283	12h 21m 14.7s	+29° 12' 40"	12.1	Galaxy	0.012x0.012	Coma Berenices	
NGC 4162	12h 12m 47.3s	+24° 01' 26"	12.2	Galaxy	0.019x0.011	Coma Berenices	
NGC 4169	12h 13m 13.3s	+29° 04' 46"	12.2	Galaxy	0.015x0.007	Coma Berenices	The Box
NGC 4310	12h 23m 20.4s	+29° 06' 30"	12.2	Galaxy	0.016x0.008	Coma Berenices	
NGC 4525	12h 34m 44.4s	+30° 10' 42"	12.2	Galaxy	0.021x0.010	Coma Berenices	
NGC 3689	11h 29m 07.7s	+25° 33' 44"	12.3	Galaxy	0.014x0.009	Leo	
NGC 3786	11h 40m 39.1s	+31° 48' 32"	12.3	Galaxy	0.017x0.009	Ursa Major	
NGC 4534	12h 34m 58.2s	+35° 25' 09"	12.3	Galaxy	0.021x0.017	Canes Venatici	
NGC 3812	11h 42m 04.0s	+24° 43' 21"	12.4	Galaxy	0.014x0.013	Leo	
NGC 3891	11h 48m 59.3s	+30° 15' 35"	12.4	Galaxy	0.016x0.014	Ursa Major	
NGC 3912	11h 51m 00.3s	+26° 22' 49"	12.4	Galaxy	0.012x0.007	Leo	
NGC 3995	11h 58m 39.5s	+32° 11' 34"	12.4	Galaxy	0.021x0.007	Ursa Major	
NGC 4555	12h 36m 34.5s	+26° 25' 30"	12.4	Galaxy	0.015x0.011	Coma Berenices	
NGC 4627	12h 42m 52.1s	+32° 28' 31"	12.4	Galaxy	0.014x0.008	Canes Venatici	
NGC 4657	12h 44m 59.3s	+32° 06' 39"	12.4	Galaxy	0.010x0.005	Canes Venatici	
NGC 4213	12h 16m 32.1s	+23° 52' 55"	12.5	Galaxy	0.014x0.014	Coma Berenices	
NGC 3788	11h 40m 41.3s	+31° 49' 51"	12.6	Galaxy	0.017x0.005	Ursa Major	
NGC 4017	11h 59m 41.1s	+27° 21' 10"	12.6	Galaxy	0.015x0.011	Coma Berenices	
NGC 3694	11h 29m 51.6s	+35° 18' 52"	12.7	Galaxy	0.008x0.006	Ursa Major	
NGC 3971	11h 56m 31.9s	+29° 53' 44"	12.7	Galaxy	0.011x0.01	Ursa Major	
IC 3986	11h 57m 39.7s	+31° 55' 16"	12.7	Galaxy	0.025x0.005	Ursa Major	
NGC 3994	11h 58m 32.3s	+32° 10' 38"	12.7	Galaxy	0.007x0.004	Ursa Major	
NGC 4020	11h 59m 52.2s	+30° 18' 48"	12.7	Galaxy	0.015x0.008	Ursa Major	
NGC 4146	12h 11m 13.0s	+26° 19' 52"	12.7	Galaxy	0.011x0.01	Coma Berenices	
NGC 4393	12h 26m 45.2s	+27° 27' 45"	12.7	Galaxy	0.026x0.025	Coma Berenices	
NGC 4619	12h 42m 36.7s	+34° 57' 51"	12.7	Galaxy	0.010x0.010	Canes Venatici	
NGC 3615	11h 19m 03.7s	+23° 17' 56"	12.8	Galaxy	0.011x0.007	Leo	
NGC 3755	11h 37m 30.3s	+36° 18' 38"	12.8	Galaxy	0.028x0.011	Ursa Major	
NGC 3878	11h 47m 14.0s	+33° 06' 18"	12.8	Galaxy	0.004x0.004	Ursa Major	
NGC 3902	11h 50m 14.6s	+26° 01' 18"	12.8	Galaxy	0.013x0.010	Leo	
NGC 4015-1	11h 59m 37.9s	+24° 56' 11"	12.8	Galaxy	0.016x0.012	Coma Berenices	4015-1
NGC 4134	12h 10m 04.7s	+29° 04' 37"	12.8	Galaxy	0.018x0.007	Coma Berenices	
NGC 4196	12h 15m 24.1s	+28° 19' 25"	12.8	Galaxy	0.013x0.01	Coma Berenices	
NGC 4227	12h 17m 27.9s	+33° 25' 20"	12.8	Galaxy	0.012x0.007	Canes Venatici	
NGC 4275	12h 20m 46.8s	+27° 31' 17"	12.8	Galaxy	0.009x0.008	Coma Berenices	
NGC 4375	12h 25m 54.3s	+28° 27' 32"	12.8	Galaxy	0.011x0.01	Coma Berenices	
NGC 3897	11h 49m 55.5s	+34° 54' 57"	12.9	Galaxy	0.015x0.015	Ursa Major	
NGC 3944	11h 54m 00.7s	+26° 06' 26"	12.9	Galaxy	0.011x0.009	Leo	
NGC 3987	11h 58m 16.4s	+25° 05' 42"	12.9	Galaxy	0.018x0.003	Leo	
IC 3376	12h 28m 44.0s	+26° 53' 39"	12.9	Galaxy	0.014x0.010	Coma Berenices	
IC 780	12h 20m 52.7s	+25° 40' 20"	12.9	Galaxy	0.009x0.006	Coma Berenices	
NGC 3701	11h 30m 25.6s	+23° 59' 39"	13.0	Galaxy	0.015x0.007	Leo	
NGC 3728	11h 34m 12.3s	+24° 20' 53"	13.0	Galaxy	0.016x0.012	Leo	

Table 69: Main objects visible on chart 62 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3815	11h 42m 35.5s	+24° 42' 01"	13.0	Galaxy	0.014x0.007	Leo	
NGC 4022	11h 59m 56.4s	+25° 07' 20"	13.0	Galaxy	0.01x0.01	Coma Berenices	
NGC 4173	12h 13m 16.1s	+29° 06' 26"	13.0	Galaxy	0.041x0.005	Coma Berenices	
NGC 4359	12h 25m 05.2s	+31° 25' 18"	13.0	Galaxy	0.029x0.006	Coma Berenices	
NGC 3991	11h 58m 26.2s	+32° 14' 07"	13.1	Galaxy	0.010x0.002	Ursa Major	
NGC 4007	11h 59m 05.4s	+25° 01' 19"	13.1	Galaxy	0.01x0.005	Leo	
NGC 4253	12h 19m 20.6s	+29° 42' 47"	13.1	Galaxy	0.007x0.006	Coma Berenices	
NGC 4272	12h 20m 41.7s	+30° 14' 21"	13.1	Galaxy	0.014x0.010	Coma Berenices	
NGC 4286	12h 21m 36.2s	+29° 14' 45"	13.1	Galaxy	0.012x0.006	Coma Berenices	
NGC 4556	12h 36m 39.0s	+26° 48' 37"	13.1	Galaxy	0.01x0.008	Coma Berenices	
NGC 4615	12h 42m 30.7s	+25° 58' 27"	13.1	Galaxy	0.013x0.005	Coma Berenices	
NGC 3713	11h 32m 38.8s	+28° 03' 16"	13.2	Galaxy	0.01x0.006	Leo	
NGC 4514	12h 33m 36.3s	+29° 36' 47"	13.2	Galaxy	0.01x0.009	Coma Berenices	
NGC 3569	11h 13m 06.9s	+35° 21' 14"	13.3	Galaxy	0.009x0.008	Ursa Major	
NGC 3609	11h 18m 48.1s	+26° 31' 36"	13.3	Galaxy	0.01x0.008	Leo	
NGC 3714	11h 32m 50.5s	+28° 15' 33"	13.3	Galaxy	0.010x0.006	Ursa Major	
NGC 3847	11h 45m 10.4s	+33° 24' 52"	13.3	Galaxy	0.009x0.009	Ursa Major	
NGC 3920	11h 50m 17.9s	+24° 50' 19"	13.3	Galaxy	0.008x0.008	Leo	
NGC 3935	11h 53m 19.7s	+32° 18' 15"	13.3	Galaxy	0.009x0.004	Ursa Major	
NGC 3988	11h 58m 19.7s	+27° 46' 40"	13.3	Galaxy	0.007x0.006	Leo	
NGC 4131	12h 09m 41.9s	+29° 12' 17"	13.3	Galaxy	0.011x0.005	Coma Berenices	
NGC 4148	12h 11m 02.4s	+35° 46' 42"	13.3	Galaxy	0.012x0.008	Canes Venatici	
NGC 4175	12h 13m 25.6s	+29° 04' 07"	13.3	Galaxy	0.015x0.003	Coma Berenices	
NGC 4190	12h 14m 38.6s	+36° 32' 01"	13.3	Galaxy	0.014x0.013	Canes Venatici	
NGC 4229	12h 17m 32.9s	+33° 27' 40"	13.3	Galaxy	0.009x0.006	Canes Venatici	
NGC 4495	12h 32m 16.2s	+29° 02' 15"	13.3	Galaxy	0.011x0.006	Coma Berenices	
NGC 4614	12h 42m 24.8s	+25° 56' 40"	13.3	Galaxy	0.007x0.006	Coma Berenices	
IC 3165	12h 20m 58.9s	+27° 52' 31"	13.3	Galaxy	0.015x0.009	Coma Berenices	
IC 3651	12h 41m 46.0s	+26° 37' 48"	13.3	Galaxy	0.008x0.008	Coma Berenices	
IC 3826	11h 43m 29.1s	+26° 23' 21"	13.4	Galaxy	0.007x0.005	Leo	
NGC 4097	12h 06m 57.2s	+36° 45' 49"	13.4	Galaxy	0.01x0.005	Ursa Major	
NGC 4174	12h 13m 21.5s	+29° 02' 57"	13.4	Galaxy	0.006x0.002	Coma Berenices	
NGC 4308	12h 22m 50.8s	+29° 58' 28"	13.4	Galaxy	0.006x0.005	Coma Berenices	
IC 4562	12h 36m 28.0s	+25° 45' 02"	13.4	Galaxy	0.02x0.005	Coma Berenices	
NGC 4583	12h 38m 57.1s	+33° 21' 35"	13.4	Galaxy	0.009x0.007	Canes Venatici	
IC 3585	12h 37m 33.2s	+26° 43' 54"	13.4	Galaxy	0.009x0.007	Coma Berenices	
NGC 3670	11h 25m 46.6s	+23° 50' 47"	13.5	Galaxy	0.009x0.005	Leo	
NGC 3997	11h 58m 43.9s	+25° 10' 14"	13.5	Galaxy	0.013x0.005	Leo	
NGC 4101	12h 07m 05.7s	+25° 27' 24"	13.5	Galaxy	0.008x0.006	Coma Berenices	
NGC 4211	12h 16m 30.3s	+28° 04' 39"	13.5	Galaxy	0.01x0.006	Coma Berenices	
NGC 4509	12h 33m 60.0s	+31° 59' 35"	13.5	Galaxy	0.006x0.004	Canes Venatici	
IC 2979	11h 57m 49.7s	+32° 03' 30"	13.5	Galaxy	0.007x0.006	Ursa Major	
IC 3122	12h 19m 15.8s	+25° 07' 02"	13.5	Galaxy	0.011x0.006	Coma Berenices	
IC 777	12h 20m 17.8s	+28° 12' 35"	13.5	Galaxy	0.01x0.005	Coma Berenices	
NGC 3618	11h 19m 29.6s	+23° 22' 13"	13.6	Galaxy	0.007x0.006	Leo	
NGC 3651-1	11h 23m 23.4s	+24° 11' 60"	13.6	Galaxy	0.009x0.009	Leo	3651-1

Table 69: Main objects visible on chart 62 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3678	11h 27m 12.9s	+27° 46' 04"	13.6	Galaxy	0.006x0.006	Leo	
NGC 3951	11h 54m 36.9s	+23° 16' 55"	13.6	Galaxy	0.009x0.004	Leo	
NGC 4475	12h 30m 41.4s	+27° 08' 38"	13.6	Galaxy	0.014x0.007	Coma Berenices	
NGC 3653	11h 23m 27.1s	+24° 10' 51"	13.7	Galaxy	0.005x0.003	Leo	
NGC 3993	11h 58m 33.0s	+25° 08' 24"	13.7	Galaxy	0.013x0.003	Leo	
NGC 4004	11h 59m 00.5s	+27° 46' 42"	13.7	Galaxy	0.015x0.005	Leo	
NGC 4023	12h 00m 00.7s	+24° 53' 20"	13.7	Galaxy	0.007x0.005	Coma Berenices	
NGC 4080	12h 05m 47.0s	+26° 53' 31"	13.7	Galaxy	0.01x0.004	Coma Berenices	
NGC 4295	12h 22m 03.8s	+28° 03' 57"	13.7	Galaxy	0.007x0.005	Coma Berenices	
IC 2928	11h 34m 27.1s	+34° 12' 60"	13.7	Galaxy	0.009x0.007	Ursa Major	
IC 2967	11h 51m 51.1s	+30° 45' 03"	13.7	Galaxy	0.007x0.005	Ursa Major	
IC 2973	11h 54m 46.4s	+33° 15' 56"	13.7	Galaxy	0.011x0.006	Ursa Major	
IC 3171	12h 21m 18.3s	+25° 27' 41"	13.7	Galaxy	0.006x0.005	Coma Berenices	
NGC 3781	11h 40m 00.3s	+26° 15' 46"	13.8	Galaxy	0.004x0.002	Leo	
NGC 4016	11h 59m 24.4s	+27° 25' 43"	13.8	Galaxy	0.012x0.006	Coma Berenices	
NGC 4018	11h 59m 36.0s	+25° 13' 01"	13.8	Galaxy	0.014x0.002	Coma Berenices	
IC 2956	11h 46m 13.7s	+26° 39' 60"	13.8	Galaxy	0.01x0.006	Leo	
IC 3598	12h 38m 14.2s	+28° 06' 36"	13.8	Galaxy	0.011x0.003	Coma Berenices	
IC 739	11h 52m 27.0s	+23° 45' 45"	13.8	Galaxy	0.009x0.006	Leo	
IC 779	12h 20m 32.8s	+29° 46' 59"	13.8	Galaxy	0.007x0.007	Coma Berenices	
NGC 3695	11h 30m 14.9s	+35° 28' 34"	13.9	Galaxy	0.007x0.005	Ursa Major	
NGC 3880	11h 47m 18.5s	+33° 03' 44"	13.9	Galaxy	0.005x0.005	Ursa Major	
NGC 3881	11h 47m 30.6s	+33° 00' 25"	13.9	Galaxy	0.005x0.005	Ursa Major	
NGC 4408	12h 27m 11.0s	+27° 46' 18"	13.9	Galaxy	0.006x0.005	Coma Berenices	
IC 2986	12h 00m 44.8s	+30° 44' 41"	13.9	Galaxy	0.005x0.005	Ursa Major	
IC 3407	12h 29m 57.6s	+27° 40' 44"	13.9	Galaxy	0.007x0.004	Coma Berenices	
IC 746	11h 56m 30.7s	+25° 47' 19"	13.9	Galaxy	0.009x0.002	Leo	
NGC 3700	11h 30m 36.1s	+35° 24' 56"	14.0	Galaxy	0.008x0.005	Ursa Major	
NGC 3855	11h 45m 22.2s	+33° 15' 21"	14.0	Galaxy	0.01x0.0075	Ursa Major	
NGC 3964	11h 55m 49.0s	+28° 09' 45"	14.0	Galaxy	0.007x0.005	Leo	
NGC 3983	11h 57m 19.1s	+23° 46' 04"	14.0	Galaxy	0.009x0.002	Leo	
NGC 4132	12h 09m 56.3s	+29° 09' 01"	14.0	Galaxy	0.009x0.002	Coma Berenices	
NGC 4163	12h 13m 03.4s	+36° 04' 07"	14.0	Galaxy	0.015x0.013	Canes Venatici	
NGC 4399	12h 26m 36.4s	+33° 25' 02"	14.0	Galpart	0.008x0.008	Canes Venatici	
NGC 4401	12h 26m 51.4s	+33° 25' 40"	14.0	Galpart	0.005x0.005	Canes Venatici	
IC 2947	11h 38m 27.9s	+31° 15' 43"	14.0	Galaxy	0.005x0.005	Ursa Major	
IC 2981	11h 56m 38.1s	+32° 05' 23"	14.0	Galaxy	0.003x0.002	Ursa Major	
IC 3330	12h 26m 50.0s	+30° 44' 37"	14.0	Galaxy	0.009x0.004	Coma Berenices	
IC 3623	12h 40m 20.8s	+27° 00' 15"	14.0	Galaxy	0.009x0.007	Coma Berenices	
NGC 3612	11h 19m 12.2s	+26° 31' 19"	14.1	Galaxy	0.008x0.006	Leo	
NGC 3765	11h 38m 00.7s	+23° 59' 48"	14.1	Galaxy	0.006x0.005	Leo	
IC 4585	12h 39m 06.3s	+28° 50' 18"	14.1	Galaxy	0.005x0.003	Coma Berenices	
IC 2759	11h 23m 10.3s	+24° 13' 06"	14.1	Galaxy	0.003x0.003	Leo	
IC 2957	11h 46m 33.2s	+31° 11' 58"	14.1	Galaxy	0.006x0.003	Ursa Major	
IC 2992	12h 06m 10.8s	+30° 45' 18"	14.1	Galaxy	0.005x0.004	Ursa Major	
IC 3263	12h 24m 44.5s	+28° 05' 56"	14.1	Galaxy	0.005x0.005	Coma Berenices	

Table 69: Main objects visible on chart 62 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3785	11h 40m 29.3s	+26° 12' 11"	14.2	Galaxy	0.008x0.003	Leo	
IC 2946	11h 38m 26.4s	+32° 09' 12"	14.2	Galaxy	0.004x0.002	Ursa Major	
IC 2985	12h 00m 07.9s	+30° 37' 51"	14.2	Galaxy	0.008x0.004	Ursa Major	
IC 3508	12h 35m 00.4s	+26° 34' 20"	14.2	Galaxy	0.007x0.007	Coma Berenices	
NGC 4211B	12h 16m 31.8s	+28° 04' 10"	14.3	Galaxy	0.003x0.003	Coma Berenices	4211B
IC 2933	11h 35m 09.9s	+34° 12' 47"	14.3	Galaxy	0.010x0.003	Ursa Major	
IC 2982	11h 58m 46.7s	+27° 46' 05"	14.3	Galaxy	0.004x0.002	Leo	
IC 3003	12h 08m 27.3s	+32° 42' 47"	14.3	Galaxy	0.006x0.005	Coma Berenices	
IC 3592	12h 37m 46.5s	+27° 45' 49"	14.3	Galaxy	0.008x0.004	Coma Berenices	
IC 762	12h 09m 06.8s	+25° 39' 22"	14.3	Galaxy	0.005x0.003	Coma Berenices	
NGC 3739	11h 36m 34.0s	+24° 59' 20"	14.4	Galaxy	0.009x0.002	Leo	
NGC 3784	11h 40m 26.1s	+26° 12' 36"	14.4	Galaxy	0.007x0.002	Leo	
NGC 4031	12h 01m 26.6s	+31° 50' 47"	14.4	Galaxy	0.005x0.003	Ursa Major	
IC 2738	11h 22m 21.1s	+34° 15' 30"	14.4	Galaxy	0.005x0.005	Ursa Major	
IC 3112	12h 18m 42.7s	+25° 55' 51"	14.4	Galaxy	0.007x0.003	Coma Berenices	
IC 3215	12h 23m 04.4s	+25° 57' 07"	14.4	Galaxy	0.015x0.004	Coma Berenices	
NGC 3911	11h 51m 01.7s	+24° 49' 13"	14.5	Galaxy	0.008x0.006	Leo	
NGC 4400	12h 26m 49.4s	+33° 24' 59"	14.5	Galpart	0.002x0.002	Canes Venatici	
IC 2744	11h 22m 40.6s	+34° 15' 50"	14.5	Galaxy	0.004x0.004	Ursa Major	
IC 2993	12h 06m 33.2s	+32° 43' 19"	14.5	Galaxy	0.003x0.003	Ursa Major	
IC 3075	12h 16m 49.6s	+23° 29' 46"	14.5	Galaxy	0.006x0.003	Coma Berenices	
IC 3141	12h 19m 52.9s	+24° 05' 12"	14.5	Galaxy	0.007x0.002	Coma Berenices	
IC 3205	12h 22m 45.1s	+26° 14' 30"	14.5	Galaxy	0.004x0.004	Coma Berenices	
IC 3262	12h 24m 42.1s	+27° 17' 41"	14.5	Galaxy	0.006x0.003	Coma Berenices	
IC 3550	12h 36m 45.1s	+27° 50' 01"	14.5	Galpart	0.002x0.002	Coma Berenices	
IC 3551	12h 36m 47.1s	+27° 51' 54"	14.5	Galpart	0.001x0.001	Coma Berenices	
IC 3559	12h 36m 56.8s	+26° 53' 20"	14.5	Galaxy	0.005x0.001	Coma Berenices	
IC 3590	12h 37m 44.0s	+27° 10' 45"	14.5	Galaxy	0.008x0.001	Coma Berenices	
IC 729	11h 46m 14.6s	+33° 14' 09"	14.5	Galaxy	0.006x0.002	Ursa Major	
IC 763	12h 09m 10.1s	+25° 42' 42"	14.5	Galaxy	0.007x0.002	Coma Berenices	
IC 795	12h 29m 25.4s	+23° 12' 21"	14.5	Galaxy	0.004x0.001	Coma Berenices	
NGC 4000	11h 58m 52.4s	+25° 02' 37"	14.6	Galaxy	0.008x0.001	Leo	
IC 2735	11h 22m 01.9s	+34° 14' 44"	14.6	Galaxy	0.008x0.001	Ursa Major	
IC 2978	11h 57m 18.7s	+31° 56' 18"	14.6	Galaxy	0.009x0.003	Ursa Major	
IC 3210	12h 22m 54.9s	+28° 19' 53"	14.6	Galaxy	0.003x0.002	Coma Berenices	
IC 3296	12h 25m 51.9s	+24° 17' 01"	14.6	Galaxy	0.002x0.001	Coma Berenices	
IC 3300	12h 25m 58.9s	+25° 51' 25"	14.6	Galaxy	0.008x0.002	Coma Berenices	
IC 3309	12h 26m 14.1s	+28° 16' 55"	14.6	Galaxy	0.011x0.01	Coma Berenices	
IC 3336	12h 27m 13.6s	+26° 44' 20"	14.6	Galaxy	0.004x0.001	Coma Berenices	
IC 3367	12h 28m 03.9s	+26° 51' 30"	14.6	Galaxy	0.007x0.004	Coma Berenices	
IC 3451	12h 32m 17.5s	+28° 45' 23"	14.6	Galaxy	0.004x0.003	Coma Berenices	
IC 3546	12h 36m 35.1s	+26° 07' 25"	14.6	Galaxy	0.006x0.003	Coma Berenices	
IC 3556	12h 36m 51.9s	+26° 51' 60"	14.6	Galaxy	0.005x0.002	Coma Berenices	
IC 3581	12h 37m 31.7s	+24° 19' 48"	14.6	Galaxy	0.007x0.003	Coma Berenices	
IC 3593	12h 37m 47.1s	+27° 38' 59"	14.6	Galaxy	0.004x0.002	Coma Berenices	
IC 3644	12h 41m 29.3s	+26° 24' 22"	14.6	Galaxy	0.007x0.001	Coma Berenices	

Table 69: Main objects visible on chart 62 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3646	12h 41m 31.8s	+26° 25' 37"	14.6	Galaxy	0.005x0.002	Coma Berenices	
NGC 3814	11h 42m 23.9s	+24° 42' 20"	14.7	Galaxy	0.007x0.002	Leo	
NGC 3999	11h 58m 51.8s	+24° 58' 05"	14.7	Galaxy	0.003x0.001	Leo	
NGC 4011	11h 59m 20.8s	+24° 59' 51"	14.7	Galaxy	0.003x0.001	Leo	
IC 4122	12h 08m 03.3s	+32° 53' 45"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 4558	12h 36m 46.0s	+26° 53' 34"	14.7	Galaxy	0.006x0.005	Coma Berenices	
IC 4563	12h 37m 06.0s	+26° 50' 34"	14.7	Galaxy	0.004x0.003	Coma Berenices	
IC 2961	11h 48m 45.6s	+31° 14' 43"	14.7	Galaxy	0.001x8.333	Ursa Major	
IC 3007	12h 08m 25.5s	+31° 14' 54"	14.7	Galaxy	0.002x0.001	Coma Berenices	
IC 3089	12h 17m 24.2s	+23° 43' 42"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 3143	12h 19m 59.7s	+27° 11' 54"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 3203	12h 22m 39.8s	+25° 47' 04"	14.7	Galaxy	0.012x0.001	Coma Berenices	
IC 3213	12h 23m 02.0s	+23° 46' 09"	14.7	Galaxy	0.01x0.005	Coma Berenices	
IC 3228	12h 23m 33.7s	+24° 13' 49"	14.7	Galaxy	0.005x0.001	Coma Berenices	
IC 3243	12h 24m 05.4s	+27° 39' 57"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 3247	12h 24m 08.0s	+28° 47' 36"	14.7	Galaxy	0.018x0.001	Coma Berenices	
IC 3441	12h 31m 58.0s	+28° 45' 16"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 3640	12h 41m 18.3s	+26° 25' 33"	14.7	Galaxy	0.003x0.001	Coma Berenices	
IC 772	12h 16m 10.4s	+23° 51' 32"	14.7	Galaxy	0.007x0.004	Coma Berenices	
NGC 3651-2	11h 23m 23.3s	+24° 11' 50"	14.8	Galaxy	0.003x0.001	Leo	3651-2
NGC 3871	11h 47m 06.4s	+33° 00' 34"	14.8	Galaxy	0.011x0.004	Ursa Major	
NGC 4015-2	11h 59m 38.4s	+24° 56' 32"	14.8	Galaxy	0.006x0.002	Coma Berenices	4015-2
NGC 4021	11h 59m 57.9s	+24° 59' 00"	14.8	Galaxy	0.003x0.002	Coma Berenices	
IC 2960	11h 47m 16.0s	+34° 54' 15"	14.8	Galaxy	0.004x0.002	Ursa Major	
IC 2984	12h 00m 02.6s	+30° 35' 50"	14.8	Galaxy	0.005x0.003	Ursa Major	
IC 2999	12h 06m 52.4s	+31° 14' 53"	14.8	Galaxy	0.005x0.001	Ursa Major	
IC 3084	12h 17m 18.0s	+23° 49' 06"	14.8	Galaxy	0.003x0.002	Coma Berenices	
IC 3119	12h 19m 02.9s	+24° 35' 20"	14.8	Galaxy	0.002x0.002	Coma Berenices	
IC 3168	12h 21m 12.7s	+27° 49' 12"	14.8	Galaxy	0.006x0.004	Coma Berenices	
IC 3189	12h 21m 50.5s	+25° 19' 36"	14.8	Galaxy	0.002x0.001	Coma Berenices	
IC 3193	12h 21m 55.4s	+27° 47' 56"	14.8	Galaxy	0.007x0.002	Coma Berenices	
IC 3222	12h 23m 13.5s	+28° 43' 54"	14.8	Galaxy	0.007x0.005	Coma Berenices	
IC 3308	12h 26m 12.1s	+26° 36' 59"	14.8	Galaxy	0.011x0.001	Coma Berenices	
IC 3620	12h 40m 11.1s	+27° 48' 35"	14.8	Galaxy	0.005x8.333	Coma Berenices	
IC 3642	12h 41m 19.1s	+26° 37' 59"	14.8	Galaxy	0.002x0.002	Coma Berenices	
NGC 3989	11h 58m 22.1s	+25° 07' 57"	14.9	Galaxy	0.005x0.002	Leo	
IC 2751	11h 23m 05.4s	+34° 16' 03"	14.9	Galaxy	0.005x0.004	Ursa Major	
IC 2925	11h 34m 10.4s	+34° 09' 58"	14.9	Galaxy	0.004x0.001	Ursa Major	
IC 2952	11h 45m 13.5s	+33° 15' 04"	14.9	Galaxy	0.003x0.002	Ursa Major	
IC 2971	11h 54m 23.2s	+30° 35' 50"	14.9	Galaxy	0.002x0.001	Ursa Major	
IC 3001	12h 07m 11.6s	+33° 25' 33"	14.9	Galaxy	0.006x0.002	Ursa Major	
IC 3095	12h 17m 49.8s	+23° 51' 29"	14.9	Galaxy	0.005x0.001	Coma Berenices	
IC 3185	12h 21m 46.9s	+25° 19' 47"	14.9	Galaxy	0.002x8.333	Coma Berenices	
IC 3206	12h 22m 45.5s	+26° 15' 52"	14.9	Galaxy	0.003x0.001	Coma Berenices	
IC 3403	12h 29m 55.5s	+24° 32' 00"	14.9	Galaxy	0.002x0.001	Coma Berenices	
IC 3406	12h 29m 56.5s	+27° 32' 28"	14.9	Galaxy	0.004x0.002	Coma Berenices	

Table 69: Main objects visible on chart 62 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3421	12h 30m 32.6s	+26° 07' 54"	14.9	Galaxy	0.005x0.004	Coma Berenices	
IC 3454	12h 32m 32.3s	+27° 23' 50"	14.9	Galaxy	0.01x0.001	Coma Berenices	
IC 3498	12h 34m 22.7s	+26° 38' 22"	14.9	Galaxy	0.005x0.001	Coma Berenices	
IC 3599	12h 38m 34.5s	+26° 36' 33"	14.9	Galaxy	0.002x0.001	Coma Berenices	
IC 3600	12h 38m 34.3s	+27° 01' 50"	14.9	Galaxy	0.004x0.003	Coma Berenices	
IC 3618	12h 40m 10.4s	+26° 34' 47"	14.9	Galaxy	0.002x0.002	Coma Berenices	
IC 3626	12h 40m 25.0s	+25° 34' 41"	14.9	Galaxy	0.002x0.001	Coma Berenices	
IC 710	11h 35m 23.9s	+25° 46' 35"	14.9	Galaxy	0.003x0.001	Leo	
IC 3169	12h 21m 15.6s	+25° 29' 59"	15.0	Galaxy	0.002x0.001	Coma Berenices	
IC 3179	12h 21m 32.0s	+26° 03' 56"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 3184-1	12h 21m 41.0s	+24° 48' 57"	15.0	Galaxy	0.005x0.002	Coma Berenices	IC 3184-1
IC 3186	12h 21m 50.2s	+24° 34' 10"	15.0	Galaxy	0.005x0.003	Coma Berenices	
IC 3194	12h 22m 03.4s	+25° 02' 02"	15.0	Galaxy	0.003x0.002	Coma Berenices	
IC 3195	12h 22m 11.8s	+25° 42' 30"	15.0	Galaxy	0.003x0.003	Coma Berenices	
IC 3212	12h 22m 57.5s	+28° 05' 10"	15.0	Galaxy	0.004x0.004	Coma Berenices	
IC 3217-1	12h 23m 07.7s	+26° 17' 10"	15.0	Galaxy	0.002x0.001	Coma Berenices	IC 3217-1
IC 3264	12h 24m 46.0s	+25° 27' 26"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 3286	12h 25m 28.7s	+23° 38' 53"	15.0	Galaxy	0.003x0.002	Coma Berenices	
IC 3306	12h 26m 06.4s	+27° 18' 11"	15.0	Galaxy	0.005x0.002	Coma Berenices	
IC 3353	12h 27m 38.8s	+27° 48' 45"	15.0	Galaxy	0.006x0.001	Coma Berenices	
IC 3402	12h 29m 53.0s	+28° 45' 47"	15.0	Galaxy	0.007x8.333	Coma Berenices	
IC 3458	12h 32m 37.6s	+28° 02' 53"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 3515	12h 35m 09.4s	+27° 45' 46"	15.0	Galaxy	0.005x0.001	Coma Berenices	
IC 3533	12h 35m 54.8s	+25° 40' 53"	15.0	Galaxy	0.002x0.001	Coma Berenices	
IC 3555	12h 36m 49.3s	+27° 53' 28"	15.0	Galpart	0.004x0.004	Coma Berenices	
IC 3154	12h 20m 28.3s	+25° 29' 12"	15.1	Galaxy	0.003x0.001	Coma Berenices	
IC 3587	12h 37m 41.6s	+27° 27' 03"	15.1	Galaxy	0.011x0.001	Coma Berenices	
IC 3597	12h 38m 18.2s	+23° 45' 53"	15.1	Galaxy	0.003x0.003	Coma Berenices	
NGC 4613	12h 42m 22.2s	+25° 59' 23"	15.2	Galaxy	0.004x0.004	Coma Berenices	
IC 3082	12h 17m 06.7s	+23° 44' 31"	15.2	Galaxy	0.006x0.001	Coma Berenices	
IC 3176	12h 21m 24.3s	+25° 24' 56"	15.2	Galaxy	0.004x0.001	Coma Berenices	
IC 3207	12h 22m 46.8s	+24° 15' 17"	15.2	Galaxy	0.005x0.001	Coma Berenices	
IC 3216	12h 23m 06.0s	+25° 11' 13"	15.2	Galaxy	0.002x0.002	Coma Berenices	
IC 3219	12h 23m 09.2s	+25° 51' 05"	15.2	Galaxy	0.005x8.333	Coma Berenices	
IC 3231	12h 23m 37.9s	+24° 43' 15"	15.2	Galaxy	0.004x0.003	Coma Berenices	
IC 3234	12h 23m 46.1s	+28° 00' 47"	15.2	Galaxy	0.002x0.002	Coma Berenices	
IC 3237	12h 23m 52.0s	+28° 23' 39"	15.2	Galaxy	0.005x0.003	Coma Berenices	
IC 3242	12h 24m 04.5s	+26° 08' 59"	15.2	Galaxy	0.003x0.001	Coma Berenices	
IC 3270	12h 24m 59.8s	+27° 28' 40"	15.2	Galaxy	0.004x0.003	Coma Berenices	
IC 3278	12h 25m 09.0s	+27° 19' 21"	15.2	Galaxy	0.006x0.005	Coma Berenices	
IC 3283	12h 25m 22.1s	+27° 06' 43"	15.2	Galaxy	0.004x0.002	Coma Berenices	
IC 3321	12h 26m 40.0s	+25° 58' 57"	15.2	Galaxy	0.003x0.001	Coma Berenices	
IC 3338	12h 27m 16.1s	+25° 47' 11"	15.2	Galaxy	0.005x0.002	Coma Berenices	
IC 3377	12h 28m 45.9s	+24° 50' 36"	15.2	Galaxy	0.002x0.001	Coma Berenices	
IC 3397	12h 29m 40.6s	+25° 37' 56"	15.2	Galaxy	0.004x0.002	Coma Berenices	
IC 3482	12h 33m 54.5s	+27° 43' 53"	15.2	Galaxy	0.002x8.333	Coma Berenices	

Table 69: Main objects visible on chart 62 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3488	12h 34m 02.0s	+26° 15' 02"	15.2	Galaxy	0.006x0.005	Coma Berenices	
IC 3491	12h 34m 02.6s	+26° 59' 44"	15.2	Galaxy	0.007x0.002	Coma Berenices	
IC 3516	12h 35m 10.8s	+27° 21' 13"	15.2	Galaxy	0.011x0.001	Coma Berenices	
IC 3531	12h 35m 50.1s	+26° 31' 40"	15.2	Galaxy	0.002x0.002	Coma Berenices	
IC 3561	12h 36m 58.1s	+26° 48' 04"	15.2	Galaxy	0.005x0.001	Coma Berenices	
IC 3563	12h 37m 00.4s	+27° 49' 40"	15.2	Galpart	0.004x0.004	Coma Berenices	
IC 3146	12h 20m 06.8s	+25° 36' 54"	15.3	Galaxy	0.003x0.003	Coma Berenices	
IC 3200	12h 22m 31.4s	+26° 39' 40"	15.3	Galaxy	0.002x0.001	Coma Berenices	
IC 3116	12h 18m 51.7s	+24° 58' 34"	15.4	Galaxy	0.004x0.003	Coma Berenices	
IC 3272	12h 25m 03.5s	+23° 11' 07"	15.4	Galaxy	0.004x0.002	Coma Berenices	
IC 3359	12h 27m 45.4s	+23° 23' 57"	15.4	Galaxy	0.004x0.002	Coma Berenices	
IC 3395	12h 29m 38.5s	+24° 56' 08"	15.4	Galaxy	0.003x0.001	Coma Berenices	
IC 3429	12h 31m 01.9s	+23° 26' 46"	15.4	Galaxy	0.003x0.003	Coma Berenices	
IC 3460	12h 32m 44.0s	+27° 17' 17"	15.4	Galaxy	0.007x0.002	Coma Berenices	
IC 3144	12h 20m 04.1s	+25° 11' 52"	15.5	Galaxy	0.003x0.003	Coma Berenices	
IC 3172	12h 21m 18.7s	+27° 43' 10"	15.5	Galaxy	0.004x0.002	Coma Berenices	
IC 3204	12h 22m 44.8s	+24° 08' 57"	15.5	Galaxy	0.002x0.001	Coma Berenices	
IC 3249	12h 24m 12.1s	+25° 20' 41"	15.5	Galaxy	0.002x0.001	Coma Berenices	
IC 3276	12h 25m 08.1s	+25° 43' 07"	15.5	Galaxy	0.002x0.001	Coma Berenices	
IC 3277	12h 25m 09.7s	+25° 27' 50"	15.5	Galaxy	0.002x0.001	Coma Berenices	
IC 3288	12h 25m 33.4s	+24° 50' 58"	15.5	Galaxy	0.002x0.001	Coma Berenices	
IC 3302	12h 26m 04.4s	+25° 46' 44"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 3387	12h 29m 12.6s	+27° 53' 47"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 3450	12h 32m 18.6s	+26° 41' 50"	15.5	Galaxy	0.003x0.001	Coma Berenices	
IC 3552	12h 36m 47.3s	+27° 53' 40"	15.5	Galpart	8.333x8.333	Coma Berenices	
IC 3565	12h 37m 05.7s	+26° 39' 26"	15.5	Galaxy	0.002x0.002	Coma Berenices	
IC 3002	12h 07m 59.0s	+33° 16' 56"	15.6	Galaxy	0.004x0.004	Canes Venatici	
IC 2958	11h 46m 38.6s	+33° 03' 15"	15.7	Galaxy	0.004x0.003	Ursa Major	
IC 3135	12h 19m 47.3s	+27° 23' 32"	15.7	Galaxy	0.003x0.002	Coma Berenices	
IC 3217-2	12h 23m 07.3s	+26° 17' 18"	15.7	Galaxy	0.002x8.333	Coma Berenices	IC 3217-2
IC 3312	12h 26m 24.0s	+23° 28' 55"	15.7	Galaxy	0.002x0.001	Coma Berenices	
IC 3325	12h 26m 45.5s	+23° 47' 47"	15.7	Galaxy	0.005x0.004	Coma Berenices	
IC 3326	12h 26m 46.8s	+23° 40' 08"	15.7	Galaxy	0.002x0.001	Coma Berenices	
IC 3364	12h 27m 58.7s	+25° 27' 50"	15.7	Galaxy	0.003x0.001	Coma Berenices	
IC 3373	12h 28m 21.7s	+25° 21' 13"	15.7	Galaxy	0.004x0.002	Coma Berenices	
IC 3396	12h 29m 39.0s	+24° 57' 01"	15.7	Galaxy	0.001x0.001	Coma Berenices	
IC 3411	12h 30m 06.3s	+24° 29' 04"	15.7	Galaxy	0.004x0.001	Coma Berenices	
IC 3595-1	12h 37m 59.9s	+23° 41' 17"	15.7	Galaxy	0.003x0.001	Coma Berenices	IC 3595-1
IC 3595-2	12h 37m 59.7s	+23° 40' 53"	15.7	Galaxy	0.004x8.333	Coma Berenices	IC 3595-2
IC 3774	12h 47m 52.7s	+36° 11' 24"	15.7	Galaxy	0.007x0.003	Canes Venatici	
IC 3230	12h 23m 33.7s	+27° 38' 49"	15.8	Galaxy	0.002x0.001	Coma Berenices	
IC 3362	12h 27m 48.2s	+26° 35' 28"	15.8	Galaxy	0.004x0.004	Coma Berenices	
IC 3384	12h 29m 06.4s	+24° 59' 31"	15.8	Galaxy	0.004x0.001	Coma Berenices	
IC 3394	12h 29m 34.9s	+26° 41' 58"	15.8	Galaxy	0.004x0.004	Coma Berenices	
IC 3424	12h 30m 38.9s	+24° 18' 32"	15.8	Galaxy	0.001x8.333	Coma Berenices	
IC 3536	12h 36m 05.9s	+26° 26' 04"	15.8	Galaxy	0.007x0.002	Coma Berenices	

Table 69: Main objects visible on chart 62 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3543	12h 36m 34.8s	+26° 11' 16"	15.8	Galaxy	0.007x8.333	Coma Berenices	
IC 3201	12h 22m 34.5s	+25° 37' 35"	15.9	Galaxy	0.002x0.002	Coma Berenices	
IC 3221	12h 23m 14.3s	+25° 11' 01"	15.9	Galaxy	0.002x8.333	Coma Berenices	
IC 3334	12h 27m 03.3s	+28° 21' 59"	15.9	Galaxy	0.004x0.004	Coma Berenices	
IC 3341	12h 27m 17.1s	+27° 38' 48"	15.9	Galaxy	0.003x0.002	Coma Berenices	
IC 3184-2	12h 21m 41.8s	+24° 49' 04"	16.0	Galaxy	0.002x0.001	Coma Berenices	IC 3184-2
IC 3345	12h 27m 27.4s	+24° 16' 10"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3348	12h 27m 32.0s	+25° 31' 29"	16.0	Galaxy	0.003x0.003	Coma Berenices	
IC 3389	12h 29m 17.4s	+27° 44' 44"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3439	12h 31m 53.4s	+25° 27' 44"	16.0	Galaxy	0.004x0.003	Coma Berenices	
IC 3479	12h 33m 34.7s	+25° 18' 25"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3610	12h 39m 40.4s	+26° 46' 27"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3627	12h 40m 25.1s	+27° 23' 57"	16.0	Galaxy	0.003x0.001	Coma Berenices	
IC 726	11h 44m 41.9s	+33° 17' 34"	16.0	Galaxy	0.002x0.001	Ursa Major	

7.64 Main objects visible on chart 63

Table 70: Main objects visible on chart 63

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel111	12h 23m 24.2s	+25° 45' 01"	2.7	Open cluster	2.291x2.291	Coma Berenices	Berenice Hair
NGC 5272	13h 43m 00.9s	+28° 17' 09"	6.3	Globular cluster	0.15x0.15	Canes Venatici	M3
NGC 4631	12h 43m 00.1s	+32° 26' 35"	9.2	Galaxy	0.126x0.023	Canes Venatici	CALDWELL 32, Whale galaxy
IC 4725	12h 51m 19.3s	+25° 24' 08"	9.4	Galaxy	0.089x0.063	Coma Berenices	M25
NGC 4565	12h 37m 14.0s	+25° 53' 20"	9.6	Galaxy	0.131x0.017	Coma Berenices	CALDWELL 38, Needle galaxy
NGC 4494	12h 32m 17.8s	+25° 40' 34"	9.8	Galaxy	0.04x0.029	Coma Berenices	
NGC 4559	12h 36m 51.1s	+27° 51' 39"	10.0	Galaxy	0.089x0.036	Coma Berenices	CALDWELL 36
NGC 4414	12h 27m 20.7s	+31° 07' 27"	10.1	Galaxy	0.036x0.025	Coma Berenices	
NGC 4395	12h 26m 42.3s	+33° 26' 50"	10.2	Galaxy	0.11x0.091	Canes Venatici	
NGC 5033	13h 14m 17.7s	+36° 29' 54"	10.2	Galaxy	0.089x0.041	Canes Venatici	
NGC 4656	12h 44m 50.5s	+32° 04' 17"	10.5	Galaxy	0.1275x0.02	Canes Venatici	
NGC 4448	12h 29m 09.2s	+28° 31' 19"	11.1	Galaxy	0.032x0.011	Coma Berenices	
NGC 4889	13h 01m 00.3s	+27° 52' 47"	11.5	Galaxy	0.023x0.016	Coma Berenices	CALDWELL 35
NGC 4793	12h 55m 32.9s	+28° 50' 27"	11.6	Galaxy	0.024x0.012	Coma Berenices	
IC 5273	13h 42m 56.2s	+35° 33' 49"	11.6	Galaxy	0.023x0.020	Canes Venatici	
NGC 4872	13h 00m 27.9s	+27° 51' 46"	11.7	Galaxy	0.015x0.015	Coma Berenices	
NGC 5127	13h 24m 35.3s	+31° 28' 18"	11.9	Galaxy	0.023x0.018	Canes Venatici	
NGC 4789	12h 55m 11.7s	+26° 58' 13"	12.1	Galaxy	0.015x0.012	Coma Berenices	
NGC 4839	12h 58m 16.6s	+27° 24' 02"	12.1	Galaxy	0.033x0.015	Coma Berenices	
NGC 4525	12h 34m 44.4s	+30° 10' 42"	12.2	Galaxy	0.021x0.010	Coma Berenices	
NGC 4921	13h 02m 18.3s	+27° 47' 20"	12.2	Galaxy	0.02x0.0175	Coma Berenices	
NGC 4534	12h 34m 58.2s	+35° 25' 09"	12.3	Galaxy	0.021x0.017	Canes Venatici	
NGC 4555	12h 36m 34.5s	+26° 25' 30"	12.4	Galaxy	0.015x0.011	Coma Berenices	
NGC 4627	12h 42m 52.1s	+32° 28' 31"	12.4	Galaxy	0.014x0.008	Canes Venatici	
NGC 4657	12h 44m 59.3s	+32° 06' 39"	12.4	Galaxy	0.010x0.005	Canes Venatici	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4747	12h 52m 38.1s	+25° 40' 35"	12.4	Galaxy	0.027x0.010	Coma Berenices	
NGC 4956	13h 05m 51.6s	+35° 04' 54"	12.4	Galaxy	0.012x0.012	Canes Venatici	
NGC 4962	13h 05m 50.1s	+29° 01' 35"	12.4	Galaxy	0.015x0.009	Coma Berenices	
NGC 4692	12h 48m 48.0s	+27° 07' 27"	12.5	Galaxy	0.010x0.010	Coma Berenices	
NGC 5347	13h 54m 05.8s	+33° 24' 10"	12.6	Galaxy	0.013x0.010	Canes Venatici	
NGC 4619	12h 42m 36.7s	+34° 57' 51"	12.7	Galaxy	0.010x0.010	Canes Venatici	
IC 4670	12h 46m 09.8s	+27° 01' 39"	12.7	Galaxy	0.011x0.01	Coma Berenices	
NGC 5116	13h 23m 46.7s	+26° 53' 16"	12.7	Galaxy	0.016x0.005	Coma Berenices	
IC 4712	12h 50m 27.0s	+25° 22' 19"	12.8	Galaxy	0.019x0.007	Coma Berenices	
NGC 4816	12h 57m 04.6s	+27° 38' 53"	12.8	Galaxy	0.010x0.009	Coma Berenices	
NGC 4911	13h 01m 48.3s	+27° 41' 37"	12.8	Galaxy	0.01x0.009	Coma Berenices	
NGC 5016	13h 12m 58.5s	+23° 59' 59"	12.8	Galaxy	0.014x0.010	Coma Berenices	
NGC 5032	13h 14m 18.3s	+27° 42' 22"	12.8	Galaxy	0.017x0.009	Coma Berenices	
IC 5141	13h 25m 40.3s	+36° 17' 08"	12.8	Galaxy	0.010x0.008	Canes Venatici	
NGC 4673	12h 46m 27.6s	+26° 57' 46"	12.9	Galaxy	0.008x0.006	Coma Berenices	
IC 4827	12h 57m 36.0s	+27° 04' 53"	12.9	Galaxy	0.011x0.01	Coma Berenices	
NGC 4849	12h 59m 05.0s	+26° 17' 58"	12.9	Galaxy	0.015x0.011	Coma Berenices	
NGC 4944	13h 04m 41.8s	+28° 05' 20"	12.9	Galaxy	0.012x0.004	Coma Berenices	
NGC 5004A	13h 11m 52.7s	+29° 32' 29"	12.9	Galaxy	0.011x0.009	Coma Berenices	5004A
NGC 5014	13h 12m 21.3s	+36° 11' 11"	12.9	Galaxy	0.013x0.004	Canes Venatici	
NGC 5149	13h 26m 58.0s	+35° 50' 29"	12.9	Galaxy	0.013x0.007	Canes Venatici	
NGC 5318	13h 51m 23.8s	+33° 36' 60"	12.9	Galaxy	0.012x0.007	Canes Venatici	
IC 3376	12h 28m 44.0s	+26° 53' 39"	12.9	Galaxy	0.014x0.010	Coma Berenices	
NGC 4841B	12h 58m 26.1s	+28° 23' 07"	13.0	Galaxy	0.008x0.005	Coma Berenices	4841B
NGC 4922-1	13h 02m 16.5s	+29° 12' 40"	13.0	Galaxy	0.010x0.008	Coma Berenices	4922-1
IC 4926	13h 02m 45.9s	+27° 31' 40"	13.0	Galaxy	0.009x0.008	Coma Berenices	
NGC 4957	13h 06m 04.3s	+27° 28' 24"	13.0	Galaxy	0.01x0.008	Coma Berenices	
NGC 5057	13h 17m 18.3s	+30° 56' 14"	13.0	Galaxy	0.010x0.01	Coma Berenices	
NGC 5223	13h 35m 13.8s	+34° 35' 56"	13.0	Galaxy	0.012x0.010	Canes Venatici	
NGC 5352	13h 54m 25.3s	+36° 02' 46"	13.0	Galaxy	0.01x0.008	Canes Venatici	
NGC 4556	12h 36m 39.0s	+26° 48' 37"	13.1	Galaxy	0.01x0.008	Coma Berenices	
NGC 4615	12h 42m 30.7s	+25° 58' 27"	13.1	Galaxy	0.013x0.005	Coma Berenices	
IC 4715	12h 50m 50.4s	+27° 43' 30"	13.1	Galaxy	0.013x0.009	Coma Berenices	M24, Sagittarius Star Cloud
NGC 4841A	12h 58m 24.1s	+28° 22' 46"	13.1	Galaxy	0.013x0.008	Coma Berenices	4841A
NGC 5056	13h 17m 03.0s	+30° 51' 17"	13.1	Galaxy	0.015x0.008	Coma Berenices	
NGC 5081	13h 19m 59.2s	+28° 24' 44"	13.1	Galaxy	0.018x0.006	Coma Berenices	
NGC 5089	13h 20m 30.0s	+30° 09' 41"	13.1	Galaxy	0.014x0.006	Coma Berenices	
IC 5240	13h 36m 43.4s	+35° 29' 49"	13.1	Galaxy	0.015x0.011	Canes Venatici	
NGC 4514	12h 33m 36.3s	+29° 36' 47"	13.2	Galaxy	0.01x0.009	Coma Berenices	
NGC 4687	12h 48m 15.6s	+35° 15' 14"	13.2	Galaxy	0.005x0.005	Canes Venatici	
IC 4719	12h 51m 00.5s	+33° 03' 41"	13.2	Galaxy	0.011x0.009	Canes Venatici	
IC 4798	12h 55m 47.7s	+27° 18' 56"	13.2	Galaxy	0.008x0.005	Coma Berenices	
NGC 4819	12h 57m 20.4s	+26° 53' 23"	13.2	Galaxy	0.01x0.006	Coma Berenices	
NGC 4895	13h 01m 10.0s	+28° 06' 18"	13.2	Galaxy	0.015x0.005	Coma Berenices	
NGC 4908	13h 01m 46.4s	+27° 54' 37"	13.2	Galaxy	0.008x0.006	Coma Berenices	
NGC 4986	13h 09m 14.8s	+35° 06' 34"	13.2	Galaxy	0.014x0.007	Canes Venatici	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5000	13h 10m 38.9s	+28° 48' 40"	13.2	Galaxy	0.014x0.011	Coma Berenices	
IC 5052	13h 16m 25.9s	+29° 34' 52"	13.2	Galaxy	0.010x0.007	Coma Berenices	
NGC 4495	12h 32m 16.2s	+29° 02' 15"	13.3	Galaxy	0.011x0.006	Coma Berenices	
NGC 4614	12h 42m 24.8s	+25° 56' 40"	13.3	Galaxy	0.007x0.006	Coma Berenices	
NGC 4966	13h 07m 08.8s	+28° 58' 00"	13.3	Galaxy	0.008x0.004	Coma Berenices	
NGC 5142	13h 25m 50.1s	+36° 18' 23"	13.3	Galaxy	0.008x0.005	Canes Venatici	
IC 5157	13h 28m 06.5s	+31° 56' 16"	13.3	Galaxy	0.010x0.007	Canes Venatici	
NGC 5228	13h 35m 23.7s	+34° 41' 10"	13.3	Galaxy	0.008x0.007	Canes Venatici	
NGC 5282	13h 44m 14.1s	+29° 58' 48"	13.3	Galaxy	0.009x0.006	Canes Venatici	
IC 3651	12h 41m 46.0s	+26° 37' 48"	13.3	Galaxy	0.008x0.008	Coma Berenices	
IC 4213	13h 13m 01.3s	+35° 34' 34"	13.3	Galaxy	0.020x0.004	Canes Venatici	
IC 933	13h 46m 07.0s	+23° 07' 46"	13.3	Galaxy	0.01x0.0075	Bootes	
IC 4562	12h 36m 28.0s	+25° 45' 02"	13.4	Galaxy	0.02x0.005	Coma Berenices	
NGC 4583	12h 38m 57.1s	+33° 21' 35"	13.4	Galaxy	0.009x0.007	Canes Venatici	
NGC 4711	12h 49m 37.4s	+35° 14' 06"	13.4	Galaxy	0.010x0.006	Canes Venatici	
NGC 4738	12h 52m 01.3s	+28° 41' 26"	13.4	Galaxy	0.017x0.002	Coma Berenices	
NGC 4929	13h 03m 36.4s	+27° 56' 56"	13.4	Galaxy	0.006x0.006	Coma Berenices	
NGC 5041	13h 15m 23.3s	+30° 36' 37"	13.4	Galaxy	0.014x0.012	Coma Berenices	
NGC 5187	13h 30m 38.0s	+31° 02' 15"	13.4	Galaxy	0.010x0.006	Canes Venatici	
IC 5263	13h 40m 45.4s	+28° 18' 32"	13.4	Galaxy	0.013x0.003	Canes Venatici	
IC 3585	12h 37m 33.2s	+26° 43' 54"	13.4	Galaxy	0.009x0.007	Coma Berenices	
NGC 4509	12h 33m 60.0s	+31° 59' 35"	13.5	Galaxy	0.006x0.004	Canes Venatici	
NGC 4676A	12h 47m 02.6s	+30° 38' 04"	13.5	Galaxy	0.011x0.005	Coma Berenices	4676A, The Mice
IC 4728	12h 51m 20.6s	+27° 20' 15"	13.5	Galaxy	0.008x0.005	Coma Berenices	
IC 4807	12h 56m 21.6s	+27° 25' 26"	13.5	Galaxy	0.008x0.006	Coma Berenices	
NGC 4860	12h 59m 56.1s	+28° 01' 35"	13.5	Galaxy	0.007x0.006	Coma Berenices	
NGC 4861	12h 59m 52.9s	+34° 45' 54"	13.5	Galaxy	0.035x0.013	Canes Venatici	
NGC 4898-1	13h 01m 09.7s	+27° 51' 30"	13.5	Galaxy	0.005x0.003	Coma Berenices	4898-1
IC 4931	13h 03m 53.0s	+27° 56' 08"	13.5	Galaxy	0.013x0.005	Coma Berenices	
NGC 4971	13h 07m 46.5s	+28° 27' 10"	13.5	Galaxy	0.008x0.008	Coma Berenices	
IC 5117	13h 23m 47.2s	+28° 13' 19"	13.5	Galaxy	0.018x0.008	Canes Venatici	
IC 5131	13h 24m 47.2s	+30° 53' 38"	13.5	Galaxy	0.017x0.002	Canes Venatici	
NGC 5166	13h 29m 04.7s	+31° 56' 22"	13.5	Galaxy	0.019x0.003	Canes Venatici	
IC 4189	13h 06m 54.1s	+35° 53' 02"	13.5	Galaxy	0.010x0.007	Canes Venatici	
NGC 4475	12h 30m 41.4s	+27° 08' 38"	13.6	Galaxy	0.014x0.007	Coma Berenices	
NGC 4789A	12h 54m 58.0s	+27° 02' 59"	13.6	Galaxy	0.015x0.010	Coma Berenices	4789A
IC 4846	12h 58m 38.6s	+36° 16' 23"	13.6	Galaxy	0.010x0.005	Canes Venatici	
NGC 4853	12h 59m 27.6s	+27° 29' 56"	13.6	Galaxy	0.006x0.005	Coma Berenices	
NGC 4859	12h 59m 54.1s	+26° 43' 07"	13.6	Galaxy	0.010x0.006	Coma Berenices	
IC 4864	13h 00m 05.3s	+27° 52' 46"	13.6	Galaxy	0.005x0.004	Coma Berenices	
NGC 4881	13h 00m 49.9s	+28° 08' 59"	13.6	Galaxy	0.008x0.008	Coma Berenices	
NGC 4898-2	13h 01m 10.2s	+27° 51' 32"	13.6	Galaxy	0.003x0.003	Coma Berenices	4898-2
NGC 4907	13h 01m 40.8s	+28° 03' 37"	13.6	Galaxy	0.009x0.008	Coma Berenices	
NGC 4961	13h 06m 39.6s	+27° 38' 17"	13.6	Galaxy	0.013x0.009	Coma Berenices	
NGC 5025	13h 13m 35.5s	+31° 42' 48"	13.6	Galaxy	0.016x0.005	Canes Venatici	
NGC 5065	13h 18m 21.1s	+30° 59' 52"	13.6	Galaxy	0.010x0.006	Coma Berenices	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5199	13h 31m 31.6s	+34° 44' 19"	13.6	Galaxy	0.007x0.007	Canes Venatici	
NGC 5280	13h 43m 44.8s	+29° 46' 44"	13.6	Galaxy	0.006x0.006	Canes Venatici	
IC 4051	13h 01m 43.6s	+27° 56' 46"	13.6	Galaxy	0.007x0.006	Coma Berenices	
IC 843	13h 02m 25.4s	+29° 02' 02"	13.6	Galaxy	0.009x0.005	Coma Berenices	
IC 912	13h 42m 19.9s	+23° 09' 17"	13.6	Galaxy	0.005x0.004	Bootes	
NGC 4840	12h 58m 25.0s	+27° 30' 49"	13.7	Galaxy	0.005x0.005	Coma Berenices	
NGC 4848	12h 58m 57.8s	+28° 08' 44"	13.7	Galaxy	0.013x0.004	Coma Berenices	
NGC 4865	13h 00m 12.0s	+27° 59' 14"	13.7	Galaxy	0.007x0.004	Coma Berenices	
IC 4923	13h 02m 23.8s	+27° 45' 01"	13.7	Galaxy	0.006x0.006	Coma Berenices	
IC 4314	13h 39m 15.3s	+26° 39' 07"	13.7	Galaxy	0.005x0.005	Bootes	
NGC 4676B	12h 47m 03.7s	+30° 37' 28"	13.8	Galaxy	0.018x0.006	Coma Berenices	4676B
IC 4869	13h 00m 15.6s	+27° 48' 52"	13.8	Galaxy	0.006x0.005	Coma Berenices	
NGC 4927	13h 02m 49.5s	+27° 54' 35"	13.8	Galaxy	0.005x0.003	Coma Berenices	
IC 5002	13h 11m 28.1s	+36° 32' 19"	13.8	Galaxy	0.014x0.008	Canes Venatici	
NGC 5154	13h 27m 17.5s	+35° 55' 03"	13.8	Galaxy	0.011x0.01	Canes Venatici	
NGC 5276	13h 43m 09.8s	+35° 32' 02"	13.8	Galaxy	0.007x0.004	Canes Venatici	
IC 3598	12h 38m 14.2s	+28° 06' 36"	13.8	Galaxy	0.011x0.003	Coma Berenices	
IC 4088	13h 02m 35.3s	+28° 56' 51"	13.8	Galaxy	0.012x0.004	Coma Berenices	
IC 4171	13h 06m 09.2s	+36° 00' 23"	13.8	Galaxy	0.007x0.004	Canes Venatici	
IC 4305	13h 36m 47.2s	+33° 22' 59"	13.8	Galaxy	0.005x0.005	Canes Venatici	
IC 821	12h 48m 18.6s	+29° 41' 23"	13.8	Galaxy	0.009x0.009	Coma Berenices	
IC 883	13h 21m 25.2s	+34° 02' 41"	13.8	Galaxy	0.011x0.005	Canes Venatici	
NGC 4728B	12h 51m 30.0s	+27° 19' 39"	13.9	Galaxy	0.008x0.003	Coma Berenices	4728B
IC 4854	12h 59m 39.7s	+27° 34' 38"	13.9	Galaxy	0.01x0.006	Coma Berenices	
IC 4886	13h 00m 56.6s	+27° 53' 23"	13.9	Galaxy	0.005x0.005	Coma Berenices	
NGC 4896	13h 01m 22.9s	+28° 14' 59"	13.9	Galaxy	0.008x0.005	Coma Berenices	
NGC 4979	13h 08m 34.9s	+24° 42' 55"	13.9	Galaxy	0.008x0.005	Coma Berenices	
IC 5096	13h 20m 58.6s	+32° 59' 38"	13.9	Galaxy	0.005x0.005	Canes Venatici	
IC 5233	13h 36m 02.0s	+34° 35' 08"	13.9	Galaxy	0.011x0.005	Canes Venatici	
NGC 5251	13h 38m 15.0s	+27° 19' 41"	13.9	Galaxy	0.005x0.005	Bootes	
NGC 5312	13h 50m 38.5s	+33° 32' 00"	13.9	Galaxy	0.006x0.003	Canes Venatici	
IC 3407	12h 29m 57.6s	+27° 40' 44"	13.9	Galaxy	0.007x0.004	Coma Berenices	
IC 4045	13h 01m 40.8s	+27° 59' 37"	13.9	Galaxy	0.006x0.004	Coma Berenices	
IC 832	12h 54m 51.5s	+26° 20' 49"	13.9	Galaxy	0.004x0.004	Coma Berenices	
IC 842	13h 01m 31.4s	+28° 55' 19"	13.9	Galaxy	0.01x0.005	Coma Berenices	
NGC 4399	12h 26m 36.4s	+33° 25' 02"	14.0	Galpart	0.008x0.008	Canes Venatici	
NGC 4401	12h 26m 51.4s	+33° 25' 40"	14.0	Galpart	0.005x0.005	Canes Venatici	
NGC 4842A	12h 58m 28.2s	+27° 23' 46"	14.0	Galaxy	0.003x0.003	Coma Berenices	4842A
NGC 4892	13h 00m 55.8s	+26° 48' 05"	14.0	Galaxy	0.010x0.002	Coma Berenices	
IC 4983	13h 09m 18.9s	+28° 13' 30"	14.0	Galaxy	0.009x0.005	Coma Berenices	
NGC 5074	13h 19m 16.2s	+31° 22' 26"	14.0	Galaxy	0.005x0.005	Canes Venatici	
IC 5321	13h 51m 31.5s	+33° 32' 40"	14.0	Galaxy	0.006x0.005	Canes Venatici	
IC 3623	12h 40m 20.8s	+27° 00' 15"	14.0	Galaxy	0.009x0.007	Coma Berenices	
IC 3900	12h 56m 33.6s	+27° 09' 15"	14.0	Galaxy	0.005x0.004	Coma Berenices	
IC 3946	12h 59m 41.2s	+27° 42' 46"	14.0	Galaxy	0.005x0.003	Coma Berenices	
IC 4226	13h 21m 20.5s	+31° 54' 37"	14.0	Galaxy	0.003x0.002	Canes Venatici	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4234	13h 23m 51.0s	+27° 01' 23"	14.0	Galaxy	0.005x0.004	Coma Berenices	
IC 826	12h 52m 12.0s	+30° 57' 41"	14.0	Galaxy	0.005x0.005	Coma Berenices	
IC 4585	12h 39m 06.3s	+28° 50' 18"	14.1	Galaxy	0.005x0.003	Coma Berenices	
NGC 4873	13h 00m 25.0s	+27° 53' 12"	14.1	Galaxy	0.006x0.005	Coma Berenices	
IC 4906	13h 01m 31.8s	+27° 49' 38"	14.1	Galaxy	0.004x0.004	Coma Berenices	
NGC 4919	13h 02m 09.6s	+27° 42' 43"	14.1	Galaxy	0.009x0.005	Coma Berenices	
NGC 5098A	13h 21m 04.6s	+33° 02' 57"	14.1	Galaxy	0.005x0.005	Canes Venatici	5098A
IC 5271	13h 42m 31.7s	+30° 02' 05"	14.1	Galaxy	0.007x0.005	Canes Venatici	
IC 4304	13h 36m 46.8s	+33° 20' 18"	14.1	Galaxy	0.01x0.003	Canes Venatici	
IC 4307	13h 37m 26.4s	+27° 09' 05"	14.1	Galaxy	0.005x0.005	Bootes	
IC 911	13h 42m 16.2s	+23° 09' 27"	14.1	Galaxy	0.003x0.003	Bootes	
IC 4828	12h 57m 35.0s	+27° 55' 25"	14.2	Galaxy	0.005x0.005	Coma Berenices	
NGC 4850	12h 59m 13.8s	+27° 52' 17"	14.2	Galaxy	0.005x0.004	Coma Berenices	
NGC 4851-1	12h 59m 13.9s	+28° 03' 03"	14.2	Galaxy	0.003x0.001	Coma Berenices	4851-1
IC 4871	13h 00m 22.2s	+27° 51' 35"	14.2	Galaxy	0.005x0.004	Coma Berenices	
NGC 4922-2	13h 02m 17.1s	+29° 12' 59"	14.2	Galaxy	0.005x0.004	Coma Berenices	4922-2
NGC 4926A	13h 03m 00.1s	+27° 33' 06"	14.2	Galaxy	0.005x0.003	Coma Berenices	4926A
NGC 5004C	13h 11m 52.9s	+29° 28' 57"	14.2	Galaxy	0.011x0.006	Coma Berenices	
NGC 5259-1	13h 40m 13.9s	+30° 54' 01"	14.2	Galaxy	0.009x0.005	Canes Venatici	5259-1
NGC 5275	13h 43m 13.0s	+29° 44' 06"	14.2	Galaxy	0.005x0.005	Canes Venatici	
IC 3508	12h 35m 00.4s	+26° 34' 20"	14.2	Galaxy	0.007x0.007	Coma Berenices	
IC 3959	13h 00m 00.4s	+27° 41' 12"	14.2	Galaxy	0.004x0.004	Coma Berenices	
IC 4215	13h 17m 08.2s	+25° 18' 36"	14.2	Galaxy	0.012x0.001	Coma Berenices	
IC 4258	13h 28m 43.8s	+28° 24' 57"	14.2	Galaxy	0.005x0.004	Canes Venatici	
IC 4332	13h 50m 42.5s	+25° 06' 04"	14.2	Galaxy	0.006x0.006	Bootes	
IC 835	12h 57m 44.8s	+26° 23' 23"	14.2	Galaxy	0.005x0.005	Coma Berenices	
IC 854	13h 10m 41.9s	+24° 28' 55"	14.2	Galaxy	0.006x0.005	Coma Berenices	
IC 905	13h 40m 53.8s	+23° 03' 09"	14.2	Galaxy	0.005x0.005	Bootes	
IC 4737	12h 51m 44.6s	+34° 03' 34"	14.3	Galaxy	0.007x0.005	Canes Venatici	
NGC 4774	12h 53m 57.8s	+36° 43' 17"	14.3	Galaxy	0.005x0.003	Canes Venatici	Kidney Bean galaxy
IC 4883	13h 00m 48.2s	+27° 56' 15"	14.3	Galaxy	0.004x0.002	Coma Berenices	
NGC 5032B	13h 14m 17.0s	+27° 40' 08"	14.3	Galaxy	0.007x0.005	Coma Berenices	5032B
IC 3592	12h 37m 46.5s	+27° 45' 49"	14.3	Galaxy	0.008x0.004	Coma Berenices	
IC 3662	12h 42m 29.7s	+23° 19' 36"	14.3	Galaxy	0.005x0.005	Coma Berenices	
IC 3852	12h 53m 54.6s	+35° 40' 32"	14.3	Galaxy	0.01x0.005	Canes Venatici	
IC 3949	12h 59m 48.7s	+27° 44' 10"	14.3	Galaxy	0.008x0.001	Coma Berenices	
IC 4042	13h 01m 34.7s	+27° 52' 30"	14.3	Galaxy	0.004x0.004	Coma Berenices	
IC 4049	13h 01m 33.3s	+36° 14' 57"	14.3	Galaxy	0.006x0.006	Canes Venatici	
IC 4166	13h 06m 09.9s	+31° 20' 45"	14.3	Galaxy	0.007x0.004	Canes Venatici	
IC 4225	13h 20m 51.1s	+31° 53' 16"	14.3	Galaxy	0.008x0.002	Canes Venatici	
IC 4244	13h 25m 47.2s	+26° 22' 14"	14.3	Galaxy	0.002x0.001	Coma Berenices	
IC 834	12h 57m 10.9s	+26° 15' 44"	14.3	Galaxy	0.004x0.002	Coma Berenices	
IC 909	13h 41m 41.9s	+24° 22' 57"	14.3	Galaxy	0.003x0.003	Bootes	
IC 4787	12h 54m 58.3s	+26° 58' 15"	14.4	Galaxy	0.009x0.002	Coma Berenices	
NGC 4788	12h 55m 08.6s	+27° 12' 20"	14.4	Galaxy	0.006x0.002	Coma Berenices	
IC 4874	13h 00m 26.4s	+27° 50' 60"	14.4	Galaxy	0.004x0.002	Coma Berenices	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4876	13h 00m 36.7s	+27° 48' 56"	14.4	Galaxy	0.005x0.003	Coma Berenices	
IC 4934	13h 04m 08.1s	+27° 56' 01"	14.4	Galaxy	0.008x0.001	Coma Berenices	
IC 4943	13h 04m 36.8s	+27° 59' 14"	14.4	Galaxy	0.004x0.002	Coma Berenices	
IC 3947	12h 59m 44.1s	+27° 41' 19"	14.4	Galaxy	0.002x0.001	Coma Berenices	
IC 3955	12h 59m 58.2s	+27° 53' 57"	14.4	Galaxy	0.003x0.001	Coma Berenices	
IC 3973	13h 00m 22.8s	+27° 47' 18"	14.4	Galaxy	0.004x0.002	Coma Berenices	
IC 3990	13h 00m 31.2s	+28° 47' 54"	14.4	Galaxy	0.01x0.003	Coma Berenices	
IC 4028	13h 01m 07.2s	+36° 09' 23"	14.4	Galaxy	0.005x0.005	Canes Venatici	
IC 4041	13h 01m 32.8s	+27° 54' 01"	14.4	Galaxy	0.003x0.001	Coma Berenices	
IC 4133	13h 04m 42.7s	+27° 53' 28"	14.4	Galaxy	0.002x0.002	Coma Berenices	
IC 4230	13h 22m 50.4s	+26° 38' 24"	14.4	Galaxy	0.008x0.001	Coma Berenices	
IC 4239	13h 25m 15.5s	+30° 51' 57"	14.4	Galaxy	0.006x0.003	Canes Venatici	
IC 4297	13h 36m 09.7s	+26° 20' 01"	14.4	Galaxy	0.007x0.004	Coma Berenices	
IC 4322	13h 44m 34.5s	+25° 18' 10"	14.4	Galaxy	0.008x0.006	Bootes	
IC 4334	13h 50m 37.2s	+29° 36' 18"	14.4	Galaxy	0.004x0.004	Canes Venatici	
IC 831	12h 53m 36.5s	+26° 22' 25"	14.4	Galaxy	0.005x0.002	Coma Berenices	
IC 910	13h 41m 58.7s	+23° 11' 27"	14.4	Galaxy	0.004x0.003	Bootes	
IC 916	13h 43m 28.7s	+24° 22' 31"	14.4	Galaxy	0.005x0.005	Bootes	
IC 941	13h 49m 26.1s	+23° 55' 35"	14.4	Galaxy	0.005x0.003	Bootes	
NGC 4400	12h 26m 49.4s	+33° 24' 59"	14.5	Galpart	0.002x0.002	Canes Venatici	
IC 4721	12h 51m 12.4s	+27° 13' 37"	14.5	Galaxy	0.006x0.002	Coma Berenices	
IC 4821	12h 57m 21.6s	+26° 51' 35"	14.5	Galaxy	0.004x0.002	Coma Berenices	
NGC 4867	13h 00m 07.6s	+27° 52' 25"	14.5	Galaxy	0.004x0.003	Coma Berenices	
NGC 4959	13h 06m 31.9s	+33° 05' 00"	14.5	Galaxy	0.006x0.006	Canes Venatici	
IC 5277	13h 43m 27.7s	+29° 51' 50"	14.5	Galaxy	0.005x0.003	Canes Venatici	
IC 3550	12h 36m 45.1s	+27° 50' 01"	14.5	Galpart	0.002x0.002	Coma Berenices	
IC 3551	12h 36m 47.1s	+27° 51' 54"	14.5	Galpart	0.001x0.001	Coma Berenices	
IC 3559	12h 36m 56.8s	+26° 53' 20"	14.5	Galaxy	0.005x0.001	Coma Berenices	
IC 3590	12h 37m 44.0s	+27° 10' 45"	14.5	Galaxy	0.008x0.001	Coma Berenices	
IC 3862	12h 54m 44.4s	+35° 59' 21"	14.5	Galaxy	0.010x0.005	Canes Venatici	
IC 3991	13h 00m 31.7s	+28° 49' 45"	14.5	Galaxy	0.005x0.002	Coma Berenices	
IC 4032	13h 01m 17.7s	+28° 46' 16"	14.5	Galaxy	0.003x0.002	Coma Berenices	
IC 4202	13h 09m 23.7s	+24° 36' 18"	14.5	Galaxy	0.014x0.001	Coma Berenices	
IC 4210	13h 11m 38.9s	+29° 36' 50"	14.5	Galaxy	0.006x0.004	Coma Berenices	
IC 4241	13h 25m 37.5s	+26° 38' 43"	14.5	Galaxy	0.004x0.004	Coma Berenices	
IC 4250-1	13h 27m 00.0s	+26° 23' 03"	14.5	Galaxy	0.003x0.002	Coma Berenices	IC 4250-1
IC 4287-1	13h 33m 29.6s	+25° 20' 58"	14.5	Galaxy	0.005x0.002	Coma Berenices	IC 4287-1
IC 860	13h 15m 55.3s	+24° 31' 25"	14.5	Galaxy	0.006x0.004	Coma Berenices	
IC 914	13h 42m 31.5s	+23° 05' 58"	14.5	Galaxy	0.005x0.005	Bootes	
NGC 4735	12h 51m 54.3s	+28° 49' 49"	14.6	Galaxy	0.005x0.002	Coma Berenices	
NGC 5098B	13h 21m 07.8s	+33° 03' 03"	14.6	Galaxy	0.005x0.005	Canes Venatici	5098B
IC 5274	13h 43m 12.7s	+29° 45' 27"	14.6	Galaxy	0.003x0.003	Canes Venatici	
IC 3451	12h 32m 17.5s	+28° 45' 23"	14.6	Galaxy	0.004x0.003	Coma Berenices	
IC 3546	12h 36m 35.1s	+26° 07' 25"	14.6	Galaxy	0.006x0.003	Coma Berenices	
IC 3556	12h 36m 51.9s	+26° 51' 60"	14.6	Galaxy	0.005x0.002	Coma Berenices	
IC 3581	12h 37m 31.7s	+24° 19' 48"	14.6	Galaxy	0.007x0.003	Coma Berenices	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3593	12h 37m 47.1s	+27° 38' 59"	14.6	Galaxy	0.004x0.002	Coma Berenices	
IC 3644	12h 41m 29.3s	+26° 24' 22"	14.6	Galaxy	0.007x0.001	Coma Berenices	
IC 3646	12h 41m 31.8s	+26° 25' 37"	14.6	Galaxy	0.005x0.002	Coma Berenices	
IC 3957	12h 59m 59.6s	+27° 40' 11"	14.6	Galaxy	0.003x0.003	Coma Berenices	
IC 3998	13h 00m 38.9s	+27° 52' 34"	14.6	Galaxy	0.006x0.004	Coma Berenices	
IC 4026	13h 01m 14.3s	+27° 56' 59"	14.6	Galaxy	0.002x0.002	Coma Berenices	
IC 4086	13h 02m 33.6s	+36° 33' 04"	14.6	Galaxy	0.007x0.006	Canes Venatici	
IC 4106	13h 03m 30.4s	+28° 01' 03"	14.6	Galaxy	0.007x0.005	Coma Berenices	
IC 4201	13h 08m 41.6s	+35° 44' 17"	14.6	Galaxy	0.004x0.004	Canes Venatici	
IC 4283	13h 33m 01.0s	+28° 17' 48"	14.6	Galaxy	0.004x0.002	Canes Venatici	
IC 4313	13h 39m 10.9s	+26° 40' 09"	14.6	Galaxy	0.003x0.003	Bootes	
IC 818	12h 47m 37.0s	+29° 38' 14"	14.6	Galaxy	0.007x0.001	Coma Berenices	
IC 837	12h 58m 23.8s	+26° 24' 51"	14.6	Galaxy	0.007x0.001	Coma Berenices	
IC 861	13h 15m 57.5s	+34° 14' 01"	14.6	Galaxy	0.006x0.004	Canes Venatici	
IC 913	13h 42m 20.6s	+23° 04' 35"	14.6	Galaxy	0.006x0.005	Bootes	
IC 4558	12h 36m 46.0s	+26° 53' 34"	14.7	Galaxy	0.006x0.005	Coma Berenices	
IC 4563	12h 37m 06.0s	+26° 50' 34"	14.7	Galaxy	0.004x0.003	Coma Berenices	
IC 4817	12h 57m 21.8s	+27° 50' 35"	14.7	Galaxy	0.004x0.004	Coma Berenices	
IC 4875	13h 00m 30.2s	+27° 48' 39"	14.7	Galaxy	0.003x0.002	Coma Berenices	
IC 3441	12h 31m 58.0s	+28° 45' 16"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 3640	12h 41m 18.3s	+26° 25' 33"	14.7	Galaxy	0.003x0.001	Coma Berenices	
IC 3671	12h 42m 44.7s	+23° 24' 42"	14.7	Galaxy	0.004x0.004	Coma Berenices	
IC 3913	12h 57m 21.1s	+27° 11' 37"	14.7	Galaxy	0.005x0.005	Coma Berenices	
IC 3940	12h 59m 07.4s	+35° 44' 33"	14.7	Galaxy	0.003x0.001	Canes Venatici	
IC 3943	12h 59m 28.6s	+28° 00' 59"	14.7	Galaxy	0.005x0.001	Coma Berenices	
IC 3963	13h 00m 05.7s	+27° 40' 37"	14.7	Galaxy	0.005x0.002	Coma Berenices	
IC 3976	13h 00m 21.6s	+27° 45' 12"	14.7	Galaxy	0.004x0.001	Coma Berenices	
IC 4228	13h 22m 25.5s	+25° 25' 18"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 4256	13h 27m 53.1s	+30° 53' 00"	14.7	Galaxy	0.003x0.001	Canes Venatici	
IC 4317	13h 42m 35.9s	+27° 00' 58"	14.7	Galaxy	0.004x0.003	Bootes	
NGC 4745B	12h 52m 14.6s	+27° 20' 47"	14.8	Galaxy	0.005x0.001	Coma Berenices	4745B
NGC 5166B	13h 29m 22.8s	+31° 58' 35"	14.8	Galaxy	0.004x0.002	Canes Venatici	5166B
IC 3620	12h 40m 11.1s	+27° 48' 35"	14.8	Galaxy	0.005x8.333	Coma Berenices	
IC 3642	12h 41m 19.1s	+26° 37' 59"	14.8	Galaxy	0.002x0.002	Coma Berenices	
IC 3772	12h 47m 47.8s	+36° 25' 59"	14.8	Galaxy	0.005x0.003	Canes Venatici	
IC 3966	13h 00m 04.0s	+35° 45' 26"	14.8	Galaxy	0.005x0.004	Canes Venatici	
IC 4021	13h 01m 06.9s	+27° 56' 38"	14.8	Galaxy	0.003x0.003	Coma Berenices	
IC 4040	13h 01m 30.1s	+27° 57' 36"	14.8	Galaxy	0.008x0.002	Coma Berenices	
IC 4111	13h 03m 48.6s	+27° 58' 27"	14.8	Galaxy	0.003x0.001	Coma Berenices	
IC 4158	13h 05m 15.0s	+36° 23' 04"	14.8	Galaxy	0.004x0.001	Canes Venatici	
IC 4227	13h 21m 43.5s	+32° 05' 50"	14.8	Galaxy	0.003x0.001	Canes Venatici	
IC 4238	13h 24m 50.1s	+30° 50' 20"	14.8	Galaxy	0.006x0.001	Canes Venatici	
IC 4331	13h 50m 14.9s	+25° 03' 55"	14.8	Galaxy	0.004x0.003	Bootes	
IC 839	12h 59m 07.1s	+28° 01' 46"	14.8	Galaxy	0.005x0.002	Coma Berenices	
NGC 4911A	13h 01m 46.0s	+27° 41' 16"	14.9	Galaxy	0.003x0.001	Coma Berenices	4911A
NGC 4949	13h 05m 09.7s	+28° 55' 59"	14.9	Galaxy	0.005x0.002	Coma Berenices	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3403	12h 29m 55.5s	+24° 32' 00"	14.9	Galaxy	0.002x0.001	Coma Berenices	
IC 3406	12h 29m 56.5s	+27° 32' 28"	14.9	Galaxy	0.004x0.002	Coma Berenices	
IC 3421	12h 30m 32.6s	+26° 07' 54"	14.9	Galaxy	0.005x0.004	Coma Berenices	
IC 3454	12h 32m 32.3s	+27° 23' 50"	14.9	Galaxy	0.01x0.001	Coma Berenices	
IC 3498	12h 34m 22.7s	+26° 38' 22"	14.9	Galaxy	0.005x0.001	Coma Berenices	
IC 3599	12h 38m 34.5s	+26° 36' 33"	14.9	Galaxy	0.002x0.001	Coma Berenices	
IC 3600	12h 38m 34.3s	+27° 01' 50"	14.9	Galaxy	0.004x0.003	Coma Berenices	
IC 3618	12h 40m 10.4s	+26° 34' 47"	14.9	Galaxy	0.002x0.002	Coma Berenices	
IC 3626	12h 40m 25.0s	+25° 34' 41"	14.9	Galaxy	0.002x0.001	Coma Berenices	
IC 3960	13h 00m 00.1s	+27° 45' 28"	14.9	Galaxy	0.003x0.003	Coma Berenices	
IC 4012	13h 01m 00.1s	+27° 58' 54"	14.9	Galaxy	0.002x0.001	Coma Berenices	
IC 4187	13h 06m 50.0s	+36° 12' 08"	14.9	Galaxy	0.002x0.002	Canes Venatici	
IC 4302	13h 36m 24.8s	+33° 23' 16"	14.9	Galaxy	0.010x8.333	Canes Venatici	
PGC 214033	12h 51m 29.5s	+27° 23' 09"	15.0	Galaxy	0.004x0.002	Coma Berenices	4728C
NGC 4851-2	12h 59m 14.4s	+28° 03' 18"	15.0	Galaxy	0.002x0.001	Coma Berenices	4851-2
NGC 4895A	13h 01m 01.3s	+28° 04' 24"	15.0	Galaxy	0.005x0.002	Coma Berenices	4895A
IC 3402	12h 29m 53.0s	+28° 45' 47"	15.0	Galaxy	0.007x8.333	Coma Berenices	
IC 3458	12h 32m 37.6s	+28° 02' 53"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 3515	12h 35m 09.4s	+27° 45' 46"	15.0	Galaxy	0.005x0.001	Coma Berenices	
IC 3533	12h 35m 54.8s	+25° 40' 53"	15.0	Galaxy	0.002x0.001	Coma Berenices	
IC 3555	12h 36m 49.3s	+27° 53' 28"	15.0	Galpart	0.004x0.004	Coma Berenices	
IC 4002	13h 00m 31.4s	+36° 40' 04"	15.0	Galaxy	0.003x0.001	Canes Venatici	
IC 4033	13h 01m 20.6s	+27° 52' 32"	15.0	Galaxy	0.005x0.002	Coma Berenices	
IC 4154	13h 05m 20.7s	+23° 28' 44"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 4242	13h 25m 31.2s	+30° 55' 58"	15.0	Galaxy	0.004x0.002	Canes Venatici	
IC 4301	13h 36m 24.7s	+33° 16' 58"	15.0	Galaxy	0.007x0.001	Canes Venatici	
IC 4306	13h 37m 08.5s	+33° 19' 58"	15.0	Galaxy	0.004x0.001	Canes Venatici	
IC 906	13h 41m 01.0s	+23° 15' 00"	15.0	Galaxy	0.007x0.001	Bootes	
IC 4745	12h 52m 18.7s	+27° 19' 26"	15.1	Galaxy	0.006x0.006	Coma Berenices	
NGC 4842B	12h 58m 28.6s	+27° 23' 15"	15.1	Galaxy	0.002x0.001	Coma Berenices	4842B
IC 3587	12h 37m 41.6s	+27° 27' 03"	15.1	Galaxy	0.011x0.001	Coma Berenices	
IC 3597	12h 38m 18.2s	+23° 45' 53"	15.1	Galaxy	0.003x0.003	Coma Berenices	
IC 3904	12h 56m 36.6s	+36° 11' 46"	15.1	Galaxy	0.005x0.004	Canes Venatici	
IC 4011	13h 00m 58.6s	+27° 54' 23"	15.1	Galaxy	0.004x0.004	Coma Berenices	
IC 4178	13h 06m 32.0s	+35° 55' 17"	15.1	Galaxy	0.009x0.003	Canes Venatici	
IC 4300	13h 36m 14.0s	+33° 19' 41"	15.1	Galaxy	0.001x0.001	Canes Venatici	
IC 838	12h 59m 06.2s	+26° 19' 45"	15.1	Galaxy	0.004x0.004	Coma Berenices	
NGC 4613	12h 42m 22.2s	+25° 59' 23"	15.2	Galaxy	0.004x0.004	Coma Berenices	
NGC 4807A	12h 56m 23.1s	+27° 26' 48"	15.2	Galaxy	0.004x0.001	Coma Berenices	4807A
NGC 4858	12h 59m 54.4s	+28° 01' 06"	15.2	Galaxy	0.004x0.003	Coma Berenices	
IC 4894	13h 01m 08.7s	+27° 52' 13"	15.2	Galaxy	0.004x8.333	Coma Berenices	
IC 3397	12h 29m 40.6s	+25° 37' 56"	15.2	Galaxy	0.004x0.002	Coma Berenices	
IC 3482	12h 33m 54.5s	+27° 43' 53"	15.2	Galaxy	0.002x8.333	Coma Berenices	
IC 3488	12h 34m 02.0s	+26° 15' 02"	15.2	Galaxy	0.006x0.005	Coma Berenices	
IC 3491	12h 34m 02.6s	+26° 59' 44"	15.2	Galaxy	0.007x0.002	Coma Berenices	
IC 3516	12h 35m 10.8s	+27° 21' 13"	15.2	Galaxy	0.011x0.001	Coma Berenices	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3531	12h 35m 50.1s	+26° 31' 40"	15.2	Galaxy	0.002x0.002	Coma Berenices	
IC 3561	12h 36m 58.1s	+26° 48' 04"	15.2	Galaxy	0.005x0.001	Coma Berenices	
IC 3563	12h 37m 00.4s	+27° 49' 40"	15.2	Galpart	0.004x0.004	Coma Berenices	
IC 3967	13h 00m 03.6s	+36° 01' 58"	15.2	Galaxy	0.003x0.001	Canes Venatici	
IC 3968	13h 00m 17.7s	+27° 52' 32"	15.2	Galaxy	0.003x0.001	Coma Berenices	
IC 4250-2	13h 26m 59.1s	+26° 22' 47"	15.2	Galaxy	0.002x8.333	Coma Berenices	IC 4250-2
IC 822	12h 48m 38.0s	+29° 58' 47"	15.2	Galaxy	0.003x0.003	Coma Berenices	
NGC 4926B	13h 02m 52.9s	+27° 33' 26"	15.3	Galaxy	0.005x0.002	Coma Berenices	4926B
IC 5287	13h 45m 41.8s	+29° 40' 52"	15.3	Galaxy	0.005x0.002	Canes Venatici	
IC 3911-1	12h 57m 00.3s	+35° 32' 23"	15.3	Galaxy	0.002x0.002	Canes Venatici	IC 3911-1
IC 4042A	13h 01m 34.8s	+27° 51' 60"	15.3	Galaxy	0.003x0.003	Coma Berenices	IC 4042A
IC 3395	12h 29m 38.5s	+24° 56' 08"	15.4	Galaxy	0.003x0.001	Coma Berenices	
IC 3429	12h 31m 01.9s	+23° 26' 46"	15.4	Galaxy	0.003x0.003	Coma Berenices	
IC 3460	12h 32m 44.0s	+27° 17' 17"	15.4	Galaxy	0.007x0.002	Coma Berenices	
IC 3891	12h 55m 49.5s	+35° 57' 19"	15.4	Galaxy	0.002x0.001	Canes Venatici	
IC 3944	12h 59m 37.5s	+23° 41' 03"	15.4	Galaxy	0.003x0.001	Coma Berenices	
IC 4030	13h 01m 20.0s	+27° 51' 30"	15.4	Galaxy	0.003x0.002	Coma Berenices	
IC 4044	13h 01m 39.5s	+27° 49' 30"	15.4	Galaxy	0.002x0.001	Coma Berenices	
IC 5319	13h 51m 28.4s	+33° 40' 23"	15.5	Galaxy	0.005x0.001	Canes Venatici	
IC 3387	12h 29m 12.6s	+27° 53' 47"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 3450	12h 32m 18.6s	+26° 41' 50"	15.5	Galaxy	0.003x0.001	Coma Berenices	
IC 3552	12h 36m 47.3s	+27° 53' 40"	15.5	Galpart	8.333x8.333	Coma Berenices	
IC 3565	12h 37m 05.7s	+26° 39' 26"	15.5	Galaxy	0.002x0.002	Coma Berenices	
IC 3800	12h 49m 18.9s	+36° 28' 37"	15.5	Galaxy	0.003x0.003	Canes Venatici	
IC 3958	13h 00m 04.0s	+23° 55' 31"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 3997	13h 00m 27.7s	+36° 35' 54"	15.5	Galaxy	0.002x0.001	Canes Venatici	
IC 4102	13h 03m 08.6s	+36° 03' 20"	15.5	Galaxy	0.001x8.333	Canes Venatici	
IC 4240	13h 25m 17.6s	+30° 53' 04"	15.5	Galaxy	0.003x0.001	Canes Venatici	
IC 4287-2	13h 33m 30.4s	+25° 20' 54"	15.5	Galaxy	0.001x0.001	Coma Berenices	IC 4287-2
IC 3809	12h 49m 55.9s	+36° 23' 30"	15.6	Galaxy	0.004x0.002	Canes Venatici	
NGC 5259-2	13h 40m 12.4s	+30° 54' 06"	15.7	Galaxy	0.002x0.001	Canes Venatici	5259-2
IC 3396	12h 29m 39.0s	+24° 57' 01"	15.7	Galaxy	0.001x0.001	Coma Berenices	
IC 3411	12h 30m 06.3s	+24° 29' 04"	15.7	Galaxy	0.004x0.001	Coma Berenices	
IC 3595-1	12h 37m 59.9s	+23° 41' 17"	15.7	Galaxy	0.003x0.001	Coma Berenices	IC 3595-1
IC 3595-2	12h 37m 59.7s	+23° 40' 53"	15.7	Galaxy	0.004x8.333	Coma Berenices	IC 3595-2
IC 3774	12h 47m 52.7s	+36° 11' 24"	15.7	Galaxy	0.007x0.003	Canes Venatici	
IC 3855	12h 54m 13.8s	+36° 41' 20"	15.7	Galaxy	0.004x0.001	Canes Venatici	
IC 3914	12h 57m 13.7s	+36° 15' 48"	15.7	Galaxy	0.001x0.001	Canes Venatici	
IC 4069	13h 02m 15.6s	+36° 00' 57"	15.7	Galaxy	0.002x8.333	Canes Venatici	
IC 4151	13h 04m 49.6s	+36° 45' 39"	15.7	Galaxy	0.002x0.001	Canes Venatici	
IC 4188	13h 06m 52.8s	+36° 13' 52"	15.7	Galaxy	0.005x0.002	Canes Venatici	
NGC 5143	13h 25m 50.3s	+36° 20' 39"	15.8	Galaxy	0.005x0.003	Canes Venatici	
IC 3394	12h 29m 34.9s	+26° 41' 58"	15.8	Galaxy	0.004x0.004	Coma Berenices	
IC 3424	12h 30m 38.9s	+24° 18' 32"	15.8	Galaxy	0.001x8.333	Coma Berenices	
IC 3536	12h 36m 05.9s	+26° 26' 04"	15.8	Galaxy	0.007x0.002	Coma Berenices	
IC 3543	12h 36m 34.8s	+26° 11' 16"	15.8	Galaxy	0.007x8.333	Coma Berenices	

Table 70: Main objects visible on chart 63 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3389	12h 29m 17.4s	+27° 44' 44"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3439	12h 31m 53.4s	+25° 27' 44"	16.0	Galaxy	0.004x0.003	Coma Berenices	
IC 3479	12h 33m 34.7s	+25° 18' 25"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3610	12h 39m 40.4s	+26° 46' 27"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3627	12h 40m 25.1s	+27° 23' 57"	16.0	Galaxy	0.003x0.001	Coma Berenices	
IC 3911-2	12h 57m 00.7s	+35° 32' 30"	16.0	Galaxy	0.001x0.001	Canes Venatici	IC 3911-2
IC 3948	12h 59m 50.7s	+23° 57' 52"	16.0	Galaxy	0.001x0.001	Coma Berenices	

7.65 Main objects visible on chart 64

Table 71: Main objects visible on chart 64

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5272	13h 43m 00.9s	+28° 17' 09"	6.3	Globular cluster	0.15x0.15	Canes Venatici	M3
NGC 5466	14h 06m 15.8s	+28° 26' 58"	9.2	Globular cluster	0.075x0.075	Bootes	
NGC 5557	14h 19m 10.8s	+36° 24' 40"	11.0	Galaxy	0.02x0.015	Bootes	
NGC 5396	13h 57m 44.7s	+29° 04' 36"	11.5	Galaxy	0.027x0.023	Canes Venatici	
IC 5273	13h 42m 56.2s	+35° 33' 49"	11.6	Galaxy	0.023x0.020	Canes Venatici	
NGC 5614	14h 24m 52.8s	+34° 46' 42"	11.7	Galaxy	0.02x0.016	Bootes	
NGC 5533	14h 16m 53.2s	+35° 15' 39"	11.8	Galaxy	0.025x0.015	Bootes	
NGC 5656	14h 31m 10.3s	+35° 14' 32"	11.8	Galaxy	0.015x0.012	Bootes	
NGC 5444	14h 04m 10.8s	+35° 02' 48"	11.9	Galaxy	0.020x0.016	Canes Venatici	
NGC 5529	14h 16m 19.5s	+36° 08' 38"	11.9	Galaxy	0.05x0.005	Bootes	
NGC 5629	14h 29m 04.4s	+25° 46' 10"	12.1	Galaxy	0.015x0.015	Bootes	
NGC 5523	14h 15m 40.4s	+25° 14' 06"	12.2	Galaxy	0.039x0.009	Bootes	
NGC 5653	14h 30m 56.8s	+31° 08' 09"	12.2	Galaxy	0.014x0.010	Bootes	
NGC 5440	14h 03m 47.4s	+34° 40' 14"	12.3	Galaxy	0.018x0.008	Canes Venatici	
NGC 5590	14h 22m 23.8s	+35° 07' 24"	12.3	Galaxy	0.015x0.015	Bootes	
NGC 5735	14h 43m 20.2s	+28° 39' 03"	12.3	Galaxy	0.02x0.015	Bootes	
NGC 5623	14h 27m 54.6s	+33° 10' 22"	12.5	Galaxy	0.013x0.009	Bootes	
NGC 5641	14h 30m 03.9s	+28° 44' 31"	12.5	Galaxy	0.02x0.010	Bootes	
NGC 5347	13h 54m 05.8s	+33° 24' 10"	12.6	Galaxy	0.013x0.010	Canes Venatici	
NGC 5548	14h 18m 48.4s	+25° 03' 15"	12.6	Galaxy	0.0125x0.01	Bootes	
NGC 5611	14h 24m 50.9s	+32° 58' 01"	12.6	Galaxy	0.010x0.005	Bootes	
NGC 5635	14h 29m 19.3s	+27° 19' 46"	12.6	Galaxy	0.019x0.009	Bootes	
NGC 5642	14h 30m 00.3s	+29° 56' 51"	12.6	Galaxy	0.015x0.010	Bootes	
NGC 5684	14h 36m 34.1s	+36° 27' 57"	12.7	Galaxy	0.012x0.010	Bootes	
NGC 5675	14h 33m 24.1s	+36° 13' 26"	12.8	Galaxy	0.023x0.008	Bootes	
NGC 5695	14h 38m 06.0s	+36° 29' 25"	12.8	Galaxy	0.012x0.009	Bootes	
NGC 5318	13h 51m 23.8s	+33° 36' 60"	12.9	Galaxy	0.012x0.007	Canes Venatici	
NGC 5352	13h 54m 25.3s	+36° 02' 46"	13.0	Galaxy	0.01x0.008	Canes Venatici	
NGC 5445	14h 04m 18.0s	+34° 56' 20"	13.0	Galaxy	0.012x0.005	Canes Venatici	
NGC 5544	14h 17m 47.7s	+36° 29' 18"	13.0	Galaxy	0.009x0.008	Bootes	
NGC 5654	14h 30m 46.0s	+36° 16' 51"	13.0	Galaxy	0.012x0.008	Bootes	
NGC 5798	14h 58m 23.5s	+29° 53' 48"	13.0	Galaxy	0.011x0.007	Bootes	

Table 71: Main objects visible on chart 64 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5827	15h 02m 40.5s	+25° 53' 38"	13.0	Galaxy	0.009x0.006	Bootes	
IC 5240	13h 36m 43.4s	+35° 29' 49"	13.1	Galaxy	0.015x0.011	Canes Venatici	
NGC 5421A	14h 02m 28.6s	+33° 44' 25"	13.2	Galaxy	0.011x0.008	Canes Venatici	5421A
NGC 5421B	14h 02m 29.3s	+33° 44' 08"	13.2	Galaxy	0.006x0.006	Canes Venatici	5421B
NGC 5610	14h 25m 11.9s	+24° 32' 01"	13.2	Galaxy	0.016x0.005	Bootes	
IC 4397	14h 18m 47.3s	+26° 19' 49"	13.2	Galaxy	0.009x0.007	Bootes	
NGC 5282	13h 44m 14.1s	+29° 58' 48"	13.3	Galaxy	0.009x0.006	Canes Venatici	
NGC 5589	14h 22m 10.4s	+35° 11' 20"	13.3	Galaxy	0.009x0.009	Bootes	
NGC 5657	14h 31m 30.7s	+29° 06' 05"	13.3	Galaxy	0.015x0.006	Bootes	
NGC 5685	14h 37m 01.9s	+29° 49' 50"	13.3	Galaxy	0.01x0.01	Bootes	
IC 933	13h 46m 07.0s	+23° 07' 46"	13.3	Galaxy	0.01x0.0075	Bootes	
IC 5263	13h 40m 45.4s	+28° 18' 32"	13.4	Galaxy	0.013x0.003	Canes Venatici	
NGC 5829	15h 03m 29.9s	+23° 15' 48"	13.4	Galaxy	0.014x0.012	Bootes	
IC 4447	14h 30m 04.5s	+30° 45' 10"	13.4	Galaxy	0.01x0.006	Bootes	
IC 4479	14h 39m 32.9s	+28° 25' 44"	13.4	Galaxy	0.010x0.010	Bootes	
NGC 5433	14h 03m 23.6s	+32° 25' 27"	13.5	Galaxy	0.013x0.003	Canes Venatici	
NGC 5639	14h 29m 33.3s	+30° 19' 58"	13.5	Galaxy	0.011x0.007	Bootes	
NGC 5672	14h 33m 24.7s	+31° 35' 30"	13.5	Galaxy	0.006x0.004	Bootes	
IC 1012	14h 27m 56.2s	+30° 52' 05"	13.5	Galaxy	0.01x0.006	Bootes	
NGC 5280	13h 43m 44.8s	+29° 46' 44"	13.6	Galaxy	0.006x0.006	Canes Venatici	
NGC 5498	14h 11m 53.5s	+25° 36' 49"	13.6	Galaxy	0.008x0.006	Bootes	
NGC 5499	14h 11m 33.6s	+35° 49' 46"	13.6	Galaxy	0.007x0.005	Bootes	
NGC 5579	14h 21m 12.0s	+35° 06' 26"	13.6	Galaxy	0.015x0.011	Bootes	
NGC 5703	14h 39m 36.5s	+30° 21' 56"	13.6	Galaxy	0.013x0.003	Bootes	
NGC 5727	14h 41m 11.0s	+33° 54' 44"	13.6	Galaxy	0.019x0.01	Bootes	
NGC 5771	14h 53m 00.1s	+29° 46' 22"	13.6	Galaxy	0.006x0.005	Bootes	
NGC 5773	14h 53m 16.2s	+29° 44' 06"	13.6	Galaxy	0.007x0.007	Bootes	
NGC 5789	14h 57m 21.3s	+30° 09' 42"	13.6	Galaxy	0.007x0.006	Bootes	
IC 912	13h 42m 19.9s	+23° 09' 17"	13.6	Galaxy	0.005x0.004	Bootes	
NGC 5008	14h 11m 46.1s	+25° 24' 44"	13.7	Galaxy	0.011x0.008	Bootes	
NGC 5401	14h 00m 30.0s	+36° 09' 05"	13.7	Galaxy	0.012x0.002	Canes Venatici	
NGC 5567	14h 20m 03.3s	+35° 03' 22"	13.7	Galaxy	0.009x0.007	Bootes	
IC 1017	14h 28m 55.5s	+25° 47' 18"	13.7	Galaxy	0.008x0.004	Bootes	
IC 4505	14h 47m 18.1s	+33° 20' 04"	13.7	Galaxy	0.01x0.008	Bootes	
NGC 5276	13h 43m 09.8s	+35° 32' 02"	13.8	Galaxy	0.007x0.004	Canes Venatici	
NGC 5508	14h 13m 18.3s	+24° 33' 06"	13.8	Galaxy	0.009x0.006	Bootes	
NGC 5517	14h 13m 37.2s	+35° 37' 39"	13.8	Galaxy	0.008x0.006	Bootes	
NGC 5527	14h 15m 12.7s	+36° 19' 16"	13.8	Galaxy	0.006x0.005	Bootes	
NGC 5616	14h 25m 05.5s	+36° 22' 50"	13.8	Galaxy	0.017x0.003	Bootes	
NGC 5677	14h 35m 00.8s	+25° 23' 24"	13.8	Galaxy	0.007x0.005	Bootes	
IC 4395	14h 18m 09.3s	+26° 46' 29"	13.8	Galaxy	0.008x0.007	Bootes	
IC 4405	14h 20m 05.0s	+26° 12' 58"	13.8	Galaxy	0.007x0.005	Bootes	
IC 4475	14h 39m 11.9s	+23° 15' 25"	13.8	Galaxy	0.007x0.006	Bootes	
NGC 5312	13h 50m 38.5s	+33° 32' 00"	13.9	Galaxy	0.006x0.003	Canes Venatici	
NGC 5399	14h 00m 18.2s	+34° 41' 12"	13.9	Galaxy	0.01x0.0025	Canes Venatici	
NGC 5659	14h 31m 54.4s	+25° 16' 33"	13.9	Galaxy	0.013x0.003	Bootes	

Table 71: Main objects visible on chart 64 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4344	13h 56m 02.6s	+24° 56' 01"	13.9	Galaxy	0.006x0.003	Bootes	
IC 4357	14h 01m 31.5s	+31° 48' 27"	13.9	Galaxy	0.009x0.005	Canes Venatici	
IC 4384	14h 12m 44.5s	+27° 01' 50"	13.9	Galaxy	0.007x0.006	Bootes	
IC 4422	14h 26m 46.0s	+30° 23' 36"	13.9	Galaxy	0.006x0.005	Bootes	
IC 4436	14h 28m 46.3s	+26° 25' 27"	13.9	Galaxy	0.008x0.007	Bootes	
IC 4533	15h 05m 16.5s	+27° 43' 26"	13.9	Galaxy	0.008x0.005	Bootes	
IC 5321	13h 51m 31.5s	+33° 32' 40"	14.0	Galaxy	0.006x0.005	Canes Venatici	
NGC 5559	14h 20m 01.5s	+24° 43' 00"	14.0	Galaxy	0.011x0.003	Bootes	
IC 4343	13h 55m 45.6s	+25° 02' 05"	14.0	Galaxy	0.008x0.004	Bootes	
IC 4442	14h 29m 32.5s	+28° 53' 06"	14.0	Galaxy	0.008x0.005	Bootes	
IC 4496	14h 44m 39.4s	+33° 19' 54"	14.0	Galaxy	0.008x0.006	Bootes	
IC 4509	14h 49m 12.4s	+31° 43' 02"	14.0	Galaxy	0.007x0.001	Bootes	
IC 5271	13h 42m 31.7s	+30° 02' 05"	14.1	Galaxy	0.007x0.005	Canes Venatici	
NGC 5553	14h 19m 18.2s	+26° 12' 17"	14.1	Galaxy	0.010x0.002	Bootes	
NGC 5581	14h 22m 05.5s	+23° 23' 54"	14.1	Galaxy	0.006x0.005	Bootes	
NGC 5780	14h 55m 08.8s	+28° 52' 03"	14.1	Galaxy	0.007x0.003	Bootes	
IC 1020	14h 29m 37.6s	+25° 57' 11"	14.1	Galaxy	0.01x0.0025	Bootes	
IC 4403	14h 19m 03.8s	+31° 34' 17"	14.1	Galaxy	0.009x0.004	Bootes	
IC 4452	14h 33m 15.0s	+27° 20' 55"	14.1	Galaxy	0.004x0.004	Bootes	
IC 4497	14h 45m 07.4s	+28° 28' 32"	14.1	Galaxy	0.004x0.004	Bootes	
IC 4514	14h 51m 42.3s	+27° 30' 18"	14.1	Galaxy	0.007x0.005	Bootes	
IC 911	13h 42m 16.2s	+23° 09' 27"	14.1	Galaxy	0.003x0.003	Bootes	
NGC 5259-1	13h 40m 13.9s	+30° 54' 01"	14.2	Galaxy	0.009x0.005	Canes Venatici	5259-1
NGC 5275	13h 43m 13.0s	+29° 44' 06"	14.2	Galaxy	0.005x0.005	Canes Venatici	
NGC 5512	14h 13m 28.6s	+30° 46' 18"	14.2	Galaxy	0.004x0.002	Bootes	
NGC 5572	14h 20m 20.6s	+36° 03' 31"	14.2	Galaxy	0.007x0.005	Bootes	
NGC 5594	14h 23m 58.6s	+26° 11' 07"	14.2	Galaxy	0.009x0.005	Bootes	
NGC 5646	14h 30m 18.7s	+35° 22' 57"	14.2	Galaxy	0.012x0.003	Bootes	
IC 4332	13h 50m 42.5s	+25° 06' 04"	14.2	Galaxy	0.006x0.006	Bootes	
IC 4371	14h 04m 58.1s	+33° 13' 20"	14.2	Galaxy	0.007x0.005	Canes Venatici	
IC 4408	14h 22m 00.4s	+29° 54' 44"	14.2	Galaxy	0.008x0.003	Bootes	
NGC 5613	14h 24m 51.4s	+34° 48' 42"	14.3	Galaxy	0.004x0.003	Bootes	
IC 4418	14h 26m 15.7s	+25° 26' 47"	14.3	Galaxy	0.005x0.003	Bootes	
IC 909	13h 41m 41.9s	+24° 22' 57"	14.3	Galaxy	0.003x0.003	Bootes	
NGC 5686	14h 36m 46.6s	+36° 25' 33"	14.4	Galaxy	0.005x0.005	Bootes	
IC 4322	13h 44m 34.5s	+25° 18' 10"	14.4	Galaxy	0.008x0.006	Bootes	
IC 4334	13h 50m 37.2s	+29° 36' 18"	14.4	Galaxy	0.004x0.004	Canes Venatici	
IC 4409	14h 22m 20.2s	+31° 30' 14"	14.4	Galaxy	0.006x0.002	Bootes	
IC 4425	14h 27m 32.3s	+27° 06' 34"	14.4	Galaxy	0.005x0.005	Bootes	
IC 4450	14h 32m 59.7s	+28° 28' 42"	14.4	Galaxy	0.01x0.004	Bootes	
IC 4461	14h 35m 48.2s	+26° 27' 14"	14.4	Galaxy	0.010x0.005	Bootes	
IC 4498	14h 45m 48.3s	+26° 13' 29"	14.4	Galaxy	0.004x0.004	Bootes	
IC 4504	14h 47m 22.4s	+31° 37' 30"	14.4	Galaxy	0.002x0.001	Bootes	
IC 4508-1	14h 48m 36.1s	+31° 41' 27"	14.4	Galaxy	0.003x0.003	Bootes	IC 4508-1
IC 916	13h 43m 28.7s	+24° 22' 31"	14.4	Galaxy	0.005x0.005	Bootes	
IC 941	13h 49m 26.1s	+23° 55' 35"	14.4	Galaxy	0.005x0.003	Bootes	

Table 71: Main objects visible on chart 64 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5277	13h 43m 27.7s	+29° 51' 50"	14.5	Galaxy	0.005x0.003	Canes Venatici	
IC 1006	14h 23m 48.2s	+23° 42' 49"	14.5	Galaxy	0.008x0.005	Bootes	
IC 1008A	14h 24m 30.3s	+28° 15' 58"	14.5	Galaxy	0.003x0.002	Bootes	IC 1008A
IC 4346	13h 56m 30.3s	+25° 03' 55"	14.5	Galaxy	0.007x0.005	Bootes	
IC 4349	13h 56m 36.1s	+25° 03' 52"	14.5	Galaxy	0.007x0.003	Bootes	
IC 4355	13h 58m 54.9s	+28° 20' 06"	14.5	Galaxy	0.004x0.002	Canes Venatici	
IC 4398	14h 18m 51.1s	+28° 47' 01"	14.5	Galaxy	0.004x0.004	Bootes	
IC 4399	14h 19m 12.6s	+26° 18' 13"	14.5	Galaxy	0.009x0.005	Bootes	
IC 4423	14h 27m 05.9s	+26° 09' 55"	14.5	Galaxy	0.009x0.005	Bootes	
IC 4530	15h 04m 32.3s	+26° 01' 50"	14.5	Galaxy	0.008x0.001	Bootes	
IC 914	13h 42m 31.5s	+23° 05' 58"	14.5	Galaxy	0.005x0.005	Bootes	
IC 5274	13h 43m 12.7s	+29° 45' 27"	14.6	Galaxy	0.003x0.003	Canes Venatici	
IC 1013	14h 28m 39.1s	+25° 45' 31"	14.6	Galaxy	0.005x0.002	Bootes	
IC 1019	14h 29m 01.6s	+25° 52' 02"	14.6	Galaxy	0.003x0.002	Bootes	
IC 4342	13h 55m 11.9s	+25° 03' 53"	14.6	Galaxy	0.006x0.002	Bootes	
IC 4373	14h 06m 32.5s	+25° 08' 48"	14.6	Galaxy	0.003x0.003	Bootes	
IC 4427	14h 27m 47.7s	+26° 47' 01"	14.6	Galaxy	0.006x0.002	Bootes	
IC 4532	15h 05m 41.6s	+23° 11' 14"	14.6	Galaxy	0.006x0.003	Bootes	
IC 913	13h 42m 20.6s	+23° 04' 35"	14.6	Galaxy	0.006x0.005	Bootes	
IC 961	13h 56m 36.3s	+25° 45' 09"	14.6	Galaxy	0.005x0.005	Bootes	
NGC 5568	14h 20m 07.1s	+35° 00' 36"	14.7	Galaxy	0.006x0.005	Bootes	
NGC 5615	14h 24m 51.9s	+34° 47' 04"	14.7	Galaxy	0.003x0.003	Bootes	
IC 1018	14h 29m 01.0s	+25° 45' 00"	14.7	Galaxy	0.005x0.003	Bootes	
IC 4317	13h 42m 35.9s	+27° 00' 58"	14.7	Galaxy	0.004x0.003	Bootes	
IC 4416	14h 25m 04.7s	+29° 33' 19"	14.7	Galaxy	0.003x0.003	Bootes	
IC 4420	14h 26m 27.9s	+25° 17' 54"	14.7	Galaxy	0.005x0.004	Bootes	
IC 4459	14h 35m 18.5s	+30° 53' 45"	14.7	Galaxy	0.004x0.001	Bootes	
IC 4517	14h 55m 23.2s	+23° 34' 14"	14.7	Galaxy	0.004x0.001	Bootes	
IC 4521	15h 00m 14.5s	+25° 30' 45"	14.7	Galaxy	0.004x0.002	Bootes	
NGC 5699	14h 39m 28.7s	+30° 23' 20"	14.8	Galaxy	0.003x0.002	Bootes	
IC 4331	13h 50m 14.9s	+25° 03' 55"	14.8	Galaxy	0.004x0.003	Bootes	
IC 4348	13h 56m 34.9s	+25° 06' 58"	14.8	Galaxy	0.004x0.004	Bootes	
IC 4382	14h 11m 51.4s	+25° 26' 06"	14.8	Galaxy	0.005x8.333	Bootes	
IC 4396	14h 18m 18.2s	+28° 43' 03"	14.8	Galaxy	0.005x0.004	Bootes	
IC 4477	14h 39m 22.3s	+28° 22' 55"	14.8	Galaxy	0.004x0.002	Bootes	
IC 4485	14h 41m 18.3s	+28° 35' 35"	14.8	Galaxy	0.005x0.003	Bootes	
IC 4506	14h 47m 24.6s	+33° 19' 37"	14.8	Galaxy	0.002x0.002	Bootes	
IC 4345	13h 56m 03.4s	+24° 57' 50"	14.9	Galaxy	0.007x0.007	Bootes	
IC 4460	14h 35m 23.1s	+30° 12' 04"	14.9	Galaxy	0.004x0.002	Bootes	
IC 4495	14h 45m 03.0s	+23° 28' 59"	14.9	Galaxy	0.004x0.002	Bootes	
IC 4524	15h 02m 53.3s	+25° 31' 50"	14.9	Galaxy	0.004x0.004	Bootes	
IC 4531	15h 05m 14.2s	+23° 20' 46"	14.9	Galaxy	0.006x0.004	Bootes	
NGC 5545	14h 17m 50.1s	+36° 29' 31"	15.0	Galaxy	0.008x0.002	Bootes	
IC 4512	14h 50m 41.1s	+27° 37' 35"	15.0	Galaxy	0.003x0.003	Bootes	
IC 4525	15h 03m 11.8s	+25° 34' 04"	15.1	Galaxy	0.003x0.003	Bootes	
IC 4370	14h 04m 57.1s	+33° 15' 39"	15.2	Galaxy	0.002x0.001	Canes Venatici	

Table 71: Main objects visible on chart 64 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4474	14h 39m 11.1s	+23° 21' 06"	15.2	Galaxy	0.005x0.003	Bootes	
IC 5287	13h 45m 41.8s	+29° 40' 52"	15.3	Galaxy	0.005x0.002	Canes Venatici	
IC 1008B	14h 24m 29.9s	+28° 15' 55"	15.3	Galaxy	0.001x0.001	Bootes	IC 1008B
IC 4520	14h 55m 51.2s	+33° 39' 08"	15.3	Galaxy	0.003x0.003	Bootes	
NGC 5639B	14h 29m 43.9s	+30° 19' 36"	15.4	Galaxy	0.002x0.001	Bootes	5639B
IC 4369	14h 04m 53.0s	+33° 14' 08"	15.4	Galaxy	0.003x0.002	Canes Venatici	
IC 5319	13h 51m 28.4s	+33° 40' 23"	15.5	Galaxy	0.005x0.001	Canes Venatici	
IC 4508-2	14h 48m 36.9s	+31° 41' 37"	15.5	Galaxy	0.001x0.001	Bootes	IC 4508-2
NGC 5441	14h 03m 58.7s	+34° 35' 54"	15.6	Galaxy	0.005x0.005	Canes Venatici	
NGC 5259-2	13h 40m 12.4s	+30° 54' 06"	15.7	Galaxy	0.002x0.001	Canes Venatici	5259-2
NGC 5609	14h 24m 33.8s	+34° 45' 42"	15.7	Galaxy	0.003x0.002	Bootes	
IC 4462	14h 35m 49.7s	+26° 27' 57"	15.8	Galaxy	0.002x0.002	Bootes	
IC 4526	15h 03m 26.2s	+23° 16' 52"	15.8	Galaxy	0.003x0.002	Bootes	

7.66 Main objects visible on chart 65

Table 72: Main objects visible on chart 65

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5958	15h 35m 33.9s	+28° 35' 46"	12.7	Galaxy	0.008x0.008	Corona Borealis	
NGC 6109	16h 18m 20.7s	+34° 57' 40"	12.7	Galaxy	0.008x0.008	Corona Borealis	
NGC 6086	16h 13m 18.8s	+29° 26' 24"	12.8	Galaxy	0.014x0.01	Corona Borealis	
NGC 5798	14h 58m 23.5s	+29° 53' 48"	13.0	Galaxy	0.011x0.007	Bootes	
NGC 5827	15h 02m 40.5s	+25° 53' 38"	13.0	Galaxy	0.009x0.006	Bootes	
NGC 6085	16h 13m 18.4s	+29° 19' 14"	13.0	Galaxy	0.0125x0.01	Corona Borealis	
NGC 6051	16h 05m 42.6s	+23° 53' 03"	13.1	Galaxy	0.013x0.009	Serpens Caput	
IC 1127	15h 35m 44.1s	+23° 26' 36"	13.2	Galaxy	0.015x0.014	Serpens Caput	
IC 4534	15h 07m 29.4s	+23° 34' 23"	13.2	Galaxy	0.012x0.007	Bootes	
NGC 6077	16h 11m 58.5s	+26° 52' 42"	13.3	Galaxy	0.01x0.009	Corona Borealis	
NGC 6104	16h 17m 10.4s	+35° 39' 50"	13.3	Galaxy	0.006x0.005	Corona Borealis	
NGC 5829	15h 03m 29.9s	+23° 15' 48"	13.4	Galaxy	0.014x0.012	Bootes	
NGC 5771	14h 53m 00.1s	+29° 46' 22"	13.6	Galaxy	0.006x0.005	Bootes	
NGC 5773	14h 53m 16.2s	+29° 44' 06"	13.6	Galaxy	0.007x0.007	Bootes	
NGC 5789	14h 57m 21.3s	+30° 09' 42"	13.6	Galaxy	0.007x0.006	Bootes	
NGC 6001	15h 48m 30.2s	+28° 35' 14"	13.6	Galaxy	0.008x0.008	Corona Borealis	
IC 4572	15h 42m 39.0s	+28° 04' 37"	13.7	Galaxy	0.008x0.005	Corona Borealis	
NGC 6089-1	16h 13m 21.7s	+32° 59' 25"	13.8	Galaxy	0.007x0.005	Corona Borealis	6089-1
NGC 6107	16h 18m 00.3s	+34° 51' 32"	13.8	Galaxy	0.012x0.009	Corona Borealis	
NGC 6075	16h 12m 08.4s	+23° 55' 10"	13.9	Galaxy	0.007x0.005	Hercules	
NGC 6097	16h 15m 06.4s	+35° 03' 53"	13.9	Galaxy	0.009x0.005	Corona Borealis	
NGC 6102	16h 16m 20.7s	+28° 06' 54"	13.9	Galaxy	0.01x0.006	Corona Borealis	
NGC 6103	16h 16m 26.4s	+31° 55' 12"	13.9	Galaxy	0.005x0.004	Corona Borealis	
IC 4533	15h 05m 16.5s	+27° 43' 26"	13.9	Galaxy	0.008x0.005	Bootes	
IC 4556	15h 36m 08.6s	+25° 14' 20"	13.9	Galaxy	0.006x0.004	Serpens Caput	
IC 4576	15h 43m 22.1s	+23° 36' 51"	13.9	Galaxy	0.008x0.005	Serpens Caput	

Table 72: Main objects visible on chart 65 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5991	15h 46m 02.9s	+24° 34' 32"	14.0	Galaxy	0.008x0.007	Serpens Caput	
NGC 6076-1	16h 11m 57.4s	+26° 49' 35"	14.0	Galaxy	0.003x0.003	Corona Borealis	6076-1
NGC 6112	16h 18m 40.6s	+35° 04' 04"	14.0	Galaxy	0.008x0.006	Corona Borealis	
IC 1124	15h 30m 47.9s	+23° 34' 39"	14.0	Galaxy	0.006x0.003	Serpens Caput	
IC 4569	15h 41m 33.0s	+28° 14' 08"	14.0	Galaxy	0.007x0.005	Corona Borealis	
IC 4582	15h 46m 24.1s	+28° 01' 60"	14.0	Galaxy	0.010x0.002	Corona Borealis	
NGC 5780	14h 55m 08.8s	+28° 52' 03"	14.1	Galaxy	0.007x0.003	Bootes	
NGC 5961	15h 35m 60.0s	+30° 48' 18"	14.1	Galaxy	0.006x0.002	Corona Borealis	
IC 4542	15h 22m 48.7s	+33° 05' 06"	14.1	Galaxy	0.006x0.004	Bootes	
IC 4570	15h 42m 07.2s	+28° 10' 20"	14.1	Galaxy	0.007x0.006	Corona Borealis	
NGC 5974	15h 39m 45.5s	+31° 42' 07"	14.2	Galaxy	0.005x0.002	Corona Borealis	
NGC 6016	15h 56m 39.8s	+26° 54' 57"	14.3	Galaxy	0.008x0.004	Corona Borealis	
NGC 6096	16h 15m 31.2s	+26° 30' 55"	14.3	Galaxy	0.007x0.003	Corona Borealis	
NGC 6114	16h 19m 03.5s	+35° 07' 54"	14.3	Galaxy	0.01x0.005	Corona Borealis	
NGC 6116	16h 19m 34.5s	+35° 06' 40"	14.3	Galaxy	0.018x0.007	Corona Borealis	
IC 4547	15h 27m 60.0s	+28° 43' 39"	14.3	Galaxy	0.005x0.005	Corona Borealis	
IC 4559	15h 36m 39.5s	+25° 16' 58"	14.3	Galaxy	0.003x0.002	Serpens Caput	
IC 4577	15h 43m 32.1s	+23° 44' 12"	14.3	Galaxy	0.006x0.006	Serpens Caput	
IC 4583	15h 47m 08.4s	+23° 45' 14"	14.3	Galaxy	0.008x0.002	Serpens Caput	
IC 4587	16h 00m 36.7s	+25° 53' 28"	14.3	Galaxy	0.003x0.003	Corona Borealis	
NGC 6076-2	16h 11m 58.2s	+26° 49' 41"	14.4	Galaxy	0.003x0.003	Corona Borealis	6076-2
NGC 6105	16h 17m 49.4s	+34° 50' 10"	14.4	Galaxy	0.005x0.003	Corona Borealis	
NGC 6108	16h 18m 05.6s	+35° 05' 33"	14.4	Galaxy	0.009x0.008	Corona Borealis	
IC 4561	15h 37m 33.1s	+25° 21' 28"	14.4	Galaxy	0.003x0.001	Serpens Caput	
IC 4581	15h 44m 46.0s	+28° 13' 15"	14.4	Galaxy	0.007x0.006	Corona Borealis	
NGC 6089-2	16h 13m 23.0s	+32° 59' 36"	14.5	Galaxy	0.002x0.002	Corona Borealis	6089-2
IC 1138	15h 49m 01.2s	+26° 09' 06"	14.5	Galaxy	0.007x0.001	Corona Borealis	
IC 4530	15h 04m 32.3s	+26° 01' 50"	14.5	Galaxy	0.008x0.001	Bootes	
IC 4546	15h 27m 43.4s	+28° 47' 24"	14.5	Galaxy	0.005x0.004	Corona Borealis	
IC 4568	15h 40m 52.4s	+28° 05' 41"	14.5	Galaxy	0.005x0.002	Corona Borealis	
IC 4580	15h 43m 58.9s	+28° 18' 01"	14.5	Galaxy	0.005x0.001	Corona Borealis	
NGC 5924	15h 22m 46.1s	+31° 10' 08"	14.6	Galaxy	0.006x0.002	Corona Borealis	
IC 4532	15h 05m 41.6s	+23° 11' 14"	14.6	Galaxy	0.006x0.003	Bootes	
IC 4549	15h 29m 57.8s	+32° 45' 53"	14.6	Galaxy	0.004x0.001	Bootes	
IC 4558	15h 36m 32.3s	+25° 17' 11"	14.6	Galaxy	0.002x0.001	Serpens Caput	
IC 4575	15h 43m 06.2s	+23° 45' 06"	14.6	Galaxy	0.005x0.005	Serpens Caput	
IC 1166-1	16h 02m 53.9s	+26° 16' 33"	14.7	Galaxy	0.003x0.001	Corona Borealis	IC 1166-1
IC 1166-2	16h 02m 54.0s	+26° 16' 48"	14.7	Galaxy	0.005x0.005	Corona Borealis	IC 1166-2
IC 4517	14h 55m 23.2s	+23° 34' 14"	14.7	Galaxy	0.004x0.001	Bootes	
IC 4521	15h 00m 14.5s	+25° 30' 45"	14.7	Galaxy	0.004x0.002	Bootes	
IC 4573	15h 42m 58.8s	+23° 44' 37"	14.7	Galaxy	0.003x0.001	Serpens Caput	
IC 4590	16h 09m 04.9s	+28° 25' 55"	14.7	Galaxy	0.002x0.002	Corona Borealis	
NGC 6110	16h 18m 24.0s	+35° 02' 40"	14.8	Galaxy	0.005x0.002	Corona Borealis	
IC 4574	15h 42m 43.9s	+28° 11' 00"	14.8	Galaxy	0.002x8.333	Corona Borealis	
IC 4524	15h 02m 53.3s	+25° 31' 50"	14.9	Galaxy	0.004x0.004	Bootes	
IC 4531	15h 05m 14.2s	+23° 20' 46"	14.9	Galaxy	0.006x0.004	Bootes	

Table 72: Main objects visible on chart 65 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4579	15h 43m 38.0s	+23° 43' 02"	14.9	Galaxy	0.005x0.004	Serpens Caput	
IC 4588	16h 05m 50.2s	+23° 52' 07"	15.0	Galaxy	0.002x0.002	Serpens Caput	
IC 4525	15h 03m 11.8s	+25° 34' 04"	15.1	Galaxy	0.003x0.003	Bootes	
IC 4542B	15h 22m 49.2s	+33° 05' 00"	15.1	Galaxy	0.002x8.333	Bootes	IC 4542B
IC 4520	14h 55m 51.2s	+33° 39' 08"	15.3	Galaxy	0.003x0.003	Bootes	
IC 4539	15h 19m 14.7s	+32° 19' 41"	15.3	Galaxy	0.003x0.003	Corona Borealis	
IC 4548	15h 28m 08.8s	+28° 47' 19"	15.6	Galaxy	0.002x0.002	Corona Borealis	
IC 4526	15h 03m 26.2s	+23° 16' 52"	15.8	Galaxy	0.003x0.002	Bootes	
IC 4554	15h 35m 51.6s	+23° 25' 14"	15.9	Galaxy	0.002x0.001	Serpens Caput	

7.67 Main objects visible on chart 66

Table 73: Main objects visible on chart 66

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6205	16h 42m 20.1s	+36° 25' 39"	5.8	Globular cluster	0.166x0.166	Hercules	M13, Hercules cluster
NGC 6210	16h 45m 14.8s	+23° 46' 06"	8.8	Planetary Nebula	0.002x0.002	Hercules	
NGC 6207	16h 43m 42.0s	+36° 47' 57"	11.6	Galaxy	0.025x0.01	Hercules	
NGC 6269	16h 58m 41.1s	+27° 49' 42"	12.2	Galaxy	0.016x0.013	Hercules	
NGC 6109	16h 18m 20.7s	+34° 57' 40"	12.7	Galaxy	0.008x0.008	Corona Borealis	
NGC 6086	16h 13m 18.8s	+29° 26' 24"	12.8	Galaxy	0.014x0.01	Corona Borealis	
NGC 6255	16h 55m 25.7s	+36° 28' 25"	12.8	Galaxy	0.03x0.0125	Hercules	
NGC 6196	16h 38m 32.7s	+36° 02' 17"	12.9	Galaxy	0.016x0.01	Hercules	
NGC 6364	17h 25m 09.3s	+29° 22' 33"	12.9	Galaxy	0.0125x0.01	Hercules	
NGC 6372	17h 28m 15.4s	+26° 27' 39"	12.9	Galaxy	0.014x0.009	Hercules	
NGC 6085	16h 13m 18.4s	+29° 19' 14"	13.0	Galaxy	0.0125x0.01	Corona Borealis	
NGC 6314	17h 13m 23.9s	+23° 15' 01"	13.0	Galaxy	0.013x0.005	Hercules	
NGC 6051	16h 05m 42.6s	+23° 53' 03"	13.1	Galaxy	0.013x0.009	Serpens Caput	
NGC 6315	17h 13m 31.3s	+23° 12' 12"	13.2	Galaxy	0.006x0.005	Hercules	
IC 1256	17h 24m 30.8s	+26° 28' 15"	13.2	Galaxy	0.013x0.009	Hercules	
NGC 6077	16h 11m 58.5s	+26° 52' 42"	13.3	Galaxy	0.01x0.009	Corona Borealis	
NGC 6104	16h 17m 10.4s	+35° 39' 50"	13.3	Galaxy	0.006x0.005	Corona Borealis	
NGC 6233	16h 51m 00.9s	+23° 33' 01"	13.3	Galaxy	0.011x0.008	Hercules	
NGC 6270	16h 59m 27.2s	+27° 49' 57"	13.3	Galaxy	0.005x0.003	Hercules	
NGC 6185	16h 33m 57.3s	+35° 18' 19"	13.4	Galaxy	0.01x0.0075	Hercules	
NGC 6308	17h 12m 44.9s	+23° 21' 32"	13.4	Galaxy	0.009x0.008	Hercules	
NGC 6126	16h 22m 07.0s	+36° 20' 08"	13.6	Galaxy	0.008x0.008	Corona Borealis	
NGC 6162	16h 29m 03.3s	+32° 48' 39"	13.6	Galaxy	0.007x0.005	Hercules	
NGC 6177	16h 31m 18.6s	+35° 01' 03"	13.6	Galaxy	0.014x0.01	Hercules	
IC 4630	16h 55m 53.3s	+26° 38' 08"	13.6	Galaxy	0.006x0.004	Hercules	
NGC 6263	16h 57m 26.2s	+27° 47' 43"	13.7	Galaxy	0.007x0.007	Hercules	
NGC 6089-1	16h 13m 21.7s	+32° 59' 25"	13.8	Galaxy	0.007x0.005	Corona Borealis	6089-1
NGC 6107	16h 18m 00.3s	+34° 51' 32"	13.8	Galaxy	0.012x0.009	Corona Borealis	
NGC 6194	16h 37m 15.9s	+36° 09' 54"	13.8	Galaxy	0.008x0.006	Hercules	
NGC 6274-1	17h 00m 02.4s	+29° 55' 13"	13.8	Galaxy	0.005x0.003	Hercules	6274-1

Table 73: Main objects visible on chart 66 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6075	16h 12m 08.4s	+23° 55' 10"	13.9	Galaxy	0.007x0.005	Hercules	
NGC 6097	16h 15m 06.4s	+35° 03' 53"	13.9	Galaxy	0.009x0.005	Corona Borealis	
NGC 6102	16h 16m 20.7s	+28° 06' 54"	13.9	Galaxy	0.01x0.006	Corona Borealis	
NGC 6103	16h 16m 26.4s	+31° 55' 12"	13.9	Galaxy	0.005x0.004	Corona Borealis	
IC 1244	17h 11m 11.7s	+36° 16' 57"	13.9	Galaxy	0.008x0.008	Hercules	
NGC 6076-1	16h 11m 57.4s	+26° 49' 35"	14.0	Galaxy	0.003x0.003	Corona Borealis	6076-1
NGC 6112	16h 18m 40.6s	+35° 04' 04"	14.0	Galaxy	0.008x0.006	Corona Borealis	
NGC 6228	16h 48m 46.9s	+26° 10' 55"	14.0	Galaxy	0.009x0.005	Hercules	
NGC 6261	16h 57m 13.5s	+27° 57' 03"	14.0	Galaxy	0.01x0.004	Hercules	
NGC 6330	17h 16m 26.5s	+29° 23' 06"	14.0	Galaxy	0.012x0.005	Hercules	
IC 1249	17h 15m 33.4s	+35° 30' 04"	14.0	Galaxy	0.005x0.005	Hercules	
NGC 6243	16h 53m 11.7s	+23° 18' 14"	14.1	Galaxy	0.008x0.003	Hercules	
NGC 6271	16h 59m 33.7s	+27° 56' 18"	14.1	Galaxy	0.006x0.005	Hercules	
NGC 6265	16h 58m 12.1s	+27° 49' 04"	14.2	Galaxy	0.006x0.004	Hercules	
NGC 6096	16h 15m 31.2s	+26° 30' 55"	14.3	Galaxy	0.007x0.003	Corona Borealis	
NGC 6114	16h 19m 03.5s	+35° 07' 54"	14.3	Galaxy	0.01x0.005	Corona Borealis	
NGC 6116	16h 19m 34.5s	+35° 06' 40"	14.3	Galaxy	0.018x0.007	Corona Borealis	
NGC 6349	17h 19m 44.5s	+36° 02' 37"	14.3	Galaxy	0.006x0.001	Hercules	
NGC 6371	17h 28m 04.1s	+26° 29' 27"	14.3	Galaxy	0.006x0.002	Hercules	
IC 4614	16h 38m 26.1s	+36° 04' 47"	14.3	Galaxy	0.006x0.005	Hercules	
NGC 6076-2	16h 11m 58.2s	+26° 49' 41"	14.4	Galaxy	0.003x0.003	Corona Borealis	6076-2
NGC 6105	16h 17m 49.4s	+34° 50' 10"	14.4	Galaxy	0.005x0.003	Corona Borealis	
NGC 6108	16h 18m 05.6s	+35° 05' 33"	14.4	Galaxy	0.009x0.008	Corona Borealis	
NGC 6163	16h 29m 08.8s	+32° 48' 29"	14.4	Galaxy	0.005x0.002	Hercules	
NGC 6203	16h 41m 12.7s	+23° 44' 29"	14.4	Galaxy	0.005x0.005	Hercules	
NGC 6282	17h 01m 29.0s	+29° 47' 41"	14.4	Galaxy	0.005x0.004	Hercules	
IC 1208	16h 16m 27.1s	+36° 29' 01"	14.4	Galaxy	0.008x0.001	Corona Borealis	
NGC 6089-2	16h 13m 23.0s	+32° 59' 36"	14.5	Galaxy	0.002x0.002	Corona Borealis	6089-2
NGC 6264	16h 57m 59.2s	+27° 49' 21"	14.5	Galaxy	0.005x0.003	Hercules	
NGC 6272	16h 59m 41.3s	+27° 54' 17"	14.5	Galaxy	0.004x0.002	Hercules	
NGC 6197	16h 38m 38.8s	+35° 57' 39"	14.6	Galaxy	0.010x0.004	Hercules	
NGC 6201	16h 40m 59.8s	+23° 43' 53"	14.6	Galaxy	0.003x0.002	Hercules	
NGC 6274-2	17h 00m 03.6s	+29° 54' 53"	14.7	Galaxy	0.005x0.001	Hercules	6274-2
IC 4590	16h 09m 04.9s	+28° 25' 55"	14.7	Galaxy	0.002x0.002	Corona Borealis	
NGC 6110	16h 18m 24.0s	+35° 02' 40"	14.8	Galaxy	0.005x0.002	Corona Borealis	
NGC 6161	16h 29m 01.7s	+32° 46' 17"	14.9	Galaxy	0.007x0.002	Hercules	
IC 4638	17h 01m 53.5s	+33° 29' 19"	14.9	Galaxy	0.006x0.006	Hercules	
IC 4588	16h 05m 50.2s	+23° 52' 07"	15.0	Galaxy	0.002x0.002	Serpens Caput	
IC 4607-1	16h 31m 01.0s	+24° 32' 11"	15.0	Galaxy	0.003x0.002	Hercules	IC 4607-1
NGC 6351	17h 19m 49.0s	+36° 02' 33"	15.2	Galaxy	0.005x0.003	Hercules	
IC 4617	16h 42m 46.6s	+36° 39' 03"	15.2	Galaxy	0.01x0.003	Hercules	
NGC 6179	16h 31m 26.6s	+35° 03' 54"	15.3	Galaxy	0.003x0.003	Hercules	

7.68 Main objects visible on chart 67

Table 74: Main objects visible on chart 67

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6487	17h 53m 23.3s	+29° 50' 08"	11.9	Galaxy	0.015x0.015	Hercules	
NGC 6632	18h 25m 46.0s	+27° 32' 49"	12.1	Galaxy	0.025x0.011	Hercules	
NGC 6661	18h 35m 22.0s	+22° 55' 28"	12.1	Galaxy	0.015x0.009	Hercules	
NGC 6674	18h 39m 18.0s	+25° 23' 29"	12.2	Galaxy	0.035x0.017	Hercules	
NGC 6484	17h 52m 31.2s	+24° 28' 47"	12.3	Galaxy	0.015x0.015	Hercules	
NGC 6504	17h 56m 45.2s	+33° 12' 25"	12.6	Galaxy	0.018x0.004	Hercules	
NGC 6600	18h 16m 27.1s	+24° 55' 12"	12.6	Galaxy	0.010x0.01	Hercules	
NGC 6688	18h 41m 17.9s	+36° 18' 26"	12.6	Galaxy	0.013x0.010	Lyra	
NGC 6575	18h 11m 38.4s	+31° 07' 16"	12.7	Galaxy	0.015x0.010	Hercules	
NGC 6447	17h 46m 55.3s	+35° 33' 59"	12.8	Galaxy	0.013x0.007	Hercules	
NGC 6671	18h 38m 09.8s	+26° 26' 02"	12.8	Galaxy	0.012x0.010	Lyra	
NGC 6364	17h 25m 09.3s	+29° 22' 33"	12.9	Galaxy	0.0125x0.01	Hercules	
NGC 6372	17h 28m 15.4s	+26° 27' 39"	12.9	Galaxy	0.014x0.009	Hercules	
NGC 6485	17h 52m 33.4s	+31° 27' 31"	12.9	Galaxy	0.012x0.011	Hercules	
NGC 6628	18h 23m 06.7s	+23° 29' 15"	12.9	Galaxy	0.015x0.010	Hercules	
NGC 6619	18h 19m 40.4s	+23° 39' 49"	13.0	Galaxy	0.01x0.009	Hercules	
NGC 6623-1	18h 20m 27.7s	+23° 43' 06"	13.0	Galaxy	0.010x0.01	Hercules	6623-1
NGC 6429	17h 44m 49.3s	+25° 20' 39"	13.1	Galaxy	0.015x0.005	Hercules	
NGC 6692	18h 42m 20.4s	+34° 51' 45"	13.2	Galaxy	0.008x0.005	Lyra	
IC 1256	17h 24m 30.8s	+26° 28' 15"	13.2	Galaxy	0.013x0.009	Hercules	
NGC 6427	17h 44m 22.4s	+25° 29' 13"	13.3	Galaxy	0.013x0.005	Hercules	
NGC 6513	18h 00m 18.5s	+24° 53' 15"	13.3	Galaxy	0.01x0.0075	Hercules	
NGC 6417	17h 42m 32.6s	+23° 39' 50"	13.4	Galaxy	0.011x0.010	Hercules	
IC 1277	18h 11m 08.2s	+31° 00' 29"	13.4	Galaxy	0.01x0.0075	Hercules	
NGC 6640	18h 28m 47.2s	+34° 18' 54"	13.5	Galaxy	0.009x0.006	Lyra	
NGC 6657	18h 33m 40.8s	+34° 04' 31"	13.5	Galaxy	0.008x0.005	Lyra	
IC 1279	18h 11m 53.3s	+36° 00' 45"	13.5	Galaxy	0.021x0.005	Hercules	
NGC 6547	18h 05m 54.0s	+25° 14' 07"	13.6	Galaxy	0.010x0.003	Hercules	
NGC 6662	18h 34m 51.7s	+32° 04' 47"	13.7	Galaxy	0.013x0.004	Lyra	
NGC 6602	18h 17m 18.3s	+25° 03' 04"	13.8	Galaxy	0.008x0.005	Hercules	
NGC 6518	18h 00m 25.7s	+28° 52' 02"	13.9	Galaxy	0.003x0.003	Hercules	
NGC 6665	18h 35m 11.2s	+30° 44' 10"	13.9	Galaxy	0.009x0.005	Lyra	
NGC 6330	17h 16m 26.5s	+29° 23' 06"	14.0	Galaxy	0.012x0.005	Hercules	
IC 1249	17h 15m 33.4s	+35° 30' 04"	14.0	Galaxy	0.005x0.005	Hercules	
NGC 6612	18h 16m 48.8s	+36° 05' 11"	14.2	Galaxy	0.005x0.005	Lyra	
NGC 6349	17h 19m 44.5s	+36° 02' 37"	14.3	Galaxy	0.006x0.001	Hercules	
NGC 6371	17h 28m 04.1s	+26° 29' 27"	14.3	Galaxy	0.006x0.002	Hercules	
NGC 6486	17h 53m 16.8s	+29° 48' 56"	14.3	Galaxy	0.006x0.006	Hercules	
NGC 6581	18h 13m 02.1s	+25° 40' 06"	14.3	Galaxy	0.003x0.003	Hercules	
IC 4697	18h 13m 10.9s	+25° 25' 58"	14.4	Galaxy	0.007x0.001	Hercules	
NGC 6623-2	18h 20m 27.5s	+23° 42' 39"	14.5	Galaxy	0.002x0.002	Hercules	6623-2
IC 1281	18h 12m 16.0s	+36° 00' 11"	14.9	Galaxy	0.004x0.002	Hercules	
NGC 6351	17h 19m 49.0s	+36° 02' 33"	15.2	Galaxy	0.005x0.003	Hercules	
NGC 6446	17h 46m 45.7s	+35° 33' 49"	15.2	Galaxy	0.005x0.005	Hercules	

7.69 Main objects visible on chart 68

Table 75: Main objects visible on chart 68

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Stock1	19h 36m 33.0s	+25° 15' 27"	5.3	Open cluster	0.5x0.5	Vulpecula	
NGC 6823	19h 43m 56.0s	+23° 20' 38"	7.1	Open cluster	0.058x0.058	Vulpecula	
NGC 6834	19h 52m 55.9s	+29° 27' 19"	7.8	Open cluster	0.05x0.05	Cygnus	
NGC 6830	19h 51m 46.3s	+23° 08' 49"	7.9	Open cluster	0.05x0.05	Vulpecula	
NGC 6779	19h 17m 17.6s	+30° 13' 06"	8.4	Globular cluster	0.073x0.073	Lyra	M56
NGC 6720	18h 54m 15.2s	+33° 03' 11"	8.8	Planetary Nebula	0.025x0.02	Lyra	M57, Ring nebula
NGC 6800	19h 27m 44.9s	+25° 07' 44"	12.0	Open cluster	0.041x0.041	Vulpecula	
NGC 6661	18h 35m 22.0s	+22° 55' 28"	12.1	Galaxy	0.015x0.009	Hercules	
NGC 6674	18h 39m 18.0s	+25° 23' 29"	12.2	Galaxy	0.035x0.017	Hercules	
NGC 6688	18h 41m 17.9s	+36° 18' 26"	12.6	Galaxy	0.013x0.010	Lyra	
NGC 6697	18h 45m 59.0s	+25° 31' 57"	12.7	Galaxy	0.01x0.008	Hercules	
NGC 6671	18h 38m 09.8s	+26° 26' 02"	12.8	Galaxy	0.012x0.010	Lyra	
NGC 6658	18h 34m 41.0s	+22° 54' 11"	12.9	Galaxy	0.013x0.002	Hercules	
NGC 6765	19h 11m 48.3s	+30° 34' 38"	12.9	Planetary Nebula	0.005x0.005	Lyra	
NGC 6700	18h 46m 44.8s	+32° 17' 59"	13.1	Galaxy	0.011x0.008	Lyra	
NGC 6710	18h 51m 17.5s	+26° 51' 39"	13.1	Galaxy	0.014x0.008	Lyra	
NGC 6842	19h 55m 45.8s	+29° 20' 17"	13.1	Planetary Nebula	0.007x0.007	Vulpecula	
NGC 6692	18h 42m 20.4s	+34° 51' 45"	13.2	Galaxy	0.008x0.005	Lyra	
IC 1302	19h 31m 32.2s	+35° 49' 26"	13.4	Galaxy	0.007x0.003	Cygnus	
NGC 6640	18h 28m 47.2s	+34° 18' 54"	13.5	Galaxy	0.009x0.006	Lyra	
NGC 6657	18h 33m 40.8s	+34° 04' 31"	13.5	Galaxy	0.008x0.005	Lyra	
NGC 6662	18h 34m 51.7s	+32° 04' 47"	13.7	Galaxy	0.013x0.004	Lyra	
NGC 6713	18h 51m 23.7s	+33° 58' 57"	13.7	Galaxy	0.003x0.002	Lyra	
NGC 6665	18h 35m 11.2s	+30° 44' 10"	13.9	Galaxy	0.009x0.005	Lyra	
NGC 6740	19h 01m 33.1s	+28° 47' 51"	13.9	Galaxy	0.007x0.006	Lyra	
IC 1296	18h 53m 58.9s	+33° 05' 23"	14.0	Galaxy	0.009x0.006	Lyra	
NGC 6846	19h 57m 10.1s	+32° 23' 51"	14.2	Open cluster	0.006x0.006	Cygnus	
IC 1303	19h 32m 09.5s	+35° 54' 54"	14.3	Galaxy	0.010x0.006	Cygnus	

7.70 Main objects visible on chart 69

Table 76: Main objects visible on chart 69

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6871	20h 07m 07.6s	+35° 50' 34"	5.2	Open cluster	0.25x0.25	Cygnus	
NGC 6940	20h 35m 17.5s	+28° 20' 35"	6.3	Open cluster	0.208x0.208	Vulpecula	
NGC 6823	19h 43m 56.0s	+23° 20' 38"	7.1	Open cluster	0.058x0.058	Vulpecula	
NGC 6834	19h 52m 55.9s	+29° 27' 19"	7.8	Open cluster	0.05x0.05	Cygnus	
NGC 6830	19h 51m 46.3s	+23° 08' 49"	7.9	Open cluster	0.05x0.05	Vulpecula	
NGC 6883	20h 11m 58.7s	+35° 54' 16"	8.0	Open cluster	0.291x0.291	Cygnus	
NGC 6885	20h 12m 43.3s	+26° 32' 17"	8.1	Open cluster	0.166x0.166	Vulpecula	CALDWELL 37
NGC 7013	21h 04m 19.3s	+29° 58' 08"	11.3	Galaxy	0.033x0.011	Cygnus	

Table 76: Main objects visible on chart 69 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6894	20h 17m 07.6s	+30° 37' 20"	12.3	Planetary Nebula	0.007x0.007	Cygnus	
IC 1310	20h 10m 42.2s	+35° 01' 20"	13.0	Open cluster	0.025x0.025	Cygnus	
NGC 6842	19h 55m 45.8s	+29° 20' 17"	13.1	Planetary Nebula	0.007x0.007	Vulpecula	
NGC 6921	20h 29m 15.0s	+25° 47' 04"	13.4	Galaxy	0.007x0.001	Vulpecula	
NGC 6846	19h 57m 10.1s	+32° 23' 51"	14.2	Open cluster	0.006x0.006	Cygnus	
NGC 6960	20h 46m 26.6s	+30° 46' 59"	-	Nebula	0.583x0.05	Cygnus	CALDWELL 34, Veil nebula
NGC 6992	20h 57m 02.7s	+31° 48' 41"	-	Nebula	0.5x0.066	Cygnus	CALDWELL 33

7.71 Main objects visible on chart 70

Table 77: Main objects visible on chart 70

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7063	21h 25m 06.2s	+36° 33' 53"	7.0	Open cluster	0.075x0.075	Cygnus	
NGC 7217	22h 08m 40.6s	+31° 26' 53"	10.1	Galaxy	0.033x0.028	Pegasus	
NGC 7013	21h 04m 19.3s	+29° 58' 08"	11.3	Galaxy	0.033x0.011	Cygnus	
IC 1392	21h 36m 17.9s	+35° 28' 47"	12.0	Galaxy	0.009x0.005	Cygnus	
NGC 7080	21h 30m 49.9s	+26° 47' 53"	12.3	Galaxy	0.015x0.014	Vulpecula	
NGC 7052	21h 19m 20.6s	+26° 31' 25"	12.6	Galaxy	0.017x0.009	Vulpecula	
NGC 7053	21h 21m 56.3s	+23° 09' 45"	13.1	Galaxy	0.011x0.010	Pegasus	
NGC 7224	22h 12m 25.3s	+25° 57' 15"	13.2	Galaxy	0.013x0.008	Pegasus	
NGC 7253A	22h 20m 16.9s	+29° 29' 16"	13.2	Galaxy	0.014x0.006	Pegasus	7253A
NGC 7116	21h 43m 28.3s	+29° 01' 46"	13.4	Galaxy	0.009x0.003	Cygnus	
NGC 7253B	22h 20m 19.6s	+29° 28' 43"	14.3	Galaxy	0.013x0.004	Pegasus	7253B
NGC 6992	20h 57m 02.7s	+31° 48' 41"	-	Nebula	0.5x0.066	Cygnus	CALDWELL 33

7.72 Main objects visible on chart 71

Table 78: Main objects visible on chart 71

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7331	22h 37m 54.6s	+34° 30' 51"	9.5	Galaxy	0.085x0.035	Pegasus	CALDWELL 30
NGC 7217	22h 08m 40.6s	+31° 26' 53"	10.1	Galaxy	0.033x0.028	Pegasus	
NGC 7332	22h 38m 16.2s	+23° 53' 31"	11.1	Galaxy	0.034x0.009	Pegasus	
NGC 7457	23h 01m 51.6s	+30° 14' 30"	11.2	Galaxy	0.035x0.019	Pegasus	
NGC 7265	22h 23m 15.6s	+36° 18' 06"	12.1	Galaxy	0.02x0.015	Lacerta	
NGC 7339	22h 38m 38.6s	+23° 52' 49"	12.2	Galaxy	0.023x0.005	Pegasus	
NGC 7426	22h 56m 53.5s	+36° 27' 31"	12.3	Galaxy	0.014x0.011	Lacerta	
NGC 7490	23h 08m 17.0s	+32° 28' 23"	12.3	Galaxy	0.022x0.021	Pegasus	
NGC 7286	22h 28m 40.6s	+29° 11' 20"	12.5	Galaxy	0.013x0.005	Pegasus	
NGC 7292	22h 29m 15.6s	+30° 23' 08"	12.5	Galaxy	0.017x0.013	Pegasus	
NGC 7315	22h 36m 20.9s	+34° 53' 51"	12.5	Galaxy	0.013x0.013	Pegasus	
NGC 7539	23h 15m 22.7s	+23° 46' 59"	12.5	Galaxy	0.0125x0.01	Pegasus	

Table 78: Main objects visible on chart 71 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7320	22h 36m 53.1s	+34° 02' 31"	12.6	Galaxy	0.018x0.009	Pegasus	
NGC 7436	22h 58m 48.4s	+26° 14' 47"	12.6	Galaxy	0.016x0.016	Pegasus	
NGC 7514	23h 13m 17.4s	+34° 58' 45"	12.6	Galaxy	0.011x0.007	Pegasus	
NGC 7680-1	23h 29m 28.5s	+32° 30' 53"	12.6	Galaxy	0.015x0.015	Pegasus	7680-1
NGC 7512	23h 13m 13.3s	+31° 13' 25"	12.7	Galaxy	0.012x0.008	Pegasus	
NGC 7628	23h 21m 48.4s	+25° 59' 51"	12.7	Galaxy	0.009x0.007	Pegasus	
NGC 7660	23h 26m 42.3s	+27° 07' 44"	12.7	Galaxy	0.011x0.009	Pegasus	
NGC 7664	23h 27m 33.4s	+25° 10' 46"	12.7	Galaxy	0.021x0.012	Pegasus	
NGC 7274	22h 24m 59.2s	+36° 13' 05"	12.8	Galaxy	0.012x0.012	Lacerta	
NGC 7303	22h 32m 22.9s	+31° 02' 58"	12.8	Galaxy	0.012x0.009	Pegasus	
NGC 7673	23h 28m 35.1s	+23° 41' 18"	12.8	Galaxy	0.010x0.01	Pegasus	
IC 1473	23h 11m 57.7s	+29° 44' 28"	12.9	Galaxy	0.017x0.008	Pegasus	
NGC 7318B	22h 36m 47.9s	+34° 03' 37"	13.1	Galaxy	0.013x0.009	Pegasus	7318B
NGC 7319	22h 36m 53.1s	+34° 04' 12"	13.1	Galaxy	0.011x0.009	Pegasus	
NGC 7407	22h 54m 12.0s	+32° 13' 33"	13.1	Galaxy	0.016x0.007	Pegasus	
NGC 7485	23h 06m 56.4s	+34° 12' 20"	13.1	Galaxy	0.01x0.005	Pegasus	
NGC 7620	23h 20m 59.1s	+24° 19' 10"	13.1	Galaxy	0.009x0.009	Pegasus	
NGC 7624	23h 21m 15.8s	+27° 24' 49"	13.1	Galaxy	0.008x0.005	Pegasus	
NGC 7224	22h 12m 25.3s	+25° 57' 15"	13.2	Galaxy	0.013x0.008	Pegasus	
NGC 7253A	22h 20m 16.9s	+29° 29' 16"	13.2	Galaxy	0.014x0.006	Pegasus	7253A
NGC 7543	23h 15m 27.3s	+28° 25' 34"	13.2	Galaxy	0.009x0.007	Pegasus	
NGC 7677	23h 29m 00.0s	+23° 37' 50"	13.2	Galaxy	0.013x0.008	Pegasus	
NGC 7335	22h 38m 09.0s	+34° 32' 32"	13.3	Galaxy	0.01x0.005	Pegasus	
NGC 7527	23h 14m 34.8s	+25° 00' 04"	13.3	Galaxy	0.010x0.007	Pegasus	
NGC 7548	23h 16m 04.3s	+25° 22' 49"	13.3	Galaxy	0.009x0.007	Pegasus	
NGC 7318A	22h 36m 46.3s	+34° 03' 35"	13.4	Galaxy	0.01x0.008	Pegasus	7318A
NGC 7489	23h 08m 25.6s	+23° 05' 44"	13.4	Galaxy	0.017x0.009	Pegasus	
NGC 7343	22h 39m 27.5s	+34° 09' 57"	13.5	Galaxy	0.008x0.006	Pegasus	
NGC 7440	22h 59m 23.3s	+35° 53' 59"	13.5	Galaxy	0.011x0.009	Andromeda	
NGC 7466	23h 02m 55.7s	+27° 09' 00"	13.5	Galaxy	0.012x0.004	Pegasus	
NGC 7487	23h 07m 42.9s	+28° 16' 37"	13.5	Galaxy	0.016x0.015	Pegasus	
IC 5315	23h 22m 11.7s	+25° 29' 05"	13.5	Galaxy	0.005x0.005	Pegasus	
NGC 7317	22h 36m 41.5s	+34° 02' 20"	13.6	Galaxy	0.003x0.003	Pegasus	Stephan's quintet
NGC 7574	23h 17m 18.2s	+24° 35' 44"	13.6	Galaxy	0.007x0.005	Pegasus	
NGC 7340	22h 38m 33.7s	+34° 30' 16"	13.7	Galaxy	0.007x0.005	Pegasus	
NGC 7369	22h 45m 02.2s	+34° 26' 47"	13.7	Galaxy	0.011x0.009	Pegasus	
NGC 7473	23h 04m 49.1s	+30° 15' 26"	13.7	Galaxy	0.009x0.004	Pegasus	
IC 5242	22h 42m 07.0s	+23° 30' 05"	13.7	Galaxy	0.006x0.006	Pegasus	
NGC 7264	22h 23m 01.5s	+36° 28' 42"	13.8	Galaxy	0.018x0.002	Lacerta	
NGC 7273	22h 24m 57.3s	+36° 17' 31"	13.8	Galaxy	0.006x0.004	Lacerta	
NGC 7363	22h 44m 08.5s	+34° 05' 36"	13.8	Galaxy	0.009x0.007	Pegasus	
IC 5233	22h 37m 24.2s	+25° 51' 26"	13.8	Galaxy	0.008x0.006	Pegasus	
NGC 7276	22h 25m 02.6s	+36° 10' 47"	13.9	Galaxy	0.007x0.007	Lacerta	
NGC 7342	22h 39m 02.6s	+35° 35' 33"	13.9	Galaxy	0.010x0.010	Pegasus	
NGC 7420	22h 56m 23.5s	+29° 54' 07"	13.9	Galaxy	0.006x0.005	Pegasus	
NGC 7270	22h 24m 36.6s	+32° 29' 41"	14.0	Galaxy	0.007x0.005	Pegasus	

Table 78: Main objects visible on chart 71 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7356	22h 42m 52.9s	+30° 48' 14"	14.0	Galaxy	0.009x0.004	Pegasus	
NGC 7357	22h 43m 14.6s	+30° 15' 60"	14.0	Galaxy	0.012x0.005	Pegasus	
NGC 7439	22h 59m 01.7s	+29° 19' 32"	14.0	Galaxy	0.008x0.005	Pegasus	
IC 5298	23h 16m 53.8s	+25° 39' 20"	14.0	Galaxy	0.005x0.005	Pegasus	
NGC 7435	22h 58m 46.6s	+26° 14' 08"	14.2	Galaxy	0.01x0.005	Pegasus	
NGC 7253B	22h 20m 19.6s	+29° 28' 43"	14.3	Galaxy	0.013x0.004	Pegasus	7253B
NGC 7275	22h 25m 06.5s	+32° 32' 19"	14.3	Galaxy	0.007x0.001	Pegasus	
NGC 7345	22h 39m 34.3s	+35° 38' 05"	14.3	Galaxy	0.01x0.001	Pegasus	
NGC 7337	22h 38m 16.2s	+34° 28' 04"	14.4	Galaxy	0.008x0.006	Pegasus	
NGC 7336	22h 38m 11.4s	+34° 34' 34"	14.5	Galaxy	0.006x0.003	Pegasus	
IC 5231	22h 34m 52.2s	+23° 25' 57"	14.5	Galaxy	0.008x0.007	Pegasus	
IC 5243	22h 42m 16.4s	+23° 28' 12"	14.5	Galaxy	0.005x0.005	Pegasus	
NGC 7263-1	22h 22m 33.2s	+36° 26' 27"	14.6	Galaxy	0.006x0.005	Lacerta	7263-1
IC 5293	23h 15m 37.8s	+25° 14' 22"	14.6	Galaxy	0.003x0.001	Pegasus	
IC 5296	23h 16m 36.9s	+25° 11' 33"	14.6	Galaxy	0.007x0.005	Pegasus	
IC 5297	23h 16m 51.6s	+25° 07' 27"	14.6	Galaxy	0.002x0.002	Pegasus	
NGC 7436B	22h 58m 48.3s	+26° 14' 47"	14.7	Galaxy	0.005x0.001	Pegasus	7436B
IC 1476	23h 15m 08.9s	+30° 39' 01"	14.7	Galaxy	0.005x0.005	Pegasus	
IC 5295	23h 16m 22.3s	+25° 13' 10"	14.7	Galaxy	0.005x0.004	Pegasus	
NGC 7320B	22h 38m 17.8s	+34° 01' 02"	14.8	Galaxy	0.005x0.001	Pegasus	7320B
NGC 7433	22h 58m 43.9s	+26° 15' 32"	14.9	Galaxy	0.005x0.001	Pegasus	
NGC 7263-2	22h 22m 34.0s	+36° 26' 37"	15.0	Galaxy	0.003x0.003	Lacerta	7263-2
NGC 7320A	22h 37m 21.8s	+33° 53' 23"	15.0	Galaxy	0.003x0.001	Pegasus	7320A
NGC 7431	22h 58m 31.0s	+26° 15' 40"	15.0	Galaxy	0.003x0.001	Pegasus	
NGC 7680-2	23h 29m 24.8s	+32° 31' 19"	15.0	Galaxy	0.001x0.001	Pegasus	7680-2
NGC 7320C	22h 37m 09.9s	+34° 04' 45"	15.5	Galaxy	0.005x0.003	Pegasus	
NGC 7271	22h 24m 46.7s	+32° 27' 33"	15.6	Galaxy	0.005x0.002	Pegasus	

7.73 Main objects visible on chart 72

Table 79: Main objects visible on chart 72

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7814	00h 04m 10.3s	+16° 14' 44"	10.6	Galaxy	0.045x0.019	Pegasus	CALDWELL 43
NGC 5749	00h 16m 26.8s	+17° 25' 45"	11.6	Galaxy	0.018x0.015	Pisces	
NGC 6397	00h 18m 41.2s	+11° 32' 60"	11.7	Galaxy	0.014x0.01	Pisces	CALDWELL 86
NGC 7678	23h 29m 21.8s	+22° 31' 13"	11.8	Galaxy	0.020x0.014	Pegasus	
NGC 7817	00h 04m 54.0s	+20° 51' 03"	11.8	Galaxy	0.029x0.008	Pegasus	
NGC 7769	23h 51m 59.1s	+20° 15' 03"	12.0	Galaxy	0.026x0.022	Pegasus	
NGC 1444	00h 09m 41.9s	+15° 54' 57"	12.1	Galaxy	0.023x0.017	Pegasus	
NGC 7625	23h 21m 24.3s	+17° 19' 32"	12.1	Galaxy	0.013x0.011	Pegasus	
NGC 80	00h 22m 07.2s	+22° 27' 27"	12.1	Galaxy	0.013x0.013	Andromeda	
NGC 7711	23h 36m 34.1s	+15° 24' 05"	12.2	Galaxy	0.021x0.010	Pegasus	
NGC 7771	23h 52m 19.6s	+20° 12' 45"	12.3	Galaxy	0.02x0.009	Pegasus	
NGC 1691	00h 37m 48.8s	+24° 05' 25"	12.4	Galaxy	0.021x0.005	Andromeda	

Table 79: Main objects visible on chart 72 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7722	23h 39m 35.6s	+16° 03' 16"	12.4	Galaxy	0.014x0.011	Pegasus	
NGC 7798	00h 00m 20.9s	+20° 51' 01"	12.4	Galaxy	0.011x0.010	Pegasus	
NGC 7683	23h 29m 58.5s	+11° 32' 41"	12.5	Galaxy	0.015x0.007	Pegasus	
NGC 7772	23h 52m 40.1s	+16° 20' 55"	12.5	Open cluster	0.041x0.041	Pegasus	
NGC 7800	00h 00m 32.4s	+14° 54' 28"	12.5	Galaxy	0.019x0.013	Pegasus	
NGC 835	00h 22m 18.9s	+22° 32' 02"	12.5	Galaxy	0.012x0.012	Andromeda	
NGC 1605	00h 37m 01.2s	+24° 03' 25"	12.7	Galaxy	0.019x0.01	Andromeda	
NGC 7653	23h 25m 43.5s	+15° 22' 29"	12.7	Galaxy	0.013x0.012	Pegasus	
NGC 7712	23h 36m 45.8s	+23° 43' 05"	12.7	Galaxy	0.007x0.006	Pegasus	
NGC 7671	23h 28m 13.9s	+12° 34' 01"	12.8	Galaxy	0.011x0.006	Pegasus	
NGC 7673	23h 28m 35.1s	+23° 41' 18"	12.8	Galaxy	0.010x0.01	Pegasus	
NGC 7691	23h 33m 19.1s	+15° 56' 54"	12.9	Galaxy	0.017x0.013	Pegasus	
NGC 7810	00h 03m 14.5s	+13° 04' 19"	13.0	Galaxy	0.01x0.0075	Pegasus	
NGC 7620	23h 20m 59.1s	+24° 19' 10"	13.1	Galaxy	0.009x0.009	Pegasus	
NGC 7803	00h 02m 15.4s	+13° 12' 42"	13.1	Galaxy	0.008x0.005	Pegasus	
IC 4	00h 14m 22.8s	+17° 35' 09"	13.1	Galaxy	0.008x0.007	Pegasus	
NGC 1052	00h 26m 12.9s	+12° 58' 59"	13.2	Galaxy	0.009x0.005	Pisces	
NGC 7643	23h 23m 44.9s	+12° 05' 15"	13.2	Galaxy	0.011x0.005	Pegasus	
NGC 7677	23h 29m 00.0s	+23° 37' 50"	13.2	Galaxy	0.013x0.008	Pegasus	
NGC 7774	23h 53m 05.8s	+11° 34' 14"	13.2	Galaxy	0.008x0.005	Pegasus	
NGC 936	00h 22m 59.7s	+22° 30' 31"	13.2	Galaxy	0.011x0.005	Andromeda	
NGC 1003	00h 24m 58.7s	+16° 35' 10"	13.3	Galaxy	0.035x0.004	Pisces	
NGC 7786	23h 56m 16.9s	+21° 41' 20"	13.3	Galaxy	0.008x0.005	Pegasus	
IC 1508	23h 46m 50.1s	+12° 09' 40"	13.3	Galaxy	0.016x0.004	Pegasus	
NGC 5281	00h 15m 35.9s	+18° 40' 54"	13.4	Galaxy	0.018x0.003	Pegasus	
NGC 7703	23h 35m 41.4s	+16° 10' 32"	13.4	Galaxy	0.018x0.004	Pegasus	
IC 1543	00h 21m 51.9s	+21° 57' 55"	13.4	Galaxy	0.005x0.005	Andromeda	
NGC 957	00h 09m 50.3s	+23° 55' 04"	13.5	Galaxy	0.009x0.005	Pegasus	
NGC 7647	23h 24m 51.6s	+16° 52' 36"	13.6	Galaxy	0.011x0.008	Pegasus	
IC 5378-1	00h 03m 33.3s	+16° 44' 40"	13.6	Galaxy	0.009x0.007	Pegasus	IC 5378-1
NGC 1097	00h 27m 11.1s	+21° 54' 26"	13.7	Galaxy	0.009x0.008	Andromeda	CALDWELL 67
NGC 4103	00h 13m 43.9s	+22° 07' 26"	13.7	Galaxy	0.006x0.004	Pegasus	
NGC 908	00h 22m 47.9s	+22° 30' 01"	13.7	Galaxy	0.015x0.006	Andromeda	
NGC 991	00h 24m 55.7s	+15° 52' 11"	13.7	Galaxy	0.008x0.007	Pisces	
IC 1544	00h 22m 13.9s	+23° 11' 26"	13.7	Galaxy	0.01x0.006	Andromeda	
IC 5338	23h 37m 24.8s	+21° 14' 42"	13.7	Galaxy	0.008x0.005	Pegasus	
NGC 1545	00h 09m 58.1s	+21° 43' 30"	13.8	Galaxy	0.008x0.005	Pegasus	
NGC 4258	00h 13m 52.2s	+22° 12' 03"	13.8	Galaxy	0.009x0.005	Pegasus	M106
NGC 7770	23h 52m 17.5s	+20° 11' 50"	13.8	Galaxy	0.005x0.003	Pegasus	
NGC 7641	23h 23m 25.3s	+11° 59' 33"	13.9	Galaxy	0.014x0.004	Pegasus	
NGC 7672	23h 28m 26.0s	+12° 29' 03"	13.9	Galaxy	0.006x0.005	Pegasus	
NGC 7597	23h 19m 24.2s	+18° 47' 13"	14.0	Galaxy	0.008x0.008	Pegasus	
NGC 7649	23h 25m 14.5s	+14° 44' 46"	14.0	Galaxy	0.010x0.008	Pegasus	
NGC 7659	23h 26m 50.0s	+14° 18' 32"	14.0	Galaxy	0.006x0.002	Pegasus	
NGC 7688	23h 31m 59.6s	+21° 30' 41"	14.0	Galaxy	0.003x0.002	Pegasus	
NGC 794	00h 21m 59.1s	+22° 40' 01"	14.0	Galaxy	0.005x0.005	Andromeda	

Table 79: Main objects visible on chart 72 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1559	00h 37m 49.3s	+24° 05' 02"	14.0	Galaxy	0.003x0.002	Andromeda	
NGC 7792	23h 58m 58.9s	+16° 36' 08"	14.1	Galaxy	0.008x0.006	Pegasus	
IC 1540	00h 20m 45.1s	+23° 52' 20"	14.1	Galaxy	0.007x0.003	Andromeda	
IC 1542	00h 21m 37.7s	+22° 41' 33"	14.1	Galaxy	0.005x0.004	Andromeda	
IC 5317	23h 24m 22.6s	+21° 15' 44"	14.1	Galaxy	0.008x0.005	Pegasus	
IC 5331	23h 34m 19.2s	+21° 13' 46"	14.1	Galaxy	0.008x0.002	Pegasus	
IC 5381	00h 04m 06.6s	+16° 03' 56"	14.1	Galaxy	0.010x0.002	Pegasus	
NGC 7630	23h 22m 10.8s	+11° 29' 47"	14.3	Galaxy	0.009x0.003	Pegasus	
IC 1513	23h 54m 24.4s	+11° 25' 05"	14.3	Galaxy	0.008x0.002	Pegasus	
IC 31	00h 35m 20.7s	+12° 22' 04"	14.3	Galaxy	0.013x0.002	Pisces	
NGC 7602	23h 19m 37.4s	+18° 47' 51"	14.4	Galaxy	0.005x0.005	Pegasus	
IC 1526	00h 02m 26.9s	+11° 26' 49"	14.4	Galaxy	0.004x0.002	Pegasus	
IC 5312	23h 21m 52.1s	+19° 25' 03"	14.4	Galaxy	0.003x0.002	Pegasus	
NGC 7784	23h 56m 08.8s	+21° 51' 47"	14.5	Galaxy	0.004x0.004	Pegasus	
IC 1541	00h 20m 58.2s	+22° 06' 01"	14.5	Galaxy	0.005x0.001	Andromeda	
NGC 7639	23h 23m 42.8s	+11° 28' 20"	14.6	Galaxy	0.004x0.003	Pegasus	
94-1	00h 23m 09.9s	+22° 34' 59"	14.6	Galaxy	0.003x0.001	Andromeda	94-1
NGC 968	00h 23m 14.1s	+22° 38' 47"	14.6	Galaxy	0.005x0.005	Andromeda	
IC 1518	23h 58m 01.3s	+12° 33' 57"	14.6	Galaxy	0.002x0.001	Pegasus	
IC 1519	23h 58m 03.6s	+12° 33' 30"	14.6	Galaxy	0.005x0.005	Pegasus	
IC 1552	00h 30m 40.5s	+21° 34' 33"	14.6	Galaxy	0.007x0.001	Pisces	
IC 5337	23h 37m 19.5s	+21° 14' 60"	14.6	Galaxy	0.006x8.333	Pegasus	
IC 5378-2	00h 03m 33.0s	+16° 45' 07"	14.6	Galaxy	0.013x0.011	Pegasus	IC 5378-2
NGC 7651-2	23h 25m 20.0s	+14° 03' 59"	14.7	Galaxy	0.003x0.001	Pegasus	7651-2
IC 1546	00h 22m 25.4s	+22° 36' 22"	14.7	Galaxy	0.007x0.002	Andromeda	
IC 1548	00h 22m 51.4s	+22° 06' 24"	14.7	Galaxy	0.007x0.005	Andromeda	
IC 5314	23h 22m 02.4s	+19° 24' 39"	14.7	Galaxy	0.004x0.004	Pegasus	
IC 5329	23h 34m 04.0s	+21° 20' 11"	14.7	Galaxy	0.014x0.001	Pegasus	
IC 5377	00h 03m 00.9s	+16° 41' 27"	14.7	Galaxy	0.008x0.005	Pegasus	
NGC 7651-1	23h 25m 20.3s	+14° 04' 17"	14.8	Galaxy	0.005x0.004	Pegasus	7651-1
NGC 7681	23h 29m 49.1s	+17° 24' 32"	14.8	Galaxy	0.015x0.012	Pegasus	
NGC 855	00h 22m 21.8s	+22° 36' 43"	14.8	Galaxy	0.005x0.004	Andromeda	
NGC 869	00h 22m 24.9s	+22° 39' 22"	14.8	Galaxy	0.005x0.002	Andromeda	CALDWELL 14, Double cluster
IC 1488	23h 26m 32.9s	+15° 27' 11"	14.8	Galaxy	0.007x0.001	Pegasus	
NGC 7598	23h 19m 27.2s	+18° 50' 54"	14.9	Galaxy	0.002x0.001	Pegasus	
NGC 7638	23h 23m 27.6s	+11° 25' 42"	14.9	Galaxy	0.005x0.005	Pegasus	
IC 5319	23h 25m 43.3s	+14° 05' 46"	15.1	Galaxy	0.002x0.002	Pegasus	
IC 5336-1	23h 37m 13.1s	+21° 11' 57"	15.2	Galaxy	0.002x0.001	Pegasus	IC 5336-1
IC 5336-2	23h 37m 14.8s	+21° 11' 47"	15.2	Galaxy	0.002x0.001	Pegasus	IC 5336-2
IC 5379	00h 03m 36.3s	+16° 42' 04"	15.2	Galaxy	0.003x0.001	Pegasus	
IC 5316	23h 22m 47.8s	+21° 18' 07"	15.3	Galaxy	0.002x0.002	Pegasus	
IC 1493	23h 31m 22.0s	+14° 33' 28"	15.4	Galaxy	0.004x0.002	Pegasus	
94-2	00h 23m 10.1s	+22° 34' 25"	15.5	Galaxy	0.003x0.001	Andromeda	94-2
NGC 812	00h 22m 09.5s	+22° 28' 59"	15.7	Galaxy	0.001x8.333	Andromeda	
IC 1545	00h 22m 17.1s	+22° 05' 01"	15.7	Galaxy	0.002x0.001	Andromeda	

Table 79: Main objects visible on chart 72 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5367	23h 59m 34.1s	+22° 32' 60"	16.0	Galaxy	0.004x0.002	Pegasus	

7.74 Main objects visible on chart 73

Table 80: Main objects visible on chart 73

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 628	01h 37m 39.9s	+15° 52' 29"	9.4	Galaxy	0.087x0.079	Pisces	M74
NGC 6605	01h 43m 59.7s	+13° 44' 02"	11.2	Galaxy	0.069x0.026	Pisces	
NGC 6913	01h 51m 41.5s	+21° 50' 56"	11.4	Galaxy	0.028x0.020	Aries	M29
NGC 514	01h 25m 01.2s	+13° 00' 38"	11.7	Galaxy	0.030x0.025	Pisces	
NGC 6809	01h 50m 47.2s	+22° 03' 36"	11.9	Galaxy	0.015x0.013	Aries	M55
NGC 697	01h 52m 17.5s	+22° 26' 46"	12.0	Galaxy	0.033x0.010	Aries	
NGC 6779	01h 50m 11.9s	+13° 08' 41"	12.2	Galaxy	0.016x0.016	Aries	M56
NGC 6782	01h 50m 24.6s	+22° 05' 09"	12.2	Galaxy	0.037x0.006	Aries	
NGC 1691	00h 37m 48.8s	+24° 05' 25"	12.4	Galaxy	0.021x0.005	Andromeda	
NGC 4736	01h 20m 52.7s	+16° 38' 21"	12.5	Galaxy	0.015x0.01	Pisces	M94
NGC 6584	01h 43m 07.5s	+12° 41' 30"	12.5	Galaxy	0.025x0.013	Pisces	
NGC 2343	00h 44m 28.8s	+14° 26' 27"	12.6	Galaxy	0.0125x0.01	Pisces	
NGC 6730	01h 49m 20.0s	+11° 36' 38"	12.6	Galaxy	0.017x0.014	Aries	
NGC 1605	00h 37m 01.2s	+24° 03' 25"	12.7	Galaxy	0.019x0.01	Andromeda	
NGC 5750	01h 31m 45.4s	+21° 31' 58"	12.8	Galaxy	0.014x0.013	Pisces	
NGC 6952	01h 52m 14.2s	+22° 40' 17"	12.8	Galaxy	0.006x0.005	Aries	
IC 148	01h 43m 24.9s	+14° 04' 01"	12.8	Galaxy	0.029x0.009	Pisces	
IC 107	01h 26m 22.4s	+14° 57' 29"	12.9	Galaxy	0.008x0.005	Pisces	
IC 163	01h 50m 14.6s	+20° 47' 58"	13.0	Galaxy	0.015x0.007	Aries	
NGC 3041	00h 57m 04.0s	+24° 13' 28"	13.1	Galaxy	0.009x0.005	Andromeda	
IC 167	01h 52m 08.4s	+22° 00' 04"	13.1	Galaxy	0.022x0.015	Aries	
NGC 2516	00h 48m 51.1s	+19° 41' 42"	13.2	Galaxy	0.02x0.015	Pisces	CALDWELL 96
NGC 2808	00h 53m 28.1s	+24° 26' 54"	13.3	Galaxy	0.014x0.009	Andromeda	
IC 4715	01h 20m 57.1s	+14° 52' 48"	13.3	Galaxy	0.008x0.005	Pisces	M24, Sagittarius Star Cloud
NGC 6716	01h 47m 57.0s	+13° 12' 53"	13.3	Galaxy	0.012x0.004	Aries	
IC 1704	01h 28m 07.2s	+14° 52' 08"	13.3	Galaxy	0.009x0.006	Pisces	
NGC 6067	01h 35m 49.5s	+21° 30' 35"	13.4	Galaxy	0.011x0.01	Pisces	
IC 1620	01h 08m 11.1s	+14° 03' 03"	13.4	Galaxy	0.008x0.005	Pisces	
NGC 2136	00h 42m 06.5s	+16° 34' 06"	13.5	Galaxy	0.0125x0.01	Pisces	
NGC 3549	01h 04m 14.4s	+22° 26' 21"	13.5	Galaxy	0.006x0.003	Pisces	
IC 1698	01h 26m 19.8s	+14° 55' 54"	13.5	Galaxy	0.010x0.003	Pisces	
NGC 6834	01h 50m 44.3s	+11° 47' 27"	13.6	Galaxy	0.008x0.008	Aries	
IC 1702	01h 26m 54.2s	+16° 41' 39"	13.6	Galaxy	0.01x0.008	Pisces	
IC 1711	01h 31m 53.5s	+17° 16' 52"	13.6	Galaxy	0.021x0.004	Pisces	
NGC 2287	00h 43m 51.8s	+23° 36' 06"	13.7	Galaxy	0.01x0.009	Andromeda	M41
IC 5117	01h 24m 27.8s	+11° 23' 04"	13.7	Galaxy	0.009x0.009	Pisces	
NGC 5694	01h 30m 04.3s	+11° 13' 28"	13.7	Galaxy	0.008x0.004	Pisces	CALDWELL 66
NGC 6940	01h 51m 58.3s	+22° 05' 08"	13.7	Galaxy	0.005x0.003	Aries	

Table 80: Main objects visible on chart 73 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 112	01h 27m 00.1s	+11° 32' 10"	13.8	Galaxy	0.006x0.003	Pisces	
IC 1596	00h 55m 40.3s	+21° 37' 13"	13.8	Galaxy	0.015x0.005	Pisces	
IC 115	01h 27m 53.0s	+19° 18' 27"	14.0	Galaxy	0.004x0.004	Pisces	
IC 1559	00h 37m 49.3s	+24° 05' 02"	14.0	Galaxy	0.003x0.002	Andromeda	
IC 1586	00h 48m 53.9s	+22° 28' 17"	14.0	Galaxy	0.002x0.001	Andromeda	
IC 1715	01h 34m 31.9s	+12° 40' 39"	14.0	Galaxy	0.005x0.004	Pisces	
NGC 2298	00h 44m 02.0s	+23° 36' 28"	14.1	Galaxy	0.008x0.003	Andromeda	
NGC 4631	01h 19m 56.0s	+16° 25' 10"	14.1	Galaxy	0.008x0.003	Pisces	CALDWELL 32, Whale galaxy
NGC 4697	01h 20m 30.5s	+14° 57' 58"	14.1	Galaxy	0.005x0.003	Pisces	CALDWELL 52
IC 1736	01h 51m 52.3s	+18° 23' 28"	14.1	Galaxy	0.009x0.003	Aries	
IC 62	00h 59m 40.6s	+11° 54' 19"	14.1	Galaxy	0.007x0.005	Pisces	
IC 31	00h 35m 20.7s	+12° 22' 04"	14.3	Galaxy	0.013x0.002	Pisces	
NGC 4590	01h 19m 06.1s	+17° 39' 25"	14.4	Galaxy	0.005x0.005	Pisces	M68
NGC 4762	01h 21m 17.5s	+16° 06' 53"	14.4	Galaxy	0.004x0.003	Pisces	
NGC 6752	01h 50m 06.4s	+13° 08' 55"	14.4	Galaxy	0.008x0.003	Aries	CALDWELL 93
IC 1701	01h 26m 48.6s	+18° 16' 41"	14.4	Galaxy	0.01x0.008	Pisces	
IC 1730	01h 50m 57.8s	+22° 06' 06"	14.4	Galaxy	0.006x0.004	Aries	
IC 1646	01h 13m 41.3s	+15° 48' 08"	14.5	Galaxy	0.004x0.004	Pisces	
IC 57	00h 55m 45.0s	+11° 56' 20"	14.5	Galaxy	0.005x0.005	Pisces	
IC 1552	00h 30m 40.5s	+21° 34' 33"	14.6	Galaxy	0.007x0.001	Pisces	
IC 1585	00h 48m 11.7s	+23° 09' 08"	14.6	Galaxy	0.006x0.004	Andromeda	
IC 1725	01h 46m 11.5s	+21° 51' 59"	14.6	Galaxy	0.002x0.002	Pisces	
IC 1634	01h 12m 00.7s	+17° 45' 28"	14.7	Galaxy	0.003x0.003	Pisces	
IC 1635	01h 12m 01.3s	+17° 44' 49"	14.7	Galaxy	0.002x0.002	Pisces	
IC 152	01h 44m 59.0s	+13° 09' 52"	14.9	Galaxy	0.003x0.001	Pisces	
IC 1583	00h 48m 07.7s	+23° 10' 21"	14.9	Galaxy	0.004x0.002	Andromeda	
NGC 4755	01h 20m 59.5s	+14° 57' 21"	15.0	Galaxy	0.003x0.003	Pisces	CALDWELL 94, Jewel Box
IC 113	01h 27m 24.0s	+19° 17' 06"	15.0	Galaxy	0.003x0.003	Pisces	
IC 1706-1	01h 28m 28.5s	+14° 54' 43"	15.0	Galaxy	0.002x0.002	Pisces	IC 1706-1
IC 1706-2	01h 28m 28.9s	+14° 54' 44"	15.0	Galaxy	0.002x0.002	Pisces	IC 1706-2
IC 1632	01h 11m 41.1s	+17° 46' 43"	15.5	Galaxy	0.001x0.001	Pisces	
IC 1642	01h 13m 24.8s	+15° 50' 45"	15.5	Galaxy	0.003x0.003	Pisces	

7.75 Main objects visible on chart 74

Table 81: Main objects visible on chart 74

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 772	02h 00m 19.0s	+19° 05' 40"	10.3	Galaxy	0.06x0.035	Aries	
NGC 6605	01h 43m 59.7s	+13° 44' 02"	11.2	Galaxy	0.069x0.026	Pisces	
NGC 6913	01h 51m 41.5s	+21° 50' 56"	11.4	Galaxy	0.028x0.020	Aries	M29
NGC 6809	01h 50m 47.2s	+22° 03' 36"	11.9	Galaxy	0.015x0.013	Aries	M55
NGC 877	02h 18m 58.6s	+14° 37' 35"	11.9	Galaxy	0.02x0.015	Aries	
NGC 697	01h 52m 17.5s	+22° 26' 46"	12.0	Galaxy	0.033x0.010	Aries	
NGC 1134	02h 54m 40.3s	+13° 05' 14"	12.2	Galaxy	0.020x0.007	Aries	

Table 81: Main objects visible on chart 74 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6779	01h 50m 11.9s	+13° 08' 41"	12.2	Galaxy	0.016x0.016	Aries	M56
NGC 6782	01h 50m 24.6s	+22° 05' 09"	12.2	Galaxy	0.037x0.006	Aries	
NGC 918	02h 26m 51.0s	+18° 34' 35"	12.2	Galaxy	0.029x0.016	Aries	
NGC 7762	02h 00m 55.2s	+23° 43' 51"	12.4	Galaxy	0.014x0.014	Aries	
NGC 924	02h 27m 47.5s	+20° 34' 39"	12.4	Galaxy	0.019x0.010	Aries	
NGC 932	02h 28m 55.3s	+20° 24' 47"	12.4	Galaxy	0.015x0.013	Aries	
NGC 938	02h 29m 34.2s	+20° 21' 49"	12.4	Galaxy	0.013x0.01	Aries	
NGC 976	02h 35m 01.0s	+21° 03' 20"	12.4	Galaxy	0.013x0.010	Aries	
NGC 990	02h 37m 16.6s	+11° 43' 12"	12.5	Galaxy	0.015x0.012	Aries	
NGC 6730	01h 49m 20.0s	+11° 36' 38"	12.6	Galaxy	0.017x0.014	Aries	
NGC 803	02h 04m 43.7s	+16° 07' 01"	12.6	Galaxy	0.025x0.010	Aries	
NGC 794	02h 03m 28.8s	+18° 27' 32"	12.7	Galaxy	0.010x0.009	Aries	
NGC 6952	01h 52m 14.2s	+22° 40' 17"	12.8	Galaxy	0.006x0.005	Aries	
NGC 7702	02h 00m 13.0s	+19° 02' 31"	12.8	Galaxy	0.009x0.006	Aries	
NGC 820	02h 09m 23.5s	+14° 26' 04"	12.8	Galaxy	0.011x0.006	Aries	
NGC 984	02h 35m 44.9s	+23° 29' 30"	12.8	Galaxy	0.016x0.01	Aries	
NGC 992	02h 38m 26.8s	+21° 10' 39"	12.8	Galaxy	0.007x0.005	Aries	
IC 238	02h 36m 21.5s	+12° 54' 58"	12.8	Galaxy	0.01x0.005	Aries	
NGC 7160	01h 53m 57.4s	+12° 47' 47"	12.9	Galaxy	0.015x0.006	Aries	
NGC 935	02h 29m 11.7s	+19° 40' 44"	12.9	Galaxy	0.014x0.009	Aries	
IC 196	02h 04m 48.3s	+14° 49' 30"	12.9	Galaxy	0.023x0.011	Aries	
NGC 7741	02h 00m 33.1s	+14° 05' 42"	13.0	Galaxy	0.0125x0.01	Aries	
IC 163	01h 50m 14.6s	+20° 47' 58"	13.0	Galaxy	0.015x0.007	Aries	
IC 195	02h 04m 43.2s	+14° 47' 42"	13.0	Galaxy	0.012x0.004	Aries	
IC 267	02h 54m 49.2s	+12° 55' 18"	13.0	Galaxy	0.013x0.005	Aries	
NGC 7118	01h 53m 26.7s	+17° 36' 05"	13.1	Galaxy	0.013x0.005	Aries	
NGC 7814	02h 01m 06.9s	+12° 44' 32"	13.1	Galaxy	0.012x0.003	Aries	CALDWELL 43
NGC 792	02h 03m 14.1s	+15° 47' 54"	13.1	Galaxy	0.014x0.009	Aries	
IC 167	01h 52m 08.4s	+22° 00' 04"	13.1	Galaxy	0.022x0.015	Aries	
NGC 1036	02h 41m 29.8s	+19° 22' 24"	13.2	Galaxy	0.012x0.009	Aries	
NGC 7192	01h 54m 38.3s	+19° 55' 44"	13.2	Galaxy	0.011x0.009	Aries	
NGC 1030	02h 40m 50.9s	+18° 06' 02"	13.3	Galaxy	0.013x0.005	Aries	
NGC 6716	01h 47m 57.0s	+13° 12' 53"	13.3	Galaxy	0.012x0.004	Aries	
NGC 817	02h 08m 32.9s	+17° 17' 13"	13.3	Galaxy	0.005x0.002	Aries	
IC 1764	02h 01m 24.2s	+24° 39' 59"	13.3	Galaxy	0.01x0.006	Aries	
IC 1791	02h 18m 39.7s	+12° 33' 10"	13.3	Galaxy	0.008x0.008	Aries	
NGC 7226	01h 55m 46.6s	+20° 47' 10"	13.4	Galaxy	0.014x0.004	Aries	
NGC 786	02h 02m 23.4s	+15° 43' 57"	13.4	Galaxy	0.005x0.005	Aries	
NGC 927	02h 27m 35.8s	+12° 14' 08"	13.4	Galaxy	0.01x0.01	Aries	
IC 1802	02h 30m 15.5s	+23° 09' 46"	13.4	Galaxy	0.010x0.009	Aries	
IC 193	02h 03m 28.8s	+11° 10' 45"	13.4	Galaxy	0.014x0.012	Aries	
IC 248	02h 42m 26.0s	+17° 53' 17"	13.4	Galaxy	0.007x0.005	Aries	
IC 192	02h 03m 31.3s	+16° 06' 01"	13.5	Galaxy	0.007x0.005	Aries	
NGC 1088	02h 48m 03.9s	+16° 16' 30"	13.6	Galaxy	0.008x0.005	Aries	
NGC 6834	01h 50m 44.3s	+11° 47' 27"	13.6	Galaxy	0.008x0.008	Aries	
IC 871	02h 18m 09.5s	+14° 37' 49"	13.6	Galaxy	0.009x0.004	Aries	

Table 81: Main objects visible on chart 74 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 882	02h 20m 39.1s	+15° 53' 48"	13.6	Galaxy	0.01x0.005	Aries	
NGC 1054	02h 43m 16.3s	+18° 17' 37"	13.7	Galaxy	0.007x0.004	Aries	
NGC 6940	01h 51m 58.3s	+22° 05' 08"	13.7	Galaxy	0.005x0.003	Aries	
IC 1748	01h 57m 07.9s	+17° 43' 43"	13.7	Galaxy	0.008x0.005	Aries	
NGC 1112	02h 49m 59.6s	+13° 17' 52"	13.8	Galaxy	0.01x0.0075	Aries	
IC 1755	01h 58m 08.2s	+14° 38' 13"	13.8	Galaxy	0.011x0.002	Aries	
IC 1794	02h 22m 29.4s	+15° 50' 38"	13.8	Galaxy	0.007x0.005	Aries	
IC 1801	02h 29m 13.4s	+19° 39' 46"	13.8	Galaxy	0.013x0.005	Aries	
IC 213	02h 15m 03.5s	+16° 32' 22"	13.8	Galaxy	0.015x0.012	Aries	
NGC 1117A	02h 52m 12.1s	+13° 15' 57"	13.9	Galaxy	0.004x0.002	Aries	1117A
810-1	02h 06m 26.9s	+13° 20' 12"	13.9	Galaxy	0.014x0.010	Aries	810-1
IC 1774	02h 04m 57.8s	+15° 24' 13"	13.9	Galaxy	0.013x0.01	Aries	
IC 1804-1	02h 30m 56.0s	+23° 10' 36"	13.9	Galaxy	0.006x0.004	Aries	IC 1804-1
IC 1809	02h 32m 42.1s	+22° 59' 47"	13.9	Galaxy	0.007x0.005	Aries	
IC 1854	02h 50m 21.7s	+19° 22' 42"	13.9	Galaxy	0.005x0.004	Aries	
IC 189	02h 02m 53.6s	+23° 38' 15"	13.9	Galaxy	0.005x0.005	Aries	
NGC 1166	03h 01m 33.8s	+11° 54' 48"	14.0	Galaxy	0.008x0.008	Aries	
IC 1857	02h 50m 38.4s	+14° 41' 38"	14.0	Galaxy	0.008x0.004	Aries	
IC 1736	01h 51m 52.3s	+18° 23' 28"	14.1	Galaxy	0.009x0.003	Aries	
IC 1832	02h 42m 58.4s	+19° 06' 24"	14.1	Galaxy	0.005x0.005	Aries	
IC 190	02h 03m 07.9s	+23° 38' 11"	14.1	Galaxy	0.006x0.004	Aries	
NGC 1168	03h 01m 45.9s	+11° 50' 34"	14.2	Galaxy	0.009x0.005	Aries	
IC 1742	01h 54m 14.5s	+22° 48' 33"	14.2	Galaxy	0.006x0.004	Aries	
IC 1116	02h 51m 35.0s	+13° 24' 31"	14.3	Galaxy	0.011x0.002	Aries	
NGC 1117-1	02h 52m 12.4s	+13° 15' 33"	14.3	Galaxy	0.005x0.004	Aries	1117-1
IC 1821-1	02h 37m 24.4s	+13° 51' 29"	14.3	Galaxy	0.005x0.003	Aries	IC 1821-1
IC 1839	02h 45m 42.7s	+15° 18' 53"	14.3	Galaxy	0.008x0.004	Aries	
IC 1841	02h 46m 37.1s	+19° 00' 15"	14.3	Galaxy	0.005x0.004	Aries	
IC 1109	02h 48m 42.7s	+13° 19' 48"	14.4	Galaxy	0.005x0.004	Aries	
NGC 6752	01h 50m 06.4s	+13° 08' 55"	14.4	Galaxy	0.008x0.003	Aries	CALDWELL 93
IC 1730	01h 50m 57.8s	+22° 06' 06"	14.4	Galaxy	0.006x0.004	Aries	
IC 235	02h 33m 51.8s	+20° 43' 12"	14.4	Galaxy	0.003x0.002	Aries	
NGC 930	02h 28m 57.4s	+20° 25' 21"	14.5	Galpart	8.333x8.333	Aries	
IC 1842	02h 46m 22.0s	+11° 32' 02"	14.5	Galaxy	0.009x0.002	Aries	
IC 222	02h 23m 46.2s	+11° 43' 12"	14.5	Galaxy	0.006x0.004	Aries	
IC 279	03h 02m 12.5s	+16° 16' 46"	14.5	Galaxy	0.003x0.002	Aries	
IC 1725	01h 46m 11.5s	+21° 51' 59"	14.6	Galaxy	0.002x0.002	Pisces	
IC 180	02h 01m 00.9s	+23° 41' 30"	14.6	Galaxy	0.006x0.002	Aries	
IC 1829	02h 41m 32.1s	+14° 22' 28"	14.6	Galaxy	0.006x0.006	Aries	
IC 1835-1	02h 44m 48.6s	+14° 57' 54"	14.6	Galaxy	0.004x0.004	Aries	IC 1835-1
IC 1838-1	02h 45m 44.0s	+19° 31' 49"	14.6	Galaxy	0.004x0.002	Aries	IC 1838-1
IC 1847	02h 48m 53.1s	+14° 34' 48"	14.6	Galaxy	0.003x0.002	Aries	
NGC 1115	02h 51m 24.6s	+13° 20' 26"	14.7	Galaxy	0.005x0.001	Aries	
IC 1127	02h 53m 51.1s	+13° 19' 47"	14.7	Galaxy	0.005x0.004	Aries	
IC 876	02h 18m 52.1s	+14° 36' 13"	14.7	Galaxy	0.016x0.003	Aries	
IC 1797	02h 26m 28.6s	+20° 28' 34"	14.7	Galaxy	0.005x0.001	Aries	

Table 81: Main objects visible on chart 74 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1804-2	02h 30m 51.5s	+23° 11' 17"	14.7	Galaxy	0.002x0.002	Aries	IC 1804-2
IC 1807	02h 31m 32.5s	+23° 01' 46"	14.7	Galaxy	0.003x0.003	Aries	
IC 181	02h 01m 03.0s	+23° 44' 45"	14.7	Galaxy	0.004x0.003	Aries	
IC 1817-1	02h 34m 47.8s	+11° 16' 54"	14.7	Galaxy	0.003x0.001	Aries	IC 1817-1
IC 212	02h 14m 37.5s	+16° 40' 41"	14.7	Galaxy	0.007x0.005	Aries	
IC 1777	02h 07m 07.4s	+15° 17' 43"	14.8	Galaxy	0.005x0.005	Aries	
IC 152	01h 44m 59.0s	+13° 09' 52"	14.9	Galaxy	0.003x0.001	Pisces	
IC 1780	02h 07m 49.8s	+14° 48' 26"	14.9	Galaxy	0.005x0.002	Aries	
IC 1790	02h 18m 36.3s	+12° 35' 30"	14.9	Galaxy	0.008x0.002	Aries	
IC 255	02h 48m 03.4s	+16° 21' 49"	14.9	Galaxy	0.005x0.002	Aries	
IC 1775	02h 06m 15.9s	+13° 35' 28"	15.0	Galaxy	0.005x0.005	Aries	
IC 1803	02h 30m 18.8s	+23° 13' 13"	15.0	Galaxy	0.002x0.001	Aries	
IC 1855	02h 50m 03.5s	+13° 31' 00"	15.0	Galaxy	0.002x0.002	Aries	
IC 1806	02h 30m 36.5s	+23° 01' 24"	15.1	Galaxy	0.005x0.004	Aries	
NGC 1111	02h 49m 38.5s	+13° 19' 60"	15.2	Galaxy	0.004x0.001	Aries	
NGC 1117-2	02h 52m 12.8s	+13° 15' 40"	15.5	Galaxy	8.333x8.333	Aries	1117-2
810-2	02h 06m 27.7s	+13° 20' 12"	15.5	Galaxy	0.001x8.333	Aries	810-2
IC 870	02h 18m 08.0s	+14° 36' 20"	15.5	Galaxy	0.002x0.002	Aries	
IC 1798	02h 27m 14.3s	+13° 30' 40"	15.5	Galaxy	0.002x0.002	Aries	
IC 1835-2	02h 44m 48.2s	+14° 57' 45"	15.5	Galaxy	0.002x0.001	Aries	IC 1835-2
IC 1817-2	02h 34m 49.1s	+11° 16' 52"	15.8	Galaxy	0.005x0.003	Aries	IC 1817-2

7.76 Main objects visible on chart 75

Table 82: Main objects visible on chart 75

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel25	04h 28m 01.7s	+16° 02' 22"	1.0	Open cluster	2.75x2.75	Taurus	CALDWELL 41, Hyades Cluster
Mel22	03h 48m 28.4s	+24° 10' 17"	1.2	Open cluster	0.916x0.916	Taurus	M45, Pleiades Cluster
NGC 1497	04h 03m 11.1s	+23° 10' 57"	13.1	Galaxy	0.012x0.005	Taurus	
IC 357	04h 04m 47.8s	+22° 12' 30"	13.2	Galaxy	0.01x0.008	Taurus	
IC 1977	03h 41m 46.7s	+17° 47' 52"	13.5	Galaxy	0.011x0.006	Taurus	
NGC 1166	03h 01m 33.8s	+11° 54' 48"	14.0	Galaxy	0.008x0.008	Aries	
IC 358	04h 04m 45.8s	+19° 56' 39"	14.1	Galaxy	0.008x0.003	Taurus	
NGC 1168	03h 01m 45.9s	+11° 50' 34"	14.2	Galaxy	0.009x0.005	Aries	
NGC 1384	03h 40m 14.4s	+15° 52' 37"	14.5	Galaxy	0.007x0.004	Taurus	
IC 279	03h 02m 12.5s	+16° 16' 46"	14.5	Galaxy	0.003x0.002	Aries	
IC 1890	03h 10m 60.0s	+19° 16' 34"	14.6	Galaxy	0.005x0.005	Aries	
IC 1894	03h 11m 27.1s	+19° 40' 29"	14.6	Galaxy	0.004x0.001	Aries	
IC 2016	04h 03m 03.0s	+20° 17' 23"	14.6	Galaxy	0.003x0.001	Taurus	
IC 355	03h 54m 49.1s	+20° 01' 35"	14.9	Galaxy	0.004x0.004	Taurus	
IC 1891	03h 11m 13.7s	+19° 40' 27"	15.2	Galaxy	0.002x0.001	Aries	
IC 1893	03h 11m 18.2s	+19° 41' 04"	15.7	Galaxy	0.001x8.333	Aries	

7.77 Main objects visible on chart 76

Table 83: Main objects visible on chart 76

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel25	04h 28m 01.7s	+16° 02' 22"	1.0	Open cluster	2.75x2.75	Taurus	CALDWELL 41, Hyades Cluster
NGC 1647	04h 46m 45.5s	+19° 09' 03"	6.4	Open cluster	0.333x0.333	Taurus	
NGC 1807	05h 11m 48.3s	+16° 32' 04"	7.0	Open cluster	0.1x0.1	Taurus	
NGC 1817	05h 13m 29.4s	+16° 42' 14"	7.7	Open cluster	0.166x0.166	Taurus	
NGC 1750	05h 04m 59.6s	+23° 40' 57"	11.0	Open cluster	0.208x0.1	Taurus	
NGC 1758	05h 05m 41.7s	+23° 49' 20"	11.0	Open cluster	0.333x0.333	Taurus	
NGC 1802	05h 11m 19.9s	+24° 08' 47"	11.0	Open cluster	0.166x0.166	Taurus	
IC 1615	04h 37m 05.4s	+19° 59' 11"	13.9	Galaxy	0.01x0.006	Taurus	
NGC 1663	04h 50m 25.0s	+13° 10' 16"	14.5	Open cluster	0.075x0.075	Orion	
IC 374	04h 33m 34.8s	+16° 40' 20"	14.9	Galaxy	0.006x0.003	Taurus	

7.78 Main objects visible on chart 77

Table 84: Main objects visible on chart 77

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2168	06h 10m 06.2s	+24° 20' 45"	5.1	Open cluster	0.208x0.208	Gemini	M35
NGC 2169	06h 09m 25.6s	+13° 57' 39"	5.9	Open cluster	0.05x0.05	Orion	
NGC 2129	06h 02m 12.2s	+23° 19' 01"	6.7	Open cluster	0.05x0.05	Gemini	
NGC 2175	06h 10m 42.9s	+20° 29' 02"	6.8	Open cluster	0.333x0.25	Orion	
NGC 1952	05h 35m 36.9s	+22° 01' 31"	8.4	Nebula	0.05x0.033	Taurus	M1, Crab nebula
IC 2157	06h 05m 55.9s	+24° 03' 13"	8.4	Open cluster	0.041x0.041	Gemini	
NGC 2194	06h 14m 46.7s	+12° 48' 02"	8.5	Open cluster	0.075x0.075	Orion	
NGC 2158	06h 08m 31.7s	+24° 05' 33"	8.6	Open cluster	0.041x0.041	Gemini	
IC 2119	05h 58m 27.3s	+11° 56' 59"	14.0	Galaxy	0.01x0.008	Orion	

7.79 Main objects visible on chart 78

Table 85: Main objects visible on chart 78

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2395	07h 28m 13.5s	+13° 34' 15"	8.0	Open cluster	0.125x0.125	Gemini	
NGC 2420	07h 39m 27.8s	+21° 31' 56"	8.3	Open cluster	0.05x0.05	Gemini	
NGC 2392	07h 30m 14.6s	+20° 52' 27"	9.1	Planetary Nebula	0.007x0.007	Gemini	CALDWELL 39, Eskimo nebula
NGC 2355	07h 18m 00.1s	+13° 43' 00"	9.7	Open cluster	0.066x0.066	Gemini	
NGC 2304	06h 56m 14.7s	+17° 57' 52"	10.0	Open cluster	0.025x0.025	Gemini	
NGC 2339	07h 09m 23.5s	+18° 44' 59"	11.8	Galaxy	0.022x0.016	Gemini	
NGC 2418	07h 37m 39.8s	+17° 50' 34"	12.2	Galaxy	0.015x0.015	Gemini	
NGC 2350	07h 14m 12.4s	+12° 14' 05"	12.3	Galaxy	0.011x0.005	Canis Minor	
NGC 2365	07h 23m 26.8s	+22° 02' 52"	12.4	Galaxy	0.023x0.011	Gemini	
NGC 2342	07h 10m 22.1s	+20° 36' 25"	12.6	Galaxy	0.011x0.010	Gemini	

Table 85: Main objects visible on chart 78 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2341	07h 10m 16.0s	+20° 34' 24"	13.2	Galaxy	0.006x0.006	Gemini	
NGC 2357	07h 18m 46.0s	+23° 19' 22"	13.3	Galaxy	0.03x0.004	Gemini	
NGC 2407	07h 32m 59.3s	+18° 17' 39"	13.4	Galaxy	0.009x0.008	Gemini	
NGC 2416	07h 36m 41.3s	+11° 34' 18"	13.4	Galaxy	0.008x0.005	Canis Minor	
IC 454	06h 52m 06.9s	+12° 54' 00"	13.4	Galaxy	0.01x0.005	Gemini	
IC 2181	07h 14m 13.5s	+18° 57' 53"	13.6	Galaxy	0.007x0.004	Gemini	
NGC 2370	07h 26m 06.7s	+23° 44' 49"	13.7	Galaxy	0.006x0.004	Gemini	
NGC 2411	07h 35m 39.0s	+18° 14' 30"	13.8	Galaxy	0.007x0.004	Gemini	
IC 2454	07h 51m 36.5s	+16° 19' 21"	13.8	Galaxy	0.006x0.002	Gemini	
NGC 2398-1	07h 31m 21.7s	+24° 26' 58"	13.9	Galaxy	0.003x0.002	Gemini	2398-1
IC 2186	07h 23m 47.3s	+21° 28' 41"	13.9	Galaxy	0.007x0.005	Gemini	
IC 2187	07h 23m 47.5s	+21° 26' 50"	13.9	Galaxy	0.003x0.003	Gemini	
IC 2191	07h 31m 22.8s	+24° 17' 23"	14.1	Galaxy	0.007x0.005	Gemini	
IC 2198	07h 35m 16.2s	+23° 55' 34"	14.1	Galaxy	0.003x0.003	Gemini	
IC 2406	07h 32m 50.4s	+18° 14' 58"	14.2	Galaxy	0.005x0.005	Gemini	
NGC 2376	07h 27m 40.8s	+23° 02' 10"	14.4	Galaxy	0.005x0.005	Gemini	
IC 477	07h 53m 11.5s	+23° 26' 11"	14.4	Galaxy	0.007x0.007	Gemini	
NGC 2398-2	07h 31m 19.1s	+24° 27' 10"	14.9	Galaxy	0.004x0.004	Gemini	2398-2
IC 2182	07h 15m 14.2s	+18° 54' 46"	15.0	Galaxy	0.004x0.004	Gemini	

7.80 Main objects visible on chart 79

Table 86: Main objects visible on chart 79

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2632	08h 41m 25.9s	+19° 36' 19"	3.1	Open cluster	0.583x0.583	Cancer	M44, Praesepe
NGC 2682	08h 52m 17.0s	+11° 44' 54"	6.9	Open cluster	0.208x0.208	Cancer	M67
NGC 2672	08h 50m 23.3s	+19° 00' 24"	11.7	Galaxy	0.025x0.023	Cancer	
NGC 2648	08h 43m 39.8s	+14° 13' 10"	11.8	Galaxy	0.026x0.009	Cancer	
IC 2554A	08h 18m 57.3s	+23° 24' 55"	12.0	Galaxy	0.026x0.02	Cancer	IC 2554A
NGC 2507	08h 02m 38.3s	+15° 39' 34"	12.2	Galaxy	0.020x0.015	Cancer	
NGC 2563	08h 21m 38.6s	+21° 00' 37"	12.2	Galaxy	0.016x0.014	Cancer	
NGC 2599	08h 33m 14.4s	+22° 29' 56"	12.2	Galaxy	0.015x0.014	Cancer	
NGC 2595	08h 28m 44.8s	+21° 25' 09"	12.3	Galaxy	0.026x0.02	Cancer	
NGC 2545	08h 15m 17.3s	+21° 18' 02"	12.4	Galaxy	0.018x0.01	Cancer	
NGC 2577	08h 23m 46.8s	+22° 29' 42"	12.4	Galaxy	0.015x0.009	Cancer	
NGC 2565	08h 20m 51.5s	+21° 58' 26"	12.6	Galaxy	0.015x0.007	Cancer	
NGC 2575	08h 23m 49.1s	+24° 14' 18"	12.7	Galaxy	0.014x0.010	Cancer	
NGC 2661	08h 46m 58.9s	+12° 33' 11"	12.8	Galaxy	0.011x0.010	Cancer	
NGC 2720	09h 00m 06.7s	+11° 04' 44"	12.8	Galaxy	0.009x0.009	Cancer	
NGC 2562	08h 21m 26.4s	+21° 04' 26"	12.9	Galaxy	0.008x0.005	Cancer	
NGC 2481	07h 58m 18.3s	+23° 43' 06"	13.0	Galaxy	0.011x0.004	Gemini	
NGC 2558	08h 20m 15.4s	+20° 27' 14"	13.0	Galaxy	0.015x0.010	Cancer	
IC 2582	08h 26m 14.6s	+20° 16' 29"	13.0	Galaxy	0.01x0.01	Cancer	
NGC 2664	08h 48m 09.7s	+12° 32' 12"	13.0	Open cluster	0.041x0.041	Cancer	

Table 86: Main objects visible on chart 79 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2730	09h 03m 16.2s	+16° 45' 60"	13.0	Galaxy	0.014x0.010	Cancer	
IC 509	08h 33m 07.3s	+23° 56' 54"	13.0	Galaxy	0.01x0.009	Cancer	
NGC 2512	08h 04m 11.9s	+23° 20' 25"	13.1	Galaxy	0.011x0.007	Cancer	
NGC 2738	09h 05m 02.6s	+21° 53' 46"	13.1	Galaxy	0.011x0.005	Cancer	
NGC 2557	08h 20m 14.0s	+21° 22' 43"	13.2	Galaxy	0.01x0.008	Cancer	
IC 2247	08h 17m 02.9s	+23° 08' 37"	13.2	Galaxy	0.015x0.002	Cancer	
IC 2560	08h 20m 54.8s	+20° 55' 38"	13.3	Galaxy	0.011x0.002	Cancer	
NGC 2628	08h 41m 25.9s	+23° 28' 30"	13.3	Galaxy	0.009x0.009	Cancer	
IC 2514	08h 03m 50.9s	+15° 45' 23"	13.4	Galaxy	0.010x0.01	Cancer	
IC 2581	08h 25m 32.8s	+18° 32' 16"	13.4	Galaxy	0.009x0.006	Cancer	
IC 2226	08h 07m 11.0s	+12° 29' 30"	13.4	Galaxy	0.007x0.005	Cancer	
IC 2406	08h 49m 05.4s	+17° 38' 06"	13.4	Galaxy	0.009x0.005	Cancer	
NGC 2596	08h 28m 27.9s	+17° 13' 27"	13.5	Galaxy	0.012x0.005	Cancer	
NGC 2673	08h 50m 25.6s	+19° 00' 25"	13.5	Galaxy	0.01x0.01	Cancer	
NGC 2725	09h 02m 01.9s	+11° 01' 34"	13.5	Galaxy	0.005x0.005	Cancer	
IC 2409	08h 49m 25.9s	+18° 15' 47"	13.5	Galaxy	0.008x0.005	Cancer	
NGC 2530	08h 08m 57.6s	+17° 45' 54"	13.6	Galaxy	0.011x0.007	Cancer	
NGC 2598	08h 31m 05.3s	+21° 25' 38"	13.6	Galaxy	0.010x0.005	Cancer	
NGC 2728	09h 02m 39.5s	+11° 00' 43"	13.6	Galaxy	0.009x0.006	Cancer	
IC 2239	08h 15m 10.9s	+23° 48' 39"	13.6	Galaxy	0.008x0.005	Cancer	
IC 2341	08h 24m 44.4s	+21° 22' 34"	13.6	Galaxy	0.010x0.005	Cancer	
IC 2392	08h 45m 32.2s	+18° 13' 12"	13.6	Galaxy	0.005x0.004	Cancer	
NGC 2503	08h 01m 40.7s	+22° 20' 58"	13.7	Galaxy	0.008x0.008	Cancer	
NGC 2711	08h 58m 24.2s	+17° 13' 04"	13.7	Galaxy	0.007x0.005	Cancer	
IC 2423	08h 55m 48.8s	+20° 09' 03"	13.7	Galaxy	0.008x0.006	Cancer	
IC 2454	07h 51m 36.5s	+16° 19' 21"	13.8	Galaxy	0.006x0.002	Gemini	
NGC 2480	07h 58m 15.2s	+23° 43' 50"	13.8	Galaxy	0.010x0.005	Gemini	
IC 2522	08h 07m 15.4s	+17° 39' 14"	13.8	Galaxy	0.008x0.002	Cancer	
NGC 2572	08h 22m 26.8s	+19° 05' 23"	13.8	Galaxy	0.010x0.004	Cancer	
IC 2553	08h 18m 38.0s	+20° 50' 48"	13.9	Galaxy	0.014x0.006	Cancer	
NGC 2593	08h 27m 49.2s	+17° 18' 52"	13.9	Galaxy	0.007x0.004	Cancer	
NGC 2625	08h 39m 25.1s	+19° 39' 07"	13.9	Galaxy	0.005x0.005	Cancer	
IC 2253	08h 17m 37.0s	+21° 21' 14"	13.9	Galaxy	0.005x0.004	Cancer	
IC 2282	08h 20m 20.0s	+24° 44' 08"	13.9	Galaxy	0.008x0.006	Cancer	
IC 2340	08h 24m 32.1s	+18° 41' 26"	13.9	Galaxy	0.005x0.004	Cancer	
IC 2363	08h 26m 47.7s	+19° 23' 20"	13.9	Galaxy	0.006x0.006	Cancer	
NGC 2667	08h 49m 28.7s	+18° 57' 08"	14.0	Galaxy	0.006x0.002	Cancer	
IC 2293	08h 20m 35.2s	+21° 20' 13"	14.0	Galaxy	0.007x0.005	Cancer	
IC 2329	08h 23m 21.6s	+19° 21' 25"	14.0	Galaxy	0.017x0.003	Cancer	
IC 2338	08h 24m 35.6s	+21° 16' 44"	14.0	Galaxy	0.004x0.003	Cancer	
NGC 2624	08h 39m 11.6s	+19° 39' 44"	14.1	Galaxy	0.005x0.004	Cancer	
NGC 2737	09h 05m 01.6s	+21° 50' 03"	14.1	Galaxy	0.007x0.003	Cancer	
IC 2267	08h 19m 06.0s	+24° 40' 45"	14.1	Galaxy	0.017x0.002	Cancer	
IC 2271	08h 19m 24.1s	+24° 28' 14"	14.2	Galaxy	0.002x0.001	Cancer	
IC 2382	08h 29m 49.2s	+21° 59' 33"	14.2	Galaxy	0.003x0.001	Cancer	
NGC 2569	08h 22m 23.9s	+20° 48' 36"	14.3	Galaxy	0.005x0.004	Cancer	

Table 86: Main objects visible on chart 79 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2647	08h 43m 44.8s	+19° 35' 08"	14.3	Galaxy	0.006x0.004	Cancer	
IC 2290	08h 20m 18.0s	+19° 15' 22"	14.3	Galaxy	0.003x0.002	Cancer	
IC 2248	08h 17m 08.5s	+23° 04' 41"	14.4	Galaxy	0.009x0.006	Cancer	
IC 2254	08h 17m 50.0s	+24° 43' 26"	14.4	Galaxy	0.002x0.001	Cancer	
IC 2339	08h 24m 37.1s	+21° 17' 19"	14.4	Galaxy	0.009x0.005	Cancer	
IC 2407	08h 49m 10.1s	+17° 32' 40"	14.4	Galaxy	0.01x0.001	Cancer	
IC 477	07h 53m 11.5s	+23° 26' 11"	14.4	Galaxy	0.007x0.007	Gemini	
IC 481	08h 00m 07.5s	+24° 06' 37"	14.4	Galaxy	0.008x0.001	Gemini	
IC 2556	08h 20m 03.7s	+20° 52' 49"	14.5	Galaxy	0.003x0.001	Cancer	
NGC 2570	08h 22m 25.4s	+20° 51' 09"	14.5	Galaxy	0.009x0.005	Cancer	
NGC 2651	08h 44m 54.2s	+11° 42' 19"	14.5	Galaxy	0.005x0.004	Cancer	
IC 2268	08h 19m 11.0s	+24° 44' 21"	14.5	Galaxy	0.001x0.001	Cancer	
IC 2307	08h 21m 45.2s	+19° 22' 58"	14.5	Galaxy	0.005x0.002	Cancer	
IC 2414	08h 50m 51.4s	+18° 43' 31"	14.5	Galaxy	0.002x0.002	Cancer	
IC 501-2	08h 19m 52.1s	+24° 28' 48"	14.5	Galaxy	0.001x0.001	Cancer	IC 501-2
NGC 2677	08h 51m 02.7s	+18° 56' 33"	14.6	Galaxy	0.005x0.002	Cancer	
NGC 2678	08h 51m 01.6s	+11° 16' 15"	14.6	Open cluster	0.083x0.020	Cancer	
IC 2256	08h 17m 58.7s	+24° 07' 12"	14.6	Galaxy	0.005x0.002	Cancer	
IC 2309	08h 21m 45.5s	+18° 20' 21"	14.6	Galaxy	0.006x0.001	Cancer	
IC 2422	08h 55m 26.0s	+20° 09' 22"	14.6	Galaxy	0.004x0.004	Cancer	
IC 501-1	08h 19m 51.9s	+24° 28' 50"	14.6	Galaxy	0.001x0.001	Cancer	IC 501-1
IC 2637	08h 42m 15.3s	+19° 37' 31"	14.7	Galaxy	0.005x0.003	Cancer	
IC 2373	08h 27m 51.5s	+20° 18' 17"	14.7	Galaxy	0.007x0.007	Cancer	
IC 2388	08h 40m 58.4s	+19° 34' 49"	14.7	Galaxy	0.003x0.001	Cancer	
IC 2411	08h 49m 31.7s	+18° 58' 34"	14.7	Galaxy	0.006x0.001	Cancer	
IC 2269	08h 19m 12.4s	+22° 59' 25"	14.8	Galaxy	0.004x8.333	Cancer	
IC 2288	08h 20m 26.3s	+23° 41' 23"	14.8	Galaxy	0.005x0.002	Cancer	
IC 2218-1	08h 02m 43.2s	+24° 22' 52"	14.9	Galaxy	0.005x0.001	Cancer	IC 2218-1
IC 2308	08h 21m 47.5s	+19° 18' 13"	14.9	Galaxy	0.005x0.002	Cancer	
IC 2337	08h 24m 22.2s	+18° 28' 36"	14.9	Galaxy	0.002x8.333	Cancer	
IC 2390	08h 42m 53.6s	+19° 38' 16"	14.9	Galaxy	0.005x0.003	Cancer	
IC 2398	08h 47m 45.6s	+17° 41' 18"	14.9	Galaxy	0.004x0.002	Cancer	
NGC 2741	09h 04m 17.4s	+18° 11' 19"	15.0	Galaxy	0.003x0.001	Cancer	
IC 2348	08h 25m 22.8s	+20° 28' 29"	15.0	Galaxy	0.005x0.003	Cancer	
IC 2312-1	08h 21m 55.1s	+18° 27' 01"	15.2	Galaxy	0.003x0.003	Cancer	IC 2312-1
IC 2335	08h 24m 09.3s	+19° 20' 55"	15.2	Galaxy	0.002x0.001	Cancer	
IC 2418	08h 52m 26.0s	+17° 52' 35"	15.3	Galaxy	0.001x0.001	Cancer	
IC 2734	09h 04m 01.9s	+16° 47' 32"	15.5	Galaxy	0.005x0.004	Cancer	
IC 2249	08h 17m 38.9s	+24° 26' 12"	15.7	Galaxy	0.002x0.002	Cancer	
IC 2250	08h 17m 36.3s	+23° 34' 34"	15.7	Galaxy	0.001x0.001	Cancer	
IC 2312-2	08h 21m 55.3s	+18° 27' 15"	16.0	Galaxy	8.333x8.333	Cancer	IC 2312-2

7.81 Main objects visible on chart 80

Table 87: Main objects visible on chart 80

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2903	09h 33m 10.7s	+21° 25' 08"	9.0	Galaxy	0.105x0.05	Leo	
NGC 3041	09h 54m 06.2s	+16° 35' 32"	11.5	Galaxy	0.030x0.02	Leo	
NGC 3162	10h 14m 31.3s	+22° 38' 51"	11.6	Galaxy	0.025x0.022	Leo	
NGC 2749	09h 06m 22.1s	+18° 14' 27"	11.8	Galaxy	0.014x0.011	Cancer	
NGC 2872	09h 26m 41.3s	+11° 21' 15"	11.9	Galaxy	0.017x0.015	Leo	
NGC 3020	09h 51m 04.8s	+12° 43' 44"	11.9	Galaxy	0.025x0.013	Leo	
NGC 3098	10h 03m 17.5s	+24° 37' 26"	12.0	Galaxy	0.018x0.005	Leo	
NGC 2916	09h 35m 58.5s	+21° 37' 25"	12.1	Galaxy	0.020x0.014	Leo	
NGC 3094	10h 02m 24.6s	+15° 40' 58"	12.3	Galaxy	0.013x0.01	Leo	
NGC 2943	09h 39m 32.5s	+16° 56' 57"	12.4	Galaxy	0.018x0.01	Leo	
NGC 2954	09h 41m 23.0s	+14° 50' 25"	12.4	Galaxy	0.01x0.0075	Leo	
NGC 2874	09h 26m 46.2s	+11° 20' 50"	12.5	Galaxy	0.018x0.005	Leo	
NGC 2991	09h 47m 50.6s	+21° 55' 46"	12.6	Galaxy	0.011x0.009	Leo	
NGC 3121	10h 07m 50.1s	+14° 17' 08"	12.6	Galaxy	0.014x0.011	Leo	
NGC 3153	10h 13m 48.3s	+12° 34' 38"	12.7	Galaxy	0.017x0.007	Leo	
NGC 2720	09h 00m 06.7s	+11° 04' 44"	12.8	Galaxy	0.009x0.009	Cancer	
NGC 2795	09h 17m 04.0s	+17° 33' 09"	12.8	Galaxy	0.011x0.008	Cancer	
NGC 2804	09h 17m 51.0s	+20° 07' 20"	12.8	Galaxy	0.011x0.01	Cancer	
NGC 2819	09h 19m 09.3s	+16° 07' 18"	12.8	Galaxy	0.011x0.010	Cancer	
NGC 3053	09h 56m 32.6s	+16° 20' 51"	12.8	Galaxy	0.015x0.007	Leo	
IC 2764	09h 09m 19.2s	+21° 22' 10"	12.9	Galaxy	0.012x0.008	Cancer	
NGC 2927	09h 38m 16.6s	+23° 30' 32"	12.9	Galaxy	0.010x0.008	Leo	
NGC 3016	09h 50m 48.8s	+12° 36' 38"	12.9	Galaxy	0.01x0.0075	Leo	
NGC 2730	09h 03m 16.2s	+16° 45' 60"	13.0	Galaxy	0.014x0.010	Cancer	
NGC 2809	09h 18m 08.0s	+19° 59' 35"	13.0	Galaxy	0.010x0.01	Cancer	
NGC 3060	09h 57m 18.3s	+16° 44' 43"	13.0	Galaxy	0.018x0.005	Leo	
NGC 3131	10h 09m 35.2s	+18° 08' 33"	13.0	Galaxy	0.02x0.005	Leo	
NGC 2738	09h 05m 02.6s	+21° 53' 46"	13.1	Galaxy	0.011x0.005	Cancer	
NGC 2994	09h 48m 16.8s	+22° 00' 19"	13.1	Galaxy	0.010x0.008	Leo	
NGC 3024	09h 51m 25.6s	+12° 40' 51"	13.1	Galaxy	0.016x0.003	Leo	
IC 530	09h 16m 15.8s	+11° 48' 38"	13.1	Galaxy	0.015x0.005	Cancer	
NGC 2794	09h 17m 02.0s	+17° 30' 49"	13.2	Galaxy	0.01x0.01	Cancer	
NGC 2958	09h 41m 39.8s	+11° 48' 22"	13.2	Galaxy	0.008x0.006	Leo	
IC 2454	09h 17m 02.1s	+17° 44' 44"	13.2	Galaxy	0.007x0.005	Cancer	
IC 591	10h 08m 25.4s	+12° 11' 09"	13.2	Galaxy	0.008x0.005	Leo	
NGC 2786	09h 14m 34.4s	+12° 21' 56"	13.3	Galaxy	0.007x0.005	Cancer	
IC 555	09h 42m 55.3s	+12° 12' 49"	13.3	Galaxy	0.010x0.004	Leo	
NGC 3040A	09h 54m 04.8s	+19° 20' 51"	13.4	Galaxy	0.005x0.004	Leo	3040A
IC 3107	10h 05m 20.6s	+13° 32' 03"	13.4	Galaxy	0.005x0.005	Leo	
IC 2487	09h 31m 09.7s	+20° 00' 37"	13.4	Galaxy	0.014x0.003	Leo	
IC 585	10h 00m 42.2s	+12° 54' 08"	13.4	Galaxy	0.010x0.006	Leo	
NGC 2744	09h 05m 40.0s	+18° 23' 30"	13.5	Galaxy	0.013x0.01	Cancer	
NGC 2797	09h 17m 22.1s	+17° 39' 05"	13.5	Galaxy	0.005x0.004	Cancer	
NGC 3154	10h 13m 59.7s	+16° 56' 41"	13.5	Galaxy	0.007x0.003	Leo	
IC 568	09h 52m 07.3s	+15° 38' 44"	13.5	Galaxy	0.014x0.009	Leo	
NGC 3075	09h 59m 54.8s	+14° 19' 58"	13.6	Galaxy	0.01x0.006	Leo	

Table 87: Main objects visible on chart 80 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3080	10h 00m 54.0s	+12° 57' 26"	13.6	Galaxy	0.007x0.006	Leo	
IC 2551	10h 11m 40.6s	+24° 19' 32"	13.6	Galaxy	0.008x0.006	Leo	
NGC 2711	08h 58m 24.2s	+17° 13' 04"	13.7	Galaxy	0.007x0.005	Cancer	
NGC 2752	09h 06m 43.7s	+18° 16' 01"	13.7	Galaxy	0.015x0.003	Cancer	
NGC 2774	09h 11m 40.7s	+18° 37' 21"	13.7	Galaxy	0.007x0.007	Cancer	
NGC 3134	10h 13m 26.8s	+12° 17' 15"	13.7	Galaxy	0.006x0.001	Leo	
IC 2423	08h 55m 48.8s	+20° 09' 03"	13.7	Galaxy	0.008x0.006	Cancer	
NGC 2929	09h 38m 31.0s	+23° 04' 46"	13.8	Galaxy	0.01x0.0025	Leo	
NGC 3088	10h 02m 08.5s	+22° 19' 08"	13.8	Galaxy	0.004x0.002	Leo	
NGC 2885	09h 28m 20.0s	+22° 56' 28"	13.9	Galaxy	0.005x0.003	Leo	
NGC 2801	09h 17m 45.2s	+19° 51' 33"	14.0	Galaxy	0.009x0.008	Cancer	
NGC 2803	09h 17m 44.5s	+18° 52' 42"	14.0	Galaxy	0.009x0.007	Cancer	
NGC 2896	09h 31m 18.6s	+23° 35' 02"	14.0	Galaxy	0.007x0.007	Leo	
NGC 2946	09h 40m 01.2s	+16° 56' 37"	14.0	Galaxy	0.01x0.003	Leo	
IC 2431	09h 05m 34.5s	+14° 31' 22"	14.0	Galaxy	0.004x0.003	Cancer	
IC 582	09h 59m 59.4s	+17° 43' 49"	14.0	Galaxy	0.007x0.007	Leo	
NGC 2737	09h 05m 01.6s	+21° 50' 03"	14.1	Galaxy	0.007x0.003	Cancer	
IC 2442	09h 11m 07.3s	+22° 45' 53"	14.1	Galaxy	0.004x0.004	Cancer	
IC 528	09h 10m 22.4s	+15° 43' 19"	14.1	Galaxy	0.012x0.006	Cancer	
IC 581	09h 59m 10.3s	+15° 51' 40"	14.1	Galaxy	0.008x0.003	Leo	
NGC 2923	09h 37m 03.4s	+16° 40' 47"	14.2	Galaxy	0.004x0.003	Leo	
NGC 2930	09h 38m 33.9s	+23° 07' 19"	14.2	Galaxy	0.005x0.003	Leo	
NGC 2931	09h 38m 38.9s	+23° 09' 32"	14.2	Galaxy	0.006x0.005	Leo	
IC 2441-2	09h 11m 05.0s	+22° 46' 39"	14.2	Galaxy	0.003x0.002	Cancer	IC 2441-2
NGC 2751	09h 06m 33.2s	+18° 11' 21"	14.3	Galaxy	0.006x0.005	Cancer	
NGC 2761	09h 08m 31.5s	+18° 21' 42"	14.3	Galaxy	0.005x0.003	Cancer	
NGC 2802	09h 17m 42.1s	+18° 53' 16"	14.3	Galaxy	0.009x0.005	Cancer	
NGC 2813	09h 18m 46.4s	+19° 49' 50"	14.3	Galaxy	0.010x0.009	Cancer	
IC 2441-1	09h 11m 04.0s	+22° 46' 51"	14.3	Galaxy	0.004x0.003	Cancer	IC 2441-1
NGC 2949-1	09h 40m 54.6s	+16° 42' 08"	14.4	Galaxy	0.005x0.002	Leo	2949-1
NGC 2949-2	09h 40m 56.9s	+16° 42' 17"	14.4	Galaxy	0.005x0.005	Leo	2949-2
NGC 3048-1	09h 55m 55.5s	+16° 22' 13"	14.4	Galaxy	0.005x0.002	Leo	3048-1
NGC 3119	10h 07m 46.0s	+14° 13' 02"	14.4	Galaxy	0.004x0.004	Leo	
IC 565	09h 48m 49.4s	+15° 46' 02"	14.4	Galaxy	0.013x0.001	Leo	
NGC 2747	09h 06m 19.2s	+18° 22' 13"	14.5	Galaxy	0.003x0.001	Cancer	
NGC 2790	09h 16m 03.7s	+19° 37' 19"	14.5	Galaxy	0.005x0.003	Cancer	
IC 2451	09h 16m 49.9s	+23° 25' 16"	14.5	Galaxy	0.003x0.003	Cancer	
IC 2463	09h 24m 01.9s	+22° 32' 29"	14.5	Galaxy	0.002x0.002	Leo	
IC 2464	09h 24m 23.9s	+22° 33' 09"	14.5	Galaxy	0.005x0.005	Leo	
IC 2465	09h 24m 33.7s	+24° 22' 06"	14.5	Galaxy	0.007x0.004	Leo	
IC 2466	09h 24m 47.0s	+24° 26' 24"	14.5	Galaxy	0.007x0.005	Leo	
IC 583	10h 00m 04.2s	+17° 44' 04"	14.5	Galaxy	0.007x0.001	Leo	
IC 2745	09h 05m 40.1s	+18° 11' 07"	14.6	Galaxy	0.003x0.001	Cancer	
NGC 2791	09h 16m 02.3s	+17° 31' 02"	14.6	Galaxy	0.006x0.002	Cancer	
IC 2933	09h 38m 54.6s	+16° 55' 59"	14.6	Galaxy	0.008x0.003	Leo	
NGC 2988	09h 47m 48.5s	+21° 55' 42"	14.6	Galaxy	0.007x0.001	Leo	

Table 87: Main objects visible on chart 80 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2422	08h 55m 26.0s	+20° 09' 22"	14.6	Galaxy	0.004x0.004	Cancer	
IC 2433	09h 06m 30.8s	+22° 31' 45"	14.6	Galaxy	0.007x0.003	Cancer	
IC 2452	09h 16m 59.7s	+23° 23' 49"	14.6	Galaxy	0.003x0.001	Cancer	
IC 2453	09h 16m 55.9s	+20° 51' 13"	14.6	Galaxy	0.004x0.002	Cancer	
IC 544	09h 36m 55.0s	+24° 48' 42"	14.6	Galaxy	0.006x0.001	Leo	
IC 2928	09h 38m 09.7s	+16° 53' 46"	14.7	Galaxy	0.009x0.005	Leo	
IC 2470	09h 26m 43.0s	+23° 16' 58"	14.7	Galaxy	0.005x0.005	Leo	
IC 2472	09h 27m 34.7s	+21° 18' 23"	14.7	Galaxy	0.004x0.002	Leo	
IC 2474	09h 28m 12.8s	+22° 57' 19"	14.7	Galaxy	0.004x0.001	Leo	
IC 570	09h 52m 49.8s	+15° 40' 16"	14.8	Galaxy	0.004x0.004	Leo	
IC 572	09h 53m 31.7s	+15° 44' 32"	14.8	Galaxy	0.004x0.004	Leo	
NGC 2741	09h 04m 17.4s	+18° 11' 19"	15.0	Galaxy	0.003x0.001	Cancer	
NGC 2807	09h 18m 01.8s	+19° 57' 36"	15.0	Galaxy	0.005x0.003	Cancer	
NGC 2807A	09h 17m 58.7s	+19° 57' 11"	15.0	Galaxy	0.004x0.002	Cancer	2807A
NGC 2905	09h 33m 12.8s	+21° 26' 18"	15.0	Galpart	8.333x8.333	Leo	
IC 2941	09h 39m 23.9s	+16° 57' 45"	15.0	Galaxy	0.006x0.004	Leo	
NGC 3040B	09h 54m 03.2s	+19° 21' 25"	15.0	Galaxy	0.003x0.001	Leo	3040B
NGC 3088B	10h 02m 10.1s	+22° 18' 52"	15.0	Galaxy	0.004x8.333	Leo	3088B
IC 2457	09h 18m 05.3s	+20° 01' 03"	15.0	Galaxy	0.004x0.002	Cancer	
IC 2462	09h 23m 58.0s	+22° 36' 30"	15.0	Galaxy	0.005x0.002	Leo	
IC 571	09h 53m 30.4s	+15° 41' 24"	15.1	Galaxy	0.008x0.005	Leo	
NGC 2812	09h 18m 41.8s	+19° 50' 34"	15.2	Galaxy	0.004x8.333	Cancer	
IC 3019	09h 51m 05.5s	+12° 39' 41"	15.2	Galaxy	0.006x0.003	Leo	
NGC 3048-2	09h 55m 57.0s	+16° 22' 24"	15.2	Galaxy	0.003x0.001	Leo	3048-2
IC 2873	09h 26m 46.9s	+11° 22' 34"	15.4	Galaxy	0.005x0.001	Leo	
IC 2734	09h 04m 01.9s	+16° 47' 32"	15.5	Galaxy	0.005x0.004	Cancer	
IC 2843	09h 21m 29.3s	+18° 50' 57"	15.5	Galaxy	0.003x0.001	Cancer	
NGC 2744A	09h 05m 39.6s	+18° 23' 01"	15.7	Galaxy	0.001x0.001	Cancer	2744A
IC 2934	09h 38m 54.7s	+16° 58' 24"	16.0	Galaxy	0.001x0.001	Leo	

7.82 Main objects visible on chart 81

Table 88: Main objects visible on chart 81

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3627	11h 21m 11.4s	+12° 53' 29"	8.9	Galaxy	0.075x0.034	Leo	M66
NGC 3368	10h 47m 42.7s	+11° 43' 29"	9.3	Galaxy	0.065x0.043	Leo	M96
NGC 3379	10h 48m 46.5s	+12° 29' 09"	9.3	Galaxy	0.044x0.04	Leo	M105
NGC 3623	11h 19m 51.9s	+12° 59' 32"	9.3	Galaxy	0.081x0.024	Leo	M65, Leo's Triplet
NGC 3628	11h 21m 13.0s	+13° 29' 29"	9.5	Galaxy	0.109x0.025	Leo	Hamburger galaxy
NGC 3351	10h 44m 54.8s	+11° 36' 31"	9.7	Galaxy	0.061x0.041	Leo	M95
NGC 3344	10h 44m 29.9s	+24° 49' 41"	9.9	Galaxy	0.059x0.054	Leo Minor	
NGC 3384	10h 49m 13.7s	+12° 31' 60"	9.9	Galaxy	0.045x0.022	Leo	
NGC 3607	11h 17m 51.3s	+17° 57' 13"	9.9	Galaxy	0.038x0.033	Leo	
NGC 3227	10h 24m 29.3s	+19° 46' 25"	10.3	Galaxy	0.034x0.032	Leo	

Table 88: Main objects visible on chart 81 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3489	11h 01m 15.3s	+13° 48' 14"	10.3	Galaxy	0.03x0.018	Leo	
NGC 3377	10h 48m 39.5s	+13° 53' 26"	10.4	Galaxy	0.041x0.025	Leo	
NGC 3412	10h 51m 50.3s	+13° 19' 01"	10.5	Galaxy	0.030x0.018	Leo	
NGC 3608	11h 17m 55.8s	+18° 02' 58"	10.8	Galaxy	0.026x0.021	Leo	
NGC 3193	10h 19m 24.3s	+21° 48' 12"	10.9	Galaxy	0.016x0.016	Leo	
NGC 3593	11h 15m 33.4s	+12° 43' 12"	10.9	Galaxy	0.043x0.015	Leo	
NGC 3632	11h 21m 00.3s	+18° 15' 29"	11.0	Galaxy	0.022x0.015	Leo	CALDWELL 40
NGC 3338	10h 43m 04.9s	+13° 39' 08"	11.1	Galaxy	0.047x0.028	Leo	
NGC 3646	11h 22m 40.0s	+20° 04' 13"	11.1	Galaxy	0.032x0.018	Leo	
NGC 3190	10h 19m 05.1s	+21° 44' 32"	11.2	Galaxy	0.036x0.012	Leo	
NGC 3681	11h 27m 26.1s	+16° 45' 53"	11.2	Galaxy	0.025x0.018	Leo	
NGC 3239	10h 26m 03.8s	+17° 04' 06"	11.3	Galaxy	0.0375x0.02	Leo	
NGC 3596	11h 16m 02.7s	+14° 41' 19"	11.3	Galaxy	0.033x0.031	Leo	
NGC 3226	10h 24m 25.8s	+19° 48' 21"	11.4	Galaxy	0.023x0.016	Leo	
NGC 3301	10h 37m 54.6s	+21° 47' 16"	11.4	Galaxy	0.027x0.008	Leo	
NGC 3684	11h 28m 07.5s	+16° 55' 54"	11.4	Galaxy	0.025x0.017	Leo	
NGC 3367	10h 47m 32.1s	+13° 39' 18"	11.5	Galaxy	0.020x0.02	Leo	
NGC 3162	10h 14m 31.3s	+22° 38' 51"	11.6	Galaxy	0.025x0.022	Leo	
IC 3370	10h 48m 01.7s	+17° 10' 43"	11.6	Galaxy	0.021x0.012	Leo	
NGC 3346	10h 44m 36.1s	+14° 46' 39"	11.7	Galaxy	0.022x0.021	Leo	
NGC 3655	11h 23m 51.2s	+16° 29' 27"	11.7	Galaxy	0.012x0.008	Leo	
NGC 3485	11h 00m 59.4s	+14° 44' 39"	11.8	Galaxy	0.02x0.018	Leo	
NGC 3389	10h 49m 25.0s	+12° 26' 15"	11.9	Galaxy	0.024x0.010	Leo	
NGC 3507	11h 04m 22.8s	+18° 02' 15"	11.9	Galaxy	0.028x0.024	Leo	
NGC 3455	10h 55m 28.3s	+17° 11' 18"	12.0	Galaxy	0.021x0.016	Leo	
NGC 3599	11h 16m 23.7s	+18° 00' 43"	12.0	Galaxy	0.022x0.017	Leo	
NGC 3300	10h 37m 36.0s	+14° 04' 39"	12.1	Galaxy	0.014x0.007	Leo	
NGC 3437	10h 53m 33.6s	+22° 50' 21"	12.1	Galaxy	0.021x0.006	Leo	
NGC 3185	10h 18m 37.9s	+21° 35' 53"	12.2	Galaxy	0.017x0.011	Leo	
NGC 3659	11h 24m 41.7s	+17° 43' 05"	12.2	Galaxy	0.019x0.010	Leo	
NGC 3287	10h 35m 46.1s	+21° 33' 16"	12.3	Galaxy	0.016x0.007	Leo	
NGC 3598	11h 16m 08.3s	+17° 09' 51"	12.3	Galaxy	0.015x0.010	Leo	
NGC 3605	11h 17m 43.4s	+17° 55' 08"	12.3	Galaxy	0.011x0.007	Leo	
NGC 3666	11h 25m 22.3s	+11° 14' 35"	12.3	Galaxy	0.036x0.008	Leo	
NGC 3177	10h 17m 33.5s	+21° 01' 58"	12.4	Galaxy	0.0125x0.01	Leo	
NGC 3248	10h 28m 44.6s	+22° 45' 19"	12.4	Galaxy	0.020x0.009	Leo	
NGC 3419	10h 52m 14.9s	+13° 50' 59"	12.5	Galaxy	0.01x0.008	Leo	
NGC 3447A	10h 54m 27.7s	+16° 41' 19"	12.5	Galaxy	0.012x0.006	Leo	3447A
NGC 3352	10h 45m 13.3s	+22° 16' 36"	12.6	Galaxy	0.013x0.01	Leo	
IC 642	10h 49m 05.7s	+18° 05' 36"	12.6	Galaxy	0.010x0.010	Leo	
NGC 3153	10h 13m 48.3s	+12° 34' 38"	12.7	Galaxy	0.017x0.007	Leo	
NGC 3299	10h 37m 21.2s	+12° 36' 49"	12.7	Galaxy	0.018x0.014	Leo	
NGC 3357	10h 45m 18.2s	+13° 59' 22"	12.7	Galaxy	0.010x0.01	Leo	
NGC 3457	10h 55m 46.1s	+17° 31' 31"	12.7	Galaxy	0.007x0.007	Leo	
NGC 3222	10h 23m 33.3s	+19° 47' 43"	12.8	Galaxy	0.01x0.008	Leo	
NGC 3230	10h 24m 41.5s	+12° 28' 33"	12.8	Galaxy	0.019x0.009	Leo	

Table 88: Main objects visible on chart 81 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3524	11h 07m 28.6s	+11° 17' 15"	12.8	Galaxy	0.013x0.004	Leo	
NGC 3559	11h 11m 41.5s	+11° 55' 06"	12.8	Galaxy	0.010x0.007	Leo	
NGC 3615	11h 19m 03.7s	+23° 17' 56"	12.8	Galaxy	0.011x0.007	Leo	
NGC 3399	10h 50m 25.1s	+16° 07' 24"	12.9	Galaxy	0.006x0.006	Leo	
NGC 3501	11h 03m 44.6s	+17° 53' 33"	12.9	Galaxy	0.032x0.004	Leo	
IC 677	11h 14m 53.0s	+12° 12' 12"	12.9	Galaxy	0.012x0.005	Leo	
NGC 3131	10h 09m 35.2s	+18° 08' 33"	13.0	Galaxy	0.02x0.005	Leo	
NGC 3391	10h 49m 53.6s	+14° 07' 26"	13.0	Galaxy	0.008x0.005	Leo	
NGC 3221	10h 23m 19.5s	+21° 28' 39"	13.1	Galaxy	0.025x0.005	Leo	
NGC 3270	10h 32m 29.5s	+24° 46' 36"	13.1	Galaxy	0.025x0.006	Leo	
NGC 3443	10h 53m 57.6s	+17° 28' 40"	13.1	Galaxy	0.023x0.011	Leo	
NGC 3475	10h 59m 23.4s	+24° 07' 49"	13.1	Galaxy	0.014x0.009	Leo	
NGC 3522	11h 07m 37.8s	+19° 59' 19"	13.1	Galaxy	0.01x0.005	Leo	
NGC 3426	10h 52m 39.4s	+18° 23' 07"	13.2	Galaxy	0.009x0.006	Leo	
NGC 3491	11h 01m 32.1s	+12° 03' 53"	13.2	Galaxy	0.007x0.007	Leo	
IC 607	10h 25m 06.8s	+16° 39' 00"	13.2	Galaxy	0.010x0.007	Leo	
NGC 3405-2	10h 50m 41.7s	+16° 08' 49"	13.3	Galaxy	0.006x0.006	Leo	3405-2
NGC 3447	10h 54m 21.4s	+16° 40' 33"	13.3	Galaxy	0.031x0.018	Leo	NGC 3447A
NGC 3454	10h 55m 26.8s	+17° 14' 51"	13.3	Galaxy	0.017x0.003	Leo	
NGC 3187	10h 18m 47.2s	+21° 47' 00"	13.4	Galaxy	0.03x0.013	Leo	
NGC 3216	10h 22m 41.0s	+23° 49' 56"	13.4	Galaxy	0.010x0.008	Leo	
NGC 3306	10h 38m 07.3s	+12° 33' 31"	13.4	Galaxy	0.011x0.004	Leo	
NGC 3327	10h 40m 56.8s	+23° 59' 51"	13.4	Galaxy	0.009x0.006	Leo Minor	
NGC 3363	10h 46m 08.0s	+21° 59' 01"	13.4	Galaxy	0.010x0.006	Leo	
NGC 3154	10h 13m 59.7s	+16° 56' 41"	13.5	Galaxy	0.007x0.003	Leo	
NGC 3213	10h 22m 16.3s	+19° 33' 38"	13.5	Galaxy	0.008x0.006	Leo	
NGC 3473	10h 59m 02.5s	+17° 01' 42"	13.5	Galaxy	0.009x0.008	Leo	
NGC 3551	11h 10m 41.7s	+21° 39' 41"	13.5	Galaxy	0.015x0.014	Leo	
NGC 3670	11h 25m 46.6s	+23° 50' 47"	13.5	Galaxy	0.009x0.005	Leo	
IC 616-1	10h 33m 45.3s	+15° 46' 03"	13.5	Galaxy	0.008x0.008	Leo	IC 616-1
IC 3253	10h 29m 24.7s	+12° 36' 41"	13.6	Galaxy	0.01x0.009	Leo	
NGC 3377A	10h 48m 19.4s	+13° 58' 29"	13.6	Galaxy	0.018x0.017	Leo	3377A
NGC 3618	11h 19m 29.6s	+23° 22' 13"	13.6	Galaxy	0.007x0.006	Leo	
NGC 3651-1	11h 23m 23.4s	+24° 11' 60"	13.6	Galaxy	0.009x0.009	Leo	3651-1
IC 2551	10h 11m 40.6s	+24° 19' 32"	13.6	Galaxy	0.008x0.006	Leo	
NGC 3134	10h 13m 26.8s	+12° 17' 15"	13.7	Galaxy	0.006x0.001	Leo	
NGC 3303	10h 37m 58.0s	+18° 02' 35"	13.7	Galaxy	0.014x0.010	Leo	
NGC 3592	11h 15m 24.3s	+17° 09' 40"	13.7	Galaxy	0.015x0.005	Leo	
IC 3639	11h 22m 32.2s	+18° 21' 35"	13.7	Galaxy	0.005x0.004	Leo	
NGC 3649	11h 23m 11.6s	+20° 06' 35"	13.7	Galaxy	0.011x0.005	Leo	
NGC 3653	11h 23m 27.1s	+24° 10' 51"	13.7	Galaxy	0.005x0.003	Leo	
IC 2666	11h 16m 40.3s	+13° 41' 02"	13.7	Galaxy	0.006x0.005	Leo	
IC 648-2	10h 51m 57.6s	+12° 11' 39"	13.7	Galaxy	0.006x0.005	Leo	IC 648-2
NGC 3474	10h 59m 06.0s	+16° 59' 58"	13.9	Galaxy	0.006x0.005	Leo	
NGC 3487	11h 01m 43.9s	+17° 29' 26"	13.9	Galaxy	0.007x0.003	Leo	
NGC 3650	11h 23m 32.2s	+20° 36' 21"	13.9	Galaxy	0.013x0.002	Leo	

Table 88: Main objects visible on chart 81 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2708	11h 19m 30.8s	+12° 36' 47"	13.9	Galaxy	0.004x0.004	Leo	
IC 2782	11h 23m 51.7s	+13° 20' 33"	13.9	Galaxy	0.009x0.007	Leo	
IC 610	10h 27m 27.2s	+20° 08' 06"	13.9	Galaxy	0.015x0.002	Leo	
IC 619	10h 34m 47.4s	+12° 47' 06"	13.9	Galaxy	0.008x0.006	Leo	
IC 635	10h 42m 42.9s	+15° 32' 56"	14.0	Galaxy	0.013x0.002	Leo	
IC 639	10h 46m 49.7s	+16° 50' 04"	14.0	Galaxy	0.009x0.002	Leo	
IC 648-1	10h 51m 57.1s	+12° 11' 31"	14.0	Galaxy	0.006x0.004	Leo	IC 648-1
NGC 3419A	10h 52m 16.9s	+13° 55' 39"	14.1	Galaxy	0.013x0.001	Leo	3419A
IC 2759	11h 23m 10.3s	+24° 13' 06"	14.1	Galaxy	0.003x0.003	Leo	
IC 2787	11h 24m 15.4s	+13° 31' 51"	14.1	Galaxy	0.005x0.005	Leo	
IC 2694-1	11h 18m 34.9s	+13° 16' 39"	14.2	Galaxy	0.003x0.001	Leo	IC 2694-1
IC 2804	11h 25m 51.9s	+13° 07' 25"	14.2	Galaxy	0.007x0.001	Leo	
IC 637	10h 43m 19.4s	+15° 15' 56"	14.2	Galaxy	0.008x0.004	Leo	
IC 667	11h 07m 33.3s	+14° 59' 30"	14.2	Galaxy	0.002x0.002	Leo	
IC 2661	11h 16m 25.6s	+13° 30' 38"	14.3	Galaxy	0.005x0.001	Leo	
IC 2720	11h 20m 31.8s	+11° 58' 42"	14.3	Galaxy	0.005x0.004	Leo	
IC 2763	11h 23m 14.7s	+12° 57' 59"	14.3	Galaxy	0.011x0.001	Leo	
IC 2769	11h 23m 21.9s	+14° 05' 51"	14.3	Galaxy	0.002x0.001	Leo	
IC 643	10h 50m 24.0s	+12° 06' 20"	14.3	Galaxy	0.005x0.001	Leo	
NGC 3405-1	10h 50m 40.7s	+16° 08' 37"	14.4	Galaxy	0.005x0.005	Leo	3405-1
IC 2567	10h 22m 57.8s	+24° 33' 50"	14.4	Galaxy	0.007x0.005	Leo	
IC 2569	10h 23m 53.4s	+24° 30' 56"	14.4	Galaxy	0.002x0.002	Leo	
IC 2703	11h 19m 01.8s	+17° 33' 05"	14.4	Galaxy	0.005x0.005	Leo	
IC 2777	11h 23m 36.8s	+11° 55' 36"	14.4	Galaxy	0.006x0.003	Leo	
IC 2786	11h 24m 13.8s	+13° 17' 38"	14.4	Galaxy	0.005x0.001	Leo	
IC 2810	11h 26m 41.2s	+14° 34' 39"	14.4	Galaxy	0.010x0.005	Leo	
IC 620	10h 34m 30.6s	+11° 46' 39"	14.4	Galaxy	0.005x0.002	Leo	
IC 3461	10h 55m 52.7s	+17° 36' 43"	14.5	Galaxy	0.004x0.003	Leo	
NGC 3588-1	11h 14m 59.5s	+20° 17' 17"	14.5	Galaxy	0.004x0.002	Leo	3588-1
IC 2562	10h 19m 52.7s	+16° 03' 51"	14.5	Galaxy	0.005x0.003	Leo	
IC 2628	11h 12m 34.2s	+12° 01' 28"	14.5	Galaxy	0.006x0.005	Leo	
IC 2684	11h 17m 57.4s	+13° 00' 04"	14.5	Galaxy	0.004x0.004	Leo	
IC 2698	11h 18m 47.4s	+11° 47' 12"	14.5	Galaxy	0.004x0.003	Leo	
IC 2718	11h 20m 17.1s	+11° 55' 26"	14.5	Galaxy	0.004x0.001	Leo	
IC 2745	11h 22m 28.0s	+13° 19' 41"	14.5	Galaxy	0.005x0.002	Leo	
IC 2704	11h 19m 00.2s	+12° 21' 18"	14.6	Galaxy	0.003x0.001	Leo	
IC 638	10h 44m 45.6s	+15° 48' 03"	14.6	Galaxy	0.005x0.001	Leo	
IC 668	11h 07m 36.2s	+14° 56' 37"	14.6	Galaxy	0.005x0.003	Leo	
NGC 3555	11h 10m 47.6s	+21° 42' 46"	14.7	Galaxy	0.003x0.002	Leo	
IC 2762	11h 23m 14.1s	+12° 37' 25"	14.7	Galaxy	0.006x0.001	Leo	
NGC 3651-2	11h 23m 23.3s	+24° 11' 50"	14.8	Galaxy	0.003x0.001	Leo	3651-2
IC 2679	11h 17m 19.5s	+11° 55' 01"	14.8	Galaxy	0.003x0.003	Leo	
IC 2722	11h 20m 40.3s	+13° 51' 54"	14.8	Galaxy	0.004x0.002	Leo	
IC 2645	11h 15m 27.1s	+11° 47' 18"	14.9	Galaxy	0.005x0.001	Leo	
IC 2776	11h 23m 36.3s	+13° 13' 55"	14.9	Galaxy	0.007x0.003	Leo	
IC 2819	11h 27m 23.8s	+13° 44' 44"	14.9	Galaxy	0.004x0.001	Leo	

Table 88: Main objects visible on chart 81 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3588-2	11h 14m 59.8s	+20° 17' 26"	15.0	Galaxy	0.002x0.001	Leo	3588-2
IC 3602	11h 16m 45.1s	+17° 19' 04"	15.0	Galaxy	0.006x0.001	Leo	
IC 2646	11h 15m 34.0s	+12° 25' 49"	15.0	Galaxy	0.003x0.001	Leo	
IC 2678	11h 17m 17.9s	+11° 51' 01"	15.0	Galaxy	0.004x0.001	Leo	
IC 2694-2	11h 18m 35.8s	+13° 16' 38"	15.0	Galaxy	0.001x0.001	Leo	IC 2694-2
IC 2734	11h 21m 20.1s	+12° 20' 39"	15.0	Galaxy	0.005x0.001	Leo	
IC 2821	11h 27m 31.1s	+13° 51' 48"	15.0	Galaxy	0.002x0.002	Leo	
IC 2629	11h 13m 33.3s	+12° 00' 23"	15.2	Galaxy	0.004x0.001	Leo	
IC 2650	11h 15m 48.9s	+13° 45' 16"	15.2	Galaxy	0.003x0.003	Leo	
IC 2651	11h 15m 48.6s	+12° 08' 29"	15.2	Galaxy	0.003x0.001	Leo	
IC 2654	11h 15m 59.3s	+12° 24' 06"	15.2	Galaxy	0.003x0.002	Leo	
IC 2656	11h 16m 01.7s	+12° 16' 50"	15.2	Galaxy	0.004x0.001	Leo	
IC 2657	11h 16m 05.2s	+13° 35' 47"	15.2	Galaxy	0.002x0.002	Leo	
IC 2660	11h 16m 24.8s	+12° 20' 18"	15.2	Galaxy	0.003x0.002	Leo	
IC 2667	11h 16m 40.3s	+12° 01' 07"	15.2	Galaxy	0.002x0.002	Leo	
IC 2670	11h 16m 55.8s	+11° 41' 05"	15.2	Galaxy	0.003x0.002	Leo	
IC 2689	11h 18m 16.1s	+12° 51' 44"	15.2	Galaxy	0.004x8.333	Leo	
IC 2700	11h 18m 50.4s	+11° 57' 22"	15.2	Galaxy	0.002x0.001	Leo	
IC 2727	11h 20m 56.2s	+11° 56' 04"	15.2	Galaxy	0.003x0.003	Leo	
IC 2752	11h 22m 58.3s	+14° 01' 32"	15.2	Galaxy	0.004x8.333	Leo	
IC 2754	11h 22m 58.7s	+14° 02' 42"	15.2	Galaxy	0.004x0.001	Leo	
IC 2766	11h 23m 19.2s	+12° 48' 18"	15.2	Galaxy	0.004x8.333	Leo	
IC 2768	11h 23m 19.7s	+12° 25' 48"	15.2	Galaxy	0.002x0.001	Leo	
IC 2785	11h 24m 11.6s	+13° 17' 34"	15.2	Galaxy	0.004x0.003	Leo	
IC 2792	11h 24m 37.6s	+11° 18' 19"	15.2	Galaxy	0.003x0.001	Leo	
IC 2800	11h 25m 23.1s	+12° 06' 35"	15.2	Galaxy	0.004x0.001	Leo	
IC 2812	11h 26m 52.0s	+11° 25' 52"	15.2	Galaxy	0.004x0.001	Leo	
IC 685	11h 23m 03.1s	+17° 39' 19"	15.2	Galaxy	0.003x0.002	Leo	
IC 2695	11h 18m 45.0s	+13° 37' 44"	15.3	Galaxy	0.003x0.002	Leo	
IC 2723	11h 20m 44.1s	+11° 56' 04"	15.3	Galaxy	0.002x0.002	Leo	
IC 2746	11h 22m 32.6s	+11° 38' 16"	15.3	Galaxy	0.002x0.001	Leo	
IC 2798	11h 25m 20.2s	+12° 19' 00"	15.3	Galaxy	0.006x8.333	Leo	
IC 2690	11h 18m 15.9s	+12° 51' 43"	15.4	Galaxy	0.005x0.001	Leo	
IC 2729	11h 21m 03.0s	+13° 18' 38"	15.4	Galaxy	0.002x8.333	Leo	
IC 2815	11h 27m 12.6s	+12° 42' 16"	15.4	Galaxy	0.003x0.001	Leo	
IC 2655	11h 16m 01.5s	+12° 03' 58"	15.5	Galaxy	0.001x0.001	Leo	
IC 2732	11h 21m 08.7s	+12° 18' 19"	15.5	Galaxy	0.002x0.002	Leo	
IC 2739	11h 22m 08.6s	+11° 48' 56"	15.5	Galaxy	0.001x0.001	Leo	
IC 2761	11h 23m 13.3s	+14° 04' 42"	15.5	Galaxy	0.001x0.001	Leo	
IC 2775	11h 23m 35.7s	+12° 24' 48"	15.5	Galaxy	0.001x0.001	Leo	
IC 2802	11h 25m 26.4s	+12° 06' 35"	15.5	Galaxy	0.001x0.001	Leo	
IC 2810B	11h 26m 45.8s	+14° 34' 10"	15.6	Galaxy	0.003x0.001	Leo	IC 2810B
IC 2633	11h 14m 06.4s	+11° 30' 12"	15.7	Galaxy	0.003x0.001	Leo	
IC 2665	11h 16m 37.1s	+11° 37' 32"	15.7	Galaxy	0.003x8.333	Leo	
IC 2683	11h 17m 50.6s	+12° 00' 02"	15.7	Galaxy	0.002x0.001	Leo	
IC 2716	11h 20m 12.5s	+11° 35' 60"	15.7	Galaxy	0.002x8.333	Leo	

Table 88: Main objects visible on chart 81 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2760	11h 23m 08.9s	+12° 34' 01"	15.7	Galaxy	0.002x0.001	Leo	
IC 2791	11h 24m 33.7s	+12° 47' 51"	15.7	Galaxy	0.002x8.333	Leo	
IC 2713	11h 20m 06.5s	+12° 03' 60"	15.9	Galaxy	0.002x0.002	Leo	
IC 2784	11h 24m 07.7s	+13° 01' 10"	15.9	Galaxy	0.003x0.001	Leo	
IC 2765	11h 23m 19.4s	+14° 05' 60"	16.0	Galaxy	0.001x0.001	Leo	
IC 2767	11h 23m 19.8s	+12° 58' 43"	16.0	Galaxy	0.004x8.333	Leo	
IC 2771	11h 23m 24.2s	+12° 25' 14"	16.0	Galaxy	0.001x0.001	Leo	
IC 616-2	10h 33m 45.1s	+15° 45' 08"	16.0	Galaxy	0.001x0.001	Leo	IC 616-2

7.83 Main objects visible on chart 82

Table 89: Main objects visible on chart 82

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel111	12h 23m 24.2s	+25° 45' 01"	2.7	Open cluster	2.291x2.291	Coma Berenices	Berenice Hair
NGC 4486	12h 31m 44.0s	+12° 17' 29"	8.6	Galaxy	0.069x0.055	Virgo	M87, Virgo A
NGC 3627	11h 21m 11.4s	+12° 53' 29"	8.9	Galaxy	0.075x0.034	Leo	M66
NGC 4406	12h 27m 06.2s	+12° 50' 49"	8.9	Galaxy	0.074x0.048	Virgo	M86
NGC 4374	12h 25m 58.3s	+12° 47' 14"	9.1	Galaxy	0.054x0.046	Virgo	M84, Markarian chain
NGC 4382	12h 26m 18.4s	+18° 05' 29"	9.1	Galaxy	0.059x0.045	Coma Berenices	M85
NGC 4321	12h 23m 49.6s	+15° 43' 23"	9.4	Galaxy	0.062x0.050	Coma Berenices	M100
NGC 3628	11h 21m 13.0s	+13° 29' 29"	9.5	Galaxy	0.109x0.025	Leo	Hamburger galaxy
NGC 4569	12h 37m 44.4s	+13° 03' 54"	9.5	Galaxy	0.079x0.036	Virgo	M90
NGC 4501	12h 32m 53.5s	+14° 19' 14"	9.6	Galaxy	0.056x0.030	Coma Berenices	M88
NGC 4579	12h 38m 38.2s	+11° 43' 10"	9.7	Galaxy	0.05x0.04	Virgo	M58
NGC 4552	12h 36m 34.4s	+12° 27' 26"	9.8	Galaxy	0.029x0.029	Virgo	M89
NGC 4254	12h 19m 44.1s	+14° 19' 04"	9.9	Galaxy	0.044x0.038	Coma Berenices	M99
NGC 4216	12h 16m 49.0s	+13° 02' 52"	10.0	Galaxy	0.067x0.015	Virgo	
NGC 4192	12h 14m 42.8s	+14° 47' 58"	10.1	Galaxy	0.081x0.023	Coma Berenices	M98
NGC 4450	12h 29m 23.7s	+16° 59' 05"	10.1	Galaxy	0.045x0.034	Coma Berenices	
NGC 4438	12h 28m 40.3s	+12° 54' 33"	10.2	Galaxy	0.070x0.025	Virgo	The Eyes
NGC 4473	12h 30m 43.3s	+13° 19' 49"	10.2	Galaxy	0.037x0.020	Coma Berenices	
NGC 4548	12h 36m 20.8s	+14° 23' 51"	10.2	Galaxy	0.043x0.035	Coma Berenices	M91
NGC 4153	12h 11m 01.2s	+18° 26' 33"	10.4	Globular cluster	0.036x0.036	Coma Berenices	
NGC 4293	12h 22m 07.5s	+18° 16' 59"	10.4	Galaxy	0.046x0.021	Coma Berenices	
NGC 4459	12h 29m 54.6s	+13° 52' 45"	10.4	Galaxy	0.029x0.022	Coma Berenices	
NGC 4477	12h 30m 56.6s	+13° 32' 15"	10.4	Galaxy	0.030x0.027	Coma Berenices	
NGC 3810	11h 41m 54.3s	+11° 22' 13"	10.8	Galaxy	0.035x0.025	Leo	
NGC 4371	12h 25m 50.2s	+11° 36' 16"	10.8	Galaxy	0.033x0.019	Virgo	
NGC 4435	12h 28m 35.2s	+12° 58' 49"	10.8	Galaxy	0.025x0.018	Virgo	The Eyes
NGC 4568	12h 37m 28.8s	+11° 08' 23"	10.8	Galaxy	0.038x0.018	Virgo	
NGC 4267	12h 20m 40.2s	+12° 41' 55"	10.9	Galaxy	0.025x0.023	Virgo	
NGC 4394	12h 26m 50.0s	+18° 06' 53"	10.9	Galaxy	0.028x0.026	Coma Berenices	
NGC 3632	11h 21m 00.3s	+18° 15' 29"	11.0	Galaxy	0.022x0.015	Leo	CALDWELL 40
NGC 4350	12h 24m 52.4s	+16° 35' 37"	11.0	Galaxy	0.024x0.013	Coma Berenices	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4388	12h 26m 41.6s	+12° 33' 45"	11.0	Galaxy	0.046x0.012	Virgo	
NGC 3646	11h 22m 40.0s	+20° 04' 13"	11.1	Galaxy	0.032x0.018	Leo	
NGC 4503	12h 33m 00.8s	+11° 04' 35"	11.1	Galaxy	0.029x0.014	Virgo	
NGC 4564	12h 37m 21.5s	+11° 20' 27"	11.1	Galaxy	0.029x0.012	Virgo	
NGC 3681	11h 27m 26.1s	+16° 45' 53"	11.2	Galaxy	0.025x0.018	Leo	
NGC 4168	12h 13m 12.2s	+13° 06' 16"	11.2	Galaxy	0.023x0.018	Virgo	
NGC 4208	12h 16m 34.1s	+13° 48' 07"	11.2	Galaxy	0.026x0.016	Coma Berenices	
NGC 4340	12h 24m 29.8s	+16° 37' 23"	11.2	Galaxy	0.025x0.016	Coma Berenices	
NGC 4419	12h 27m 51.0s	+14° 56' 54"	11.2	Galaxy	0.0275x0.01	Coma Berenices	
NGC 4461	12h 29m 57.5s	+13° 05' 06"	11.2	Galaxy	0.028x0.011	Virgo	
NGC 3686	11h 28m 40.5s	+17° 07' 27"	11.3	Galaxy	0.025x0.02	Leo	
NGC 4298	12h 22m 27.7s	+14° 30' 25"	11.3	Galaxy	0.026x0.015	Coma Berenices	
NGC 4567	12h 37m 27.3s	+11° 09' 32"	11.3	Galaxy	0.025x0.018	Virgo	Siamese twins
NGC 4571	12h 37m 50.8s	+14° 07' 07"	11.3	Galaxy	0.03x0.026	Coma Berenices	
NGC 3684	11h 28m 07.5s	+16° 55' 54"	11.4	Galaxy	0.025x0.017	Leo	
NGC 4531	12h 35m 10.3s	+12° 58' 36"	11.4	Galaxy	0.025x0.016	Virgo	
NGC 4064	12h 05m 06.2s	+18° 20' 35"	11.5	Galaxy	0.038x0.014	Coma Berenices	
NGC 4474	12h 30m 47.9s	+13° 58' 09"	11.5	Galaxy	0.02x0.013	Coma Berenices	
NGC 4478	12h 31m 12.0s	+12° 13' 45"	11.5	Galaxy	0.015x0.012	Virgo	
NGC 4237	12h 18m 06.3s	+15° 13' 24"	11.6	Galaxy	0.017x0.011	Coma Berenices	
NGC 4262	12h 20m 25.4s	+14° 46' 41"	11.6	Galaxy	0.015x0.013	Coma Berenices	
NGC 4302	12h 22m 37.0s	+14° 29' 55"	11.6	Galaxy	0.044x0.008	Coma Berenices	
NGC 4421	12h 27m 57.1s	+15° 21' 41"	11.6	Galaxy	0.022x0.016	Coma Berenices	
NGC 3655	11h 23m 51.2s	+16° 29' 27"	11.7	Galaxy	0.012x0.008	Leo	
NGC 3872	11h 46m 44.6s	+13° 39' 60"	11.7	Galaxy	0.015x0.01	Leo	
NGC 4189	12h 14m 42.2s	+13° 19' 29"	11.7	Galaxy	0.020x0.014	Coma Berenices	
NGC 4312	12h 23m 26.1s	+15° 26' 18"	11.7	Galaxy	0.038x0.009	Coma Berenices	
NGC 4379	12h 26m 09.3s	+15° 30' 29"	11.7	Galaxy	0.016x0.013	Coma Berenices	
NGC 4440	12h 28m 48.2s	+12° 11' 38"	11.7	Galaxy	0.015x0.013	Virgo	
NGC 4540	12h 35m 45.2s	+15° 27' 08"	11.7	Galaxy	0.015x0.012	Coma Berenices	
NGC 4550	12h 36m 25.1s	+12° 07' 19"	11.7	Galaxy	0.027x0.007	Virgo	
NGC 3842	11h 44m 57.9s	+19° 51' 00"	11.8	Galaxy	0.011x0.008	Leo	
NGC 3968	11h 56m 24.1s	+11° 52' 06"	11.8	Galaxy	0.022x0.015	Leo	
IC 4402	12h 27m 02.5s	+13° 00' 49"	11.8	Galaxy	0.032x0.009	Virgo	
NGC 4425	12h 28m 08.0s	+12° 38' 07"	11.8	Galaxy	0.023x0.008	Virgo	
NGC 4037	12h 02m 19.1s	+13° 18' 01"	11.9	Galaxy	0.02x0.018	Coma Berenices	
NGC 4377-1	12h 26m 07.0s	+14° 39' 45"	11.9	Galaxy	0.014x0.010	Coma Berenices	4377-1
NGC 4413	12h 27m 26.8s	+12° 30' 39"	11.9	Galaxy	0.019x0.011	Virgo	
NGC 3773	11h 39m 08.8s	+12° 00' 46"	12.0	Galaxy	0.01x0.008	Leo	
NGC 3801	11h 41m 12.8s	+17° 37' 40"	12.0	Galaxy	0.020x0.013	Leo	
NGC 4313	12h 23m 33.1s	+11° 42' 05"	12.0	Galaxy	0.031x0.007	Virgo	
NGC 4405	12h 27m 01.6s	+16° 04' 54"	12.0	Galaxy	0.013x0.009	Coma Berenices	
NGC 4452	12h 29m 38.0s	+11° 39' 20"	12.0	Galaxy	0.022x0.005	Virgo	
NGC 4489	12h 31m 46.6s	+16° 39' 36"	12.0	Galaxy	0.014x0.013	Coma Berenices	
NGC 4539	12h 35m 28.8s	+18° 06' 13"	12.0	Galaxy	0.027x0.011	Coma Berenices	
NGC 4551	12h 36m 32.5s	+12° 09' 54"	12.0	Galaxy	0.015x0.011	Virgo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3798	11h 41m 10.2s	+24° 35' 50"	12.1	Galaxy	0.019x0.01	Leo	
NGC 4158	12h 12m 05.1s	+20° 04' 33"	12.1	Galaxy	0.016x0.015	Coma Berenices	
NGC 4294	12h 22m 12.7s	+11° 24' 36"	12.1	Galaxy	0.026x0.01	Virgo	
NGC 4383	12h 26m 20.1s	+16° 22' 14"	12.1	Galaxy	0.016x0.008	Coma Berenices	
NGC 4387	12h 26m 36.4s	+12° 42' 39"	12.1	Galaxy	0.014x0.009	Virgo	
NGC 4458	12h 29m 52.3s	+13° 08' 34"	12.1	Galaxy	0.013x0.012	Virgo	
NGC 4498	12h 32m 33.8s	+16° 45' 13"	12.1	Galaxy	0.024x0.009	Coma Berenices	
NGC 4528	12h 35m 00.6s	+11° 13' 19"	12.1	Galaxy	0.013x0.008	Virgo	
NGC 3659	11h 24m 41.7s	+17° 43' 05"	12.2	Galaxy	0.019x0.010	Leo	
NGC 4152	12h 11m 32.5s	+15° 55' 59"	12.2	Galaxy	0.019x0.015	Coma Berenices	
NGC 4162	12h 12m 47.3s	+24° 01' 26"	12.2	Galaxy	0.019x0.011	Coma Berenices	
NGC 4206	12h 16m 11.7s	+12° 55' 22"	12.2	Galaxy	0.053x0.009	Virgo	
NGC 4476	12h 30m 53.7s	+12° 14' 57"	12.2	Galaxy	0.015x0.010	Virgo	
NGC 3666	11h 25m 22.3s	+11° 14' 35"	12.3	Galaxy	0.036x0.008	Leo	
NGC 4028	11h 59m 31.2s	+16° 04' 37"	12.3	Galaxy	0.011x0.007	Coma Berenices	
NGC 4032	12h 01m 28.2s	+19° 58' 28"	12.3	Galaxy	0.013x0.01	Coma Berenices	
NGC 4193	12h 14m 48.4s	+13° 04' 22"	12.3	Galaxy	0.018x0.009	Virgo	
NGC 4204	12h 16m 08.9s	+20° 33' 32"	12.3	Galaxy	0.03x0.024	Coma Berenices	
NGC 4344	12h 24m 32.1s	+17° 26' 31"	12.3	Galaxy	0.014x0.013	Coma Berenices	
NGC 4455	12h 29m 38.1s	+22° 43' 18"	12.3	Galaxy	0.021x0.006	Coma Berenices	
NGC 4515	12h 33m 59.2s	+16° 09' 59"	12.3	Galaxy	0.011x0.009	Coma Berenices	
NGC 3691	11h 29m 05.7s	+16° 49' 15"	12.4	Galaxy	0.011x0.008	Leo	
NGC 3768	11h 38m 10.5s	+17° 44' 23"	12.4	Galaxy	0.013x0.007	Leo	
NGC 3812	11h 42m 04.0s	+24° 43' 21"	12.4	Galaxy	0.014x0.013	Leo	
NGC 3853	11h 45m 24.1s	+16° 27' 30"	12.4	Galaxy	0.013x0.008	Leo	
NGC 4330	12h 24m 11.9s	+11° 16' 08"	12.4	Galaxy	0.037x0.007	Virgo	
NGC 4479	12h 31m 12.9s	+13° 28' 43"	12.4	Galaxy	0.013x0.010	Coma Berenices	
NGC 3816	11h 42m 43.8s	+20° 00' 13"	12.5	Galaxy	0.015x0.009	Leo	
NGC 3937	11h 53m 38.2s	+20° 31' 53"	12.5	Galaxy	0.015x0.013	Leo	
NGC 4213	12h 16m 32.1s	+23° 52' 55"	12.5	Galaxy	0.014x0.014	Coma Berenices	
NGC 4299	12h 22m 35.4s	+11° 24' 06"	12.5	Galaxy	0.014x0.013	Virgo	
NGC 4336	12h 24m 24.2s	+19° 19' 38"	12.5	Galaxy	0.016x0.007	Coma Berenices	
NGC 4486A	12h 31m 52.3s	+12° 10' 19"	12.5	Galaxy	0.006x0.005	Virgo	4486A
NGC 4497	12h 32m 27.3s	+11° 31' 33"	12.5	Galaxy	0.015x0.006	Virgo	
NGC 4561	12h 37m 02.1s	+19° 13' 22"	12.5	Galaxy	0.012x0.010	Coma Berenices	
IC 3392	12h 29m 37.7s	+14° 53' 59"	12.5	Galaxy	0.019x0.008	Coma Berenices	
NGC 3884	11h 47m 08.0s	+20° 17' 29"	12.6	Galaxy	0.017x0.011	Leo	
NGC 4065	12h 05m 01.5s	+20° 08' 08"	12.6	Galaxy	0.009x0.008	Coma Berenices	
NGC 4305	12h 22m 58.4s	+12° 38' 28"	12.6	Galaxy	0.018x0.01	Virgo	
NGC 4306	12h 22m 59.0s	+12° 41' 16"	12.6	Galaxy	0.013x0.009	Virgo	
IC 4351	12h 24m 56.3s	+12° 06' 18"	12.6	Galaxy	0.016x0.011	Virgo	
IC 4352	12h 24m 59.7s	+11° 07' 05"	12.6	Galaxy	0.016x0.008	Virgo	
NGC 4396	12h 26m 53.8s	+15° 34' 18"	12.6	Galaxy	0.027x0.008	Coma Berenices	
NGC 4491	12h 31m 51.8s	+11° 23' 03"	12.6	Galaxy	0.013x0.006	Virgo	
IC 769	12h 13m 27.3s	+12° 01' 24"	12.6	Galaxy	0.020x0.014	Virgo	
NGC 3800	11h 41m 09.2s	+15° 14' 33"	12.7	Galaxy	0.016x0.005	Leo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3805	11h 41m 37.7s	+20° 14' 37"	12.7	Galaxy	0.011x0.009	Leo	
NGC 3861A	11h 45m 59.7s	+19° 52' 25"	12.7	Galaxy	0.019x0.010	Leo	3861A
NGC 3862	11h 46m 00.9s	+19° 30' 23"	12.7	Galaxy	0.012x0.012	Leo	
NGC 3883	11h 47m 43.0s	+20° 34' 33"	12.7	Galaxy	0.023x0.019	Leo	
NGC 4506	12h 33m 05.0s	+13° 19' 16"	12.7	Galaxy	0.013x0.009	Coma Berenices	
IC 3476	12h 33m 36.3s	+13° 57' 03"	12.7	Galaxy	0.016x0.011	Coma Berenices	
NGC 3615	11h 19m 03.7s	+23° 17' 56"	12.8	Galaxy	0.011x0.007	Leo	
NGC 3910	11h 50m 55.0s	+21° 14' 02"	12.8	Galaxy	0.013x0.01	Leo	
NGC 3940	11h 53m 42.1s	+20° 53' 22"	12.8	Galaxy	0.014x0.013	Leo	
NGC 4239	12h 18m 09.7s	+16° 25' 54"	12.8	Galaxy	0.011x0.005	Coma Berenices	
NGC 4468	12h 30m 25.5s	+13° 56' 59"	12.8	Galaxy	0.011x0.009	Coma Berenices	
NGC 4516	12h 34m 01.9s	+14° 28' 32"	12.8	Galaxy	0.015x0.007	Coma Berenices	
NGC 3821	11h 43m 05.0s	+20° 12' 55"	12.9	Galaxy	0.011x0.010	Leo	
NGC 3873	11h 46m 41.9s	+19° 40' 26"	12.9	Galaxy	0.012x0.010	Leo	
NGC 4066	12h 05m 04.6s	+20° 14' 51"	12.9	Galaxy	0.01x0.01	Coma Berenices	
NGC 4431	12h 28m 22.1s	+12° 11' 28"	12.9	Galaxy	0.014x0.008	Virgo	
NGC 4584	12h 39m 12.2s	+13° 00' 42"	12.9	Galaxy	0.011x0.008	Virgo	
NGC 3701	11h 30m 25.6s	+23° 59' 39"	13.0	Galaxy	0.015x0.007	Leo	
NGC 3728	11h 34m 12.3s	+24° 20' 53"	13.0	Galaxy	0.016x0.012	Leo	
NGC 3815	11h 42m 35.5s	+24° 42' 01"	13.0	Galaxy	0.014x0.007	Leo	
NGC 3832	11h 44m 27.5s	+22° 37' 31"	13.0	Galaxy	0.015x0.013	Leo	
IC 4200	12h 15m 39.3s	+12° 04' 51"	13.0	Galaxy	0.012x0.006	Virgo	
NGC 4328	12h 24m 14.6s	+15° 43' 14"	13.0	Galaxy	0.010x0.007	Coma Berenices	
NGC 4436	12h 28m 36.0s	+12° 12' 59"	13.0	Galaxy	0.012x0.006	Virgo	
NGC 3697	11h 29m 47.0s	+20° 41' 44"	13.1	Galaxy	0.02x0.005	Leo	
NGC 3710	11h 32m 03.5s	+22° 40' 09"	13.1	Galaxy	0.008x0.006	Leo	
NGC 3731	11h 35m 07.5s	+12° 24' 47"	13.1	Galaxy	0.008x0.007	Leo	
NGC 3886	11h 48m 01.3s	+19° 44' 14"	13.1	Galaxy	0.01x0.0075	Leo	
NGC 4061	12h 04m 56.7s	+20° 07' 57"	13.1	Galaxy	0.01x0.0075	Coma Berenices	
NGC 4070	12h 05m 06.5s	+20° 18' 34"	13.1	Galaxy	0.008x0.008	Coma Berenices	
NGC 4098-1	12h 06m 58.7s	+20° 30' 27"	13.1	Galaxy	0.01x0.0075	Coma Berenices	4098-1
NGC 4166	12h 13m 04.6s	+17° 39' 26"	13.1	Galaxy	0.01x0.008	Coma Berenices	
IC 3258	12h 24m 39.3s	+12° 22' 44"	13.1	Galaxy	0.013x0.010	Virgo	
IC 3475	12h 33m 35.2s	+12° 40' 13"	13.1	Galaxy	0.014x0.013	Virgo	
IC 700	11h 30m 11.7s	+20° 29' 00"	13.1	Galaxy	0.008x0.004	Leo	
IC 791	12h 27m 53.6s	+22° 32' 26"	13.1	Galaxy	0.009x0.009	Coma Berenices	
IC 794	12h 29m 03.2s	+11° 59' 40"	13.1	Galaxy	0.010x0.008	Virgo	
IC 796	12h 30m 20.7s	+16° 18' 19"	13.1	Galaxy	0.010x0.005	Coma Berenices	
NGC 3867	11h 46m 25.5s	+19° 18' 01"	13.2	Galaxy	0.012x0.005	Leo	
NGC 3947	11h 54m 15.9s	+20° 39' 05"	13.2	Galaxy	0.011x0.01	Leo	
NGC 4019	12h 02m 05.8s	+14° 00' 14"	13.2	Galaxy	0.02x0.0025	Coma Berenices	
IC 3019	12h 10m 17.4s	+13° 53' 32"	13.2	Galaxy	0.011x0.010	Coma Berenices	
NGC 3802	11h 41m 14.7s	+17° 39' 56"	13.3	Galaxy	0.009x0.002	Leo	
NGC 3827	11h 43m 32.2s	+18° 44' 43"	13.3	Galaxy	0.007x0.006	Leo	
NGC 3837	11h 44m 52.5s	+19° 47' 41"	13.3	Galaxy	0.006x0.006	Leo	
NGC 3919	11h 51m 37.2s	+19° 54' 55"	13.3	Galaxy	0.007x0.007	Leo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4003	11h 58m 54.4s	+23° 01' 30"	13.3	Galaxy	0.012x0.007	Leo	
NGC 4040	12h 03m 00.7s	+17° 43' 25"	13.3	Galaxy	0.015x0.010	Coma Berenices	
NGC 4092	12h 06m 45.3s	+20° 22' 38"	13.3	Galaxy	0.008x0.008	Coma Berenices	
NGC 4155	12h 11m 40.5s	+18° 56' 28"	13.3	Galaxy	0.009x0.008	Coma Berenices	
NGC 4222	12h 17m 17.5s	+13° 12' 25"	13.3	Galaxy	0.025x0.004	Virgo	
IC 3358	12h 27m 49.2s	+11° 33' 50"	13.3	Galaxy	0.01x0.006	Virgo	
IC 3470	12h 33m 18.0s	+11° 09' 51"	13.3	Galaxy	0.005x0.005	Virgo	
IC 3478	12h 33m 38.7s	+14° 05' 49"	13.3	Galaxy	0.009x0.008	Coma Berenices	
IC 3583	12h 37m 38.2s	+13° 09' 37"	13.3	Galaxy	0.018x0.009	Virgo	
IC 775	12h 19m 48.4s	+12° 48' 48"	13.3	Galaxy	0.01x0.0075	Virgo	
IC 781	12h 20m 58.2s	+14° 51' 42"	13.3	Galaxy	0.009x0.007	Coma Berenices	
IC 797	12h 32m 49.2s	+15° 01' 28"	13.3	Galaxy	0.010x0.007	Coma Berenices	
NGC 3767	11h 38m 11.6s	+16° 46' 40"	13.4	Galaxy	0.008x0.007	Leo	
NGC 3860A	11h 45m 45.1s	+19° 41' 42"	13.4	Galaxy	0.008x0.005	Leo	3860A
NGC 3943	11h 53m 52.2s	+20° 22' 44"	13.4	Galaxy	0.009x0.009	Leo	
NGC 4076	12h 05m 27.8s	+20° 06' 15"	13.4	Galaxy	0.007x0.006	Coma Berenices	
NGC 4126	12h 09m 32.5s	+16° 02' 35"	13.4	Galaxy	0.009x0.006	Coma Berenices	
NGC 4486B	12h 31m 26.6s	+12° 23' 29"	13.4	Galaxy	0.005x0.005	Virgo	4486B
IC 3381	12h 29m 09.5s	+11° 41' 24"	13.4	Galaxy	0.01x0.0075	Virgo	
IC 3391	12h 29m 21.7s	+18° 18' 57"	13.4	Galaxy	0.009x0.006	Coma Berenices	
IC 3481	12h 33m 46.9s	+11° 18' 20"	13.4	Galaxy	0.006x0.005	Virgo	
IC 3481A	12h 33m 51.4s	+11° 17' 29"	13.4	Galaxy	0.001x0.001	Virgo	IC 3481A, Zwicky's triplet
IC 800	12h 34m 51.1s	+15° 15' 19"	13.4	Galaxy	0.013x0.01	Coma Berenices	
NGC 3670	11h 25m 46.6s	+23° 50' 47"	13.5	Galaxy	0.009x0.005	Leo	
NGC 3772	11h 38m 44.7s	+22° 35' 27"	13.5	Galaxy	0.009x0.005	Leo	
NGC 3808	11h 41m 40.2s	+22° 19' 47"	13.5	Galaxy	0.013x0.007	Leo	
NGC 3834	11h 44m 33.6s	+18° 59' 26"	13.5	Galaxy	0.011x0.008	Leo	
NGC 3996	11h 58m 41.5s	+14° 11' 50"	13.5	Galaxy	0.007x0.005	Leo	
NGC 4165	12h 13m 06.8s	+13° 08' 46"	13.5	Galaxy	0.01x0.006	Virgo	
IC 3044	12h 13m 43.4s	+13° 52' 34"	13.5	Galaxy	0.016x0.006	Coma Berenices	
NGC 3618	11h 19m 29.6s	+23° 22' 13"	13.6	Galaxy	0.007x0.006	Leo	
NGC 3651-1	11h 23m 23.4s	+24° 11' 60"	13.6	Galaxy	0.009x0.009	Leo	3651-1
NGC 3806	11h 41m 42.7s	+17° 41' 44"	13.6	Galaxy	0.018x0.015	Leo	
NGC 3841	11h 44m 58.0s	+19° 52' 20"	13.6	Galaxy	0.005x0.004	Leo	
NGC 3933	11h 52m 57.5s	+16° 42' 35"	13.6	Galaxy	0.009x0.005	Leo	
NGC 3934	11h 53m 08.1s	+16° 45' 05"	13.6	Galaxy	0.009x0.008	Leo	
NGC 3951	11h 54m 36.9s	+23° 16' 55"	13.6	Galaxy	0.009x0.004	Leo	
NGC 4053	12h 04m 06.7s	+19° 37' 44"	13.6	Galaxy	0.01x0.004	Coma Berenices	
NGC 4086	12h 06m 24.4s	+20° 08' 49"	13.6	Galaxy	0.008x0.007	Coma Berenices	
NGC 4095	12h 06m 49.3s	+20° 28' 24"	13.6	Galaxy	0.010x0.008	Coma Berenices	
IC 2822	11h 27m 30.0s	+11° 20' 26"	13.6	Galaxy	0.012x0.005	Leo	
IC 2951	11h 44m 20.4s	+19° 38' 59"	13.6	Galaxy	0.011x0.005	Leo	
IC 3061	12h 15m 59.2s	+13° 55' 44"	13.6	Galaxy	0.018x0.003	Coma Berenices	
IC 3065	12h 16m 07.4s	+14° 20' 01"	13.6	Galaxy	0.009x0.006	Coma Berenices	
IC 3365	12h 28m 06.0s	+15° 47' 51"	13.6	Galaxy	0.014x0.005	Coma Berenices	
IC 3413	12h 30m 17.3s	+11° 20' 03"	13.6	Galaxy	0.008x0.005	Virgo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3442	12h 32m 14.7s	+14° 00' 55"	13.6	Galaxy	0.007x0.006	Coma Berenices	
IC 3586	12h 37m 49.4s	+12° 25' 17"	13.6	Galaxy	0.009x0.008	Virgo	
IC 3639	11h 22m 32.2s	+18° 21' 35"	13.7	Galaxy	0.005x0.004	Leo	
NGC 3649	11h 23m 11.6s	+20° 06' 35"	13.7	Galaxy	0.011x0.005	Leo	
NGC 3653	11h 23m 27.1s	+24° 10' 51"	13.7	Galaxy	0.005x0.003	Leo	
NGC 3753	11h 38m 50.1s	+21° 52' 54"	13.7	Galaxy	0.014x0.004	Leo	
NGC 3787	11h 40m 34.2s	+20° 21' 19"	13.7	Galaxy	0.003x0.002	Leo	
NGC 3808A	11h 41m 40.9s	+22° 20' 48"	13.7	Galaxy	0.007x0.002	Leo	3808A
NGC 3954	11h 54m 37.3s	+20° 46' 56"	13.7	Galaxy	0.005x0.005	Leo	
NGC 4048	12h 03m 45.3s	+17° 54' 55"	13.7	Galaxy	0.005x0.004	Coma Berenices	
NGC 4089	12h 06m 32.6s	+20° 27' 22"	13.7	Galaxy	0.006x0.006	Coma Berenices	
NGC 4110	12h 07m 58.5s	+18° 25' 54"	13.7	Galaxy	0.010x0.005	Coma Berenices	
IC 3036	12h 13m 10.2s	+12° 23' 19"	13.7	Galaxy	0.013x0.01	Virgo	
IC 3094	12h 17m 50.8s	+13° 31' 32"	13.7	Galaxy	0.004x0.004	Coma Berenices	
IC 3436	12h 31m 24.1s	+19° 34' 28"	13.7	Galaxy	0.003x0.001	Coma Berenices	
IC 768	12h 12m 42.6s	+12° 02' 35"	13.7	Galaxy	0.011x0.005	Virgo	
NGC 3840	11h 44m 54.9s	+19° 58' 37"	13.8	Galaxy	0.009x0.006	Leo	
NGC 4186	12h 15m 01.4s	+14° 37' 33"	13.8	Galaxy	0.008x0.006	Coma Berenices	
IC 2945	11h 38m 00.1s	+12° 49' 38"	13.8	Galaxy	0.008x0.006	Leo	
IC 3029	12h 11m 36.9s	+13° 13' 53"	13.8	Galaxy	0.011x0.003	Coma Berenices	
IC 3032	12h 12m 02.8s	+14° 10' 31"	13.8	Galaxy	0.008x0.007	Coma Berenices	
IC 3303	12h 26m 09.9s	+12° 36' 55"	13.8	Galaxy	0.008x0.005	Virgo	
IC 3418	12h 30m 37.2s	+11° 18' 05"	13.8	Galaxy	0.012x0.008	Virgo	
IC 3492	12h 34m 14.3s	+12° 45' 17"	13.8	Galaxy	0.005x0.003	Virgo	
IC 707	11h 34m 41.0s	+21° 16' 50"	13.8	Galaxy	0.004x0.003	Leo	
IC 737	11h 49m 23.1s	+12° 37' 38"	13.8	Galaxy	0.005x0.004	Leo	
IC 739	11h 52m 27.0s	+23° 45' 45"	13.8	Galaxy	0.009x0.006	Leo	
IC 767	12h 11m 57.9s	+12° 00' 15"	13.8	Galaxy	0.005x0.004	Virgo	
IC 783	12h 22m 33.5s	+15° 38' 42"	13.8	Galaxy	0.01x0.006	Coma Berenices	
NGC 3650	11h 23m 32.2s	+20° 36' 21"	13.9	Galaxy	0.013x0.002	Leo	
NGC 3750	11h 38m 47.9s	+21° 52' 30"	13.9	Galaxy	0.004x0.003	Leo	
NGC 3761	11h 37m 40.5s	+22° 53' 34"	13.9	Galaxy	0.007x0.006	Leo	
NGC 3790	11h 40m 43.2s	+17° 36' 45"	13.9	Galaxy	0.009x0.002	Leo	
IC 3799	11h 41m 05.2s	+15° 13' 40"	13.9	Galaxy	0.005x0.004	Leo	
NGC 3844	11h 44m 56.8s	+19° 55' 46"	13.9	Galaxy	0.01x0.001	Leo	
NGC 3875	11h 46m 45.3s	+19° 40' 03"	13.9	Galaxy	0.008x0.002	Leo	
NGC 4049	12h 03m 49.7s	+18° 39' 08"	13.9	Galaxy	0.007x0.005	Coma Berenices	
NGC 4090	12h 06m 23.1s	+20° 12' 32"	13.9	Galaxy	0.01x0.004	Coma Berenices	
NGC 4322	12h 23m 56.4s	+15° 48' 20"	13.9	Galaxy	0.009x0.006	Coma Berenices	
NGC 4446	12h 29m 01.4s	+13° 48' 46"	13.9	Galaxy	0.009x0.007	Coma Berenices	
NGC 4502	12h 32m 57.5s	+16° 35' 20"	13.9	Galaxy	0.009x0.005	Coma Berenices	
IC 2782	11h 23m 51.7s	+13° 20' 33"	13.9	Galaxy	0.009x0.007	Leo	
IC 3060	12h 15m 57.0s	+12° 26' 52"	13.9	Galaxy	0.007x0.004	Virgo	
IC 3063	12h 16m 01.8s	+11° 54' 58"	13.9	Galaxy	0.008x0.005	Virgo	
IC 3100	12h 18m 00.3s	+12° 11' 22"	13.9	Galaxy	0.012x0.004	Virgo	
IC 3349	12h 27m 41.8s	+12° 21' 16"	13.9	Galaxy	0.007x0.006	Virgo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3457	12h 32m 46.0s	+12° 33' 29"	13.9	Galaxy	0.01x0.006	Virgo	
IC 3501	12h 34m 46.0s	+13° 13' 24"	13.9	Galaxy	0.005x0.005	Coma Berenices	
IC 3509	12h 35m 06.1s	+11° 57' 01"	13.9	Galaxy	0.007x0.005	Virgo	
IC 742	11h 51m 57.9s	+20° 41' 58"	13.9	Galaxy	0.01x0.009	Leo	
IC 771	12h 16m 08.1s	+13° 05' 04"	13.9	Galaxy	0.005x0.003	Virgo	
NGC 3845	11h 45m 01.4s	+19° 53' 46"	14.0	Galaxy	0.006x0.002	Leo	
NGC 3929	11h 52m 38.2s	+20° 54' 11"	14.0	Galaxy	0.005x0.003	Leo	
NGC 3983	11h 57m 19.1s	+23° 46' 04"	14.0	Galaxy	0.009x0.002	Leo	
IC 4447	12h 29m 07.0s	+13° 48' 01"	14.0	Galaxy	0.007x0.005	Coma Berenices	
IC 3008	12h 08m 46.9s	+13° 28' 40"	14.0	Galaxy	0.007x0.003	Coma Berenices	
IC 3062	12h 16m 00.1s	+13° 29' 40"	14.0	Galaxy	0.007x0.004	Coma Berenices	
IC 3091	12h 17m 24.1s	+13° 54' 45"	14.0	Galaxy	0.010x0.005	Coma Berenices	
IC 3108	12h 18m 37.5s	+13° 16' 46"	14.0	Galaxy	0.005x0.003	Coma Berenices	
IC 3530	12h 35m 43.6s	+17° 42' 52"	14.0	Galaxy	0.011x0.009	Coma Berenices	
IC 3540	12h 36m 21.7s	+12° 39' 07"	14.0	Galaxy	0.005x0.005	Virgo	
IC 792	12h 28m 03.3s	+16° 13' 32"	14.0	Galaxy	0.013x0.005	Coma Berenices	
NGC 3746	11h 38m 39.9s	+21° 54' 36"	14.1	Galaxy	0.009x0.004	Leo	
NGC 3765	11h 38m 00.7s	+23° 59' 48"	14.1	Galaxy	0.006x0.005	Leo	
NGC 3857	11h 45m 46.0s	+19° 25' 59"	14.1	Galaxy	0.008x0.005	Leo	
IC 3859	11h 45m 48.3s	+19° 21' 17"	14.1	Galaxy	0.01x0.0025	Leo	
NGC 4002	11h 58m 54.7s	+23° 06' 09"	14.1	Galaxy	0.009x0.005	Leo	
IC 4523	12h 34m 42.4s	+15° 04' 09"	14.1	Galaxy	0.015x0.015	Coma Berenices	
IC 2759	11h 23m 10.3s	+24° 13' 06"	14.1	Galaxy	0.003x0.003	Leo	
IC 2787	11h 24m 15.4s	+13° 31' 51"	14.1	Galaxy	0.005x0.005	Leo	
IC 2826	11h 28m 02.2s	+13° 08' 22"	14.1	Galaxy	0.005x0.005	Leo	
IC 2955	11h 46m 00.9s	+19° 31' 22"	14.1	Galaxy	0.007x0.007	Leo	
IC 3077	12h 16m 51.0s	+14° 19' 58"	14.1	Galaxy	0.007x0.005	Coma Berenices	
IC 3080	12h 16m 57.5s	+14° 05' 24"	14.1	Galaxy	0.005x0.004	Coma Berenices	
IC 3105	12h 18m 28.4s	+12° 17' 10"	14.1	Galaxy	0.015x0.005	Virgo	
IC 3238	12h 24m 01.1s	+14° 21' 33"	14.1	Galaxy	0.003x0.003	Coma Berenices	
IC 3280	12h 25m 21.6s	+13° 08' 01"	14.1	Galaxy	0.007x0.005	Virgo	
IC 3369	12h 28m 11.4s	+15° 55' 31"	14.1	Galaxy	0.005x0.003	Coma Berenices	
IC 3393	12h 29m 36.4s	+12° 49' 01"	14.1	Galaxy	0.010x0.003	Virgo	
IC 3486	12h 34m 08.5s	+12° 45' 29"	14.1	Galaxy	0.006x0.004	Virgo	
IC 3616	12h 39m 58.9s	+14° 37' 59"	14.1	Galaxy	0.008x0.004	Coma Berenices	
IC 735	11h 49m 08.4s	+13° 06' 32"	14.1	Galaxy	0.011x0.006	Leo	
MCG 4-27-44	11h 29m 56.4s	+20° 38' 24"	14.2	Galaxy	0.004x0.003	Leo	3697C
NGC 3860B	11h 45m 43.5s	+19° 40' 24"	14.2	Galaxy	0.003x0.003	Leo	3860B
NGC 3864	11h 46m 11.5s	+19° 17' 32"	14.2	Galaxy	0.007x0.005	Leo	
IC 2804	11h 25m 51.9s	+13° 07' 25"	14.2	Galaxy	0.007x0.001	Leo	
IC 2938-1	11h 36m 32.3s	+13° 34' 49"	14.2	Galaxy	0.005x0.005	Leo	IC 2938-1
IC 3059	12h 15m 50.1s	+13° 21' 39"	14.2	Galaxy	0.013x0.010	Coma Berenices	
IC 3099	12h 18m 04.2s	+12° 21' 12"	14.2	Galaxy	0.015x0.002	Virgo	
IC 3128A	12h 19m 36.8s	+11° 37' 53"	14.2	Galaxy	0.005x0.003	Virgo	IC 3128A
IC 3149	12h 20m 19.1s	+12° 12' 06"	14.2	Galaxy	0.006x0.005	Virgo	
IC 3173	12h 21m 25.0s	+11° 14' 30"	14.2	Galaxy	0.002x0.001	Virgo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3313	12h 26m 31.1s	+15° 43' 49"	14.2	Galaxy	0.006x0.006	Coma Berenices	
IC 3437	12h 31m 40.6s	+11° 14' 37"	14.2	Galaxy	0.007x0.003	Virgo	
IC 3459	12h 32m 50.5s	+12° 04' 32"	14.2	Galaxy	0.009x0.006	Virgo	
IC 3461	12h 32m 57.4s	+11° 47' 26"	14.2	Galaxy	0.005x0.005	Virgo	
IC 3567	12h 37m 17.0s	+13° 30' 15"	14.2	Galaxy	0.006x0.005	Coma Berenices	
IC 732-1	11h 46m 55.6s	+20° 20' 20"	14.2	Galaxy	0.004x0.002	Leo	IC 732-1
IC 787	12h 26m 19.8s	+16° 01' 27"	14.2	Galaxy	0.009x0.003	Coma Berenices	
IC 3754	11h 38m 51.3s	+21° 53' 09"	14.3	Galaxy	0.003x0.002	Leo	
NGC 3758	11h 37m 25.4s	+21° 29' 50"	14.3	Galaxy	0.004x0.004	Leo	
NGC 3926A	11h 52m 22.2s	+21° 55' 41"	14.3	Galaxy	0.004x0.003	Leo	3926A
IC 3946	11h 54m 16.2s	+20° 55' 16"	14.3	Galaxy	0.004x0.003	Leo	
NGC 4093	12h 06m 46.5s	+20° 25' 19"	14.3	Galaxy	0.005x0.004	Coma Berenices	
IC 4529	12h 33m 45.8s	+20° 05' 04"	14.3	Galaxy	0.016x0.003	Coma Berenices	
IC 2763	11h 23m 14.7s	+12° 57' 59"	14.3	Galaxy	0.011x0.001	Leo	
IC 2769	11h 23m 21.9s	+14° 05' 51"	14.3	Galaxy	0.002x0.001	Leo	
IC 3021	12h 10m 49.6s	+12° 56' 59"	14.3	Galaxy	0.007x0.005	Virgo	
IC 3028	12h 11m 30.7s	+11° 39' 41"	14.3	Galaxy	0.005x0.001	Virgo	
IC 3033	12h 12m 05.1s	+13° 29' 17"	14.3	Galaxy	0.009x0.005	Coma Berenices	
IC 3096	12h 17m 47.2s	+14° 24' 55"	14.3	Galaxy	0.01x0.003	Coma Berenices	
IC 3101	12h 18m 14.5s	+11° 50' 36"	14.3	Galaxy	0.005x0.003	Virgo	
IC 3157	12h 20m 42.8s	+12° 19' 21"	14.3	Galaxy	0.006x0.003	Virgo	
IC 3305	12h 26m 09.3s	+11° 45' 00"	14.3	Galaxy	0.01x0.003	Virgo	
IC 3311	12h 26m 27.9s	+12° 09' 39"	14.3	Galaxy	0.014x0.002	Virgo	
IC 3363	12h 27m 57.7s	+12° 27' 42"	14.3	Galaxy	0.010x0.003	Virgo	
IC 3473	12h 33m 13.2s	+18° 08' 43"	14.3	Galaxy	0.01x0.006	Coma Berenices	
IC 3520	12h 35m 26.2s	+13° 24' 15"	14.3	Galaxy	0.008x0.005	Coma Berenices	
IC 3574	12h 37m 22.2s	+12° 18' 24"	14.3	Galaxy	0.005x0.003	Virgo	
NGC 3697B	11h 29m 55.1s	+20° 39' 02"	14.4	Galaxy	0.005x0.004	Leo	3697B
NGC 3743	11h 36m 53.6s	+21° 37' 24"	14.4	Galaxy	0.004x0.004	Leo	
NGC 3751	11h 38m 50.2s	+21° 50' 14"	14.4	Galaxy	0.004x0.001	Leo	
NGC 3868	11h 46m 25.9s	+19° 20' 41"	14.4	Galaxy	0.006x0.002	Leo	
IC 2777	11h 23m 36.8s	+11° 55' 36"	14.4	Galaxy	0.006x0.003	Leo	
IC 2786	11h 24m 13.8s	+13° 17' 38"	14.4	Galaxy	0.005x0.001	Leo	
IC 2810	11h 26m 41.2s	+14° 34' 39"	14.4	Galaxy	0.010x0.005	Leo	
IC 2823	11h 27m 40.7s	+12° 44' 55"	14.4	Galaxy	0.005x0.002	Leo	
IC 3018	12h 10m 20.0s	+13° 28' 32"	14.4	Galaxy	0.005x0.001	Coma Berenices	
IC 3024	12h 11m 07.1s	+12° 13' 32"	14.4	Galaxy	0.008x0.003	Virgo	
IC 3046	12h 14m 02.8s	+12° 49' 07"	14.4	Galaxy	0.010x0.002	Virgo	
IC 3073	12h 16m 30.6s	+13° 31' 11"	14.4	Galaxy	0.008x0.005	Coma Berenices	
IC 3209	12h 23m 01.0s	+11° 39' 18"	14.4	Galaxy	0.006x0.001	Virgo	
IC 3244	12h 24m 07.0s	+14° 17' 22"	14.4	Galaxy	0.006x0.004	Coma Berenices	
IC 3331	12h 27m 00.1s	+11° 42' 47"	14.4	Galaxy	0.006x0.003	Virgo	
IC 3489	12h 34m 08.3s	+12° 08' 52"	14.4	Galaxy	0.005x0.005	Virgo	
IC 3500	12h 34m 44.0s	+13° 51' 49"	14.4	Galaxy	0.005x0.003	Coma Berenices	
IC 3578	12h 37m 34.1s	+11° 00' 09"	14.4	Galaxy	0.007x0.002	Virgo	
NGC 3925	11h 52m 16.6s	+21° 47' 18"	14.5	Galaxy	0.005x0.004	Leo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4074	12h 05m 24.9s	+20° 13' 00"	14.5	Galaxy	0.008x0.005	Coma Berenices	
NGC 4084	12h 06m 10.4s	+21° 06' 53"	14.5	Galaxy	0.005x0.005	Coma Berenices	
NGC 4091	12h 06m 35.3s	+20° 27' 22"	14.5	Galaxy	0.007x0.002	Coma Berenices	
IC 2745	11h 22m 28.0s	+13° 19' 41"	14.5	Galaxy	0.005x0.002	Leo	
IC 2846	11h 28m 56.4s	+11° 03' 34"	14.5	Galaxy	0.007x0.005	Leo	
IC 2858	11h 29m 32.1s	+13° 33' 44"	14.5	Galaxy	0.002x0.001	Leo	
IC 2936	11h 35m 52.8s	+12° 54' 32"	14.5	Galaxy	0.001x0.001	Leo	
IC 2968	11h 53m 26.1s	+20° 31' 32"	14.5	Galaxy	0.006x0.003	Leo	
IC 3016	12h 10m 13.6s	+11° 19' 47"	14.5	Galaxy	0.005x0.005	Virgo	
IC 3038	12h 13m 27.7s	+11° 15' 12"	14.5	Galaxy	0.006x0.004	Virgo	
IC 3039	12h 13m 27.7s	+12° 12' 36"	14.5	Galaxy	0.008x0.002	Virgo	
IC 3075	12h 16m 49.6s	+23° 29' 46"	14.5	Galaxy	0.006x0.003	Coma Berenices	
IC 3078	12h 16m 55.0s	+12° 35' 16"	14.5	Galaxy	0.004x0.004	Virgo	
IC 3079	12h 16m 59.2s	+11° 26' 06"	14.5	Galaxy	0.004x0.003	Virgo	
IC 3081	12h 17m 04.0s	+12° 35' 28"	14.5	Galaxy	0.005x0.003	Virgo	
IC 3093	12h 17m 37.1s	+14° 10' 42"	14.5	Galaxy	0.003x0.002	Coma Berenices	
IC 3141	12h 19m 52.9s	+24° 05' 12"	14.5	Galaxy	0.007x0.002	Coma Berenices	
IC 3142-2	12h 19m 59.9s	+13° 52' 51"	14.5	Galaxy	0.005x0.003	Coma Berenices	IC 3142-2
IC 3298	12h 25m 58.3s	+16° 54' 56"	14.5	Galaxy	0.009x0.002	Coma Berenices	
IC 3327	12h 26m 57.4s	+14° 46' 51"	14.5	Galaxy	0.003x0.003	Coma Berenices	
IC 3388	12h 29m 22.8s	+12° 43' 27"	14.5	Galaxy	0.005x0.002	Virgo	
IC 3434	12h 31m 21.5s	+18° 42' 37"	14.5	Galaxy	0.003x0.001	Coma Berenices	
IC 3484	12h 33m 59.6s	+17° 18' 14"	14.5	Galaxy	0.005x0.004	Coma Berenices	
IC 3505	12h 35m 04.6s	+15° 52' 10"	14.5	Galaxy	0.007x0.003	Coma Berenices	
IC 3557	12h 37m 02.3s	+16° 32' 34"	14.5	Galaxy	0.006x0.006	Coma Berenices	
IC 783A	12h 23m 14.3s	+15° 38' 01"	14.5	Galaxy	0.004x0.004	Coma Berenices	IC 783A
IC 795	12h 29m 25.4s	+23° 12' 21"	14.5	Galaxy	0.004x0.001	Coma Berenices	
IC 798	12h 33m 27.7s	+15° 18' 60"	14.5	Galaxy	0.003x0.003	Coma Berenices	
IC 2873	11h 30m 23.6s	+13° 07' 14"	14.6	Galaxy	0.005x0.003	Leo	
IC 2894	11h 31m 53.5s	+13° 08' 08"	14.6	Galaxy	0.003x0.001	Leo	
IC 2914	11h 33m 08.4s	+13° 23' 33"	14.6	Galaxy	0.005x0.002	Leo	
IC 3004	12h 08m 05.4s	+13° 08' 50"	14.6	Galaxy	0.008x0.007	Virgo	
IC 3023	12h 10m 57.0s	+14° 16' 01"	14.6	Galaxy	0.010x0.005	Coma Berenices	
IC 3053	12h 14m 47.0s	+14° 07' 21"	14.6	Galaxy	0.006x0.003	Coma Berenices	
IC 3296	12h 25m 51.9s	+24° 17' 01"	14.6	Galaxy	0.002x0.001	Coma Berenices	
IC 3344	12h 27m 27.0s	+13° 28' 48"	14.6	Galaxy	0.005x0.003	Coma Berenices	
IC 3356	12h 27m 45.6s	+11° 27' 32"	14.6	Galaxy	0.012x0.007	Virgo	
IC 3410	12h 30m 00.4s	+18° 54' 20"	14.6	Galaxy	0.001x0.001	Coma Berenices	
IC 3432	12h 31m 22.3s	+14° 03' 41"	14.6	Galaxy	0.005x0.003	Coma Berenices	
IC 3506	12h 35m 01.2s	+12° 38' 33"	14.6	Galaxy	0.005x0.004	Virgo	
IC 3528	12h 35m 50.1s	+15° 28' 02"	14.6	Galaxy	0.003x0.003	Coma Berenices	
IC 3581	12h 37m 31.7s	+24° 19' 48"	14.6	Galaxy	0.007x0.003	Coma Berenices	
IC 3609	12h 39m 29.0s	+14° 15' 15"	14.6	Galaxy	0.003x0.003	Coma Berenices	
NGC 3764	11h 37m 50.6s	+17° 47' 22"	14.7	Galaxy	0.007x0.005	Leo	
NGC 3814	11h 42m 23.9s	+24° 42' 20"	14.7	Galaxy	0.007x0.002	Leo	
NGC 3851	11h 45m 16.3s	+19° 52' 52"	14.7	Galaxy	0.005x0.003	Leo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3861B	11h 46m 02.9s	+19° 52' 01"	14.7	Galaxy	0.005x0.001	Leo	3861B
NGC 3926B	11h 52m 23.9s	+21° 55' 34"	14.7	Galaxy	0.007x0.007	Leo	3926B
IC 4060	12h 04m 56.2s	+20° 14' 16"	14.7	Galaxy	0.004x0.002	Coma Berenices	
NGC 4164	12h 13m 00.4s	+13° 06' 21"	14.7	Galaxy	0.004x0.002	Virgo	
IC 2762	11h 23m 14.1s	+12° 37' 25"	14.7	Galaxy	0.006x0.001	Leo	
IC 2994	12h 06m 23.1s	+12° 36' 10"	14.7	Galaxy	0.002x0.001	Virgo	
IC 3049-1	12h 14m 28.2s	+14° 22' 58"	14.7	Galaxy	0.005x0.003	Coma Berenices	IC 3049-1
IC 3049-2	12h 14m 29.1s	+14° 22' 45"	14.7	Galaxy	0.004x0.002	Coma Berenices	IC 3049-2
IC 3066	12h 16m 11.2s	+13° 22' 25"	14.7	Galaxy	0.008x0.001	Coma Berenices	
IC 3089	12h 17m 24.2s	+23° 43' 42"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 3109	12h 18m 38.9s	+13° 04' 16"	14.7	Galaxy	0.004x0.004	Virgo	
IC 3120	12h 19m 10.2s	+13° 38' 54"	14.7	Galaxy	0.003x0.003	Coma Berenices	
IC 3208	12h 22m 50.4s	+11° 52' 02"	14.7	Galaxy	0.01x0.004	Virgo	
IC 3213	12h 23m 02.0s	+23° 46' 09"	14.7	Galaxy	0.01x0.005	Coma Berenices	
IC 3228	12h 23m 33.7s	+24° 13' 49"	14.7	Galaxy	0.005x0.001	Coma Berenices	
IC 3340	12h 27m 27.1s	+16° 44' 41"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 3346	12h 27m 39.3s	+11° 16' 49"	14.7	Galaxy	0.005x0.004	Virgo	
IC 3435	12h 31m 34.4s	+15° 01' 50"	14.7	Galaxy	0.010x0.001	Coma Berenices	
IC 3446	12h 32m 17.7s	+11° 23' 36"	14.7	Galaxy	0.005x0.002	Virgo	
IC 3471	12h 33m 17.1s	+15° 55' 09"	14.7	Galaxy	0.006x0.003	Coma Berenices	
IC 3522	12h 35m 40.2s	+15° 07' 19"	14.7	Galaxy	0.012x0.005	Coma Berenices	
IC 701	11h 31m 57.1s	+20° 22' 13"	14.7	Galaxy	0.005x0.004	Leo	
IC 736	11h 49m 15.6s	+12° 37' 02"	14.7	Galaxy	0.004x0.004	Leo	
IC 772	12h 16m 10.4s	+23° 51' 32"	14.7	Galaxy	0.007x0.004	Coma Berenices	
NGC 3651-2	11h 23m 23.3s	+24° 11' 50"	14.8	Galaxy	0.003x0.001	Leo	3651-2
NGC 3748	11h 38m 45.4s	+21° 55' 36"	14.8	Galaxy	0.005x0.003	Leo	
NGC 3828	11h 43m 54.2s	+16° 23' 16"	14.8	Galaxy	0.006x0.004	Leo	
NGC 4072	12h 05m 09.1s	+20° 06' 36"	14.8	Galaxy	0.004x0.001	Coma Berenices	
IC 2722	11h 20m 40.3s	+13° 51' 54"	14.8	Galaxy	0.004x0.002	Leo	
IC 2843	11h 28m 54.2s	+13° 05' 05"	14.8	Galaxy	0.002x0.002	Leo	
IC 2893-2	11h 31m 49.5s	+13° 17' 26"	14.8	Galaxy	0.003x0.001	Leo	IC 2893-2
IC 3084	12h 17m 18.0s	+23° 49' 06"	14.8	Galaxy	0.003x0.002	Coma Berenices	
IC 3119	12h 19m 02.9s	+24° 35' 20"	14.8	Galaxy	0.002x0.002	Coma Berenices	
IC 3192	12h 21m 59.6s	+11° 39' 15"	14.8	Galaxy	0.005x0.003	Virgo	
IC 3239	12h 24m 04.3s	+11° 37' 34"	14.8	Galaxy	0.006x0.002	Virgo	
IC 3292	12h 25m 42.8s	+18° 05' 45"	14.8	Galaxy	0.004x0.003	Coma Berenices	
IC 3315	12h 26m 33.8s	+12° 12' 50"	14.8	Galaxy	0.005x0.004	Virgo	
IC 3453	12h 32m 32.3s	+14° 45' 37"	14.8	Galaxy	0.008x0.001	Coma Berenices	
IC 3519	12h 35m 32.7s	+15° 30' 12"	14.8	Galaxy	0.005x0.003	Coma Berenices	
IC 3542	12h 36m 35.8s	+11° 34' 04"	14.8	Galaxy	0.003x0.002	Virgo	
IC 3615	12h 39m 55.6s	+18° 06' 08"	14.8	Galaxy	0.009x0.002	Coma Berenices	
IC 2776	11h 23m 36.3s	+13° 13' 55"	14.9	Galaxy	0.007x0.003	Leo	
IC 2819	11h 27m 23.8s	+13° 44' 44"	14.9	Galaxy	0.004x0.001	Leo	
IC 2870	11h 30m 08.3s	+11° 45' 56"	14.9	Galaxy	0.010x0.009	Leo	
IC 3095	12h 17m 49.8s	+23° 51' 29"	14.9	Galaxy	0.005x0.001	Coma Berenices	
IC 3261	12h 24m 47.3s	+11° 22' 52"	14.9	Galaxy	0.007x0.003	Virgo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3355	12h 27m 45.4s	+13° 04' 40"	14.9	Galaxy	0.009x0.004	Virgo	
IC 3403	12h 29m 55.5s	+24° 32' 00"	14.9	Galaxy	0.002x0.001	Coma Berenices	
IC 3443	12h 32m 10.2s	+12° 13' 59"	14.9	Galaxy	0.003x0.003	Virgo	
IC 3467	12h 33m 19.1s	+11° 41' 18"	14.9	Galaxy	0.009x0.001	Virgo	
IC 3483	12h 34m 04.6s	+11° 14' 52"	14.9	Galaxy	0.004x0.003	Virgo	
IC 732-2	11h 46m 55.3s	+20° 20' 52"	14.9	Galaxy	0.003x0.001	Leo	IC 732-2
IC 744	11h 55m 00.3s	+23° 05' 33"	14.9	Galaxy	0.008x0.002	Leo	
NGC 3744	11h 36m 54.2s	+22° 54' 45"	15.0	Galaxy	0.005x0.001	Leo	
IC 3908	11h 50m 48.2s	+12° 05' 11"	15.0	Galaxy	0.003x0.003	Leo	
IC 3973	11h 56m 32.4s	+11° 53' 49"	15.0	Galaxy	0.003x0.002	Leo	
NGC 4192A	12h 14m 21.2s	+14° 40' 20"	15.0	Galaxy	0.010x0.009	Coma Berenices	4192A
IC 2734	11h 21m 20.1s	+12° 20' 39"	15.0	Galaxy	0.005x0.001	Leo	
IC 2821	11h 27m 31.1s	+13° 51' 48"	15.0	Galaxy	0.002x0.002	Leo	
IC 2844	11h 28m 54.1s	+11° 21' 15"	15.0	Galaxy	0.004x0.002	Leo	
IC 3147-2	12h 20m 13.6s	+11° 55' 07"	15.0	Galaxy	0.002x0.001	Virgo	IC 3147-2
IC 3186	12h 21m 50.2s	+24° 34' 10"	15.0	Galaxy	0.005x0.003	Coma Berenices	
IC 3286	12h 25m 28.7s	+23° 38' 53"	15.0	Galaxy	0.003x0.002	Coma Berenices	
IC 3368	12h 28m 15.0s	+16° 19' 40"	15.0	Galaxy	0.005x0.004	Coma Berenices	
IC 3378	12h 28m 55.9s	+17° 11' 48"	15.0	Galaxy	0.003x0.002	Coma Berenices	
IC 3386	12h 29m 18.6s	+13° 05' 45"	15.0	Galaxy	0.005x0.002	Virgo	
IC 3422	12h 30m 49.1s	+14° 35' 20"	15.0	Galaxy	0.004x0.004	Coma Berenices	
IC 3601	12h 38m 48.0s	+15° 07' 33"	15.0	Galaxy	0.005x0.003	Coma Berenices	
IC 3606	12h 39m 19.6s	+12° 30' 41"	15.0	Galaxy	0.002x0.002	Virgo	
IC 3462	12h 33m 04.0s	+15° 12' 07"	15.1	Galaxy	0.005x0.002	Coma Berenices	
IC 3534	12h 35m 46.5s	+14° 52' 46"	15.1	Galaxy	0.003x0.003	Coma Berenices	
IC 3597	12h 38m 18.2s	+23° 45' 53"	15.1	Galaxy	0.003x0.003	Coma Berenices	
NGC 3745	11h 38m 40.8s	+21° 55' 17"	15.2	Galaxy	0.003x0.001	Leo	Copeland septet
NGC 4069	12h 05m 01.3s	+20° 13' 27"	15.2	Galaxy	0.002x0.001	Coma Berenices	
IC 2727	11h 20m 56.2s	+11° 56' 04"	15.2	Galaxy	0.003x0.003	Leo	
IC 2752	11h 22m 58.3s	+14° 01' 32"	15.2	Galaxy	0.004x8.333	Leo	
IC 2754	11h 22m 58.7s	+14° 02' 42"	15.2	Galaxy	0.004x0.001	Leo	
IC 2766	11h 23m 19.2s	+12° 48' 18"	15.2	Galaxy	0.004x8.333	Leo	
IC 2768	11h 23m 19.7s	+12° 25' 48"	15.2	Galaxy	0.002x0.001	Leo	
IC 2785	11h 24m 11.6s	+13° 17' 34"	15.2	Galaxy	0.004x0.003	Leo	
IC 2792	11h 24m 37.6s	+11° 18' 19"	15.2	Galaxy	0.003x0.001	Leo	
IC 2800	11h 25m 23.1s	+12° 06' 35"	15.2	Galaxy	0.004x0.001	Leo	
IC 2812	11h 26m 52.0s	+11° 25' 52"	15.2	Galaxy	0.004x0.001	Leo	
IC 2851	11h 29m 10.5s	+11° 17' 42"	15.2	Galaxy	0.003x0.001	Leo	
IC 2903	11h 32m 36.8s	+12° 32' 34"	15.2	Galaxy	0.003x0.001	Leo	
IC 2912	11h 33m 02.9s	+11° 36' 39"	15.2	Galaxy	0.004x8.333	Leo	
IC 3031	12h 11m 59.3s	+13° 12' 29"	15.2	Galaxy	0.005x8.333	Coma Berenices	
IC 3034	12h 12m 42.7s	+14° 06' 05"	15.2	Galaxy	0.005x0.001	Coma Berenices	
IC 3047	12h 14m 09.6s	+12° 53' 50"	15.2	Galaxy	0.003x0.001	Virgo	
IC 3054	12h 15m 09.5s	+13° 26' 32"	15.2	Galaxy	0.004x0.003	Coma Berenices	
IC 3082	12h 17m 06.7s	+23° 44' 31"	15.2	Galaxy	0.006x0.001	Coma Berenices	
IC 3128B	12h 19m 38.0s	+11° 37' 35"	15.2	Galaxy	0.001x0.001	Virgo	IC 3128B

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3207	12h 22m 46.8s	+24° 15' 17"	15.2	Galaxy	0.005x0.001	Coma Berenices	
IC 3379	12h 28m 58.6s	+17° 12' 23"	15.2	Galaxy	0.005x0.002	Coma Berenices	
IC 3433	12h 31m 22.6s	+17° 12' 37"	15.2	Galaxy	0.005x0.003	Coma Berenices	
IC 3448	12h 32m 17.4s	+17° 06' 25"	15.2	Galaxy	0.006x0.004	Coma Berenices	
IC 3466	12h 33m 00.2s	+11° 43' 06"	15.2	Galaxy	0.005x0.003	Virgo	
IC 685	11h 23m 03.1s	+17° 39' 19"	15.2	Galaxy	0.003x0.002	Leo	
IC 2723	11h 20m 44.1s	+11° 56' 04"	15.3	Galaxy	0.002x0.002	Leo	
IC 2746	11h 22m 32.6s	+11° 38' 16"	15.3	Galaxy	0.002x0.001	Leo	
IC 2798	11h 25m 20.2s	+12° 19' 00"	15.3	Galaxy	0.006x8.333	Leo	
IC 2934	11h 35m 15.6s	+13° 13' 18"	15.3	Galaxy	0.004x0.002	Leo	
IC 3127	12h 19m 30.1s	+11° 46' 12"	15.3	Galaxy	0.005x0.004	Virgo	
IC 3142-1	12h 19m 56.6s	+13° 52' 55"	15.3	Galaxy	0.004x0.003	Coma Berenices	IC 3142-1
IC 3246	12h 24m 12.0s	+12° 57' 07"	15.3	Galaxy	0.002x0.002	Virgo	
IC 3409	12h 30m 15.6s	+14° 41' 20"	15.3	Galaxy	0.005x0.003	Coma Berenices	
IC 3604	12h 39m 15.2s	+11° 37' 54"	15.3	Galaxy	0.002x0.001	Virgo	
IC 2729	11h 21m 03.0s	+13° 18' 38"	15.4	Galaxy	0.002x8.333	Leo	
IC 2815	11h 27m 12.6s	+12° 42' 16"	15.4	Galaxy	0.003x0.001	Leo	
IC 2877	11h 30m 33.6s	+12° 45' 15"	15.4	Galaxy	0.002x0.002	Leo	
IC 2942	11h 37m 07.9s	+11° 42' 56"	15.4	Galaxy	0.003x0.001	Leo	
IC 3052	12h 14m 43.3s	+12° 35' 25"	15.4	Galaxy	0.003x0.002	Virgo	
IC 3138-1	12h 19m 51.0s	+12° 20' 44"	15.4	Galaxy	0.002x0.001	Virgo	IC 3138-1
IC 3272	12h 25m 03.5s	+23° 11' 07"	15.4	Galaxy	0.004x0.002	Coma Berenices	
IC 3307	12h 26m 12.3s	+14° 04' 21"	15.4	Galaxy	0.003x0.003	Coma Berenices	
IC 3359	12h 27m 45.4s	+23° 23' 57"	15.4	Galaxy	0.004x0.002	Coma Berenices	
IC 3429	12h 31m 01.9s	+23° 26' 46"	15.4	Galaxy	0.003x0.003	Coma Berenices	
IC 3445	12h 32m 14.0s	+12° 38' 19"	15.4	Galaxy	0.003x0.002	Virgo	
IC 3603	12h 39m 10.3s	+15° 28' 17"	15.4	Galaxy	0.003x0.002	Coma Berenices	
NGC 3803	11h 41m 13.3s	+17° 42' 07"	15.5	Galaxy	0.003x0.003	Leo	
IC 4056	12h 04m 53.0s	+20° 12' 46"	15.5	Galaxy	0.004x0.004	Coma Berenices	
IC 2732	11h 21m 08.7s	+12° 18' 19"	15.5	Galaxy	0.002x0.002	Leo	
IC 2739	11h 22m 08.6s	+11° 48' 56"	15.5	Galaxy	0.001x0.001	Leo	
IC 2761	11h 23m 13.3s	+14° 04' 42"	15.5	Galaxy	0.001x0.001	Leo	
IC 2775	11h 23m 35.7s	+12° 24' 48"	15.5	Galaxy	0.001x0.001	Leo	
IC 2802	11h 25m 26.4s	+12° 06' 35"	15.5	Galaxy	0.001x0.001	Leo	
IC 2834	11h 28m 28.0s	+13° 28' 17"	15.5	Galaxy	0.001x0.001	Leo	
IC 2860	11h 29m 40.8s	+13° 56' 31"	15.5	Galaxy	0.001x0.001	Leo	
IC 2923	11h 33m 49.7s	+13° 03' 52"	15.5	Galaxy	0.001x0.001	Leo	
IC 3147-1	12h 20m 12.0s	+11° 55' 01"	15.5	Galaxy	0.004x0.004	Virgo	IC 3147-1
IC 3204	12h 22m 44.8s	+24° 08' 57"	15.5	Galaxy	0.002x0.001	Coma Berenices	
IC 3233	12h 23m 49.7s	+12° 28' 00"	15.5	Galaxy	0.002x8.333	Virgo	
IC 3291	12h 25m 43.1s	+11° 55' 10"	15.5	Galaxy	0.003x0.001	Virgo	
IC 3419	12h 30m 39.1s	+14° 55' 29"	15.5	Galaxy	0.005x0.002	Coma Berenices	
IC 3465	12h 33m 06.9s	+11° 57' 44"	15.5	Galaxy	0.004x0.002	Virgo	
IC 2810B	11h 26m 45.8s	+14° 34' 10"	15.6	Galaxy	0.003x0.001	Leo	IC 2810B
IC 3137	12h 19m 49.5s	+12° 22' 11"	15.6	Galaxy	0.009x8.333	Virgo	
IC 3224	12h 23m 30.8s	+12° 03' 31"	15.6	Galaxy	0.003x0.002	Virgo	

Table 89: Main objects visible on chart 82 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3605	12h 39m 14.8s	+19° 26' 32"	15.6	Galaxy	0.003x0.001	Coma Berenices	
IC 2760	11h 23m 08.9s	+12° 34' 01"	15.7	Galaxy	0.002x0.001	Leo	
IC 2791	11h 24m 33.7s	+12° 47' 51"	15.7	Galaxy	0.002x8.333	Leo	
IC 2891	11h 31m 44.1s	+12° 34' 41"	15.7	Galaxy	0.002x0.002	Leo	
IC 2893-1	11h 31m 49.3s	+13° 17' 33"	15.7	Galaxy	0.001x0.001	Leo	IC 2893-1
IC 2898	11h 32m 16.4s	+13° 14' 10"	15.7	Galaxy	0.002x0.001	Leo	
IC 2938-2	11h 36m 32.8s	+13° 34' 30"	15.7	Galaxy	0.003x0.001	Leo	IC 2938-2
IC 3020	12h 10m 22.2s	+14° 07' 30"	15.7	Galaxy	0.002x0.001	Coma Berenices	
IC 3058	12h 15m 42.4s	+13° 59' 43"	15.7	Galaxy	0.005x0.003	Coma Berenices	
IC 3126	12h 19m 32.0s	+13° 42' 51"	15.7	Galaxy	0.004x0.004	Coma Berenices	
IC 3235	12h 23m 52.7s	+13° 26' 44"	15.7	Galaxy	0.004x0.002	Coma Berenices	
IC 3293	12h 25m 48.0s	+17° 19' 58"	15.7	Galaxy	0.003x0.002	Coma Berenices	
IC 3312	12h 26m 24.0s	+23° 28' 55"	15.7	Galaxy	0.002x0.001	Coma Berenices	
IC 3325	12h 26m 45.5s	+23° 47' 47"	15.7	Galaxy	0.005x0.004	Coma Berenices	
IC 3326	12h 26m 46.8s	+23° 40' 08"	15.7	Galaxy	0.002x0.001	Coma Berenices	
IC 3411	12h 30m 06.3s	+24° 29' 04"	15.7	Galaxy	0.004x0.001	Coma Berenices	
IC 3431	12h 31m 18.9s	+11° 30' 53"	15.7	Galaxy	0.003x0.002	Virgo	
IC 3558-1	12h 36m 57.4s	+11° 45' 02"	15.7	Galaxy	0.003x0.001	Virgo	IC 3558-1
IC 3595-1	12h 37m 59.9s	+23° 41' 17"	15.7	Galaxy	0.003x0.001	Coma Berenices	IC 3595-1
IC 3595-2	12h 37m 59.7s	+23° 40' 53"	15.7	Galaxy	0.004x8.333	Coma Berenices	IC 3595-2
NGC 4098-2	12h 06m 59.0s	+20° 30' 18"	15.8	Galaxy	0.004x0.002	Coma Berenices	4098-2
IC 3424	12h 30m 38.9s	+24° 18' 32"	15.8	Galaxy	0.001x8.333	Coma Berenices	
IC 2784	11h 24m 07.7s	+13° 01' 10"	15.9	Galaxy	0.003x0.001	Leo	
IC 2919-1	11h 33m 31.1s	+14° 05' 27"	15.9	Galaxy	0.003x0.002	Leo	IC 2919-1
IC 2929	11h 34m 27.3s	+12° 02' 14"	15.9	Galaxy	0.004x0.004	Leo	
IC 3017	12h 10m 17.8s	+13° 31' 07"	15.9	Galaxy	0.003x0.002	Coma Berenices	
IC 3159	12h 20m 48.1s	+11° 34' 29"	15.9	Galaxy	0.004x0.002	Virgo	
IC 3196	12h 22m 21.6s	+11° 39' 29"	15.9	Galaxy	0.003x0.002	Virgo	
IC 3440	12h 31m 59.8s	+11° 55' 49"	15.9	Galaxy	0.002x0.002	Virgo	
IC 3573	12h 37m 21.7s	+11° 39' 39"	15.9	Galaxy	0.003x0.002	Virgo	
IC 2765	11h 23m 19.4s	+14° 05' 60"	16.0	Galaxy	0.001x0.001	Leo	
IC 2767	11h 23m 19.8s	+12° 58' 43"	16.0	Galaxy	0.004x8.333	Leo	
IC 2771	11h 23m 24.2s	+12° 25' 14"	16.0	Galaxy	0.001x0.001	Leo	
IC 2838	11h 28m 41.4s	+13° 54' 45"	16.0	Galaxy	0.001x0.001	Leo	
IC 2881	11h 30m 50.5s	+12° 24' 43"	16.0	Galaxy	0.002x8.333	Leo	
IC 2909	11h 32m 46.8s	+11° 22' 15"	16.0	Galaxy	0.001x0.001	Leo	
IC 2919-2	11h 33m 31.5s	+14° 05' 34"	16.0	Galaxy	0.001x0.001	Leo	IC 2919-2
IC 2938-3	11h 36m 31.4s	+13° 34' 52"	16.0	Galaxy	0.001x0.001	Leo	
IC 3345	12h 27m 27.4s	+24° 16' 10"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3382	12h 29m 08.2s	+13° 28' 18"	16.0	Galaxy	0.007x0.001	Coma Berenices	
IC 3558-2	12h 36m 57.5s	+11° 45' 12"	16.0	Galaxy	0.001x0.001	Virgo	IC 3558-2
IC 3580	12h 37m 23.3s	+18° 12' 03"	16.0	Galaxy	0.001x0.001	Coma Berenices	

7.84 Main objects visible on chart 83

Table 90: Main objects visible on chart 83

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel111	12h 23m 24.2s	+25° 45' 01"	2.7	Open cluster	2.291x2.291	Coma Berenices	Berenice Hair
NGC 5024	13h 13m 48.2s	+18° 04' 29"	7.7	Globular cluster	0.108x0.108	Coma Berenices	M53
NGC 4826	12h 57m 36.8s	+21° 35' 09"	8.5	Galaxy	0.083x0.045	Coma Berenices	M64, Black Eye galaxy
NGC 4649	12h 44m 34.2s	+11° 27' 17"	8.8	Galaxy	0.063x0.051	Virgo	M60
NGC 5053	13h 17m 19.8s	+17° 36' 14"	9.0	Globular cluster	0.083x0.083	Coma Berenices	
NGC 4569	12h 37m 44.4s	+13° 03' 54"	9.5	Galaxy	0.079x0.036	Virgo	M90
NGC 4501	12h 32m 53.5s	+14° 19' 14"	9.6	Galaxy	0.056x0.030	Coma Berenices	M88
NGC 4621	12h 42m 56.6s	+11° 32' 55"	9.6	Galaxy	0.045x0.030	Virgo	M59
NGC 4579	12h 38m 38.2s	+11° 43' 10"	9.7	Galaxy	0.05x0.04	Virgo	M58
NGC 4552	12h 36m 34.4s	+12° 27' 26"	9.8	Galaxy	0.029x0.029	Virgo	M89
NGC 4548	12h 36m 20.8s	+14° 23' 51"	10.2	Galaxy	0.043x0.035	Coma Berenices	M91
NGC 4762	12h 53m 50.2s	+11° 07' 59"	10.3	Galaxy	0.072x0.014	Virgo	
NGC 4654	12h 44m 50.8s	+13° 01' 41"	10.5	Galaxy	0.041x0.025	Virgo	
NGC 4754	12h 53m 11.9s	+11° 12' 59"	10.6	Galaxy	0.036x0.02	Virgo	
NGC 4568	12h 37m 28.8s	+11° 08' 23"	10.8	Galaxy	0.038x0.018	Virgo	
IC 4651	12h 44m 36.5s	+16° 17' 43"	10.8	Galaxy	0.033x0.022	Coma Berenices	
NGC 4689	12h 48m 39.8s	+13° 39' 51"	11.0	Galaxy	0.035x0.029	Coma Berenices	
NGC 4710	12h 50m 32.6s	+15° 04' 01"	11.0	Galaxy	0.040x0.01	Coma Berenices	
NGC 4503	12h 33m 00.8s	+11° 04' 35"	11.1	Galaxy	0.029x0.014	Virgo	
NGC 4564	12h 37m 21.5s	+11° 20' 27"	11.1	Galaxy	0.029x0.012	Virgo	
NGC 4638	12h 43m 41.7s	+11° 20' 39"	11.2	Galaxy	0.018x0.011	Virgo	
NGC 4660	12h 45m 26.2s	+11° 05' 32"	11.2	Galaxy	0.017x0.014	Virgo	
NGC 4866	13h 00m 20.8s	+14° 04' 28"	11.2	Galaxy	0.053x0.012	Virgo	
NGC 4567	12h 37m 27.3s	+11° 09' 32"	11.3	Galaxy	0.025x0.018	Virgo	Siamese twins
NGC 4571	12h 37m 50.8s	+14° 07' 07"	11.3	Galaxy	0.03x0.026	Coma Berenices	
NGC 4647	12h 44m 26.9s	+11° 29' 04"	11.3	Galaxy	0.024x0.019	Virgo	
NGC 4531	12h 35m 10.3s	+12° 58' 36"	11.4	Galaxy	0.025x0.016	Virgo	
NGC 4880	13h 01m 04.5s	+12° 23' 12"	11.4	Galaxy	0.025x0.020	Virgo	
NGC 4639	12h 43m 46.6s	+13° 09' 32"	11.5	Galaxy	0.024x0.016	Virgo	
NGC 4540	12h 35m 45.2s	+15° 27' 08"	11.7	Galaxy	0.015x0.012	Coma Berenices	
NGC 4550	12h 36m 25.1s	+12° 07' 19"	11.7	Galaxy	0.027x0.007	Virgo	
NGC 5020	13h 13m 33.5s	+12° 30' 16"	11.7	Galaxy	0.025x0.022	Virgo	
NGC 4606	12h 41m 51.9s	+11° 48' 48"	11.8	Galaxy	0.027x0.014	Virgo	
NGC 5172	13h 30m 11.5s	+16° 57' 33"	11.9	Galaxy	0.028x0.015	Coma Berenices	
NGC 4489	12h 31m 46.6s	+16° 39' 36"	12.0	Galaxy	0.014x0.013	Coma Berenices	
NGC 4539	12h 35m 28.8s	+18° 06' 13"	12.0	Galaxy	0.027x0.011	Coma Berenices	
NGC 4551	12h 36m 32.5s	+12° 09' 54"	12.0	Galaxy	0.015x0.011	Virgo	
NGC 4498	12h 32m 33.8s	+16° 45' 13"	12.1	Galaxy	0.024x0.009	Coma Berenices	
NGC 4528	12h 35m 00.6s	+11° 13' 19"	12.1	Galaxy	0.013x0.008	Virgo	
IC 4595	12h 40m 45.9s	+15° 11' 57"	12.1	Galaxy	0.014x0.009	Coma Berenices	
NGC 4659	12h 45m 23.7s	+13° 24' 02"	12.1	Galaxy	0.015x0.010	Coma Berenices	
NGC 5129	13h 25m 03.2s	+13° 52' 60"	12.1	Galaxy	0.014x0.011	Virgo	
NGC 5230	13h 36m 25.1s	+13° 35' 01"	12.1	Galaxy	0.015x0.015	Virgo	
NGC 4620	12h 42m 53.6s	+12° 50' 41"	12.2	Galaxy	0.015x0.012	Virgo	
NGC 4515	12h 33m 59.2s	+16° 09' 59"	12.3	Galaxy	0.011x0.009	Coma Berenices	
NGC 5012	13h 12m 28.9s	+22° 49' 10"	12.3	Galaxy	0.024x0.014	Coma Berenices	

Table 90: Main objects visible on chart 83 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4634	12h 43m 35.0s	+14° 11' 52"	12.4	Galaxy	0.024x0.007	Coma Berenices	
NGC 4561	12h 37m 02.1s	+19° 13' 22"	12.5	Galaxy	0.012x0.010	Coma Berenices	
NGC 4635	12h 43m 32.4s	+19° 50' 54"	12.6	Galaxy	0.015x0.011	Coma Berenices	
NGC 4685	12h 48m 05.0s	+19° 22' 00"	12.6	Galaxy	0.016x0.01	Coma Berenices	
NGC 4746	12h 52m 49.4s	+11° 59' 08"	12.6	Galaxy	0.017x0.005	Virgo	
IC 5217	13h 34m 58.2s	+17° 45' 55"	12.6	Galaxy	0.012x0.011	Coma Berenices	
NGC 4506	12h 33m 05.0s	+13° 19' 16"	12.7	Galaxy	0.013x0.009	Coma Berenices	
IC 3476	12h 33m 36.3s	+13° 57' 03"	12.7	Galaxy	0.016x0.011	Coma Berenices	
IC 858	13h 15m 44.9s	+17° 07' 57"	12.7	Galaxy	0.011x0.009	Coma Berenices	
NGC 4516	12h 34m 01.9s	+14° 28' 32"	12.8	Galaxy	0.015x0.007	Coma Berenices	
NGC 4607	12h 42m 06.6s	+11° 47' 13"	12.8	Galaxy	0.024x0.005	Virgo	
NGC 5016	13h 12m 58.5s	+23° 59' 59"	12.8	Galaxy	0.014x0.010	Coma Berenices	
NGC 5158	13h 28m 39.4s	+17° 41' 10"	12.8	Galaxy	0.010x0.01	Coma Berenices	
IC 5171	13h 30m 15.1s	+11° 38' 34"	12.8	Galaxy	0.009x0.006	Virgo	
NGC 4584	12h 39m 12.2s	+13° 00' 42"	12.9	Galaxy	0.011x0.008	Virgo	
NGC 5249	13h 38m 30.0s	+15° 52' 52"	12.9	Galaxy	0.013x0.01	Bootes	
IC 4935	13h 04m 14.9s	+14° 16' 54"	13.0	Galaxy	0.01x0.008	Coma Berenices	
NGC 5180	13h 30m 19.5s	+16° 43' 60"	13.0	Galaxy	0.011x0.008	Coma Berenices	
NGC 5221	13h 35m 49.2s	+13° 44' 27"	13.0	Galaxy	0.013x0.006	Virgo	
IC 3877	12h 55m 41.9s	+19° 04' 45"	13.0	Galaxy	0.030x0.007	Coma Berenices	
IC 4633	12h 43m 31.3s	+14° 15' 31"	13.1	Galaxy	0.016x0.007	Coma Berenices	
NGC 4978	13h 08m 43.4s	+18° 19' 13"	13.1	Galaxy	0.012x0.006	Coma Berenices	
NGC 5222-1	13h 35m 48.9s	+13° 38' 58"	13.1	Galaxy	0.013x0.009	Virgo	5222-1
NGC 5293	13h 47m 44.8s	+16° 11' 00"	13.1	Galaxy	0.015x0.012	Bootes	
IC 3475	12h 33m 35.2s	+12° 40' 13"	13.1	Galaxy	0.014x0.013	Virgo	
IC 4641	12h 44m 02.0s	+11° 57' 11"	13.2	Galaxy	0.01x0.008	Virgo	
NGC 5132	13h 25m 22.1s	+13° 59' 57"	13.2	Galaxy	0.010x0.007	Virgo	
NGC 5190	13h 31m 30.7s	+18° 02' 31"	13.2	Galaxy	0.008x0.006	Coma Berenices	
NGC 5207	13h 33m 06.9s	+13° 47' 57"	13.2	Galaxy	0.014x0.008	Virgo	
IC 3631	12h 40m 42.3s	+12° 52' 33"	13.2	Galaxy	0.006x0.004	Virgo	
IC 3718	12h 45m 39.6s	+12° 15' 09"	13.2	Galaxy	0.022x0.008	Virgo	
IC 809	12h 43m 03.1s	+11° 39' 20"	13.2	Galaxy	0.008x0.008	Virgo	
IC 4758	12h 53m 37.7s	+15° 45' 04"	13.3	Galaxy	0.025x0.005	Coma Berenices	
IC 5092	13h 20m 43.5s	+22° 54' 21"	13.3	Galaxy	0.008x0.008	Coma Berenices	
IC 3470	12h 33m 18.0s	+11° 09' 51"	13.3	Galaxy	0.005x0.005	Virgo	
IC 3478	12h 33m 38.7s	+14° 05' 49"	13.3	Galaxy	0.009x0.008	Coma Berenices	
IC 3583	12h 37m 38.2s	+13° 09' 37"	13.3	Galaxy	0.018x0.009	Virgo	
IC 3611	12h 39m 58.5s	+13° 15' 56"	13.3	Galaxy	0.011x0.006	Coma Berenices	
IC 797	12h 32m 49.2s	+15° 01' 28"	13.3	Galaxy	0.010x0.007	Coma Berenices	
IC 933	13h 46m 07.0s	+23° 07' 46"	13.3	Galaxy	0.01x0.0075	Bootes	
NGC 4992	13h 09m 59.6s	+11° 32' 19"	13.4	Galaxy	0.01x0.005	Virgo	
IC 3481	12h 33m 46.9s	+11° 18' 20"	13.4	Galaxy	0.006x0.005	Virgo	
IC 3481A	12h 33m 51.4s	+11° 17' 29"	13.4	Galaxy	0.001x0.001	Virgo	IC 3481A, Zwicky's triplet
IC 800	12h 34m 51.1s	+15° 15' 19"	13.4	Galaxy	0.013x0.01	Coma Berenices	
IC 810	12h 43m 03.2s	+12° 29' 53"	13.4	Galaxy	0.013x0.004	Virgo	
NGC 4640	12h 43m 52.2s	+12° 11' 18"	13.5	Galaxy	0.011x0.006	Virgo	

Table 90: Main objects visible on chart 83 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5058	13h 17m 45.8s	+12° 27' 15"	13.5	Galaxy	0.005x0.005	Virgo	
IC 885	13h 23m 23.0s	+21° 13' 23"	13.5	Galaxy	0.006x0.006	Coma Berenices	
NGC 5185	13h 30m 55.4s	+13° 19' 25"	13.6	Galaxy	0.015x0.005	Virgo	
IC 3442	12h 32m 14.7s	+14° 00' 55"	13.6	Galaxy	0.007x0.006	Coma Berenices	
IC 3586	12h 37m 49.4s	+12° 25' 17"	13.6	Galaxy	0.009x0.008	Virgo	
IC 3745	12h 46m 38.5s	+19° 04' 47"	13.6	Galaxy	0.005x0.005	Coma Berenices	
IC 3806	12h 49m 49.4s	+14° 48' 34"	13.6	Galaxy	0.011x0.004	Coma Berenices	
IC 813	12h 46m 05.1s	+22° 56' 15"	13.6	Galaxy	0.007x0.006	Coma Berenices	
IC 912	13h 42m 19.9s	+23° 09' 17"	13.6	Galaxy	0.005x0.004	Bootes	
NGC 5115	13h 23m 53.6s	+13° 51' 27"	13.7	Galaxy	0.011x0.005	Virgo	
NGC 5165	13h 29m 32.6s	+11° 17' 41"	13.7	Galaxy	0.006x0.004	Virgo	
IC 3436	12h 31m 24.1s	+19° 34' 28"	13.7	Galaxy	0.003x0.001	Coma Berenices	
IC 3637	12h 41m 13.6s	+14° 36' 59"	13.7	Galaxy	0.018x0.008	Coma Berenices	
IC 3652	12h 41m 53.2s	+11° 05' 08"	13.7	Galaxy	0.006x0.006	Virgo	
IC 3742	12h 46m 26.1s	+13° 14' 01"	13.7	Galaxy	0.014x0.007	Coma Berenices	
NGC 5012A	13h 13m 34.0s	+22° 44' 05"	13.8	Galaxy	0.012x0.009	Coma Berenices	5012A
NGC 5167	13h 29m 33.5s	+12° 37' 07"	13.8	Galaxy	0.007x0.007	Virgo	
NGC 5178	13h 30m 22.8s	+11° 31' 57"	13.8	Galaxy	0.01x0.005	Virgo	
IC 3492	12h 34m 14.3s	+12° 45' 17"	13.8	Galaxy	0.005x0.003	Virgo	
IC 3653	12h 42m 10.2s	+11° 17' 21"	13.8	Galaxy	0.004x0.004	Virgo	
IC 3692	12h 43m 47.5s	+20° 53' 28"	13.8	Galaxy	0.007x0.005	Coma Berenices	
IC 3735	12h 46m 14.6s	+13° 35' 41"	13.8	Galaxy	0.007x0.004	Coma Berenices	
IC 4070	13h 02m 36.3s	+19° 12' 18"	13.8	Galaxy	0.003x0.001	Coma Berenices	
IC 857	13h 14m 43.1s	+16° 58' 51"	13.8	Galaxy	0.007x0.005	Coma Berenices	
IC 881	13h 20m 49.3s	+15° 45' 22"	13.8	Galaxy	0.013x0.003	Coma Berenices	
IC 882	13h 21m 00.0s	+15° 48' 14"	13.8	Galaxy	0.006x0.005	Coma Berenices	
NGC 4502	12h 32m 57.5s	+16° 35' 20"	13.9	Galaxy	0.009x0.005	Coma Berenices	
IC 4637	12h 43m 48.6s	+11° 20' 23"	13.9	Galaxy	0.01x0.004	Virgo	
NGC 4969-1	13h 07m 56.1s	+13° 32' 27"	13.9	Galaxy	0.005x0.005	Virgo	4969-1
NGC 4979	13h 08m 34.9s	+24° 42' 55"	13.9	Galaxy	0.008x0.005	Coma Berenices	
NGC 5151	13h 27m 33.5s	+16° 46' 51"	13.9	Galaxy	0.006x0.006	Coma Berenices	
IC 5181	13h 30m 35.1s	+13° 12' 43"	13.9	Galaxy	0.007x0.006	Virgo	
IC 3457	12h 32m 46.0s	+12° 33' 29"	13.9	Galaxy	0.01x0.006	Virgo	
IC 3501	12h 34m 46.0s	+13° 13' 24"	13.9	Galaxy	0.005x0.005	Coma Berenices	
IC 3509	12h 35m 06.1s	+11° 57' 01"	13.9	Galaxy	0.007x0.005	Virgo	
IC 815	12h 47m 16.9s	+11° 46' 43"	13.9	Galaxy	0.004x0.002	Virgo	
IC 867	13h 18m 12.0s	+20° 32' 35"	13.9	Galaxy	0.011x0.008	Coma Berenices	
NGC 5136	13h 25m 44.6s	+13° 38' 41"	14.0	Galaxy	0.005x0.005	Virgo	
IC 3530	12h 35m 43.6s	+17° 42' 52"	14.0	Galaxy	0.011x0.009	Coma Berenices	
IC 3540	12h 36m 21.7s	+12° 39' 07"	14.0	Galaxy	0.005x0.005	Virgo	
IC 3658	12h 42m 14.8s	+14° 36' 09"	14.0	Galaxy	0.010x0.005	Coma Berenices	
IC 3720	12h 45m 41.8s	+11° 57' 59"	14.0	Galaxy	0.010x0.005	Virgo	
IC 4523	12h 34m 42.4s	+15° 04' 09"	14.1	Galaxy	0.015x0.015	Coma Berenices	
IC 3486	12h 34m 08.5s	+12° 45' 29"	14.1	Galaxy	0.006x0.004	Virgo	
IC 3616	12h 39m 58.9s	+14° 37' 59"	14.1	Galaxy	0.008x0.004	Coma Berenices	
IC 3694	12h 44m 01.8s	+11° 06' 47"	14.1	Galaxy	0.005x0.003	Virgo	

Table 90: Main objects visible on chart 83 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3725	12h 45m 46.9s	+18° 39' 25"	14.1	Galaxy	0.007x0.002	Coma Berenices	
IC 851	13h 09m 26.8s	+20° 57' 15"	14.1	Galaxy	0.008x0.003	Coma Berenices	
IC 859	13h 15m 50.1s	+17° 07' 52"	14.1	Galaxy	0.007x0.007	Coma Berenices	
IC 911	13h 42m 16.2s	+23° 09' 27"	14.1	Galaxy	0.003x0.003	Bootes	
NGC 5179	13h 30m 24.2s	+11° 39' 14"	14.2	Galaxy	0.005x0.003	Virgo	
IC 3459	12h 32m 50.5s	+12° 04' 32"	14.2	Galaxy	0.009x0.006	Virgo	
IC 3461	12h 32m 57.4s	+11° 47' 26"	14.2	Galaxy	0.005x0.005	Virgo	
IC 3567	12h 37m 17.0s	+13° 30' 15"	14.2	Galaxy	0.006x0.005	Coma Berenices	
IC 4122	13h 04m 17.3s	+20° 06' 01"	14.2	Galaxy	0.002x0.002	Coma Berenices	
IC 854	13h 10m 41.9s	+24° 28' 55"	14.2	Galaxy	0.006x0.005	Coma Berenices	
IC 862	13h 17m 07.9s	+19° 57' 10"	14.2	Galaxy	0.003x0.003	Coma Berenices	
IC 894	13h 32m 57.2s	+16° 57' 26"	14.2	Galaxy	0.009x0.003	Coma Berenices	
IC 905	13h 40m 53.8s	+23° 03' 09"	14.2	Galaxy	0.005x0.005	Bootes	
IC 4529	12h 33m 45.8s	+20° 05' 04"	14.3	Galaxy	0.016x0.003	Coma Berenices	
NGC 4611	12h 42m 19.7s	+13° 37' 52"	14.3	Galaxy	0.01x0.001	Coma Berenices	
IC 3473	12h 33m 13.2s	+18° 08' 43"	14.3	Galaxy	0.01x0.006	Coma Berenices	
IC 3520	12h 35m 26.2s	+13° 24' 15"	14.3	Galaxy	0.008x0.005	Coma Berenices	
IC 3574	12h 37m 22.2s	+12° 18' 24"	14.3	Galaxy	0.005x0.003	Virgo	
IC 3635	12h 41m 07.7s	+12° 46' 36"	14.3	Galaxy	0.007x0.005	Virgo	
IC 3662	12h 42m 29.7s	+23° 19' 36"	14.3	Galaxy	0.005x0.005	Coma Berenices	
IC 3663	12h 42m 33.7s	+12° 08' 56"	14.3	Galaxy	0.006x0.004	Virgo	
IC 827	12h 52m 48.8s	+16° 11' 08"	14.3	Galaxy	0.007x0.004	Coma Berenices	
IC 909	13h 41m 41.9s	+24° 22' 57"	14.3	Galaxy	0.003x0.003	Bootes	
IC 5176	13h 30m 18.3s	+11° 41' 22"	14.4	Galaxy	0.004x0.004	Virgo	
IC 3489	12h 34m 08.3s	+12° 08' 52"	14.4	Galaxy	0.005x0.005	Virgo	
IC 3500	12h 34m 44.0s	+13° 51' 49"	14.4	Galaxy	0.005x0.003	Coma Berenices	
IC 3779	12h 48m 14.9s	+12° 04' 05"	14.4	Galaxy	0.005x0.003	Virgo	
IC 856	13h 11m 34.2s	+20° 26' 29"	14.4	Galaxy	0.008x0.001	Coma Berenices	
IC 910	13h 41m 58.7s	+23° 11' 27"	14.4	Galaxy	0.004x0.003	Bootes	
IC 916	13h 43m 28.7s	+24° 22' 31"	14.4	Galaxy	0.005x0.005	Bootes	
IC 941	13h 49m 26.1s	+23° 55' 35"	14.4	Galaxy	0.005x0.003	Bootes	
NGC 4752	12h 52m 23.1s	+13° 41' 05"	14.5	Galaxy	0.005x0.002	Coma Berenices	
IC 3434	12h 31m 21.5s	+18° 42' 37"	14.5	Galaxy	0.003x0.001	Coma Berenices	
IC 3484	12h 33m 59.6s	+17° 18' 14"	14.5	Galaxy	0.005x0.004	Coma Berenices	
IC 3505	12h 35m 04.6s	+15° 52' 10"	14.5	Galaxy	0.007x0.003	Coma Berenices	
IC 3557	12h 37m 02.3s	+16° 32' 34"	14.5	Galaxy	0.006x0.006	Coma Berenices	
IC 3629	12h 40m 41.1s	+13° 26' 04"	14.5	Galaxy	0.005x0.002	Coma Berenices	
IC 3665	12h 42m 41.1s	+11° 23' 22"	14.5	Galaxy	0.007x0.005	Virgo	
IC 3698	12h 44m 11.8s	+11° 06' 46"	14.5	Galaxy	0.004x0.004	Virgo	
IC 4202	13h 09m 23.7s	+24° 36' 18"	14.5	Galaxy	0.014x0.001	Coma Berenices	
IC 798	12h 33m 27.7s	+15° 18' 60"	14.5	Galaxy	0.003x0.003	Coma Berenices	
IC 846	13h 06m 13.6s	+22° 59' 58"	14.5	Galaxy	0.009x0.008	Coma Berenices	
IC 848	13h 07m 54.9s	+15° 54' 39"	14.5	Galaxy	0.006x0.005	Coma Berenices	
IC 860	13h 15m 55.3s	+24° 31' 25"	14.5	Galaxy	0.006x0.004	Coma Berenices	
IC 889	13h 27m 31.0s	+11° 46' 37"	14.5	Galaxy	0.002x0.002	Virgo	
IC 898	13h 35m 02.6s	+13° 11' 18"	14.5	Galaxy	0.005x0.003	Virgo	

Table 90: Main objects visible on chart 83 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 914	13h 42m 31.5s	+23° 05' 58"	14.5	Galaxy	0.005x0.005	Bootes	
IC 5177	13h 30m 17.6s	+11° 42' 15"	14.6	Galaxy	0.005x0.001	Virgo	
IC 3506	12h 35m 01.2s	+12° 38' 33"	14.6	Galaxy	0.005x0.004	Virgo	
IC 3528	12h 35m 50.1s	+15° 28' 02"	14.6	Galaxy	0.003x0.003	Coma Berenices	
IC 3581	12h 37m 31.7s	+24° 19' 48"	14.6	Galaxy	0.007x0.003	Coma Berenices	
IC 3609	12h 39m 29.0s	+14° 15' 15"	14.6	Galaxy	0.003x0.003	Coma Berenices	
IC 3730	12h 46m 00.0s	+21° 04' 18"	14.6	Galaxy	0.002x0.002	Coma Berenices	
IC 3740	12h 46m 24.0s	+20° 43' 05"	14.6	Galaxy	0.006x0.003	Coma Berenices	
IC 841	13h 00m 40.1s	+21° 42' 60"	14.6	Galaxy	0.007x0.002	Coma Berenices	
IC 868-1	13h 18m 20.8s	+20° 31' 04"	14.6	Galaxy	0.004x0.004	Coma Berenices	IC 868-1
IC 901	13h 36m 35.5s	+13° 14' 20"	14.6	Galaxy	0.006x0.005	Virgo	
IC 913	13h 42m 20.6s	+23° 04' 35"	14.6	Galaxy	0.006x0.005	Bootes	
NGC 4969-2	13h 07m 57.0s	+13° 32' 27"	14.7	Galaxy	0.002x0.002	Virgo	4969-2
NGC 5222-2	13h 35m 50.7s	+13° 39' 07"	14.7	Galaxy	0.005x0.002	Virgo	5222-2
IC 3471	12h 33m 17.1s	+15° 55' 09"	14.7	Galaxy	0.006x0.003	Coma Berenices	
IC 3522	12h 35m 40.2s	+15° 07' 19"	14.7	Galaxy	0.012x0.005	Coma Berenices	
IC 3671	12h 42m 44.7s	+23° 24' 42"	14.7	Galaxy	0.004x0.004	Coma Berenices	
IC 3710	12h 45m 04.0s	+12° 00' 58"	14.7	Galaxy	0.009x0.005	Virgo	
IC 3760	12h 47m 12.5s	+11° 46' 33"	14.7	Galaxy	0.002x0.001	Virgo	
IC 4149	13h 05m 03.4s	+22° 11' 37"	14.7	Galaxy	0.006x0.003	Coma Berenices	
IC 845	13h 05m 51.4s	+11° 58' 57"	14.7	Galaxy	0.002x0.002	Virgo	
IC 866	13h 18m 09.0s	+20° 35' 49"	14.7	Galaxy	0.009x0.002	Coma Berenices	
IC 870	13h 18m 23.0s	+20° 30' 19"	14.7	Galaxy	0.005x0.003	Coma Berenices	
IC 949	13h 53m 07.4s	+22° 26' 01"	14.7	Galaxy	0.009x0.003	Bootes	
IC 5186	13h 30m 57.3s	+12° 04' 58"	14.8	Galaxy	0.003x0.002	Virgo	
IC 3453	12h 32m 32.3s	+14° 45' 37"	14.8	Galaxy	0.008x0.001	Coma Berenices	
IC 3519	12h 35m 32.7s	+15° 30' 12"	14.8	Galaxy	0.005x0.003	Coma Berenices	
IC 3542	12h 36m 35.8s	+11° 34' 04"	14.8	Galaxy	0.003x0.002	Virgo	
IC 3615	12h 39m 55.6s	+18° 06' 08"	14.8	Galaxy	0.009x0.002	Coma Berenices	
IC 3871	12h 55m 19.1s	+18° 49' 54"	14.8	Galaxy	0.003x0.003	Coma Berenices	
IC 3931	12h 58m 50.4s	+19° 31' 13"	14.8	Galaxy	0.002x0.001	Coma Berenices	
IC 897	13h 35m 11.5s	+17° 45' 23"	14.8	Galaxy	0.005x0.001	Coma Berenices	
IC 3467	12h 33m 19.1s	+11° 41' 18"	14.9	Galaxy	0.009x0.001	Virgo	
IC 3483	12h 34m 04.6s	+11° 14' 52"	14.9	Galaxy	0.004x0.003	Virgo	
IC 3918	12h 57m 46.4s	+22° 16' 34"	14.9	Galaxy	0.005x0.002	Coma Berenices	
IC 3601	12h 38m 48.0s	+15° 07' 33"	15.0	Galaxy	0.005x0.003	Coma Berenices	
IC 3606	12h 39m 19.6s	+12° 30' 41"	15.0	Galaxy	0.002x0.002	Virgo	
IC 3670	12h 42m 49.4s	+11° 40' 29"	15.0	Galaxy	0.004x0.003	Virgo	
IC 3689	12h 43m 30.6s	+20° 45' 07"	15.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3705-1	12h 44m 35.3s	+19° 13' 42"	15.0	Galaxy	0.001x0.001	Coma Berenices	IC 3705-1
IC 3708	12h 44m 46.9s	+13° 01' 21"	15.0	Galpart	0.001x0.001	Virgo	
IC 3736	12h 46m 12.3s	+21° 26' 15"	15.0	Galaxy	0.004x0.002	Coma Berenices	
IC 3759	12h 47m 11.2s	+20° 41' 07"	15.0	Galaxy	0.005x0.001	Coma Berenices	
IC 3789	12h 49m 00.5s	+20° 05' 46"	15.0	Galaxy	0.004x0.003	Coma Berenices	
IC 3856	12h 54m 38.5s	+19° 59' 45"	15.0	Galaxy	0.006x0.001	Coma Berenices	
IC 3865	12h 55m 07.6s	+18° 46' 16"	15.0	Galaxy	0.003x0.003	Coma Berenices	

Table 90: Main objects visible on chart 83 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3872	12h 55m 23.9s	+18° 51' 56"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 3881	12h 55m 47.4s	+19° 01' 14"	15.0	Galaxy	0.001x0.001	Coma Berenices	
IC 4014	13h 01m 06.7s	+22° 24' 09"	15.0	Galaxy	0.001x0.001	Coma Berenices	
IC 4023	13h 01m 19.7s	+18° 59' 60"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 4058	13h 02m 02.4s	+19° 23' 50"	15.0	Galaxy	0.002x0.001	Coma Berenices	
IC 4059	13h 02m 08.5s	+19° 10' 35"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 4075	13h 02m 41.6s	+19° 52' 05"	15.0	Galaxy	0.002x0.001	Coma Berenices	
IC 4154	13h 05m 20.7s	+23° 28' 44"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 4162	13h 05m 55.8s	+20° 27' 30"	15.0	Galaxy	0.002x0.002	Coma Berenices	
IC 906	13h 41m 01.0s	+23° 15' 00"	15.0	Galaxy	0.007x0.001	Bootes	
NGC 5137	13h 25m 45.7s	+13° 59' 01"	15.1	Galaxy	0.005x0.002	Virgo	
IC 3462	12h 33m 04.0s	+15° 12' 07"	15.1	Galaxy	0.005x0.002	Coma Berenices	
IC 3534	12h 35m 46.5s	+14° 52' 46"	15.1	Galaxy	0.003x0.003	Coma Berenices	
IC 3597	12h 38m 18.2s	+23° 45' 53"	15.1	Galaxy	0.003x0.003	Coma Berenices	
IC 3656	12h 42m 07.3s	+22° 29' 46"	15.1	Galaxy	0.004x0.001	Coma Berenices	
IC 3684	12h 43m 20.9s	+11° 38' 28"	15.1	Galaxy	0.009x0.003	Virgo	
IC 4047	13h 01m 50.7s	+19° 35' 27"	15.1	Galaxy	0.003x0.003	Coma Berenices	
IC 803	12h 40m 30.7s	+16° 29' 25"	15.1	Galaxy	0.006x0.001	Coma Berenices	
IC 3448	12h 32m 17.4s	+17° 06' 25"	15.2	Galaxy	0.006x0.004	Coma Berenices	
IC 3466	12h 33m 00.2s	+11° 43' 06"	15.2	Galaxy	0.005x0.003	Virgo	
IC 3622	12h 40m 26.6s	+15° 20' 01"	15.2	Galaxy	0.005x0.005	Coma Berenices	
IC 3624	12h 40m 29.0s	+11° 52' 60"	15.2	Galaxy	0.002x0.002	Virgo	
IC 3728	12h 45m 56.7s	+20° 52' 32"	15.2	Galaxy	0.001x0.001	Coma Berenices	
IC 3756	12h 47m 04.4s	+11° 49' 02"	15.2	Galaxy	0.004x0.002	Virgo	
IC 3818	12h 50m 40.1s	+21° 39' 15"	15.2	Galaxy	0.004x0.001	Coma Berenices	
IC 3874	12h 55m 27.8s	+18° 51' 37"	15.2	Galaxy	0.002x0.002	Coma Berenices	
IC 3905	12h 57m 01.9s	+19° 45' 20"	15.2	Galaxy	0.002x0.001	Coma Berenices	
IC 3934	12h 59m 10.8s	+18° 43' 41"	15.2	Galaxy	0.003x0.003	Coma Berenices	
IC 3937	12h 59m 18.0s	+18° 43' 17"	15.2	Galaxy	0.001x0.001	Coma Berenices	
IC 3985	13h 00m 36.2s	+19° 29' 42"	15.2	Galaxy	0.002x0.001	Coma Berenices	
IC 4087	13h 02m 53.4s	+19° 53' 52"	15.2	Galaxy	0.003x0.002	Coma Berenices	
IC 4129	13h 04m 37.0s	+18° 46' 49"	15.2	Galaxy	0.002x0.001	Coma Berenices	
IC 4146	13h 05m 03.3s	+19° 10' 54"	15.2	Galaxy	0.001x0.001	Coma Berenices	
IC 4164	13h 06m 07.3s	+20° 27' 03"	15.2	Galaxy	0.002x8.333	Coma Berenices	
IC 864	13h 18m 00.7s	+20° 35' 53"	15.2	Galaxy	0.004x0.001	Coma Berenices	
IC 3604	12h 39m 15.2s	+11° 37' 54"	15.3	Galaxy	0.002x0.001	Virgo	
IC 3654	12h 42m 05.9s	+22° 29' 29"	15.3	Galaxy	0.002x0.002	Coma Berenices	
IC 4039	13h 01m 32.1s	+21° 35' 44"	15.3	Galaxy	0.001x0.001	Coma Berenices	
IC 4125	13h 04m 28.0s	+18° 42' 27"	15.3	Galaxy	0.004x0.003	Coma Berenices	
IC 3429	12h 31m 01.9s	+23° 26' 46"	15.4	Galaxy	0.003x0.003	Coma Berenices	
IC 3603	12h 39m 10.3s	+15° 28' 17"	15.4	Galaxy	0.003x0.002	Coma Berenices	
IC 3621	12h 40m 27.7s	+15° 24' 16"	15.4	Galaxy	0.003x0.003	Coma Berenices	
IC 3643	12h 41m 35.3s	+12° 18' 29"	15.4	Galaxy	0.004x0.003	Virgo	
IC 3659	12h 42m 21.1s	+22° 49' 56"	15.4	Galaxy	0.003x0.001	Coma Berenices	
IC 3785	12h 48m 45.8s	+19° 10' 37"	15.4	Galaxy	0.003x0.003	Coma Berenices	
IC 3866-1	12h 55m 08.5s	+22° 16' 00"	15.4	Galaxy	0.002x0.002	Coma Berenices	IC 3866-1

Table 90: Main objects visible on chart 83 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3944	12h 59m 37.5s	+23° 41' 03"	15.4	Galaxy	0.003x0.001	Coma Berenices	
IC 4007-1	13h 01m 00.1s	+19° 52' 05"	15.4	Galaxy	0.003x0.001	Coma Berenices	IC 4007-1
IC 4017	13h 01m 08.5s	+22° 27' 32"	15.4	Galaxy	0.001x8.333	Coma Berenices	
IC 4091	13h 03m 05.8s	+19° 47' 47"	15.4	Galaxy	0.002x8.333	Coma Berenices	
IC 4138	13h 04m 54.8s	+20° 34' 08"	15.4	Galaxy	0.002x0.001	Coma Berenices	
IC 4181	13h 06m 59.1s	+21° 23' 52"	15.4	Galaxy	0.003x0.003	Coma Berenices	
IC 3465	12h 33m 06.9s	+11° 57' 44"	15.5	Galaxy	0.004x0.002	Virgo	
IC 3649	12h 41m 43.4s	+21° 00' 21"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 3705-2	12h 44m 35.3s	+19° 13' 29"	15.5	Galaxy	0.001x0.001	Coma Berenices	IC 3705-2
IC 3731	12h 45m 59.5s	+12° 20' 55"	15.5	Galaxy	0.004x0.003	Virgo	
IC 3848-1	12h 53m 33.7s	+21° 19' 02"	15.5	Galaxy	0.002x0.002	Coma Berenices	IC 3848-1
IC 3870	12h 55m 14.6s	+22° 17' 02"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 3875	12h 55m 30.2s	+21° 56' 19"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 3882	12h 55m 46.7s	+22° 28' 40"	15.5	Galaxy	0.002x0.001	Coma Berenices	
IC 3953	13h 00m 01.8s	+22° 59' 25"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 3958	13h 00m 04.0s	+23° 55' 31"	15.5	Galaxy	0.001x0.001	Coma Berenices	
IC 4025	13h 01m 19.7s	+19° 00' 02"	15.5	Galaxy	0.002x0.002	Coma Berenices	
IC 4148	13h 05m 03.6s	+19° 09' 46"	15.5	Galaxy	0.001x8.333	Coma Berenices	
IC 4175	13h 06m 40.2s	+20° 16' 41"	15.5	Galaxy	0.003x0.002	Coma Berenices	
IC 3605	12h 39m 14.8s	+19° 26' 32"	15.6	Galaxy	0.003x0.001	Coma Berenices	
IC 3629A	12h 40m 43.5s	+13° 26' 60"	15.6	Galaxy	0.005x0.002	Coma Berenices	IC 3629A
IC 3784	12h 48m 44.2s	+19° 17' 12"	15.6	Galaxy	0.003x0.001	Coma Berenices	
IC 3867	12h 55m 12.9s	+18° 50' 41"	15.6	Galaxy	0.004x0.002	Coma Berenices	
IC 4128-1	13h 04m 34.1s	+20° 07' 15"	15.6	Galaxy	0.004x0.002	Coma Berenices	IC 4128-1
IC 3411	12h 30m 06.3s	+24° 29' 04"	15.7	Galaxy	0.004x0.001	Coma Berenices	
IC 3558-1	12h 36m 57.4s	+11° 45' 02"	15.7	Galaxy	0.003x0.001	Virgo	IC 3558-1
IC 3595-1	12h 37m 59.9s	+23° 41' 17"	15.7	Galaxy	0.003x0.001	Coma Berenices	IC 3595-1
IC 3595-2	12h 37m 59.7s	+23° 40' 53"	15.7	Galaxy	0.004x8.333	Coma Berenices	IC 3595-2
IC 3775	12h 48m 10.4s	+11° 39' 44"	15.7	Galaxy	0.007x0.002	Virgo	
IC 3814	12h 50m 25.7s	+19° 57' 08"	15.7	Galaxy	0.004x0.003	Coma Berenices	
IC 3864	12h 55m 05.7s	+18° 51' 14"	15.7	Galaxy	0.002x0.001	Coma Berenices	
IC 3868	12h 55m 14.3s	+18° 53' 35"	15.7	Galaxy	0.002x0.001	Coma Berenices	
IC 3873	12h 55m 25.0s	+18° 47' 07"	15.7	Galaxy	0.003x0.002	Coma Berenices	
IC 4081	13h 02m 47.8s	+22° 40' 31"	15.7	Galaxy	0.002x0.001	Coma Berenices	
IC 4089	13h 02m 54.8s	+19° 24' 23"	15.7	Galaxy	0.001x0.001	Coma Berenices	
IC 4137	13h 04m 51.8s	+22° 38' 39"	15.7	Galaxy	0.002x0.002	Coma Berenices	
IC 4159	13h 05m 38.5s	+22° 08' 44"	15.7	Galaxy	0.001x0.001	Coma Berenices	
IC 4172	13h 07m 25.6s	+22° 45' 17"	15.7	Galaxy	0.003x0.002	Coma Berenices	
IC 4185-1	13h 07m 05.1s	+21° 40' 25"	15.7	Galaxy	0.005x0.001	Coma Berenices	IC 4185-1
IC 5226	13h 35m 56.5s	+13° 49' 47"	15.8	Galaxy	0.002x8.333	Virgo	
IC 3424	12h 30m 38.9s	+24° 18' 32"	15.8	Galaxy	0.001x8.333	Coma Berenices	
IC 3661	12h 42m 29.1s	+22° 23' 47"	15.8	Galaxy	0.005x8.333	Coma Berenices	
IC 3929	12h 58m 34.1s	+20° 18' 02"	15.8	Galaxy	0.003x0.003	Coma Berenices	
IC 4095	13h 03m 13.4s	+19° 00' 14"	15.8	Galaxy	0.004x0.001	Coma Berenices	
IC 4139	13h 04m 57.1s	+19° 11' 57"	15.8	Galaxy	0.002x0.002	Coma Berenices	
IC 4163	13h 06m 00.7s	+20° 40' 30"	15.8	Galaxy	0.003x0.002	Coma Berenices	

Table 90: Main objects visible on chart 83 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3573	12h 37m 21.7s	+11° 39' 39"	15.9	Galaxy	0.003x0.002	Virgo	
IC 3678	12h 43m 06.3s	+20° 46' 54"	15.9	Galaxy	0.001x0.001	Coma Berenices	
IC 3815	12h 50m 32.0s	+19° 10' 37"	15.9	Galaxy	0.004x0.001	Coma Berenices	
IC 868-2	13h 18m 22.4s	+20° 31' 35"	15.9	Galaxy	0.002x8.333	Coma Berenices	IC 868-2
IC 3558-2	12h 36m 57.5s	+11° 45' 12"	16.0	Galaxy	0.001x0.001	Virgo	IC 3558-2
IC 3580	12h 37m 23.3s	+18° 12' 03"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3629B	12h 40m 37.2s	+13° 30' 28"	16.0	Galaxy	0.003x0.003	Coma Berenices	IC 3629B
IC 3677	12h 43m 05.5s	+20° 47' 13"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3696	12h 44m 03.4s	+19° 49' 47"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3734	12h 46m 02.5s	+22° 56' 26"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3744	12h 46m 35.1s	+19° 24' 10"	16.0	Galaxy	0.003x0.002	Coma Berenices	
IC 3776	12h 48m 05.4s	+22° 23' 10"	16.0	Galaxy	0.004x0.002	Coma Berenices	
IC 3857	12h 54m 49.4s	+19° 30' 34"	16.0	Galaxy	0.002x0.001	Coma Berenices	
IC 3948	12h 59m 50.7s	+23° 57' 52"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 3965	13h 00m 16.0s	+18° 44' 46"	16.0	Galaxy	0.001x8.333	Coma Berenices	
IC 4110	13h 03m 51.4s	+19° 07' 52"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 4113	13h 03m 56.3s	+20° 22' 38"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 4128-2	13h 04m 33.7s	+20° 07' 28"	16.0	Galaxy	0.001x8.333	Coma Berenices	IC 4128-2
IC 4130	13h 04m 39.6s	+19° 10' 29"	16.0	Galaxy	0.008x0.005	Coma Berenices	
IC 4140	13h 04m 58.9s	+20° 00' 00"	16.0	Galaxy	0.001x0.001	Coma Berenices	
IC 4185-2	13h 07m 05.3s	+21° 40' 47"	16.0	Galaxy	0.001x0.001	Coma Berenices	IC 4185-2

7.85 Main objects visible on chart 84

Table 91: Main objects visible on chart 84

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 983	14h 10m 55.5s	+17° 39' 00"	11.7	Galaxy	0.032x0.021	Bootes	
NGC 5490	14h 10m 48.6s	+17° 27' 40"	12.1	Galaxy	0.02x0.015	Bootes	
NGC 5600	14h 24m 41.0s	+14° 33' 27"	12.1	Galaxy	0.011x0.011	Bootes	
IC 1014	14h 29m 10.4s	+13° 42' 03"	12.4	Galaxy	0.022x0.016	Bootes	
NGC 5587	14h 23m 02.7s	+13° 50' 10"	12.5	Galaxy	0.021x0.006	Bootes	
NGC 5644	14h 31m 17.8s	+11° 50' 56"	12.5	Galaxy	0.011x0.011	Bootes	
NGC 5513	14h 13m 59.2s	+20° 19' 55"	12.6	Galaxy	0.015x0.009	Bootes	
NGC 5454	14h 05m 37.9s	+14° 17' 47"	12.7	Galaxy	0.012x0.007	Bootes	
NGC 5492	14h 11m 25.9s	+19° 31' 40"	12.8	Galaxy	0.013x0.003	Bootes	
NGC 5525	14h 16m 31.1s	+14° 11' 57"	12.8	Galaxy	0.012x0.007	Bootes	
NGC 5762	14h 49m 34.4s	+12° 22' 59"	12.8	Galaxy	0.012x0.010	Bootes	
NGC 5456	14h 05m 51.5s	+11° 47' 10"	12.9	Galaxy	0.01x0.008	Bootes	
IC 959	13h 56m 55.9s	+13° 25' 08"	12.9	Galaxy	0.014x0.008	Bootes	
IC 5332	13h 52m 59.8s	+16° 52' 53"	13.0	Galaxy	0.007x0.007	Bootes	
NGC 5504	14h 13m 07.3s	+15° 45' 27"	13.0	Galaxy	0.010x0.009	Bootes	
NGC 5710	14h 40m 05.9s	+19° 58' 00"	13.0	Galaxy	0.01x0.009	Bootes	
IC 982	14h 10m 50.2s	+17° 36' 44"	13.0	Galaxy	0.008x0.008	Bootes	
NGC 5293	13h 47m 44.8s	+16° 11' 00"	13.1	Galaxy	0.015x0.012	Bootes	

Table 91: Main objects visible on chart 84 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5459	14h 05m 52.5s	+13° 02' 49"	13.1	Galaxy	0.009x0.008	Bootes	
NGC 5505	14h 13m 23.8s	+13° 13' 15"	13.2	Galaxy	0.008x0.005	Bootes	
NGC 5550	14h 19m 20.2s	+12° 48' 03"	13.2	Galaxy	0.01x0.006	Bootes	
NGC 5610	14h 25m 11.9s	+24° 32' 01"	13.2	Galaxy	0.016x0.005	Bootes	
NGC 5655	14h 31m 42.7s	+13° 53' 24"	13.2	Galaxy	0.009x0.007	Bootes	
IC 4516	14h 55m 13.9s	+16° 17' 00"	13.2	Galaxy	0.008x0.005	Bootes	
IC 948	13h 53m 19.1s	+14° 00' 10"	13.2	Galaxy	0.010x0.005	Bootes	
NGC 5627	14h 29m 26.6s	+11° 17' 55"	13.3	Galaxy	0.014x0.008	Bootes	
NGC 5628	14h 29m 16.4s	+17° 50' 43"	13.3	Galaxy	0.009x0.005	Bootes	
NGC 5649	14h 31m 24.2s	+13° 56' 39"	13.3	Galaxy	0.009x0.006	Bootes	
NGC 5760	14h 48m 32.2s	+18° 25' 38"	13.3	Galaxy	0.012x0.005	Bootes	
IC 933	13h 46m 07.0s	+23° 07' 46"	13.3	Galaxy	0.01x0.0075	Bootes	
IC 962	13h 58m 06.0s	+11° 56' 03"	13.3	Galaxy	0.006x0.006	Bootes	
NGC 5702	14h 39m 44.6s	+20° 25' 47"	13.4	Galaxy	0.009x0.006	Bootes	
NGC 5829	15h 03m 29.9s	+23° 15' 48"	13.4	Galaxy	0.014x0.012	Bootes	
IC 944	13h 52m 23.3s	+14° 00' 11"	13.4	Galaxy	0.013x0.004	Bootes	
IC 946	13h 53m 00.7s	+14° 01' 41"	13.4	Galaxy	0.007x0.006	Bootes	
NGC 5522	14h 15m 41.9s	+15° 03' 48"	13.5	Galaxy	0.015x0.003	Bootes	
NGC 5583	14h 22m 32.6s	+13° 09' 02"	13.5	Galaxy	0.006x0.005	Bootes	
NGC 5737	14h 44m 02.0s	+18° 48' 17"	13.5	Galaxy	0.010x0.006	Bootes	
NGC 5758	14h 47m 53.6s	+13° 35' 35"	13.5	Galaxy	0.009x0.007	Bootes	
IC 984	14h 10m 58.7s	+18° 16' 47"	13.5	Galaxy	0.015x0.004	Bootes	
NGC 5747	14h 45m 12.7s	+12° 03' 24"	13.6	Galaxy	0.006x0.006	Bootes	
IC 912	13h 42m 19.9s	+23° 09' 17"	13.6	Galaxy	0.005x0.004	Bootes	
IC 979	14h 10m 24.2s	+14° 44' 50"	13.6	Galaxy	0.008x0.005	Bootes	
IC 1000	14h 20m 31.1s	+17° 46' 23"	13.7	Galaxy	0.007x0.004	Bootes	
IC 1076	14h 55m 49.3s	+17° 57' 55"	13.7	Galaxy	0.008x0.004	Bootes	
NGC 5508	14h 13m 18.3s	+24° 33' 06"	13.8	Galaxy	0.009x0.006	Bootes	
NGC 5591-1	14h 23m 25.2s	+13° 38' 08"	13.8	Galaxy	0.010x0.005	Bootes	5591-1
NGC 5778	14h 55m 21.2s	+18° 34' 13"	13.8	Galaxy	0.01x0.0075	Bootes	
IC 1075	14h 55m 39.1s	+18° 02' 01"	13.8	Galaxy	0.01x0.005	Bootes	
IC 4475	14h 39m 11.9s	+23° 15' 25"	13.8	Galaxy	0.007x0.006	Bootes	
IC 960A	13h 56m 50.7s	+17° 24' 43"	13.8	Galaxy	0.011x0.005	Bootes	IC 960A
NGC 5637	14h 29m 48.6s	+23° 06' 40"	13.9	Galaxy	0.007x0.004	Bootes	
IC 1058	14h 50m 02.7s	+16° 56' 51"	13.9	Galaxy	0.007x0.002	Bootes	
IC 4483	14h 41m 10.1s	+16° 36' 30"	13.9	Galaxy	0.012x0.004	Bootes	
IC 970	14h 03m 26.3s	+14° 27' 59"	13.9	Galaxy	0.008x0.002	Bootes	
IC 999	14h 20m 23.5s	+17° 47' 37"	13.9	Galaxy	0.006x0.003	Bootes	
NGC 5518	14h 14m 37.9s	+20° 45' 55"	14.0	Galaxy	0.005x0.005	Bootes	
NGC 5559	14h 20m 01.5s	+24° 43' 00"	14.0	Galaxy	0.011x0.003	Bootes	
NGC 5782	14h 56m 47.1s	+11° 47' 23"	14.0	Galaxy	0.005x0.005	Bootes	
IC 1085	15h 03m 33.3s	+17° 10' 59"	14.0	Galaxy	0.007x0.005	Bootes	
IC 4417	14h 25m 44.6s	+16° 57' 27"	14.0	Galaxy	0.006x0.005	Bootes	
IC 4503	14h 47m 30.3s	+16° 04' 18"	14.0	Galaxy	0.006x0.003	Bootes	
IC 967	13h 59m 15.2s	+14° 22' 14"	14.0	Galaxy	0.006x0.003	Bootes	
NGC 5509	14h 13m 30.4s	+20° 18' 16"	14.1	Galaxy	0.009x0.006	Bootes	

Table 91: Main objects visible on chart 84 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5581	14h 22m 05.5s	+23° 23' 54"	14.1	Galaxy	0.006x0.005	Bootes	
NGC 5711	14h 40m 12.2s	+19° 54' 49"	14.1	Galaxy	0.008x0.005	Bootes	
IC 1037	14h 39m 15.6s	+18° 06' 26"	14.1	Galaxy	0.006x0.004	Bootes	
IC 4429	14h 28m 28.3s	+16° 49' 13"	14.1	Galaxy	0.005x0.005	Bootes	
IC 4463	14h 36m 40.0s	+15° 56' 30"	14.1	Galaxy	0.003x0.003	Bootes	
IC 911	13h 42m 16.2s	+23° 09' 27"	14.1	Galaxy	0.003x0.003	Bootes	
NGC 5490C	14h 10m 58.1s	+17° 31' 52"	14.2	Galaxy	0.009x0.006	Bootes	
NGC 5591-2	14h 23m 26.8s	+13° 38' 09"	14.2	Galaxy	0.008x0.004	Bootes	5591-2
IC 4494	14h 45m 18.1s	+15° 24' 21"	14.2	Galaxy	0.005x0.003	Bootes	
IC 965	13h 58m 39.0s	+17° 25' 26"	14.2	Galaxy	0.007x0.005	Bootes	
IC 1038	14h 40m 19.5s	+11° 51' 08"	14.3	Galaxy	0.003x0.002	Bootes	
IC 1051	14h 45m 01.4s	+18° 56' 42"	14.3	Galaxy	0.003x0.002	Bootes	
IC 1053	14h 46m 33.7s	+16° 52' 19"	14.3	Galaxy	0.004x0.002	Bootes	
IC 4426	14h 28m 08.0s	+16° 45' 06"	14.3	Galaxy	0.004x0.004	Bootes	
IC 4478	14h 40m 03.6s	+15° 48' 04"	14.3	Galaxy	0.005x0.003	Bootes	
IC 909	13h 41m 41.9s	+24° 22' 57"	14.3	Galaxy	0.003x0.003	Bootes	
IC 950-1	13h 53m 19.0s	+14° 24' 12"	14.3	Galaxy	0.01x0.005	Bootes	IC 950-1
IC 975	14h 08m 00.7s	+15° 14' 01"	14.3	Galaxy	0.004x0.002	Bootes	
NGC 5759	14h 48m 06.4s	+13° 22' 54"	14.4	Galaxy	0.002x0.001	Bootes	
NGC 5763	14h 49m 50.5s	+12° 24' 59"	14.4	Galaxy	0.003x0.003	Bootes	
IC 1015	14h 29m 10.5s	+15° 20' 26"	14.4	Galaxy	0.005x0.003	Bootes	
IC 1021	14h 30m 06.9s	+20° 34' 31"	14.4	Galaxy	0.009x0.006	Bootes	
IC 4434	14h 28m 45.8s	+16° 07' 40"	14.4	Galaxy	0.008x0.005	Bootes	
IC 4440	14h 29m 50.0s	+17° 14' 28"	14.4	Galaxy	0.006x0.005	Bootes	
IC 4486	14h 42m 30.8s	+18° 28' 53"	14.4	Galaxy	0.003x0.001	Bootes	
IC 910	13h 41m 58.7s	+23° 11' 27"	14.4	Galaxy	0.004x0.003	Bootes	
IC 916	13h 43m 28.7s	+24° 22' 31"	14.4	Galaxy	0.005x0.005	Bootes	
IC 941	13h 49m 26.1s	+23° 55' 35"	14.4	Galaxy	0.005x0.003	Bootes	
IC 963	13h 58m 16.7s	+17° 19' 16"	14.4	Galaxy	0.005x0.004	Bootes	
IC 987	14h 12m 22.7s	+19° 05' 16"	14.4	Galaxy	0.010x0.005	Bootes	
IC 1004-2	14h 21m 40.6s	+17° 34' 60"	14.5	Galaxy	0.004x0.003	Bootes	IC 1004-2
IC 1006	14h 23m 48.2s	+23° 42' 49"	14.5	Galaxy	0.008x0.005	Bootes	
IC 1009	14h 27m 09.7s	+12° 16' 23"	14.5	Galaxy	0.005x0.003	Bootes	
IC 1034	14h 38m 05.0s	+14° 35' 18"	14.5	Galaxy	0.009x0.005	Bootes	
IC 1050	14h 44m 57.2s	+17° 56' 16"	14.5	Galaxy	0.005x0.003	Bootes	
IC 1062	14h 52m 07.4s	+18° 36' 51"	14.5	Galaxy	0.002x0.001	Bootes	
IC 4383	14h 13m 04.2s	+15° 47' 06"	14.5	Galaxy	0.005x0.003	Bootes	
IC 914	13h 42m 31.5s	+23° 05' 58"	14.5	Galaxy	0.005x0.005	Bootes	
NGC 5647	14h 31m 28.3s	+11° 47' 53"	14.6	Galaxy	0.009x0.002	Bootes	
NGC 5748	14h 45m 54.0s	+21° 50' 29"	14.6	Galaxy	0.006x0.004	Bootes	
IC 1052	14h 45m 03.6s	+20° 32' 21"	14.6	Galaxy	0.009x0.002	Bootes	
IC 4466	14h 37m 38.2s	+18° 15' 56"	14.6	Galaxy	0.008x0.007	Bootes	
IC 4480	14h 40m 35.8s	+18° 24' 56"	14.6	Galaxy	0.004x0.004	Bootes	
IC 4532	15h 05m 41.6s	+23° 11' 14"	14.6	Galaxy	0.006x0.003	Bootes	
IC 913	13h 42m 20.6s	+23° 04' 35"	14.6	Galaxy	0.006x0.005	Bootes	
NGC 5504C	14h 13m 07.5s	+15° 47' 45"	14.7	Galaxy	0.008x0.003	Bootes	

Table 91: Main objects visible on chart 84 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1086	15h 04m 19.1s	+17° 02' 43"	14.7	Galaxy	0.003x0.001	Bootes	
IC 4337	13h 53m 11.7s	+14° 11' 03"	14.7	Galaxy	0.004x0.001	Bootes	
IC 4410	14h 23m 05.0s	+17° 18' 59"	14.7	Galaxy	0.005x0.002	Bootes	
IC 4473-1	14h 38m 45.0s	+15° 47' 11"	14.7	Galaxy	0.005x0.003	Bootes	IC 4473-1
IC 4473-2	14h 38m 45.4s	+15° 47' 01"	14.7	Galaxy	0.004x0.001	Bootes	IC 4473-2
IC 4487	14h 42m 42.3s	+18° 30' 03"	14.7	Galaxy	0.006x0.006	Bootes	
IC 4517	14h 55m 23.2s	+23° 34' 14"	14.7	Galaxy	0.004x0.001	Bootes	
IC 949	13h 53m 07.4s	+22° 26' 01"	14.7	Galaxy	0.009x0.003	Bootes	
IC 956-1	13h 55m 31.2s	+20° 37' 55"	14.7	Galaxy	0.002x0.002	Bootes	IC 956-1
IC 964	13h 58m 32.8s	+17° 25' 19"	14.7	Galaxy	0.002x0.002	Bootes	
IC 1036	14h 39m 13.0s	+18° 02' 03"	14.8	Galaxy	0.004x0.001	Bootes	
IC 1047	14h 43m 09.7s	+19° 06' 57"	14.8	Galaxy	0.005x0.005	Bootes	
IC 4507	14h 48m 32.1s	+18° 22' 53"	14.8	Galaxy	0.006x0.003	Bootes	
NGC 5490B	14h 10m 55.1s	+17° 28' 02"	14.9	Galaxy	0.005x0.003	Bootes	5490B
IC 4439	14h 29m 30.9s	+16° 56' 42"	14.9	Galaxy	0.004x0.002	Bootes	
IC 4469	14h 38m 10.9s	+18° 10' 17"	14.9	Galaxy	0.013x0.001	Bootes	
IC 4495	14h 45m 03.0s	+23° 28' 59"	14.9	Galaxy	0.004x0.002	Bootes	
IC 4531	15h 05m 14.2s	+23° 20' 46"	14.9	Galaxy	0.006x0.004	Bootes	
IC 956-2	13h 55m 31.5s	+20° 37' 43"	14.9	Galaxy	0.003x0.002	Bootes	IC 956-2
IC 960B	13h 56m 51.8s	+17° 25' 27"	14.9	Galaxy	0.007x0.001	Bootes	IC 960B
IC 1004-1	14h 21m 40.6s	+17° 34' 52"	15.0	Galaxy	0.002x0.002	Bootes	IC 1004-1
IC 1061	14h 52m 03.9s	+18° 41' 03"	15.0	Galaxy	0.001x0.001	Bootes	
IC 4415	14h 25m 17.8s	+16° 33' 33"	15.1	Galaxy	0.003x0.001	Bootes	
IC 4443	14h 30m 08.5s	+16° 06' 07"	15.1	Galaxy	0.007x0.005	Bootes	
IC 4482	14h 41m 02.4s	+18° 52' 01"	15.1	Galaxy	0.005x0.003	Bootes	
IC 4428	14h 28m 16.8s	+16° 06' 39"	15.2	Galaxy	0.004x0.002	Bootes	
IC 4456	14h 35m 00.1s	+16° 06' 21"	15.2	Galaxy	0.004x0.001	Bootes	
IC 4457	14h 35m 19.3s	+18° 08' 47"	15.2	Galaxy	0.002x0.001	Bootes	
IC 4474	14h 39m 11.1s	+23° 21' 06"	15.2	Galaxy	0.005x0.003	Bootes	
IC 4433	14h 28m 44.4s	+16° 06' 55"	15.3	Galaxy	0.002x0.001	Bootes	
IC 4465	14h 36m 42.2s	+15° 29' 43"	15.5	Galaxy	0.003x8.333	Bootes	
IC 4488	14h 43m 42.7s	+18° 32' 41"	15.5	Galaxy	0.002x0.001	Bootes	
IC 4489	14h 44m 06.1s	+18° 27' 10"	15.5	Galaxy	0.002x0.001	Bootes	
IC 4467	14h 37m 43.9s	+18° 17' 37"	15.6	Galaxy	0.003x0.003	Bootes	
IC 4419	14h 26m 45.7s	+16° 33' 05"	15.7	Galaxy	0.003x0.003	Bootes	
IC 4449	14h 32m 12.9s	+15° 09' 42"	15.7	Galaxy	0.004x0.002	Bootes	
IC 4481	14h 41m 01.0s	+16° 03' 54"	15.7	Galaxy	0.002x0.001	Bootes	
IC 950-2	13h 53m 18.0s	+14° 24' 04"	15.7	Galaxy	0.001x8.333	Bootes	IC 950-2
IC 4438	14h 29m 25.3s	+17° 15' 16"	15.8	Galaxy	0.004x0.003	Bootes	
IC 4526	15h 03m 26.2s	+23° 16' 52"	15.8	Galaxy	0.003x0.002	Bootes	

7.86 Main objects visible on chart 85

Table 92: Main objects visible on chart 85

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4593	16h 12m 35.3s	+12° 01' 35"	10.7	Planetary Nebula	0.005x0.005	Hercules	
NGC 5962	15h 37m 21.1s	+16° 32' 57"	11.3	Galaxy	0.025x0.018	Serpens Caput	
NGC 5970	15h 39m 21.1s	+12° 07' 43"	11.5	Galaxy	0.025x0.016	Serpens Caput	
NGC 5957	15h 36m 14.3s	+11° 59' 20"	11.7	Galaxy	0.023x0.021	Serpens Caput	
NGC 6012	15h 55m 03.6s	+14° 33' 00"	12.0	Galaxy	0.017x0.012	Serpens Caput	
NGC 5928	15h 26m 52.0s	+18° 00' 41"	12.2	Galaxy	0.018x0.013	Serpens Caput	
NGC 5954	15h 35m 25.0s	+15° 08' 31"	12.2	Galaxy	0.009x0.004	Serpens Caput	
NGC 5953	15h 35m 22.4s	+15° 08' 06"	12.3	Galaxy	0.013x0.010	Serpens Caput	
NGC 5956	15h 35m 49.8s	+11° 41' 28"	12.3	Galaxy	0.013x0.013	Serpens Caput	
NGC 6004	15h 51m 11.2s	+18° 53' 09"	12.3	Galaxy	0.015x0.014	Serpens Caput	
NGC 5859	15h 08m 24.0s	+19° 30' 49"	12.5	Galaxy	0.025x0.006	Bootes	
NGC 5936	15h 30m 51.8s	+12° 55' 41"	12.5	Galaxy	0.011x0.010	Serpens Caput	
NGC 5984	15h 43m 43.4s	+14° 10' 33"	12.5	Galaxy	0.024x0.005	Serpens Caput	
NGC 5951	15h 34m 33.3s	+14° 56' 53"	12.7	Galaxy	0.03x0.006	Serpens Caput	
NGC 5980	15h 42m 20.3s	+15° 43' 51"	12.7	Galaxy	0.015x0.005	Serpens Caput	
NGC 6020	15h 57m 54.9s	+22° 21' 14"	12.7	Galaxy	0.011x0.008	Serpens Caput	
NGC 5996	15h 47m 47.8s	+17° 49' 45"	12.8	Galaxy	0.014x0.007	Serpens Caput	
NGC 6030	16h 02m 39.9s	+17° 54' 30"	12.8	Galaxy	0.01x0.006	Hercules	
NGC 6008	15h 53m 43.4s	+21° 02' 55"	12.9	Galaxy	0.011x0.010	Serpens Caput	
NGC 6064-2	16h 06m 00.7s	+20° 29' 39"	13.0	Galaxy	0.006x0.002	Hercules	6064-2
IC 1151	15h 59m 21.1s	+17° 23' 25"	13.0	Galaxy	0.02x0.006	Serpens Caput	
NGC 5857	15h 08m 16.4s	+19° 31' 48"	13.1	Galaxy	0.01x0.005	Bootes	
NGC 6021	15h 58m 20.1s	+15° 54' 20"	13.1	Galaxy	0.011x0.006	Serpens Caput	
NGC 6023	15h 58m 38.8s	+16° 15' 35"	13.1	Galaxy	0.011x0.008	Serpens Caput	
NGC 6051	16h 05m 42.6s	+23° 53' 03"	13.1	Galaxy	0.013x0.009	Serpens Caput	
NGC 6060	16h 06m 39.2s	+21° 26' 12"	13.1	Galaxy	0.016x0.009	Hercules	
NGC 6007	15h 54m 14.2s	+11° 54' 26"	13.2	Galaxy	0.014x0.01	Serpens Caput	
IC 1127	15h 35m 44.1s	+23° 26' 36"	13.2	Galaxy	0.015x0.014	Serpens Caput	
IC 4534	15h 07m 29.4s	+23° 34' 23"	13.2	Galaxy	0.012x0.007	Bootes	
NGC 6041A	16h 05m 24.4s	+17° 40' 23"	13.3	Galaxy	0.010x0.009	Hercules	6041A
IC 1149	15h 58m 58.8s	+12° 01' 09"	13.3	Galaxy	0.01x0.008	Serpens Caput	
IC 1169	16h 05m 03.6s	+13° 41' 45"	13.3	Galaxy	0.008x0.005	Serpens Caput	
NGC 5829	15h 03m 29.9s	+23° 15' 48"	13.4	Galaxy	0.014x0.012	Bootes	
NGC 5977	15h 41m 22.7s	+17° 04' 17"	13.4	Galaxy	0.01x0.008	Serpens Caput	
NGC 6003	15h 50m 14.0s	+18° 58' 43"	13.4	Galaxy	0.007x0.006	Serpens Caput	
NGC 6018	15h 58m 19.3s	+15° 49' 19"	13.4	Galaxy	0.011x0.005	Serpens Caput	
NGC 6098	16h 16m 21.7s	+19° 25' 04"	13.4	Galaxy	0.008x0.005	Hercules	
IC 1132	15h 40m 54.6s	+20° 37' 23"	13.4	Galaxy	0.01x0.008	Serpens Caput	
IC 1156	16h 01m 25.2s	+19° 40' 27"	13.4	Galaxy	0.008x0.006	Hercules	
IC 1174	16h 06m 16.6s	+14° 58' 39"	13.4	Galaxy	0.008x0.006	Serpens Caput	
NGC 6027	15h 59m 60.0s	+20° 42' 49"	13.5	Galaxy	0.008x0.005	Serpens Caput	Seyfert Sextet
NGC 6032	16h 03m 48.4s	+20° 54' 25"	13.5	Galaxy	0.013x0.005	Hercules	
NGC 6034	16h 04m 20.9s	+17° 09' 00"	13.5	Galaxy	0.008x0.006	Hercules	
NGC 6035	16h 04m 11.4s	+20° 50' 32"	13.5	Galaxy	0.007x0.007	Hercules	
NGC 6046	16h 02m 17.1s	+19° 18' 36"	13.5	Galaxy	0.010x0.009	Hercules	
NGC 6047	16h 05m 57.6s	+17° 40' 54"	13.5	Galaxy	0.009x0.006	Hercules	

Table 92: Main objects visible on chart 85 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6073	16h 10m 59.9s	+16° 39' 14"	13.5	Galaxy	0.010x0.005	Hercules	
IC 1142	15h 51m 14.6s	+18° 05' 11"	13.5	Galaxy	0.011x0.009	Serpens Caput	
NGC 5852	15h 07m 47.7s	+12° 46' 44"	13.6	Galaxy	0.009x0.005	Bootes	
NGC 5910-1	15h 20m 13.0s	+20° 49' 54"	13.6	Galaxy	0.005x0.005	Serpens Caput	5910-1
NGC 5926	15h 24m 16.2s	+12° 39' 10"	13.6	Galaxy	0.006x0.005	Serpens Caput	
NGC 5972	15h 39m 43.4s	+16° 58' 06"	13.6	Galaxy	0.008x0.005	Serpens Caput	
NGC 6061	16h 07m 04.5s	+18° 12' 09"	13.6	Galaxy	0.008x0.006	Hercules	
NGC 6062	16h 07m 10.7s	+19° 43' 46"	13.6	Galaxy	0.01x0.0075	Hercules	
NGC 6055	16h 06m 21.1s	+18° 06' 42"	13.7	Galaxy	0.008x0.005	Hercules	
IC 1076	14h 55m 49.3s	+17° 57' 55"	13.7	Galaxy	0.008x0.004	Bootes	
NGC 5778	14h 55m 21.2s	+18° 34' 13"	13.8	Galaxy	0.01x0.0075	Bootes	
IC 1075	14h 55m 39.1s	+18° 02' 01"	13.8	Galaxy	0.01x0.005	Bootes	
IC 1093	15h 08m 26.6s	+14° 28' 49"	13.8	Galaxy	0.008x0.006	Bootes	
IC 1131	15h 39m 42.8s	+12° 01' 24"	13.8	Galaxy	0.005x0.004	Serpens Caput	
NGC 6027A	15h 59m 58.7s	+20° 42' 19"	13.9	Galaxy	0.005x0.004	Serpens Caput	6027A
NGC 6045A	16h 05m 56.6s	+17° 42' 36"	13.9	Galaxy	0.010x0.002	Hercules	6045A
NGC 6056	16h 06m 19.6s	+17° 54' 54"	13.9	Galaxy	0.007x0.004	Hercules	
NGC 6075	16h 12m 08.4s	+23° 55' 10"	13.9	Galaxy	0.007x0.005	Hercules	
NGC 6084	16h 15m 05.1s	+17° 42' 49"	13.9	Galaxy	0.008x0.004	Hercules	
IC 1097	15h 09m 20.5s	+19° 06' 59"	13.9	Galaxy	0.009x0.003	Bootes	
IC 1134-1	15h 45m 47.7s	+16° 54' 26"	13.9	Galaxy	0.005x0.003	Serpens Caput	IC 1134-1
IC 1141	15h 50m 37.9s	+12° 20' 43"	13.9	Galaxy	0.005x0.005	Serpens Caput	
IC 1185	16h 06m 33.2s	+17° 40' 10"	13.9	Galaxy	0.006x0.004	Hercules	
IC 4576	15h 43m 22.1s	+23° 36' 51"	13.9	Galaxy	0.008x0.005	Serpens Caput	
NGC 5782	14h 56m 47.1s	+11° 47' 23"	14.0	Galaxy	0.005x0.005	Bootes	
NGC 5837	15h 05m 32.1s	+12° 33' 53"	14.0	Galaxy	0.008x0.005	Bootes	
NGC 5991	15h 46m 02.9s	+24° 34' 32"	14.0	Galaxy	0.008x0.007	Serpens Caput	
NGC 6027B	15h 59m 58.4s	+20° 42' 44"	14.0	Galaxy	0.003x0.002	Serpens Caput	6027B
NGC 6040B	16h 05m 15.1s	+17° 41' 37"	14.0	Galaxy	0.006x0.006	Hercules	6040B
NGC 6042	16h 05m 28.1s	+17° 39' 08"	14.0	Galaxy	0.006x0.005	Hercules	
NGC 6065	16h 08m 13.0s	+13° 50' 28"	14.0	Galaxy	0.006x0.005	Serpens Caput	
NGC 6066	16h 08m 25.3s	+13° 53' 50"	14.0	Galaxy	0.005x0.005	Serpens Caput	
IC 1085	15h 03m 33.3s	+17° 10' 59"	14.0	Galaxy	0.007x0.005	Bootes	
IC 1124	15h 30m 47.9s	+23° 34' 39"	14.0	Galaxy	0.006x0.003	Serpens Caput	
IC 1163	16h 02m 20.2s	+15° 27' 18"	14.0	Galaxy	0.005x0.005	Serpens Caput	
NGC 5851	15h 07m 44.7s	+12° 47' 22"	14.1	Galaxy	0.008x0.002	Bootes	
NGC 6064-1	16h 06m 00.1s	+20° 29' 38"	14.1	Galaxy	0.007x0.005	Hercules	6064-1
IC 1133	15h 42m 01.8s	+15° 30' 59"	14.1	Galaxy	0.01x0.003	Serpens Caput	
IC 1161	16h 02m 06.2s	+15° 35' 47"	14.1	Galaxy	0.006x0.006	Serpens Caput	
IC 1178	16h 06m 21.7s	+17° 33' 15"	14.1	Galaxy	0.008x0.007	Hercules	
NGC 5975	15h 40m 45.6s	+21° 24' 48"	14.2	Galaxy	0.008x0.002	Serpens Caput	
NGC 6006	15h 53m 53.5s	+11° 57' 12"	14.2	Galaxy	0.005x0.003	Serpens Caput	
NGC 6040A	16h 05m 15.3s	+17° 42' 06"	14.2	Galaxy	0.010x0.005	Hercules	6040A
NGC 6054	16h 06m 26.7s	+17° 43' 11"	14.2	Galaxy	0.006x0.003	Hercules	
NGC 6099	16h 16m 23.2s	+19° 24' 36"	14.2	Galaxy	0.010x0.010	Hercules	
IC 1165	16h 02m 57.4s	+15° 38' 50"	14.2	Galaxy	0.006x0.004	Hercules	

Table 92: Main objects visible on chart 85 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1167	16h 04m 42.6s	+14° 53' 52"	14.2	Galaxy	0.005x0.005	Serpens Caput	
IC 1182	16h 06m 25.3s	+17° 45' 18"	14.2	Galaxy	0.008x0.004	Hercules	
NGC 5842	15h 05m 40.8s	+21° 00' 04"	14.3	Galaxy	0.003x0.003	Bootes	
NGC 6008B	15h 53m 55.7s	+21° 01' 24"	14.3	Galaxy	0.005x0.003	Serpens Caput	6008B
NGC 6043A	16h 05m 50.1s	+17° 43' 40"	14.3	Galaxy	0.005x0.003	Hercules	6043A
NGC 6044	16h 05m 48.2s	+17° 49' 20"	14.3	Galaxy	0.005x0.005	Hercules	
IC 1118	15h 25m 50.3s	+13° 22' 59"	14.3	Galaxy	0.008x0.005	Serpens Caput	
IC 1155	16h 01m 25.2s	+15° 38' 10"	14.3	Galaxy	0.006x0.005	Serpens Caput	
IC 1193	16h 07m 20.8s	+17° 39' 59"	14.3	Galaxy	0.005x0.004	Hercules	
IC 1198	16h 09m 27.0s	+12° 17' 02"	14.3	Galaxy	0.005x0.002	Serpens Caput	
IC 4577	15h 43m 32.1s	+23° 44' 12"	14.3	Galaxy	0.006x0.006	Serpens Caput	
IC 4583	15h 47m 08.4s	+23° 45' 14"	14.3	Galaxy	0.008x0.002	Serpens Caput	
NGC 6074-1	16h 12m 07.2s	+14° 12' 47"	14.4	Galaxy	0.003x0.003	Hercules	6074-1
IC 1095-1	15h 09m 26.1s	+13° 36' 08"	14.4	Galaxy	0.004x0.003	Bootes	IC 1095-1
IC 1113	15h 19m 06.4s	+12° 25' 26"	14.4	Galaxy	0.005x0.005	Serpens Caput	
NGC 6009	15h 54m 15.1s	+12° 00' 21"	14.5	Galaxy	0.004x0.001	Serpens Caput	
IC 1168	16h 04m 45.4s	+14° 51' 17"	14.5	Galaxy	0.005x0.005	Serpens Caput	
IC 1189	16h 07m 03.0s	+18° 08' 06"	14.5	Galaxy	0.005x0.003	Hercules	
NGC 6083	16h 14m 02.5s	+14° 08' 29"	14.6	Galaxy	0.005x0.003	Hercules	
IC 1186	16h 06m 32.9s	+17° 18' 52"	14.6	Galaxy	0.006x0.004	Hercules	
IC 4532	15h 05m 41.6s	+23° 11' 14"	14.6	Galaxy	0.006x0.003	Bootes	
IC 4575	15h 43m 06.2s	+23° 45' 06"	14.6	Galaxy	0.005x0.005	Serpens Caput	
NGC 6022	15h 58m 37.2s	+16° 13' 55"	14.7	Galaxy	0.005x0.004	Serpens Caput	
NGC 6029	16h 02m 49.5s	+12° 31' 32"	14.7	Galaxy	0.01x0.005	Serpens Caput	
NGC 6050A	16h 06m 12.1s	+17° 42' 34"	14.7	Galaxy	0.007x0.005	Hercules	6050A
NGC 6057	16h 06m 27.9s	+18° 07' 01"	14.7	Galaxy	0.005x0.004	Hercules	
IC 1086	15h 04m 19.1s	+17° 02' 43"	14.7	Galaxy	0.003x0.001	Bootes	
IC 1135	15h 46m 23.7s	+17° 38' 41"	14.7	Galaxy	0.005x0.001	Serpens Caput	
IC 1162	16h 02m 05.0s	+17° 37' 41"	14.7	Galaxy	0.005x0.004	Hercules	
IC 1173	16h 06m 01.4s	+17° 22' 28"	14.7	Galaxy	0.007x0.004	Hercules	
IC 1190	16h 06m 40.8s	+18° 10' 22"	14.7	Galaxy	0.010x0.003	Hercules	
IC 4517	14h 55m 23.2s	+23° 34' 14"	14.7	Galaxy	0.004x0.001	Bootes	
IC 4573	15h 42m 58.8s	+23° 44' 37"	14.7	Galaxy	0.003x0.001	Serpens Caput	
NGC 5994	15h 47m 42.1s	+17° 49' 06"	14.8	Galaxy	0.003x0.001	Serpens Caput	
IC 1094-3	15h 08m 32.8s	+14° 33' 15"	14.8	Galaxy	0.003x0.003	Bootes	
IC 1096	15h 09m 10.9s	+19° 07' 26"	14.8	Galaxy	0.005x0.002	Bootes	
IC 1117	15h 25m 13.0s	+15° 25' 35"	14.8	Galaxy	0.004x0.001	Serpens Caput	
IC 1130	15h 38m 33.3s	+17° 11' 11"	14.8	Galaxy	0.005x0.003	Serpens Caput	
IC 1157	16h 01m 45.8s	+15° 28' 37"	14.8	Galaxy	0.005x0.002	Serpens Caput	
IC 1160	16h 01m 52.2s	+15° 26' 44"	14.8	Galaxy	0.005x0.002	Serpens Caput	
IC 1181	16h 06m 22.6s	+17° 32' 45"	14.8	Galaxy	0.006x0.003	Hercules	
IC 1192	16h 07m 21.6s	+17° 43' 43"	14.8	Galaxy	0.005x0.001	Hercules	
IC 1195	16h 07m 29.6s	+17° 08' 40"	14.8	Galaxy	0.005x0.003	Hercules	
IC 1170	16h 05m 20.2s	+17° 40' 23"	14.9	Galaxy	0.003x0.001	Hercules	
IC 4531	15h 05m 14.2s	+23° 20' 46"	14.9	Galaxy	0.006x0.004	Bootes	
IC 4579	15h 43m 38.0s	+23° 43' 02"	14.9	Galaxy	0.005x0.004	Serpens Caput	

Table 92: Main objects visible on chart 85 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1120-2	15h 27m 00.3s	+18° 48' 46"	15.0	Galaxy	0.002x0.002	Serpens Caput	IC 1120-2
IC 1159	16h 01m 51.1s	+15° 22' 13"	15.0	Galaxy	0.005x0.003	Serpens Caput	
IC 1165B	16h 02m 58.1s	+15° 38' 37"	15.0	Galaxy	0.003x0.001	Hercules	IC 1165B
IC 1188	16h 06m 56.0s	+17° 24' 46"	15.0	Galaxy	0.003x0.001	Hercules	
IC 4588	16h 05m 50.2s	+23° 52' 07"	15.0	Galaxy	0.002x0.002	Serpens Caput	
NGC 5910-2	15h 20m 12.5s	+20° 49' 37"	15.2	Galaxy	0.003x0.003	Serpens Caput	5910-2
NGC 6043B	16h 05m 49.3s	+17° 43' 31"	15.2	Galaxy	0.002x0.002	Hercules	6043B
NGC 6078	16h 12m 55.3s	+14° 09' 51"	15.2	Galaxy	0.004x0.004	Hercules	
IC 1095-2	15h 09m 24.7s	+13° 36' 26"	15.2	Galaxy	0.001x0.001	Bootes	IC 1095-2
IC 1120-1	15h 26m 59.8s	+18° 48' 35"	15.2	Galaxy	0.003x0.001	Serpens Caput	IC 1120-1
IC 1134-2	15h 45m 49.2s	+16° 54' 13"	15.2	Galaxy	0.002x0.002	Serpens Caput	IC 1134-2
NGC 6027C	15h 59m 59.3s	+20° 41' 51"	15.3	Galaxy	0.004x0.001	Serpens Caput	
NGC 6062B	16h 07m 06.8s	+19° 42' 55"	15.3	Galaxy	0.003x0.003	Hercules	6062B
IC 1177	16h 06m 07.9s	+18° 16' 02"	15.3	Galaxy	0.004x0.003	Hercules	
NGC 6050B	16h 06m 10.9s	+17° 42' 24"	15.4	Galaxy	0.003x0.002	Hercules	6050B
NGC 6045B	16h 05m 58.9s	+17° 42' 37"	15.5	Galaxy	0.003x0.001	Hercules	6045B
IC 1168B	16h 04m 46.0s	+14° 50' 45"	15.5	Galaxy	0.003x0.001	Serpens Caput	IC 1168B
IC 1191	16h 07m 17.3s	+18° 13' 17"	15.5	Galaxy	0.004x8.333	Hercules	
NGC 6027D	16h 00m 00.5s	+20° 42' 36"	15.6	Galaxy	0.001x0.001	Serpens Caput	
NGC 6041B	16h 05m 23.6s	+17° 40' 08"	15.6	Galaxy	0.003x0.002	Hercules	6041B
IC 1194	16h 07m 27.3s	+17° 44' 09"	15.6	Galaxy	0.002x0.002	Hercules	
IC 1103	15h 12m 24.9s	+19° 08' 29"	15.7	Galaxy	0.004x0.002	Serpens Caput	
IC 4526	15h 03m 26.2s	+23° 16' 52"	15.8	Galaxy	0.003x0.002	Bootes	
IC 4554	15h 35m 51.6s	+23° 25' 14"	15.9	Galaxy	0.002x0.001	Serpens Caput	

7.87 Main objects visible on chart 86

Table 93: Main objects visible on chart 86

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6210	16h 45m 14.8s	+23° 46' 06"	8.8	Planetary Nebula	0.002x0.002	Hercules	
IC 4593	16h 12m 35.3s	+12° 01' 35"	10.7	Planetary Nebula	0.005x0.005	Hercules	
NGC 6181	16h 33m 08.0s	+19° 47' 18"	11.9	Galaxy	0.020x0.009	Hercules	
NGC 6278	17h 01m 35.7s	+22° 59' 08"	12.4	Galaxy	0.0175x0.01	Hercules	
NGC 6186	16h 35m 11.9s	+21° 30' 18"	12.9	Galaxy	0.0125x0.01	Hercules	
NGC 6314	17h 13m 23.9s	+23° 15' 01"	13.0	Galaxy	0.013x0.005	Hercules	
NGC 6060	16h 06m 39.2s	+21° 26' 12"	13.1	Galaxy	0.016x0.009	Hercules	
NGC 6267	16h 58m 54.2s	+22° 57' 31"	13.1	Galaxy	0.010x0.008	Hercules	
NGC 6315	17h 13m 31.3s	+23° 12' 12"	13.2	Galaxy	0.006x0.005	Hercules	
NGC 6233	16h 51m 00.9s	+23° 33' 01"	13.3	Galaxy	0.011x0.008	Hercules	
IC 1209	16h 19m 28.8s	+15° 30' 58"	13.3	Galaxy	0.009x0.006	Hercules	
NGC 6098	16h 16m 21.7s	+19° 25' 04"	13.4	Galaxy	0.008x0.005	Hercules	
NGC 6308	17h 12m 44.9s	+23° 21' 32"	13.4	Galaxy	0.009x0.008	Hercules	
NGC 6321	17h 15m 10.7s	+20° 17' 38"	13.4	Galaxy	0.009x0.008	Hercules	
IC 1255	17h 23m 55.4s	+12° 40' 49"	13.4	Galaxy	0.008x0.004	Ophiuchus	

Table 93: Main objects visible on chart 86 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6073	16h 10m 59.9s	+16° 39' 14"	13.5	Galaxy	0.010x0.005	Hercules	
NGC 6149	16h 28m 11.8s	+19° 33' 30"	13.5	Galaxy	0.009x0.006	Hercules	
NGC 6062	16h 07m 10.7s	+19° 43' 46"	13.6	Galaxy	0.01x0.0075	Hercules	
NGC 6132	16h 24m 29.5s	+11° 44' 45"	13.6	Galaxy	0.012x0.004	Hercules	
IC 1206	16h 16m 04.0s	+11° 15' 11"	13.6	Galaxy	0.009x0.005	Hercules	
IC 1236	16h 59m 16.6s	+20° 00' 52"	13.6	Galaxy	0.008x0.006	Hercules	
NGC 6347	17h 20m 42.9s	+16° 38' 36"	13.7	Galaxy	0.01x0.005	Hercules	
NGC 6075	16h 12m 08.4s	+23° 55' 10"	13.9	Galaxy	0.007x0.005	Hercules	
NGC 6084	16h 15m 05.1s	+17° 42' 49"	13.9	Galaxy	0.008x0.004	Hercules	
NGC 6065	16h 08m 13.0s	+13° 50' 28"	14.0	Galaxy	0.006x0.005	Serpens Caput	
NGC 6066	16h 08m 25.3s	+13° 53' 50"	14.0	Galaxy	0.005x0.005	Serpens Caput	
NGC 6113	16h 20m 00.5s	+14° 05' 28"	14.1	Galaxy	0.007x0.003	Hercules	
NGC 6243	16h 53m 11.7s	+23° 18' 14"	14.1	Galaxy	0.008x0.003	Hercules	
IC 4619	16h 44m 59.2s	+17° 43' 35"	14.1	Galaxy	0.004x0.004	Hercules	
NGC 6099	16h 16m 23.2s	+19° 24' 36"	14.2	Galaxy	0.010x0.010	Hercules	
NGC 6168	16h 32m 08.5s	+20° 08' 50"	14.2	Galaxy	0.011x0.002	Hercules	
IC 1219	16h 25m 15.0s	+19° 26' 35"	14.2	Galaxy	0.009x0.004	Hercules	
IC 1198	16h 09m 27.0s	+12° 17' 02"	14.3	Galaxy	0.005x0.002	Serpens Caput	
IC 4609	16h 33m 47.5s	+22° 45' 40"	14.3	Galaxy	0.006x0.006	Hercules	
NGC 6074-1	16h 12m 07.2s	+14° 12' 47"	14.4	Galaxy	0.003x0.003	Hercules	6074-1
NGC 6203	16h 41m 12.7s	+23° 44' 29"	14.4	Galaxy	0.005x0.005	Hercules	
IC 1224	16h 43m 43.6s	+19° 13' 20"	14.4	Galaxy	0.006x0.005	Hercules	
NGC 6083	16h 14m 02.5s	+14° 08' 29"	14.6	Galaxy	0.005x0.003	Hercules	
NGC 6201	16h 40m 59.8s	+23° 43' 53"	14.6	Galaxy	0.003x0.002	Hercules	
NGC 6276	17h 01m 30.5s	+23° 01' 08"	14.6	Galaxy	0.003x0.002	Hercules	
IC 4623	16h 51m 51.2s	+22° 29' 53"	14.7	Galaxy	0.005x0.001	Hercules	
IC 1192	16h 07m 21.6s	+17° 43' 43"	14.8	Galaxy	0.005x0.001	Hercules	
IC 1195	16h 07m 29.6s	+17° 08' 40"	14.8	Galaxy	0.005x0.003	Hercules	
IC 4624	16h 52m 21.6s	+17° 25' 10"	14.8	Galaxy	0.003x0.003	Hercules	
IC 4588	16h 05m 50.2s	+23° 52' 07"	15.0	Galaxy	0.002x0.002	Serpens Caput	
IC 4607-1	16h 31m 01.0s	+24° 32' 11"	15.0	Galaxy	0.003x0.002	Hercules	IC 4607-1
IC 4620	16h 49m 17.3s	+19° 16' 30"	15.0	Galaxy	0.004x0.002	Hercules	
NGC 6078	16h 12m 55.3s	+14° 09' 51"	15.2	Galaxy	0.004x0.004	Hercules	
NGC 6062B	16h 07m 06.8s	+19° 42' 55"	15.3	Galaxy	0.003x0.003	Hercules	6062B
IC 1191	16h 07m 17.3s	+18° 13' 17"	15.5	Galaxy	0.004x8.333	Hercules	
IC 4639	17h 03m 40.2s	+22° 54' 22"	15.5	Galaxy	0.003x0.002	Hercules	
IC 1194	16h 07m 27.3s	+17° 44' 09"	15.6	Galaxy	0.002x0.002	Hercules	

7.88 Main objects visible on chart 87

Table 94: Main objects visible on chart 87

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6482	17h 52m 33.8s	+23° 04' 10"	11.5	Galaxy	0.017x0.015	Hercules	
NGC 6548	18h 06m 46.5s	+18° 35' 24"	11.7	Galaxy	0.024x0.023	Hercules	

Table 94: Main objects visible on chart 87 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6501	17h 56m 51.1s	+18° 22' 19"	12.0	Galaxy	0.015x0.013	Hercules	
NGC 6574	18h 12m 40.1s	+14° 59' 13"	12.0	Galaxy	0.012x0.009	Hercules	
NGC 6389	17h 33m 28.0s	+16° 23' 25"	12.1	Galaxy	0.023x0.015	Hercules	
NGC 6661	18h 35m 22.0s	+22° 55' 28"	12.1	Galaxy	0.015x0.009	Hercules	
NGC 6495	17h 55m 38.1s	+18° 19' 32"	12.2	Galaxy	0.016x0.015	Hercules	
NGC 6500	17h 56m 47.1s	+18° 20' 14"	12.2	Galaxy	0.018x0.013	Hercules	
NGC 6368	17h 28m 01.9s	+11° 31' 44"	12.3	Galaxy	0.029x0.005	Ophiuchus	
NGC 6484	17h 52m 31.2s	+24° 28' 47"	12.3	Galaxy	0.015x0.015	Hercules	
NGC 6555	18h 08m 36.7s	+17° 36' 30"	12.4	Galaxy	0.017x0.014	Hercules	
NGC 6442	17h 47m 37.6s	+20° 45' 22"	12.6	Galaxy	0.015x0.013	Hercules	
NGC 6467	17h 51m 27.9s	+17° 32' 04"	12.6	Galaxy	0.021x0.014	Hercules	
NGC 6577	18h 12m 47.0s	+21° 28' 10"	12.6	Galaxy	0.012x0.010	Hercules	
NGC 6408	17h 39m 34.5s	+18° 52' 09"	12.7	Galaxy	0.013x0.011	Hercules	
NGC 6570	18h 11m 56.6s	+14° 05' 52"	12.7	Galaxy	0.015x0.009	Ophiuchus	
IC 1269	17h 52m 51.8s	+21° 33' 56"	12.8	Galaxy	0.014x0.010	Hercules	
NGC 6379	17h 31m 23.4s	+16° 16' 33"	12.9	Galaxy	0.009x0.008	Hercules	
NGC 6587	18h 14m 38.0s	+18° 49' 55"	12.9	Galaxy	0.010x0.009	Hercules	
NGC 6628	18h 23m 06.7s	+23° 29' 15"	12.9	Galaxy	0.015x0.010	Hercules	
NGC 6658	18h 34m 41.0s	+22° 54' 11"	12.9	Galaxy	0.013x0.002	Hercules	
NGC 6619	18h 19m 40.4s	+23° 39' 49"	13.0	Galaxy	0.01x0.009	Hercules	
NGC 6623-1	18h 20m 27.7s	+23° 43' 06"	13.0	Galaxy	0.010x0.01	Hercules	6623-1
NGC 6460	17h 50m 16.5s	+20° 45' 35"	13.1	Galaxy	0.015x0.009	Hercules	
NGC 6615	18h 19m 23.1s	+13° 16' 25"	13.1	Galaxy	0.010x0.007	Ophiuchus	
IC 4688	18h 09m 02.3s	+11° 42' 57"	13.1	Galaxy	0.012x0.009	Ophiuchus	
NGC 6580	18h 13m 19.6s	+21° 25' 53"	13.3	Galaxy	0.010x0.005	Hercules	
NGC 6627	18h 23m 27.5s	+15° 42' 30"	13.3	Galaxy	0.010x0.01	Hercules	
NGC 6417	17h 42m 32.6s	+23° 39' 50"	13.4	Galaxy	0.011x0.010	Hercules	
NGC 6458	17h 49m 57.1s	+20° 48' 01"	13.4	Galaxy	0.010x0.007	Hercules	
NGC 6527	18h 02m 32.9s	+19° 43' 48"	13.4	Galaxy	0.011x0.008	Hercules	
NGC 6635	18h 28m 26.0s	+14° 49' 51"	13.4	Galaxy	0.008x0.007	Hercules	
NGC 6641	18h 29m 42.6s	+22° 54' 58"	13.4	Galaxy	0.007x0.005	Hercules	
IC 1255	17h 23m 55.4s	+12° 40' 49"	13.4	Galaxy	0.008x0.004	Ophiuchus	
NGC 6430	17h 46m 01.7s	+18° 07' 57"	13.5	Galaxy	0.015x0.005	Hercules	
NGC 6490	17h 55m 17.8s	+18° 22' 27"	13.5	Galaxy	0.008x0.006	Hercules	
NGC 6347	17h 20m 42.9s	+16° 38' 36"	13.7	Galaxy	0.01x0.005	Hercules	
NGC 6586	18h 14m 24.5s	+21° 05' 49"	13.7	Galaxy	0.007x0.004	Hercules	
NGC 6549	18h 06m 36.7s	+18° 32' 26"	13.8	Galaxy	0.011x0.003	Hercules	
NGC 6579	18h 13m 17.7s	+21° 25' 34"	13.8	Galaxy	0.003x0.003	Hercules	
NGC 6616	18h 18m 26.5s	+22° 14' 44"	13.8	Galaxy	0.011x0.005	Hercules	
NGC 6375	17h 30m 10.2s	+16° 11' 39"	13.9	Galaxy	0.013x0.013	Hercules	
NGC 6468	17h 51m 27.1s	+17° 12' 22"	14.3	Galaxy	0.005x0.004	Hercules	
NGC 6593	18h 14m 49.1s	+22° 17' 28"	14.3	Galaxy	0.006x0.003	Hercules	
NGC 6452	17h 48m 44.7s	+20° 49' 57"	14.4	Galaxy	0.004x0.004	Hercules	
NGC 6571	18h 11m 35.3s	+21° 14' 39"	14.4	Galaxy	0.003x0.003	Hercules	
NGC 6623-2	18h 20m 27.5s	+23° 42' 39"	14.5	Galaxy	0.002x0.002	Hercules	6623-2
NGC 6680	18h 40m 29.6s	+22° 20' 02"	14.6	Galaxy	0.005x0.004	Hercules	

Table 94: Main objects visible on chart 87 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6576	18h 12m 33.8s	+21° 26' 03"	14.7	Galaxy	0.005x0.005	Hercules	
IC 4691	18h 09m 35.9s	+11° 49' 58"	14.7	Galaxy	0.006x0.005	Ophiuchus	
IC 4676	18h 03m 43.3s	+11° 49' 28"	14.8	Galaxy	0.002x0.002	Ophiuchus	
NGC 6591	18h 14m 49.8s	+21° 04' 12"	15.5	Galaxy	0.002x8.333	Hercules	

7.89 Main objects visible on chart 88

Table 95: Main objects visible on chart 88

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Col399	19h 26m 11.1s	+20° 13' 12"	3.6	Open cluster	0.5x0.5	Vulpecula	
Stock1	19h 36m 33.0s	+25° 15' 27"	5.3	Open cluster	0.5x0.5	Vulpecula	
NGC 6823	19h 43m 56.0s	+23° 20' 38"	7.1	Open cluster	0.058x0.058	Vulpecula	
NGC 6830	19h 51m 46.3s	+23° 08' 49"	7.9	Open cluster	0.05x0.05	Vulpecula	
NGC 6802	19h 31m 23.2s	+20° 18' 02"	8.8	Open cluster	0.041x0.041	Vulpecula	
NGC 6793	19h 23m 58.8s	+22° 11' 36"	11.0	Open cluster	0.058x0.058	Vulpecula	
NGC 6661	18h 35m 22.0s	+22° 55' 28"	12.1	Galaxy	0.015x0.009	Hercules	
NGC 6658	18h 34m 41.0s	+22° 54' 11"	12.9	Galaxy	0.013x0.002	Hercules	
NGC 6827	19h 49m 40.2s	+21° 15' 44"	13.0	Open cluster	0.016x0.016	Vulpecula	
IC 1299	19h 23m 28.8s	+20° 46' 32"	13.0	Open cluster	0.016x0.008	Vulpecula	
NGC 6680	18h 40m 29.6s	+22° 20' 02"	14.6	Galaxy	0.005x0.004	Hercules	
IC 4791	18h 49m 48.3s	+19° 21' 11"	14.8	Galaxy	0.004x0.004	Hercules	

7.90 Main objects visible on chart 89

Table 96: Main objects visible on chart 89

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6823	19h 43m 56.0s	+23° 20' 38"	7.1	Open cluster	0.058x0.058	Vulpecula	
NGC 6853	20h 00m 22.9s	+22° 46' 18"	7.4	Planetary Nebula	0.055x0.055	Vulpecula	M27, Dumbbell nebula
NGC 6830	19h 51m 46.3s	+23° 08' 49"	7.9	Open cluster	0.05x0.05	Vulpecula	
NGC 6838	19h 54m 34.3s	+18° 49' 36"	8.4	Globular cluster	0.06x0.06	Sagitta	M71
NGC 6891	20h 15m 59.7s	+12° 45' 38"	10.5	Planetary Nebula	0.002x0.002	Delphinus	
IC 4997	20h 20m 58.2s	+16° 47' 24"	10.5	Planetary Nebula	0.001x0.001	Sagitta	
NGC 7006	21h 02m 19.9s	+16° 15' 34"	10.6	Globular cluster	0.03x0.03	Delphinus	CALDWELL 42
NGC 6905	20h 23m 11.2s	+20° 09' 49"	11.1	Planetary Nebula	0.01x0.01	Delphinus	Blue flash nebula
NGC 6886	20h 13m 30.8s	+20° 02' 42"	11.4	Planetary Nebula	0.001x0.001	Sagitta	
NGC 6837	19h 53m 59.0s	+11° 44' 46"	12.0	Open cluster	0.025x0.025	Aquila	
NGC 6956	20h 44m 45.0s	+12° 34' 41"	12.3	Galaxy	0.015x0.015	Delphinus	
NGC 6879	20h 11m 15.8s	+16° 58' 40"	12.5	Planetary Nebula	0.001x0.001	Sagitta	
NGC 6827	19h 49m 40.2s	+21° 15' 44"	13.0	Open cluster	0.016x0.016	Vulpecula	
NGC 7003	21h 01m 32.2s	+17° 52' 33"	13.0	Galaxy	0.009x0.006	Delphinus	
IC 5080	21h 03m 22.5s	+19° 17' 09"	14.4	Galaxy	0.004x0.003	Delphinus	

Table 96: Main objects visible on chart 89 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5081	21h 03m 50.7s	+19° 15' 40"	14.7	Galaxy	0.002x0.001	Delphinus	

7.91 Main objects visible on chart 90

Table 97: Main objects visible on chart 90

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7078	21h 30m 50.5s	+12° 14' 50"	6.3	Globular cluster	0.15x0.15	Pegasus	M15
NGC 7006	21h 02m 19.9s	+16° 15' 34"	10.6	Globular cluster	0.03x0.03	Delphinus	CALDWELL 42
NGC 7177	22h 01m 32.7s	+17° 49' 27"	11.2	Galaxy	0.026x0.017	Pegasus	
NGC 7042	21h 14m 37.2s	+13° 39' 00"	12.0	Galaxy	0.016x0.015	Pegasus	
NGC 7137	21h 49m 03.0s	+22° 14' 38"	12.4	Galaxy	0.013x0.011	Pegasus	
NGC 7015	21h 06m 29.3s	+11° 29' 11"	12.5	Galaxy	0.015x0.013	Equuleus	
NGC 7241	22h 16m 41.4s	+19° 19' 17"	12.6	Galaxy	0.028x0.009	Pegasus	
NGC 7025	21h 08m 37.9s	+16° 24' 33"	12.8	Galaxy	0.015x0.01	Delphinus	
NGC 7056	21h 22m 57.7s	+18° 44' 35"	12.9	Galaxy	0.012x0.007	Pegasus	
NGC 7003	21h 01m 32.2s	+17° 52' 33"	13.0	Galaxy	0.009x0.006	Delphinus	
NGC 7053	21h 21m 56.3s	+23° 09' 45"	13.1	Galaxy	0.011x0.010	Pegasus	
NGC 7194	22h 04m 23.6s	+12° 43' 29"	13.1	Galaxy	0.009x0.006	Pegasus	
IC 1420	22h 03m 22.6s	+19° 50' 15"	13.2	Galaxy	0.01x0.006	Pegasus	
NGC 7206	22h 06m 32.8s	+16° 52' 24"	13.3	Galaxy	0.008x0.005	Pegasus	
NGC 7094	21h 37m 45.2s	+12° 52' 15"	13.4	Planetary Nebula	0.013x0.013	Pegasus	
IC 5104	21h 22m 18.7s	+21° 19' 07"	13.4	Galaxy	0.013x0.003	Pegasus	
IC 5145	21h 55m 14.9s	+15° 14' 31"	13.4	Galaxy	0.013x0.007	Pegasus	
NGC 7236	22h 15m 37.7s	+13° 56' 11"	13.6	Galaxy	0.005x0.005	Pegasus	
NGC 7237	22h 15m 39.6s	+13° 55' 51"	13.6	Galaxy	0.005x0.005	Pegasus	
NGC 7043	21h 14m 55.7s	+13° 42' 06"	13.7	Galaxy	0.010x0.008	Pegasus	
IC 1427	22h 04m 27.3s	+15° 11' 42"	13.7	Galaxy	0.008x0.007	Pegasus	
NGC 7034	21h 10m 29.0s	+15° 13' 30"	13.8	Galaxy	0.008x0.005	Pegasus	
NGC 7190	22h 03m 59.6s	+11° 17' 14"	13.8	Galaxy	0.007x0.004	Pegasus	
IC 1359	21h 09m 34.7s	+12° 33' 27"	13.9	Galaxy	0.01x0.003	Delphinus	
IC 5177	22h 12m 27.4s	+11° 53' 04"	13.9	Galaxy	0.013x0.006	Pegasus	
NGC 7068	21h 27m 24.4s	+12° 15' 47"	14.0	Galaxy	0.005x0.002	Pegasus	
NGC 7033	21h 10m 27.1s	+15° 11' 57"	14.2	Galaxy	0.006x0.004	Pegasus	
NGC 7066	21h 27m 05.3s	+14° 15' 42"	14.2	Galaxy	0.007x0.007	Pegasus	
NGC 7113	21h 43m 18.8s	+12° 39' 07"	14.2	Galaxy	0.011x0.011	Pegasus	
NGC 7138	21h 49m 53.5s	+12° 35' 54"	14.2	Galaxy	0.01x0.004	Pegasus	
IC 1394	21h 41m 04.7s	+14° 42' 57"	14.2	Galaxy	0.008x0.007	Pegasus	
IC 5083	21h 04m 43.4s	+11° 50' 10"	14.2	Galaxy	0.004x0.004	Equuleus	
NGC 7159	21h 57m 18.0s	+13° 38' 57"	14.3	Galaxy	0.005x0.004	Pegasus	
IC 5080	21h 03m 22.5s	+19° 17' 09"	14.4	Galaxy	0.004x0.003	Delphinus	
IC 5119	21h 34m 45.5s	+21° 55' 05"	14.5	Galaxy	0.007x0.001	Pegasus	
IC 5144	21h 55m 01.4s	+15° 07' 22"	14.5	Galaxy	0.005x0.004	Pegasus	
NGC 7195	22h 04m 22.9s	+12° 44' 56"	14.7	Galaxy	0.003x0.002	Pegasus	
IC 5081	21h 03m 50.7s	+19° 15' 40"	14.7	Galaxy	0.002x0.001	Delphinus	

Table 97: Main objects visible on chart 90 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7207	22h 06m 37.5s	+16° 51' 21"	14.8	Galaxy	0.005x0.001	Pegasus	
IC 5172	22h 10m 48.2s	+12° 54' 24"	14.8	Galaxy	0.003x0.001	Pegasus	
IC 5115	21h 31m 49.4s	+11° 50' 37"	14.9	Galaxy	0.003x0.002	Pegasus	

7.92 Main objects visible on chart 91

Table 98: Main objects visible on chart 91

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7479	23h 05m 50.8s	+12° 25' 11"	10.9	Galaxy	0.033x0.025	Pegasus	CALDWELL 44
NGC 7332	22h 38m 16.2s	+23° 53' 31"	11.1	Galaxy	0.034x0.009	Pegasus	
NGC 7448	23h 00m 57.2s	+16° 04' 37"	11.7	Galaxy	0.021x0.01	Pegasus	
NGC 7454	23h 02m 00.2s	+16° 29' 10"	11.8	Galaxy	0.018x0.013	Pegasus	
NGC 7678	23h 29m 21.8s	+22° 31' 13"	11.8	Galaxy	0.020x0.014	Pegasus	
NGC 7385	22h 50m 48.5s	+11° 42' 13"	12.0	Galaxy	0.010x0.009	Pegasus	
NGC 7280	22h 27m 20.2s	+16° 14' 25"	12.1	Galaxy	0.017x0.012	Pegasus	
NGC 7625	23h 21m 24.3s	+17° 19' 32"	12.1	Galaxy	0.013x0.011	Pegasus	
NGC 7339	22h 38m 38.6s	+23° 52' 49"	12.2	Galaxy	0.023x0.005	Pegasus	
NGC 7497	23h 09m 57.1s	+18° 16' 31"	12.2	Galaxy	0.036x0.014	Pegasus	
NGC 7550	23h 16m 09.8s	+19° 03' 33"	12.2	Galaxy	0.011x0.01	Pegasus	
NGC 7386	22h 50m 55.9s	+11° 47' 37"	12.3	Galaxy	0.015x0.009	Pegasus	
NGC 7515	23h 13m 42.9s	+12° 46' 40"	12.4	Galaxy	0.014x0.013	Pegasus	
NGC 7539	23h 15m 22.7s	+23° 46' 59"	12.5	Galaxy	0.0125x0.01	Pegasus	
NGC 7241	22h 16m 41.4s	+19° 19' 17"	12.6	Galaxy	0.028x0.009	Pegasus	
NGC 7465	23h 02m 54.5s	+16° 03' 44"	12.6	Galaxy	0.018x0.015	Pegasus	
IC 5285	23h 07m 51.9s	+23° 02' 04"	12.6	Galaxy	0.013x0.01	Pegasus	
NGC 7653	23h 25m 43.5s	+15° 22' 29"	12.7	Galaxy	0.013x0.012	Pegasus	
NGC 7563	23h 16m 50.2s	+13° 17' 42"	12.8	Galaxy	0.015x0.007	Pegasus	
NGC 7673	23h 28m 35.1s	+23° 41' 18"	12.8	Galaxy	0.010x0.01	Pegasus	
IC 5258	22h 52m 23.9s	+23° 10' 37"	12.8	Galaxy	0.01x0.0075	Pegasus	
NGC 7321	22h 37m 19.9s	+21° 42' 56"	12.9	Galaxy	0.013x0.009	Pegasus	
NGC 7323	22h 37m 45.9s	+19° 14' 18"	12.9	Galaxy	0.011x0.009	Pegasus	
NGC 7316	22h 36m 48.4s	+20° 24' 57"	13.0	Galaxy	0.009x0.007	Pegasus	
NGC 7549	23h 16m 10.9s	+19° 08' 23"	13.0	Galaxy	0.023x0.005	Pegasus	
NGC 7291	22h 29m 21.9s	+16° 52' 34"	13.1	Galaxy	0.015x0.014	Pegasus	
NGC 7495	23h 09m 51.6s	+12° 08' 45"	13.1	Galaxy	0.015x0.013	Pegasus	
NGC 7620	23h 20m 59.1s	+24° 19' 10"	13.1	Galaxy	0.009x0.009	Pegasus	
NGC 7463	23h 02m 45.4s	+16° 04' 44"	13.2	Galaxy	0.021x0.005	Pegasus	
NGC 7570	23h 17m 39.0s	+13° 34' 54"	13.2	Galaxy	0.013x0.007	Pegasus	
NGC 7643	23h 23m 44.9s	+12° 05' 15"	13.2	Galaxy	0.011x0.005	Pegasus	
NGC 7677	23h 29m 00.0s	+23° 37' 50"	13.2	Galaxy	0.013x0.008	Pegasus	
NGC 7290	22h 29m 19.0s	+17° 14' 25"	13.3	Galaxy	0.013x0.008	Pegasus	
NGC 7432	22h 58m 56.1s	+13° 13' 52"	13.3	Galaxy	0.013x0.01	Pegasus	
NGC 7437	22h 59m 03.8s	+14° 24' 19"	13.3	Galaxy	0.015x0.015	Pegasus	
NGC 7464	23h 02m 47.4s	+16° 04' 17"	13.3	Galaxy	0.004x0.004	Pegasus	

Table 98: Main objects visible on chart 91 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7500	23h 11m 24.1s	+11° 06' 39"	13.3	Galaxy	0.017x0.009	Pegasus	
NGC 7516	23h 13m 45.4s	+20° 20' 49"	13.3	Galaxy	0.009x0.008	Pegasus	
NGC 7411	22h 55m 27.7s	+20° 19' 58"	13.4	Galaxy	0.007x0.007	Pegasus	
NGC 7489	23h 08m 25.6s	+23° 05' 44"	13.4	Galaxy	0.017x0.009	Pegasus	
NGC 7509	23h 13m 15.4s	+14° 42' 28"	13.4	Galaxy	0.009x0.009	Pegasus	
NGC 7536	23h 15m 07.3s	+13° 31' 30"	13.4	Galaxy	0.015x0.005	Pegasus	
NGC 7372	22h 46m 39.9s	+11° 13' 35"	13.5	Galaxy	0.008x0.007	Pegasus	
NGC 7442	23h 00m 20.2s	+15° 38' 42"	13.5	Galaxy	0.009x0.009	Pegasus	
NGC 7461	23h 02m 41.8s	+15° 40' 46"	13.5	Galaxy	0.007x0.005	Pegasus	
NGC 7475-1	23h 05m 03.3s	+20° 10' 35"	13.5	Galaxy	0.009x0.007	Pegasus	7475-1
NGC 7236	22h 15m 37.7s	+13° 56' 11"	13.6	Galaxy	0.005x0.005	Pegasus	
NGC 7237	22h 15m 39.6s	+13° 55' 51"	13.6	Galaxy	0.005x0.005	Pegasus	
NGC 7272	22h 25m 24.1s	+16° 40' 49"	13.6	Galaxy	0.007x0.006	Pegasus	
NGC 7574	23h 17m 18.2s	+24° 35' 44"	13.6	Galaxy	0.007x0.005	Pegasus	
NGC 7593	23h 18m 51.4s	+11° 26' 51"	13.6	Galaxy	0.008x0.005	Pegasus	
NGC 7647	23h 24m 51.6s	+16° 52' 36"	13.6	Galaxy	0.011x0.008	Pegasus	
NGC 7375	22h 47m 24.4s	+21° 10' 46"	13.7	Galaxy	0.006x0.005	Pegasus	
NGC 7383	22h 50m 29.4s	+11° 39' 09"	13.7	Galaxy	0.006x0.005	Pegasus	
NGC 7468	23h 03m 52.8s	+16° 42' 06"	13.7	Galaxy	0.007x0.005	Pegasus	
NGC 7535	23h 15m 07.0s	+13° 40' 50"	13.7	Galaxy	0.012x0.012	Pegasus	
NGC 7547	23h 15m 57.2s	+19° 04' 19"	13.7	Galaxy	0.009x0.004	Pegasus	
NGC 7559A	23h 16m 40.8s	+13° 23' 19"	13.7	Galaxy	0.008x0.006	Pegasus	7559A
NGC 7580	23h 18m 30.9s	+14° 05' 60"	13.7	Galaxy	0.006x0.005	Pegasus	
IC 5242	22h 42m 07.0s	+23° 30' 05"	13.7	Galaxy	0.006x0.006	Pegasus	
NGC 7244	22h 17m 19.0s	+16° 33' 43"	13.8	Galaxy	0.005x0.003	Pegasus	
NGC 7348	22h 41m 29.8s	+12° 00' 02"	13.8	Galaxy	0.009x0.005	Pegasus	
IC 5274	22h 59m 20.8s	+19° 00' 57"	13.8	Galaxy	0.006x0.006	Pegasus	
NGC 7324	22h 37m 53.4s	+19° 14' 26"	13.9	Galaxy	0.008x0.006	Pegasus	
NGC 7389	22h 51m 09.9s	+11° 39' 44"	13.9	Galaxy	0.011x0.007	Pegasus	
NGC 7511	23h 13m 20.4s	+13° 49' 30"	13.9	Galaxy	0.009x0.004	Pegasus	
NGC 7578A	23h 18m 05.8s	+18° 47' 60"	13.9	Galaxy	0.006x0.006	Pegasus	7578A
NGC 7641	23h 23m 25.3s	+11° 59' 33"	13.9	Galaxy	0.014x0.004	Pegasus	
IC 5177	22h 12m 27.4s	+11° 53' 04"	13.9	Galaxy	0.013x0.006	Pegasus	
IC 5284	23h 07m 39.7s	+19° 13' 08"	13.9	Galaxy	0.008x0.001	Pegasus	
NGC 7387	22h 51m 11.5s	+11° 43' 58"	14.0	Galaxy	0.005x0.003	Pegasus	
NGC 7578B	23h 18m 07.4s	+18° 48' 25"	14.0	Galaxy	0.003x0.003	Pegasus	7578B
NGC 7597	23h 19m 24.2s	+18° 47' 13"	14.0	Galaxy	0.008x0.008	Pegasus	
NGC 7649	23h 25m 14.5s	+14° 44' 46"	14.0	Galaxy	0.010x0.008	Pegasus	
NGC 7659	23h 26m 50.0s	+14° 18' 32"	14.0	Galaxy	0.006x0.002	Pegasus	
NGC 7305	22h 33m 07.4s	+11° 48' 21"	14.1	Galaxy	0.005x0.005	Pegasus	
NGC 7413	22h 55m 56.8s	+13° 19' 03"	14.1	Galaxy	0.008x0.005	Pegasus	
NGC 7468A	23h 05m 47.1s	+16° 46' 35"	14.1	Galaxy	0.010x0.004	Pegasus	7468A
IC 5317	23h 24m 22.6s	+21° 15' 44"	14.1	Galaxy	0.008x0.005	Pegasus	
NGC 7390	22h 51m 13.4s	+11° 37' 36"	14.2	Galaxy	0.008x0.005	Pegasus	
NGC 7525-1	23h 14m 34.6s	+14° 07' 11"	14.2	Galaxy	0.005x0.005	Pegasus	7525-1
IC 1461	22h 59m 27.8s	+15° 16' 12"	14.2	Galaxy	0.005x0.003	Pegasus	

Table 98: Main objects visible on chart 91 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1472	23h 10m 00.3s	+17° 21' 27"	14.2	Galaxy	0.01x0.005	Pegasus	
IC 5276	22h 59m 33.0s	+18° 55' 00"	14.2	Galaxy	0.005x0.002	Pegasus	
NGC 7630	23h 22m 10.8s	+11° 29' 47"	14.3	Galaxy	0.009x0.003	Pegasus	
IC 5282	23h 03m 41.2s	+21° 58' 18"	14.3	Galaxy	0.011x0.005	Pegasus	
NGC 7409	22h 54m 40.8s	+20° 18' 25"	14.4	Galaxy	0.005x0.003	Pegasus	
NGC 7553	23h 16m 26.8s	+19° 08' 49"	14.4	Galaxy	0.003x0.003	Pegasus	
NGC 7572	23h 17m 44.2s	+18° 34' 55"	14.4	Galaxy	0.006x0.001	Pegasus	
NGC 7602	23h 19m 37.4s	+18° 47' 51"	14.4	Galaxy	0.005x0.005	Pegasus	
IC 5312	23h 21m 52.1s	+19° 25' 03"	14.4	Galaxy	0.003x0.002	Pegasus	
NGC 7283	22h 29m 25.1s	+17° 33' 48"	14.5	Galaxy	0.007x0.003	Pegasus	
NGC 7467	23h 03m 21.1s	+15° 39' 07"	14.5	Galaxy	0.003x0.002	Pegasus	
NGC 7474	23h 04m 57.5s	+20° 09' 54"	14.5	Galaxy	0.004x0.004	Pegasus	
IC 5231	22h 34m 52.2s	+23° 25' 57"	14.5	Galaxy	0.008x0.007	Pegasus	
IC 5243	22h 42m 16.4s	+23° 28' 12"	14.5	Galaxy	0.005x0.005	Pegasus	
NGC 7639	23h 23m 42.8s	+11° 28' 20"	14.6	Galaxy	0.004x0.003	Pegasus	
IC 5253	22h 46m 21.3s	+21° 54' 11"	14.6	Galaxy	0.007x0.002	Pegasus	
NGC 7415-1	22h 55m 44.6s	+20° 21' 30"	14.7	Galaxy	0.009x0.001	Pegasus	7415-1
NGC 7415-2	22h 55m 46.5s	+20° 21' 30"	14.7	Galaxy	0.004x0.002	Pegasus	7415-2
NGC 7505	23h 11m 54.8s	+13° 43' 46"	14.7	Galaxy	0.006x0.001	Pegasus	
NGC 7540-1	23h 15m 30.1s	+16° 02' 55"	14.7	Galaxy	0.004x0.002	Pegasus	7540-1
NGC 7651-2	23h 25m 20.0s	+14° 03' 59"	14.7	Galaxy	0.003x0.001	Pegasus	7651-2
IC 5292	23h 14m 41.3s	+13° 47' 07"	14.7	Galaxy	0.005x0.005	Pegasus	
IC 5314	23h 22m 02.4s	+19° 24' 39"	14.7	Galaxy	0.004x0.004	Pegasus	
NGC 7475-2	23h 05m 04.8s	+20° 10' 54"	14.8	Galaxy	0.004x0.002	Pegasus	7475-2
NGC 7508	23h 12m 43.4s	+13° 02' 21"	14.8	Galaxy	0.008x0.002	Pegasus	
NGC 7523	23h 14m 28.9s	+14° 05' 06"	14.8	Galaxy	0.008x0.001	Pegasus	
NGC 7567	23h 17m 04.9s	+15° 56' 58"	14.8	Galaxy	0.007x0.001	Pegasus	
NGC 7588	23h 18m 51.6s	+18° 51' 05"	14.8	Galaxy	0.002x0.001	Pegasus	
NGC 7651-1	23h 25m 20.3s	+14° 04' 17"	14.8	Galaxy	0.005x0.004	Pegasus	7651-1
IC 1488	23h 26m 32.9s	+15° 27' 11"	14.8	Galaxy	0.007x0.001	Pegasus	
IC 5172	22h 10m 48.2s	+12° 54' 24"	14.8	Galaxy	0.003x0.001	Pegasus	
NGC 7558	23h 16m 32.0s	+19° 01' 07"	14.9	Galaxy	0.003x0.003	Pegasus	
NGC 7598	23h 19m 27.2s	+18° 50' 54"	14.9	Galaxy	0.002x0.001	Pegasus	
NGC 7638	23h 23m 27.6s	+11° 25' 42"	14.9	Galaxy	0.005x0.005	Pegasus	
IC 5254	22h 46m 53.0s	+21° 13' 14"	14.9	Galaxy	0.005x0.003	Pegasus	
IC 5300	23h 17m 27.7s	+20° 55' 37"	14.9	Galaxy	0.004x0.002	Pegasus	
IC 5299	23h 17m 12.7s	+20° 57' 15"	15.0	Galaxy	0.003x0.002	Pegasus	
NGC 7353	22h 43m 06.2s	+11° 58' 18"	15.1	Galaxy	0.005x0.004	Pegasus	
IC 5319	23h 25m 43.3s	+14° 05' 46"	15.1	Galaxy	0.002x0.002	Pegasus	
IC 5316	23h 22m 47.8s	+21° 18' 07"	15.3	Galaxy	0.002x0.002	Pegasus	
NGC 7525-2	23h 14m 34.4s	+14° 07' 21"	15.4	Galaxy	0.003x0.001	Pegasus	7525-2
NGC 7540-2	23h 15m 31.4s	+16° 03' 04"	15.5	Galaxy	0.001x0.001	Pegasus	7540-2
NGC 7559B	23h 16m 40.4s	+13° 23' 43"	15.8	Galaxy	0.002x0.001	Pegasus	7559B
NGC 7414	22h 56m 18.1s	+13° 20' 43"	16.0	Galaxy	0.003x0.001	Pegasus	

7.93 Main objects visible on chart 92

Table 99: Main objects visible on chart 92

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7619	23h 21m 09.4s	+08° 18' 20"	11.1	Galaxy	0.020x0.019	Pegasus	
NGC 7626	23h 21m 37.4s	+08° 18' 57"	11.1	Galaxy	0.021x0.019	Pegasus	
NGC 7743	23h 45m 16.2s	+10° 02' 02"	11.5	Galaxy	0.023x0.02	Pegasus	
NGC 7742	23h 45m 10.7s	+10° 52' 01"	11.6	Galaxy	0.014x0.014	Pegasus	
NGC 7785	23h 56m 14.2s	+06° 00' 59"	11.6	Galaxy	0.020x0.010	Pisces	
NGC 6397	00h 18m 41.2s	+11° 32' 60"	11.7	Galaxy	0.014x0.01	Pisces	CALDWELL 86
NGC 128	00h 30m 10.4s	+02° 57' 52"	11.8	Galaxy	0.020x0.005	Pisces	
NGC 1255	00h 29m 45.8s	+02° 56' 17"	12.1	Galaxy	0.015x0.013	Pisces	
NGC 7716	23h 37m 26.6s	+00° 23' 50"	12.1	Galaxy	0.018x0.015	Pisces	
NGC 7782	23h 54m 49.2s	+08° 04' 15"	12.2	Galaxy	0.018x0.010	Pisces	
NGC 7683	23h 29m 58.5s	+11° 32' 41"	12.5	Galaxy	0.015x0.007	Pegasus	
NGC 7714	23h 37m 09.4s	+02° 15' 16"	12.5	Galaxy	0.015x0.011	Pisces	
NGC 957	00h 23m 09.4s	+10° 35' 30"	12.5	Galaxy	0.012x0.009	Pisces	
NGC 1326	00h 31m 06.1s	+02° 11' 33"	12.6	Galaxy	0.015x0.012	Cetus	
NGC 7634	23h 22m 36.4s	+08° 59' 11"	12.6	Galaxy	0.01x0.0075	Pegasus	
NGC 7794	23h 59m 29.4s	+10° 49' 43"	12.6	Galaxy	0.010x0.008	Pegasus	
IC 34	00h 36m 32.4s	+09° 13' 26"	12.6	Galaxy	0.02x0.006	Pisces	
NGC 7757	23h 49m 40.8s	+04° 16' 17"	12.7	Galaxy	0.02x0.014	Pisces	
NGC 7778	23h 54m 14.8s	+07° 58' 15"	12.7	Galaxy	0.008x0.008	Pisces	
NGC 7779	23h 54m 21.9s	+07° 58' 35"	12.7	Galaxy	0.011x0.009	Pisces	
NGC 1371	00h 31m 54.0s	+10° 18' 28"	12.8	Galaxy	0.01x0.01	Pisces	
NGC 7671	23h 28m 13.9s	+12° 34' 01"	12.8	Galaxy	0.011x0.006	Pegasus	
NGC 7731	23h 42m 24.2s	+03° 50' 26"	12.8	Galaxy	0.011x0.009	Pisces	
NGC 7816	00h 04m 44.4s	+07° 34' 43"	12.8	Galaxy	0.014x0.012	Pisces	
78A	00h 21m 21.2s	+00° 55' 34"	12.8	Galaxy	0.009x0.005	Pisces	78A
IC 1805	00h 38m 53.7s	+08° 44' 01"	12.9	Galaxy	0.015x0.010	Pisces	
NGC 7623	23h 21m 24.7s	+08° 29' 43"	12.9	Galaxy	0.010x0.007	Pegasus	
NGC 7679	23h 29m 41.7s	+03° 36' 37"	12.9	Galaxy	0.014x0.007	Pisces	
NGC 7750	23h 47m 33.1s	+03° 53' 59"	12.9	Galaxy	0.013x0.006	Pisces	
NGC 7820	00h 05m 26.3s	+05° 17' 60"	12.9	Galaxy	0.010x0.005	Pisces	
NGC 1731	00h 38m 07.9s	+02° 02' 28"	13.0	Galaxy	0.026x0.021	Cetus	
NGC 7648	23h 24m 48.9s	+09° 46' 02"	13.0	Galaxy	0.013x0.008	Pegasus	
NGC 7783A	23h 55m 05.4s	+00° 29' 01"	13.0	Galaxy	0.010x0.005	Pisces	7783A
NGC 129	00h 09m 40.2s	+04° 42' 44"	13.1	Galaxy	0.009x0.008	Pisces	
NGC 7631	23h 22m 21.5s	+08° 18' 59"	13.1	Galaxy	0.014x0.005	Pegasus	
NGC 7738	23h 44m 57.3s	+00° 37' 03"	13.1	Galaxy	0.016x0.012	Pisces	
NGC 7751	23h 47m 53.6s	+06° 57' 43"	13.1	Galaxy	0.008x0.008	Pisces	
IC 1516	23h 57m 02.5s	-00° 49' 00"	13.1	Galaxy	0.015x0.013	Pisces	
NGC 752	00h 20m 21.9s	+06° 32' 58"	13.2	Galaxy	0.009x0.009	Pisces	CALDWELL 28
NGC 7643	23h 23m 44.9s	+12° 05' 15"	13.2	Galaxy	0.011x0.005	Pegasus	
NGC 7674	23h 28m 51.5s	+08° 52' 40"	13.2	Galaxy	0.009x0.008	Pegasus	
NGC 7682	23h 29m 59.0s	+03° 37' 60"	13.2	Galaxy	0.01x0.009	Pisces	
NGC 7685	23h 31m 28.4s	+04° 00' 04"	13.2	Galaxy	0.015x0.012	Pisces	
NGC 7706	23h 36m 05.5s	+05° 03' 52"	13.2	Galaxy	0.01x0.008	Pisces	

Table 99: Main objects visible on chart 92 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7774	23h 53m 05.8s	+11° 34' 14"	13.2	Galaxy	0.008x0.005	Pegasus	
NGC 7824	00h 06m 01.6s	+07° 01' 15"	13.2	Galaxy	0.013x0.01	Pisces	
NGC 3532	00h 08m 12.3s	+08° 24' 06"	13.3	Galaxy	0.009x0.005	Pisces	CALDWELL 91
NGC 362	00h 12m 17.9s	+06° 29' 20"	13.3	Galaxy	0.018x0.009	Pisces	CALDWELL 104
IC 1508	23h 46m 50.1s	+12° 09' 40"	13.3	Galaxy	0.016x0.004	Pegasus	
NGC 7687	23h 31m 49.6s	+03° 38' 48"	13.4	Galaxy	0.010x0.008	Pisces	
NGC 7704	23h 35m 56.0s	+04° 59' 52"	13.4	Galaxy	0.009x0.007	Pisces	
NGC 7802	00h 01m 55.9s	+06° 20' 31"	13.5	Galaxy	0.009x0.005	Pisces	
78B	00h 21m 22.9s	+00° 55' 59"	13.5	Galaxy	0.008x0.005	Pisces	78B
IC 1504	23h 42m 14.8s	+04° 07' 06"	13.5	Galaxy	0.014x0.004	Pisces	
NGC 7684	23h 31m 27.3s	+00° 10' 51"	13.6	Galaxy	0.012x0.003	Pisces	
NGC 7739	23h 45m 25.3s	+00° 25' 16"	13.6	Galaxy	0.009x0.007	Pisces	
NGC 7825	00h 06m 02.1s	+05° 18' 12"	13.6	Galaxy	0.008x0.004	Pisces	
IC 1507	23h 46m 28.3s	+01° 47' 21"	13.6	Galaxy	0.010x0.004	Pisces	
NGC 1380	00h 31m 54.9s	+05° 15' 32"	13.7	Galaxy	0.010x0.005	Pisces	
NGC 7642	23h 23m 48.7s	+01° 32' 30"	13.7	Galaxy	0.005x0.004	Pisces	
NGC 7797	23h 59m 54.1s	+03° 44' 04"	13.7	Galaxy	0.008x0.007	Pisces	
IC 1503	23h 39m 22.4s	+04° 54' 04"	13.7	Galaxy	0.007x0.003	Pisces	
IC 1551	00h 28m 31.3s	+08° 58' 37"	13.7	Galaxy	0.020x0.01	Pisces	
NGC 7617	23h 21m 03.7s	+08° 15' 53"	13.8	Galaxy	0.007x0.005	Pisces	
NGC 7629	23h 22m 14.6s	+01° 30' 09"	13.8	Galaxy	0.008x0.006	Pisces	
NGC 7732	23h 42m 29.2s	+03° 49' 30"	13.8	Galaxy	0.016x0.005	Pisces	
IC 1517	23h 57m 14.3s	-00° 12' 19"	13.8	Galaxy	0.006x0.006	Pisces	
IC 1549	00h 23m 45.5s	+07° 03' 52"	13.8	Galaxy	0.006x0.006	Pisces	
IC 3	00h 13m 01.3s	-00° 18' 53"	13.8	Galaxy	0.005x0.002	Pisces	
IC 7	00h 19m 48.7s	+10° 41' 42"	13.8	Galaxy	0.005x0.005	Pisces	
NGC 7641	23h 23m 25.3s	+11° 59' 33"	13.9	Galaxy	0.014x0.004	Pegasus	
NGC 7667	23h 25m 18.5s	-00° 00' 34"	13.9	Galaxy	0.013x0.009	Pisces	
NGC 7672	23h 28m 26.0s	+12° 29' 03"	13.9	Galaxy	0.006x0.005	Pegasus	
NGC 7696	23h 34m 45.3s	+04° 58' 16"	13.9	Galaxy	0.010x0.005	Pisces	
NGC 7780	23h 54m 27.4s	+08° 13' 07"	13.9	Galaxy	0.007x0.004	Pisces	
NGC 7781	23h 54m 41.2s	+07° 57' 40"	13.9	Galaxy	0.006x0.001	Pisces	
NGC 7827	00h 06m 23.1s	+05° 19' 20"	13.9	Galaxy	0.01x0.0075	Pisces	
NGC 7818	00h 05m 04.4s	+07° 28' 46"	14.0	Galaxy	0.008x0.008	Pisces	
IC 13	00h 21m 15.7s	+07° 48' 01"	14.0	Galaxy	0.011x0.004	Pisces	
IC 35	00h 38m 36.0s	+10° 27' 23"	14.0	Galaxy	0.008x0.006	Pisces	
NGC 6025	00h 16m 53.5s	-00° 12' 13"	14.1	Galaxy	0.010x0.01	Pisces	CALDWELL 95
NGC 1261	00h 30m 03.6s	+02° 54' 38"	14.2	Galaxy	0.006x0.003	Pisces	CALDWELL 87
NGC 7715	23h 37m 17.0s	+02° 15' 22"	14.2	Galaxy	0.022x0.003	Pisces	
NGC 7787	23h 57m 03.1s	+00° 38' 60"	14.2	Galaxy	0.015x0.004	Pisces	
NGC 1172	00h 28m 06.3s	+01° 26' 01"	14.3	Galaxy	0.005x0.003	Cetus	
NGC 7630	23h 22m 10.8s	+11° 29' 47"	14.3	Galaxy	0.009x0.003	Pegasus	
NGC 7834	00h 07m 33.4s	+08° 28' 09"	14.3	Galaxy	0.009x0.006	Pisces	
IC 1513	23h 54m 24.4s	+11° 25' 05"	14.3	Galaxy	0.008x0.002	Pegasus	
IC 25	00h 32m 07.5s	-00° 18' 30"	14.3	Galaxy	0.008x0.007	Cetus	
IC 31	00h 35m 20.7s	+12° 22' 04"	14.3	Galaxy	0.013x0.002	Pisces	

Table 99: Main objects visible on chart 92 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5374	00h 01m 60.0s	+04° 36' 01"	14.3	Galaxy	0.005x0.005	Pisces	
IC 5375	00h 02m 00.3s	+04° 38' 32"	14.3	Galaxy	0.008x0.001	Pisces	
NGC 1300	00h 30m 14.1s	+02° 58' 14"	14.4	Galaxy	0.005x0.003	Pisces	
NGC 1395	00h 32m 02.1s	+05° 10' 39"	14.4	Galaxy	0.006x0.004	Pisces	
NGC 1708	00h 37m 41.4s	+01° 59' 07"	14.4	Galaxy	0.003x0.002	Cetus	
NGC 7674A	23h 28m 53.5s	+08° 52' 55"	14.4	Galaxy	0.002x0.001	Pegasus	7674A
NGC 7705	23h 35m 57.5s	+04° 54' 15"	14.4	Galaxy	0.005x0.004	Pisces	
NGC 7783B	23h 55m 07.3s	+00° 28' 40"	14.4	Galaxy	0.005x0.004	Pisces	7783B
IC 1482	23h 21m 44.6s	+01° 50' 18"	14.4	Galaxy	0.005x0.003	Pisces	
IC 1526	00h 02m 26.9s	+11° 26' 49"	14.4	Galaxy	0.004x0.002	Pegasus	
NGC 1411	00h 32m 13.3s	+05° 16' 43"	14.5	Galaxy	0.006x0.005	Pisces	
NGC 7809	00h 03m 04.8s	+03° 02' 27"	14.5	Galaxy	0.004x0.003	Pisces	
NGC 7811	00h 03m 21.8s	+03° 27' 08"	14.5	Galaxy	0.003x0.003	Pisces	
IC 1506	23h 45m 43.5s	+04° 50' 10"	14.5	Galaxy	0.005x0.003	Pisces	
IC 1522	23h 59m 58.8s	+01° 49' 14"	14.5	Galaxy	0.008x0.002	Pisces	
NGC 7639	23h 23m 42.8s	+11° 28' 20"	14.6	Galaxy	0.004x0.003	Pegasus	
NGC 7835	00h 07m 42.2s	+08° 31' 39"	14.6	Galaxy	0.004x0.002	Pisces	
NGC 7838	00h 07m 49.4s	+08° 27' 08"	14.6	Galaxy	0.005x0.002	Pisces	
IC 1500	23h 34m 04.6s	+04° 39' 07"	14.6	Galaxy	0.004x0.002	Pisces	
IC 1518	23h 58m 01.3s	+12° 33' 57"	14.6	Galaxy	0.002x0.001	Pegasus	
IC 1519	23h 58m 03.6s	+12° 33' 30"	14.6	Galaxy	0.005x0.005	Pegasus	
IC 1527	00h 03m 16.9s	+04° 11' 26"	14.6	Galaxy	0.010x0.005	Pisces	
IC 1510-1	23h 51m 27.8s	+02° 10' 29"	14.7	Galaxy	0.005x0.005	Pisces	IC 1510-1
IC 1510-2	23h 51m 28.3s	+02° 10' 20"	14.7	Galaxy	0.005x0.003	Pisces	IC 1510-2
IC 1276	00h 30m 07.8s	+02° 58' 22"	14.8	Galaxy	0.006x0.004	Pisces	
NGC 7621	23h 21m 19.5s	+08° 27' 56"	14.9	Galaxy	0.005x0.001	Pegasus	
NGC 7638	23h 23m 27.6s	+11° 25' 42"	14.9	Galaxy	0.005x0.005	Pegasus	
NGC 7675	23h 29m 00.6s	+08° 52' 06"	14.9	Galaxy	0.005x0.003	Pegasus	
IC 15	00h 28m 52.9s	+00° 02' 17"	15.0	Galaxy	0.003x0.003	Cetus	
IC 17	00h 29m 25.2s	+02° 44' 53"	15.1	Galaxy	0.004x0.004	Cetus	
NGC 7840	00h 08m 04.3s	+08° 29' 06"	15.2	Galaxy	0.003x0.002	Pisces	
IC 21	00h 30m 05.7s	-00° 03' 51"	15.2	Galaxy	0.004x0.003	Cetus	
IC 1523	00h 00m 01.8s	+06° 58' 26"	15.3	Galaxy	0.002x0.001	Pisces	
NGC 7783C	23h 55m 09.1s	+00° 27' 26"	15.4	Galaxy	0.001x0.001	Pisces	
NGC 7837	00h 07m 46.9s	+08° 27' 08"	15.6	Galaxy	0.003x0.002	Pisces	
NGC 1647	00h 37m 28.4s	+02° 50' 56"	15.8	Galaxy	0.003x0.003	Pisces	
NGC 4755	00h 08m 20.0s	+08° 28' 27"	15.9	Galaxy	0.005x0.002	Pisces	CALDWELL 94, Jewel Box

7.94 Main objects visible on chart 93

Table 100: Main objects visible on chart 93

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1613	01h 05m 43.1s	+02° 12' 53"	9.2	Galaxy	0.138x0.124	Cetus	CALDWELL 51
NGC 5247	01h 25m 44.6s	+09° 37' 55"	10.2	Galaxy	0.023x0.023	Pisces	

Table 100: Main objects visible on chart 93 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 488	01h 22m 42.7s	+05° 20' 59"	10.3	Galaxy	0.045x0.032	Pisces	
IC 5201	01h 25m 30.6s	+03° 53' 15"	11.4	Galaxy	0.028x0.014	Pisces	
IC 5332	01h 26m 27.0s	+01° 51' 09"	11.4	Galaxy	0.031x0.019	Cetus	
NGC 4281	01h 13m 51.1s	+01° 04' 35"	11.5	Galaxy	0.033x0.024	Cetus	
NGC 4742	01h 21m 02.6s	+03° 30' 37"	11.5	Galaxy	0.059x0.052	Pisces	
IC 5217	01h 25m 29.2s	+01° 49' 29"	11.7	Galaxy	0.0225x0.02	Cetus	
NGC 128	00h 30m 10.4s	+02° 57' 52"	11.8	Galaxy	0.020x0.005	Pisces	
NGC 4501	01h 16m 25.6s	-00° 45' 60"	11.8	Galaxy	0.025x0.02	Cetus	M88
NGC 467	01h 20m 05.9s	+03° 23' 44"	11.8	Galaxy	0.014x0.014	Pisces	
NGC 4709	01h 20m 40.7s	+03° 30' 12"	11.8	Galaxy	0.024x0.014	Pisces	
NGC 1255	00h 29m 45.8s	+02° 56' 17"	12.1	Galaxy	0.015x0.013	Pisces	
NGC 1947	00h 40m 13.9s	+03° 08' 10"	12.2	Galaxy	0.013x0.011	Pisces	
NGC 1938	00h 40m 14.1s	+03° 25' 47"	12.3	Galaxy	0.011x0.01	Pisces	
NGC 1829	00h 39m 07.9s	+02° 49' 39"	12.4	Galaxy	0.015x0.013	Pisces	
NGC 4463	01h 16m 59.7s	+04° 23' 21"	12.4	Galaxy	0.016x0.013	Pisces	
NGC 6322	01h 38m 13.9s	+05° 58' 06"	12.4	Galaxy	0.008x0.006	Pisces	
NGC 4303	01h 13m 55.2s	-00° 09' 27"	12.5	Galaxy	0.010x0.009	Cetus	M61
NGC 4936	01h 23m 04.7s	+01° 02' 25"	12.5	Galaxy	0.028x0.009	Cetus	
NGC 6584	01h 43m 07.5s	+12° 41' 30"	12.5	Galaxy	0.025x0.013	Pisces	
NGC 1326	00h 31m 06.1s	+02° 11' 33"	12.6	Galaxy	0.015x0.012	Cetus	
NGC 1925	00h 40m 08.9s	+00° 57' 46"	12.6	Galaxy	0.015x0.007	Cetus	
NGC 2004	00h 40m 30.3s	+02° 59' 08"	12.6	Galaxy	0.014x0.008	Pisces	
NGC 2571	00h 48m 57.7s	+08° 23' 41"	12.6	Galaxy	0.015x0.010	Pisces	
NGC 6451	01h 41m 05.2s	+05° 49' 01"	12.6	Galaxy	0.021x0.01	Pisces	
IC 34	00h 36m 32.4s	+09° 13' 26"	12.6	Galaxy	0.02x0.006	Pisces	
NGC 4552	01h 16m 53.7s	+05° 16' 23"	12.7	Galaxy	0.016x0.01	Pisces	M89
IC 4891	01h 22m 50.5s	+09° 18' 01"	12.7	Galaxy	0.014x0.003	Pisces	
NGC 5506	01h 27m 38.1s	+02° 06' 55"	12.7	Galaxy	0.011x0.005	Cetus	
NGC 1371	00h 31m 54.0s	+10° 18' 28"	12.8	Galaxy	0.01x0.01	Pisces	
NGC 4372	01h 15m 18.5s	+06° 01' 17"	12.8	Galaxy	0.010x0.008	Pisces	CALDWELL 108
NGC 5024	01h 23m 52.3s	+09° 08' 35"	12.8	Galaxy	0.009x0.008	Pisces	M53
IC 1805	00h 38m 53.7s	+08° 44' 01"	12.9	Galaxy	0.015x0.010	Pisces	
NGC 1960	00h 40m 13.2s	+01° 00' 42"	12.9	Galaxy	0.010x0.006	Cetus	M36
NGC 2014	00h 40m 30.3s	+00° 57' 32"	12.9	Galaxy	0.015x0.012	Cetus	
NGC 2042	00h 40m 39.8s	+03° 23' 55"	12.9	Galaxy	0.01x0.009	Pisces	
NGC 4261	01h 13m 43.8s	-00° 11' 41"	12.9	Galaxy	0.011x0.008	Cetus	
NGC 5220	01h 25m 42.8s	+10° 05' 18"	12.9	Galaxy	0.023x0.004	Pisces	
NGC 5322	01h 26m 13.9s	+09° 21' 27"	12.9	Galaxy	0.025x0.008	Pisces	
NGC 6229	01h 36m 55.6s	+00° 45' 18"	12.9	Galaxy	0.013x0.008	Cetus	
NGC 1731	00h 38m 07.9s	+02° 02' 28"	13.0	Galaxy	0.026x0.021	Cetus	
NGC 2374	00h 44m 23.2s	-00° 01' 37"	13.0	Galaxy	0.013x0.007	Cetus	
NGC 4976	01h 23m 19.1s	-00° 46' 52"	13.0	Galaxy	0.017x0.007	Cetus	
NGC 3640	01h 05m 36.1s	-00° 42' 24"	13.1	Galaxy	0.011x0.01	Cetus	
NGC 5168	01h 25m 04.8s	+09° 38' 43"	13.1	Galaxy	0.011x0.004	Pisces	
IC 1639	01h 12m 41.8s	-00° 34' 07"	13.1	Galaxy	0.007x0.006	Cetus	
IC 1723	01h 44m 11.1s	+08° 58' 44"	13.1	Galaxy	0.027x0.006	Pisces	

Table 100: Main objects visible on chart 93 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1981	00h 40m 18.5s	+02° 53' 49"	13.2	Galaxy	0.01x0.01	Pisces	
NGC 2232	00h 43m 11.3s	+00° 56' 41"	13.2	Galaxy	0.010x0.007	Cetus	
NGC 4852	01h 22m 23.9s	+07° 06' 43"	13.2	Galaxy	0.015x0.005	Pisces	
NGC 5189	01h 25m 14.5s	+09° 25' 27"	13.3	Galaxy	0.013x0.005	Pisces	Spiral planetary nebula
NGC 5253	01h 25m 49.7s	+09° 47' 50"	13.3	Galaxy	0.012x0.005	Pisces	
NGC 6316	01h 37m 43.4s	+05° 55' 38"	13.3	Galaxy	0.008x0.006	Pisces	
IC 1721	01h 42m 21.3s	+08° 36' 60"	13.3	Galaxy	0.008x0.004	Pisces	
NGC 1866	00h 39m 20.8s	+03° 15' 54"	13.4	Galaxy	0.011x0.006	Pisces	
NGC 3590	01h 05m 12.2s	-00° 40' 06"	13.4	Galaxy	0.012x0.009	Cetus	
IC 4291	01h 13m 52.7s	-00° 14' 60"	13.4	Galaxy	0.011x0.002	Cetus	
NGC 5090	01h 24m 20.9s	+09° 31' 37"	13.4	Galaxy	0.013x0.005	Pisces	
IC 1567	00h 40m 22.0s	+06° 49' 58"	13.4	Galaxy	0.008x0.008	Pisces	
IC 1607	00h 59m 44.3s	+00° 41' 03"	13.4	Galaxy	0.007x0.007	Cetus	
NGC 2362	00h 44m 23.0s	+03° 03' 23"	13.5	Galaxy	0.01x0.008	Pisces	CALDWELL 64, Tau Canis Majoris Cluster
NGC 3918	01h 08m 18.0s	+01° 01' 18"	13.5	Galaxy	0.007x0.005	Cetus	Blue planetary
IC 109	01h 26m 08.6s	+02° 09' 39"	13.5	Galaxy	0.009x0.007	Cetus	
IC 121	01h 29m 17.5s	+02° 36' 20"	13.5	Galaxy	0.007x0.004	Cetus	
NGC 1994	00h 40m 28.7s	+03° 14' 12"	13.6	Galaxy	0.01x0.005	Pisces	
NGC 1380	00h 31m 54.9s	+05° 15' 32"	13.7	Galaxy	0.010x0.005	Pisces	
NGC 2409	00h 45m 57.8s	+06° 12' 40"	13.7	Galaxy	0.01x0.01	Pisces	
IC 5117	01h 24m 27.8s	+11° 23' 04"	13.7	Galaxy	0.009x0.009	Pisces	
NGC 5694	01h 30m 04.3s	+11° 13' 28"	13.7	Galaxy	0.008x0.004	Pisces	CALDWELL 66
NGC 6520	01h 41m 40.0s	+08° 04' 26"	13.7	Galaxy	0.008x0.005	Pisces	
IC 1551	00h 28m 31.3s	+08° 58' 37"	13.7	Galaxy	0.020x0.01	Pisces	
IC 1571	00h 41m 33.1s	-00° 13' 54"	13.7	Galaxy	0.0125x0.01	Cetus	
IC 49	00h 44m 51.7s	+01° 56' 56"	13.7	Galaxy	0.012x0.010	Cetus	
NGC 2506	00h 48m 12.0s	+08° 00' 29"	13.8	Galaxy	0.009x0.005	Pisces	CALDWELL 54
NGC 5055	01h 23m 53.9s	+09° 33' 45"	13.8	Galaxy	0.007x0.005	Pisces	M63, Sunflower galaxy
NGC 6383	01h 40m 34.5s	+07° 19' 41"	13.8	Galaxy	0.006x0.004	Pisces	
IC 112	01h 27m 00.1s	+11° 32' 10"	13.8	Galaxy	0.006x0.003	Pisces	
IC 1681	01h 22m 16.6s	+00° 11' 04"	13.8	Galaxy	0.008x0.004	Cetus	
IC 1697	01h 25m 58.3s	+00° 32' 18"	13.8	Galaxy	0.007x0.005	Cetus	
IC 4797	01h 22m 11.6s	+03° 57' 24"	13.9	Galaxy	0.009x0.007	Pisces	
IC 138	01h 33m 57.2s	-00° 35' 52"	13.9	Galaxy	0.009x0.006	Cetus	
IC 150	01h 43m 53.7s	+04° 17' 22"	13.9	Galaxy	0.008x0.004	Pisces	
IC 1598	00h 55m 37.6s	+05° 52' 17"	13.9	Galaxy	0.008x0.004	Pisces	
IC 53	00h 51m 37.1s	+10° 41' 55"	13.9	Galaxy	0.004x0.004	Pisces	
IC 61	00h 58m 03.3s	+07° 36' 15"	13.9	Galaxy	0.01x0.006	Pisces	
IC 75	01h 08m 08.2s	+10° 55' 59"	13.9	Galaxy	0.010x0.008	Pisces	
NGC 1904	00h 39m 50.6s	+07° 09' 39"	14.0	Galaxy	0.007x0.006	Pisces	M79
NGC 2037	00h 40m 35.1s	+03° 32' 28"	14.0	Galaxy	0.007x0.002	Pisces	
NGC 3320	00h 59m 45.1s	+07° 12' 29"	14.0	Galaxy	0.008x0.004	Pisces	
IC 101	01h 25m 05.4s	+10° 01' 26"	14.0	Galaxy	0.011x0.005	Pisces	
IC 103	01h 25m 32.1s	+02° 08' 17"	14.0	Galaxy	0.007x0.004	Cetus	
IC 1564	00h 40m 01.0s	+06° 07' 11"	14.0	Galaxy	0.008x0.004	Pisces	

Table 100: Main objects visible on chart 93 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1695	01h 26m 04.2s	+08° 47' 33"	14.0	Galaxy	0.005x0.005	Pisces	
IC 1715	01h 34m 31.9s	+12° 40' 39"	14.0	Galaxy	0.005x0.004	Pisces	
IC 35	00h 38m 36.0s	+10° 27' 23"	14.0	Galaxy	0.008x0.006	Pisces	
NGC 1976	00h 40m 14.1s	+00° 59' 28"	14.1	Galaxy	0.005x0.005	Cetus	M42, Orion nebula
IC 1592	00h 54m 23.0s	+05° 52' 02"	14.1	Galaxy	0.008x0.005	Pisces	
IC 1694	01h 25m 43.3s	+01° 42' 04"	14.1	Galaxy	0.005x0.003	Cetus	
IC 55	00h 52m 38.4s	+07° 49' 00"	14.1	Galaxy	0.005x0.002	Pisces	
IC 62	00h 59m 40.6s	+11° 54' 19"	14.1	Galaxy	0.007x0.005	Pisces	
NGC 1261	00h 30m 03.6s	+02° 54' 38"	14.2	Galaxy	0.006x0.003	Pisces	CALDWELL 87
NGC 4350	01h 14m 55.4s	+02° 09' 58"	14.2	Galaxy	0.009x0.003	Cetus	
NGC 4450	01h 15m 48.2s	+02° 00' 44"	14.2	Galaxy	0.004x0.003	Cetus	
NGC 5005	01h 23m 35.5s	+05° 28' 53"	14.2	Galaxy	0.006x0.005	Pisces	CALDWELL 29
IC 114	01h 27m 19.4s	+10° 00' 12"	14.2	Galaxy	0.010x0.005	Pisces	
IC 1568	00h 40m 51.8s	+06° 56' 52"	14.2	Galaxy	0.006x0.006	Pisces	
IC 1643	01h 13m 03.8s	-00° 18' 52"	14.2	Galaxy	0.006x0.006	Cetus	
NGC 1172	00h 28m 06.3s	+01° 26' 01"	14.3	Galaxy	0.005x0.003	Cetus	
NGC 2025	00h 40m 35.3s	+03° 38' 03"	14.3	Galaxy	0.007x0.002	Pisces	
NGC 2089	00h 41m 13.0s	+02° 51' 16"	14.3	Galaxy	0.005x0.005	Pisces	
NGC 2194	00h 43m 06.7s	+01° 00' 11"	14.3	Galaxy	0.004x0.003	Cetus	
IC 123	01h 29m 47.2s	+02° 32' 23"	14.3	Galaxy	0.003x0.002	Cetus	
IC 25	00h 32m 07.5s	-00° 18' 30"	14.3	Galaxy	0.008x0.007	Cetus	
IC 31	00h 35m 20.7s	+12° 22' 04"	14.3	Galaxy	0.013x0.002	Pisces	
NGC 1300	00h 30m 14.1s	+02° 58' 14"	14.4	Galaxy	0.005x0.003	Pisces	
NGC 1395	00h 32m 02.1s	+05° 10' 39"	14.4	Galaxy	0.006x0.004	Pisces	
NGC 1708	00h 37m 41.4s	+01° 59' 07"	14.4	Galaxy	0.003x0.002	Cetus	
NGC 4902	01h 22m 59.0s	+05° 27' 42"	14.4	Galaxy	0.005x0.005	Pisces	
IC 1629	01h 10m 13.8s	+02° 39' 49"	14.4	Galaxy	0.003x0.002	Cetus	
IC 1640	01h 12m 46.5s	-00° 32' 07"	14.4	Galaxy	0.001x0.001	Cetus	
IC 1678	01h 21m 58.8s	+05° 39' 15"	14.4	Galaxy	0.003x0.003	Pisces	
IC 40	00h 40m 16.8s	+02° 33' 17"	14.4	Galaxy	0.008x0.004	Cetus	
IC 87	01h 15m 11.3s	+00° 51' 39"	14.4	Galaxy	0.005x0.004	Cetus	
NGC 1411	00h 32m 13.3s	+05° 16' 43"	14.5	Galaxy	0.006x0.005	Pisces	
IC 52	00h 49m 19.4s	+04° 11' 24"	14.5	Galaxy	0.008x0.003	Pisces	
IC 57	00h 55m 45.0s	+11° 56' 20"	14.5	Galaxy	0.005x0.005	Pisces	
IC 1569	00h 41m 23.9s	+06° 49' 06"	14.6	Galaxy	0.003x0.003	Pisces	
IC 73	01h 05m 49.0s	+04° 51' 48"	14.6	Galaxy	0.007x0.004	Pisces	
IC 83	01h 11m 25.3s	+01° 47' 05"	14.6	Galaxy	0.005x0.003	Cetus	
IC 84	01h 12m 21.1s	+01° 44' 10"	14.6	Galaxy	0.006x0.004	Cetus	
NGC 4621	01h 19m 06.9s	+04° 19' 15"	14.7	Galaxy	0.003x0.003	Pisces	M59
IC 102	01h 25m 23.2s	+09° 58' 50"	14.7	Galaxy	0.007x0.002	Pisces	
IC 105	01h 25m 41.9s	+02° 10' 06"	14.7	Galaxy	0.005x0.003	Cetus	
IC 1276	00h 30m 07.8s	+02° 58' 22"	14.8	Galaxy	0.006x0.004	Pisces	
190A	00h 39m 50.5s	+07° 09' 18"	14.8	Galaxy	0.005x0.005	Pisces	190A
IC 1566	00h 40m 29.2s	+06° 54' 51"	14.8	Galaxy	0.005x0.005	Pisces	
IC 74	01h 06m 51.8s	+04° 11' 13"	14.8	Galaxy	0.003x0.002	Pisces	
IC 145	01h 39m 34.0s	+00° 49' 57"	14.9	Galaxy	0.005x0.003	Cetus	

Table 100: Main objects visible on chart 93 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4866	01h 22m 39.2s	+05° 26' 25"	15.0	Galaxy	0.001x0.001	Pisces	
IC 15	00h 28m 52.9s	+00° 02' 17"	15.0	Galaxy	0.003x0.003	Cetus	
IC 17	00h 29m 25.2s	+02° 44' 53"	15.1	Galaxy	0.004x0.004	Cetus	
IC 21	00h 30m 05.7s	-00° 03' 51"	15.2	Galaxy	0.004x0.003	Cetus	
IC 88	01h 15m 26.8s	+00° 53' 12"	15.3	Galaxy	0.003x0.003	Cetus	
NGC 4921	01h 23m 09.7s	+05° 30' 39"	15.6	Galaxy	0.005x0.005	Pisces	
NGC 3960	01h 09m 04.4s	+04° 37' 36"	15.7	Galaxy	0.003x0.002	Pisces	
IC 91	01h 19m 35.1s	+02° 38' 54"	15.7	Galaxy	0.004x0.001	Cetus	
NGC 1647	00h 37m 28.4s	+02° 50' 56"	15.8	Galaxy	0.003x0.003	Pisces	

7.95 Main objects visible on chart 94

Table 101: Main objects visible on chart 94

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1068	02h 43m 36.2s	+00° 03' 47"	8.9	Galaxy	0.059x0.05	Cetus	M77, Cetus A
NGC 1055	02h 42m 40.8s	+00° 31' 08"	10.6	Galaxy	0.063x0.022	Cetus	
NGC 821	02h 09m 18.9s	+11° 04' 44"	10.7	Galaxy	0.02x0.014	Aries	
NGC 1087	02h 47m 20.4s	-00° 25' 28"	10.9	Galaxy	0.032x0.019	Cetus	
NGC 864	02h 16m 24.3s	+06° 05' 06"	10.9	Galaxy	0.039x0.029	Cetus	
NGC 1073	02h 44m 36.0s	+01° 27' 06"	11.0	Galaxy	0.040x0.035	Cetus	
NGC 7410	01h 57m 17.4s	+05° 42' 58"	11.1	Galaxy	0.025x0.024	Pisces	
NGC 1016	02h 39m 15.5s	+02° 11' 47"	11.6	Galaxy	0.016x0.016	Cetus	
NGC 1032	02h 40m 19.3s	+01° 10' 15"	11.6	Galaxy	0.028x0.009	Cetus	
NGC 7184	01h 54m 09.2s	+04° 17' 01"	11.7	Galaxy	0.019x0.018	Pisces	
NGC 1090	02h 47m 29.3s	-00° 10' 23"	11.8	Galaxy	0.032x0.015	Cetus	
NGC 1070	02h 44m 18.7s	+05° 02' 39"	11.9	Galaxy	0.019x0.015	Cetus	
NGC 6760	01h 49m 53.7s	+05° 59' 42"	11.9	Galaxy	0.033x0.008	Pisces	
NGC 1024	02h 40m 10.1s	+10° 55' 29"	12.1	Galaxy	0.032x0.012	Aries	
NGC 6656	01h 45m 53.3s	+10° 30' 46"	12.2	Galaxy	0.02x0.013	Pisces	M22
NGC 1085	02h 47m 21.6s	+03° 40' 57"	12.4	Galaxy	0.015x0.010	Cetus	
NGC 6322	01h 38m 13.9s	+05° 58' 06"	12.4	Galaxy	0.008x0.006	Pisces	
NGC 6939	01h 51m 27.5s	+06° 14' 00"	12.4	Galaxy	0.018x0.009	Pisces	
NGC 1094	02h 48m 23.1s	-00° 12' 39"	12.5	Galaxy	0.010x0.008	Cetus	
NGC 6584	01h 43m 07.5s	+12° 41' 30"	12.5	Galaxy	0.025x0.013	Pisces	
NGC 7063	01h 52m 47.3s	+06° 23' 04"	12.5	Galaxy	0.015x0.012	Pisces	
NGC 990	02h 37m 16.6s	+11° 43' 12"	12.5	Galaxy	0.015x0.012	Aries	
NGC 1026	02h 40m 16.3s	+06° 37' 17"	12.6	Galaxy	0.014x0.010	Cetus	
NGC 6451	01h 41m 05.2s	+05° 49' 01"	12.6	Galaxy	0.021x0.01	Pisces	
NGC 6730	01h 49m 20.0s	+11° 36' 38"	12.6	Galaxy	0.017x0.014	Aries	
NGC 1004	02h 38m 37.6s	+02° 03' 10"	12.7	Galaxy	0.011x0.01	Cetus	
NGC 7662	01h 59m 39.1s	+08° 26' 03"	12.7	Galaxy	0.016x0.016	Pisces	CALDWELL 22, Blue snowball
IC 162	01h 49m 50.8s	+10° 36' 40"	12.7	Galaxy	0.011x0.011	Pisces	
IC 232	02h 32m 07.2s	+01° 20' 43"	12.7	Galaxy	0.010x0.005	Cetus	
NGC 6645	01h 44m 42.0s	+04° 18' 45"	12.8	Galaxy	0.009x0.007	Pisces	

Table 101: Main objects visible on chart 94 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 827	02h 09m 53.5s	+08° 03' 23"	12.8	Galaxy	0.016x0.005	Cetus	
NGC 6229	01h 36m 55.6s	+00° 45' 18"	12.9	Galaxy	0.013x0.008	Cetus	
NGC 7160	01h 53m 57.4s	+12° 47' 47"	12.9	Galaxy	0.015x0.006	Aries	
NGC 863	02h 15m 28.7s	-00° 40' 58"	12.9	Galaxy	0.009x0.008	Cetus	
NGC 867	02h 18m 00.5s	+01° 19' 39"	12.9	Galaxy	0.01x0.009	Cetus	
NGC 1101	02h 49m 11.4s	+04° 39' 10"	13.0	Galaxy	0.010x0.008	Cetus	
NGC 5850	01h 32m 37.4s	-00° 50' 26"	13.1	Galaxy	0.018x0.004	Cetus	
NGC 7814	02h 01m 06.9s	+12° 44' 32"	13.1	Galaxy	0.012x0.003	Aries	CALDWELL 43
NGC 800	02h 03m 07.1s	-00° 02' 41"	13.1	Galaxy	0.008x0.007	Cetus	
NGC 934	02h 28m 28.2s	-00° 09' 51"	13.1	Galaxy	0.010x0.007	Cetus	
NGC 975	02h 34m 20.6s	+09° 40' 49"	13.1	Galaxy	0.009x0.006	Pisces	
IC 1723	01h 44m 11.1s	+08° 58' 44"	13.1	Galaxy	0.027x0.006	Pisces	
IC 1843	02h 46m 21.1s	+02° 57' 20"	13.1	Galaxy	0.009x0.005	Cetus	
IC 1029	02h 40m 34.7s	+10° 52' 12"	13.2	Galaxy	0.011x0.003	Aries	
NGC 1044	02h 42m 03.9s	+08° 48' 54"	13.2	Galaxy	0.004x0.004	Cetus	
NGC 1046	02h 42m 10.6s	+08° 47' 47"	13.2	Galaxy	0.003x0.003	Cetus	
NGC 7686	01h 59m 36.3s	+00° 36' 57"	13.2	Galaxy	0.014x0.006	Cetus	
NGC 825	02h 09m 29.2s	+06° 24' 29"	13.2	Galaxy	0.016x0.004	Cetus	
NGC 859	02h 14m 33.6s	-00° 37' 59"	13.2	Galaxy	0.010x0.007	Cetus	
IC 1776	02h 06m 11.8s	+06° 11' 28"	13.2	Galaxy	0.010x0.009	Pisces	
IC 211	02h 12m 04.2s	+03° 56' 10"	13.2	Galaxy	0.019x0.015	Cetus	
NGC 1095	02h 48m 34.4s	+04° 42' 45"	13.3	Galaxy	0.010x0.006	Cetus	
NGC 6316	01h 37m 43.4s	+05° 55' 38"	13.3	Galaxy	0.008x0.006	Pisces	
IC 791	02h 02m 41.4s	+08° 35' 10"	13.3	Galaxy	0.013x0.013	Pisces	
NGC 926	02h 27m 01.9s	-00° 15' 08"	13.3	Galaxy	0.015x0.008	Cetus	
IC 1721	01h 42m 21.3s	+08° 36' 60"	13.3	Galaxy	0.008x0.004	Pisces	
IC 174	01h 57m 12.2s	+03° 50' 60"	13.3	Galaxy	0.010x0.006	Pisces	
IC 1791	02h 18m 39.7s	+12° 33' 10"	13.3	Galaxy	0.008x0.008	Aries	
NGC 1038	02h 41m 02.1s	+01° 35' 10"	13.4	Galaxy	0.01x0.003	Cetus	
NGC 1072	02h 44m 26.7s	+00° 22' 57"	13.4	Galaxy	0.012x0.004	Cetus	
NGC 799	02h 03m 07.5s	-00° 00' 51"	13.4	Galaxy	0.016x0.014	Cetus	
NGC 840	02h 11m 13.3s	+07° 55' 49"	13.4	Galaxy	0.015x0.008	Cetus	
NGC 927	02h 27m 35.8s	+12° 14' 08"	13.4	Galaxy	0.01x0.01	Aries	
NGC 997	02h 38m 11.7s	+07° 23' 01"	13.4	Galaxy	0.009x0.009	Cetus	
IC 193	02h 03m 28.8s	+11° 10' 45"	13.4	Galaxy	0.014x0.012	Aries	
IC 208	02h 09m 24.6s	+06° 28' 46"	13.4	Galaxy	0.010x0.010	Cetus	
IC 241	02h 38m 50.4s	+02° 24' 18"	13.4	Galaxy	0.009x0.005	Cetus	
NGC 1019	02h 39m 23.3s	+01° 59' 06"	13.5	Galaxy	0.008x0.007	Cetus	
NGC 851	02h 12m 08.4s	+03° 51' 50"	13.5	Galaxy	0.008x0.005	Cetus	
IC 156	01h 46m 26.5s	+10° 38' 35"	13.5	Galaxy	0.0125x0.01	Pisces	
IC 197	02h 05m 00.9s	+02° 52' 21"	13.5	Galaxy	0.008x0.004	Pisces	
IC 225	02h 27m 23.9s	+01° 14' 28"	13.5	Galaxy	0.008x0.007	Cetus	
NGC 1008	02h 38m 51.1s	+02° 09' 27"	13.6	Galaxy	0.006x0.005	Cetus	
NGC 6834	01h 50m 44.3s	+11° 47' 27"	13.6	Galaxy	0.008x0.008	Aries	
NGC 993	02h 37m 41.9s	+02° 07' 40"	13.6	Galaxy	0.007x0.006	Cetus	
IC 1749	01h 57m 07.7s	+06° 49' 59"	13.6	Galaxy	0.007x0.005	Pisces	

Table 101: Main objects visible on chart 94 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1772	02h 03m 39.8s	+07° 49' 54"	13.6	Galaxy	0.005x0.005	Pisces	
IC 231	02h 30m 52.0s	+01° 15' 32"	13.6	Galaxy	0.008x0.006	Cetus	
NGC 6520	01h 41m 40.0s	+08° 04' 26"	13.7	Galaxy	0.008x0.005	Pisces	
IC 182	02h 00m 48.6s	+07° 29' 56"	13.7	Galaxy	0.007x0.005	Pisces	
IC 1827	02h 40m 42.2s	+01° 38' 06"	13.7	Galaxy	0.009x0.001	Cetus	
NGC 6383	01h 40m 34.5s	+07° 19' 41"	13.8	Galaxy	0.006x0.004	Pisces	
IC 161	01h 49m 41.2s	+10° 35' 51"	13.8	Galaxy	0.006x0.005	Pisces	
IC 1726	01h 46m 15.8s	+04° 42' 32"	13.8	Galaxy	0.002x0.001	Pisces	
IC 1746	01h 55m 20.5s	+04° 53' 29"	13.8	Galaxy	0.011x0.004	Pisces	
IC 1770	02h 03m 11.9s	+10° 04' 01"	13.8	Galaxy	0.008x0.005	Pisces	
IC 1779	02h 07m 22.1s	+03° 47' 30"	13.8	Galaxy	0.003x0.002	Pisces	
IC 198	02h 07m 00.5s	+09° 22' 53"	13.8	Galaxy	0.009x0.005	Pisces	
NGC 868	02h 16m 53.7s	-00° 37' 47"	13.9	Galaxy	0.010x0.008	Cetus	
IC 138	01h 33m 57.2s	-00° 35' 52"	13.9	Galaxy	0.009x0.006	Cetus	
IC 150	01h 43m 53.7s	+04° 17' 22"	13.9	Galaxy	0.008x0.004	Pisces	
IC 1825	02h 39m 53.3s	+09° 10' 26"	13.9	Galaxy	0.01x0.006	Cetus	
IC 154	01h 46m 13.6s	+10° 44' 22"	14.0	Galaxy	0.012x0.001	Pisces	
IC 1715	01h 34m 31.9s	+12° 40' 39"	14.0	Galaxy	0.005x0.004	Pisces	
IC 172	01h 55m 49.7s	+00° 53' 58"	14.0	Galaxy	0.003x0.002	Cetus	
IC 173	01h 56m 52.7s	+01° 22' 20"	14.0	Galaxy	0.007x0.005	Cetus	
IC 1819	02h 36m 38.2s	+04° 07' 48"	14.0	Galaxy	0.013x0.005	Cetus	
IC 1834	02h 43m 44.2s	+03° 09' 35"	14.0	Galaxy	0.007x0.006	Cetus	
IC 199	02h 07m 16.8s	+09° 18' 45"	14.0	Galaxy	0.011x0.006	Pisces	
NGC 1020	02h 39m 40.3s	+02° 18' 29"	14.1	Galaxy	0.006x0.001	Cetus	
IC 844	02h 11m 11.0s	+06° 08' 04"	14.1	Galaxy	0.003x0.003	Cetus	
NGC 1021	02h 39m 43.9s	+02° 17' 39"	14.2	Galaxy	0.005x0.004	Cetus	
IC 1771	02h 03m 13.3s	+10° 03' 17"	14.2	Galaxy	0.004x0.004	Pisces	
IC 214	02h 15m 02.3s	+05° 15' 34"	14.2	Galaxy	0.005x0.005	Cetus	
IC 233	02h 32m 36.8s	+02° 53' 22"	14.2	Galaxy	0.003x0.002	Cetus	
NGC 7424	01h 57m 20.6s	+05° 42' 48"	14.3	Galaxy	0.002x0.002	Pisces	
IC 175	01h 57m 14.4s	+01° 25' 12"	14.3	Galaxy	0.003x0.003	Cetus	
IC 1820	02h 36m 49.7s	+06° 07' 07"	14.3	Galaxy	0.004x0.001	Cetus	
IC 202	02h 08m 26.0s	+09° 15' 13"	14.3	Galaxy	0.011x0.001	Cetus	
IC 246	02h 41m 24.5s	+02° 33' 20"	14.3	Galaxy	0.006x0.004	Cetus	
NGC 1009	02h 39m 14.9s	+02° 23' 14"	14.4	Galaxy	0.011x0.001	Cetus	
IC 1761	01h 59m 47.7s	+00° 39' 21"	14.4	Galaxy	0.007x0.004	Cetus	
IC 1786	02h 17m 02.1s	+05° 13' 45"	14.4	Galaxy	0.003x0.001	Cetus	
IC 1844	02h 46m 45.5s	+03° 18' 20"	14.4	Galaxy	0.006x0.002	Cetus	
IC 1849	02h 48m 42.7s	+09° 25' 52"	14.4	Galaxy	0.007x0.005	Cetus	
IC 194	02h 04m 01.0s	+02° 41' 60"	14.4	Galaxy	0.012x0.001	Pisces	
IC 831	02h 10m 31.2s	+06° 10' 52"	14.5	Galaxy	0.003x0.002	Cetus	
IC 1754	01h 57m 46.0s	+04° 06' 49"	14.5	Galaxy	0.006x0.006	Pisces	
IC 1781	02h 07m 48.0s	-00° 25' 59"	14.5	Galaxy	0.003x0.003	Cetus	
IC 1842	02h 46m 22.0s	+11° 32' 02"	14.5	Galaxy	0.009x0.002	Aries	
IC 222	02h 23m 46.2s	+11° 43' 12"	14.5	Galaxy	0.006x0.004	Aries	
IC 234	02h 32m 33.0s	-00° 03' 38"	14.5	Galaxy	0.005x0.001	Cetus	

Table 101: Main objects visible on chart 94 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1750	01h 57m 14.9s	+04° 09' 50"	14.6	Galaxy	0.007x0.001	Pisces	
IC 1756	01h 58m 00.5s	-00° 22' 52"	14.6	Galaxy	0.011x0.001	Cetus	
IC 177	01h 57m 55.9s	-00° 00' 07"	14.6	Galaxy	0.003x0.002	Cetus	
IC 998-1	02h 38m 13.8s	+07° 24' 48"	14.7	Galaxy	0.006x0.004	Cetus	IC 998-1
IC 1817-1	02h 34m 47.8s	+11° 16' 54"	14.7	Galaxy	0.003x0.001	Aries	IC 1817-1
IC 237	02h 34m 27.3s	+01° 13' 05"	14.7	Galaxy	0.004x0.004	Cetus	
IC 1028	02h 40m 35.4s	+10° 55' 12"	14.8	Galaxy	0.007x0.002	Aries	
IC 244	02h 40m 20.8s	+02° 48' 15"	14.8	Galaxy	0.005x0.003	Cetus	
IC 145	01h 39m 34.0s	+00° 49' 57"	14.9	Galaxy	0.005x0.003	Cetus	
IC 1790	02h 18m 36.3s	+12° 35' 30"	14.9	Galaxy	0.008x0.002	Aries	
IC 218	02h 18m 02.9s	+01° 21' 55"	14.9	Galaxy	0.006x0.001	Cetus	
NGC 1043	02h 41m 42.2s	+01° 25' 10"	15.0	Galaxy	0.007x0.001	Cetus	
IC 1007	02h 38m 48.1s	+02° 13' 58"	15.5	Galaxy	0.005x0.001	Cetus	
IC 1836	02h 44m 19.5s	+03° 10' 50"	15.5	Galaxy	0.004x0.004	Cetus	
IC 1757	01h 58m 06.8s	-00° 23' 11"	15.7	Galaxy	0.005x0.001	Cetus	
IC 1817-2	02h 34m 49.1s	+11° 16' 52"	15.8	Galaxy	0.005x0.003	Aries	IC 1817-2
IC 201	02h 08m 12.6s	+09° 12' 02"	16.0	Galaxy	0.005x0.005	Cetus	
IC 236	02h 33m 51.1s	-00° 03' 08"	16.0	Galaxy	0.005x0.002	Cetus	

7.96 Main objects visible on chart 95

Table 102: Main objects visible on chart 95

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1068	02h 43m 36.2s	+00° 03' 47"	8.9	Galaxy	0.059x0.05	Cetus	M77, Cetus A
NGC 1055	02h 42m 40.8s	+00° 31' 08"	10.6	Galaxy	0.063x0.022	Cetus	
NGC 1087	02h 47m 20.4s	-00° 25' 28"	10.9	Galaxy	0.032x0.019	Cetus	
NGC 1073	02h 44m 36.0s	+01° 27' 06"	11.0	Galaxy	0.040x0.035	Cetus	
NGC 1016	02h 39m 15.5s	+02° 11' 47"	11.6	Galaxy	0.016x0.016	Cetus	
NGC 1032	02h 40m 19.3s	+01° 10' 15"	11.6	Galaxy	0.028x0.009	Cetus	
NGC 1090	02h 47m 29.3s	-00° 10' 23"	11.8	Galaxy	0.032x0.015	Cetus	
NGC 1070	02h 44m 18.7s	+05° 02' 39"	11.9	Galaxy	0.019x0.015	Cetus	
NGC 1024	02h 40m 10.1s	+10° 55' 29"	12.1	Galaxy	0.032x0.012	Aries	
NGC 1107	02h 50m 17.2s	+08° 10' 02"	12.2	Galaxy	0.015x0.012	Cetus	
NGC 1211	03h 07m 47.5s	-00° 43' 32"	12.3	Galaxy	0.017x0.015	Cetus	
NGC 1085	02h 47m 21.6s	+03° 40' 57"	12.4	Galaxy	0.015x0.010	Cetus	
NGC 1137	02h 54m 58.9s	+03° 02' 04"	12.4	Galaxy	0.018x0.010	Cetus	
NGC 1153	02h 59m 06.6s	+03° 25' 60"	12.4	Galaxy	0.01x0.005	Cetus	
NGC 1094	02h 48m 23.1s	-00° 12' 39"	12.5	Galaxy	0.010x0.008	Cetus	
NGC 990	02h 37m 16.6s	+11° 43' 12"	12.5	Galaxy	0.015x0.012	Aries	
NGC 1026	02h 40m 16.3s	+06° 37' 17"	12.6	Galaxy	0.014x0.010	Cetus	
NGC 1218	03h 09m 22.7s	+04° 10' 46"	12.6	Galaxy	0.010x0.008	Cetus	
NGC 1004	02h 38m 37.6s	+02° 03' 10"	12.7	Galaxy	0.011x0.01	Cetus	
IC 302	03h 13m 48.1s	+04° 46' 23"	12.8	Galaxy	0.015x0.012	Cetus	
NGC 1101	02h 49m 11.4s	+04° 39' 10"	13.0	Galaxy	0.010x0.008	Cetus	

Table 102: Main objects visible on chart 95 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1142	02h 56m 07.5s	-00° 06' 42"	13.0	Galaxy	0.007x0.004	Cetus	
NGC 1219	03h 09m 24.1s	+02° 10' 34"	13.0	Galaxy	0.008x0.006	Cetus	
NGC 1141	02h 56m 05.0s	-00° 06' 21"	13.1	Galaxy	0.007x0.005	Cetus	
NGC 1349	03h 32m 24.2s	+04° 26' 30"	13.1	Galaxy	0.006x0.006	Taurus	
IC 1843	02h 46m 21.1s	+02° 57' 20"	13.1	Galaxy	0.009x0.005	Cetus	
IC 277	03h 00m 46.7s	+02° 50' 31"	13.1	Galaxy	0.010x0.007	Cetus	
IC 1029	02h 40m 34.7s	+10° 52' 12"	13.2	Galaxy	0.011x0.003	Aries	
NGC 1044	02h 42m 03.9s	+08° 48' 54"	13.2	Galaxy	0.004x0.004	Cetus	
NGC 1046	02h 42m 10.6s	+08° 47' 47"	13.2	Galaxy	0.003x0.003	Cetus	
NGC 1095	02h 48m 34.4s	+04° 42' 45"	13.3	Galaxy	0.010x0.006	Cetus	
IC 307	03h 14m 40.5s	-00° 10' 29"	13.3	Galaxy	0.014x0.006	Cetus	
NGC 1038	02h 41m 02.1s	+01° 35' 10"	13.4	Galaxy	0.01x0.003	Cetus	
NGC 1072	02h 44m 26.7s	+00° 22' 57"	13.4	Galaxy	0.012x0.004	Cetus	
NGC 1280	03h 18m 52.3s	-00° 06' 14"	13.4	Galaxy	0.007x0.006	Cetus	
NGC 997	02h 38m 11.7s	+07° 23' 01"	13.4	Galaxy	0.009x0.009	Cetus	
IC 241	02h 38m 50.4s	+02° 24' 18"	13.4	Galaxy	0.009x0.005	Cetus	
IC 273	02h 58m 06.9s	+02° 50' 52"	13.4	Galaxy	0.012x0.004	Cetus	
NGC 1019	02h 39m 23.3s	+01° 59' 06"	13.5	Galaxy	0.008x0.007	Cetus	
IC 1856	02h 49m 45.9s	-00° 41' 35"	13.5	Galaxy	0.009x0.005	Cetus	
NGC 1008	02h 38m 51.1s	+02° 09' 27"	13.6	Galaxy	0.006x0.005	Cetus	
NGC 1104	02h 49m 34.0s	-00° 11' 50"	13.6	Galaxy	0.01x0.0075	Cetus	
NGC 993	02h 37m 41.9s	+02° 07' 40"	13.6	Galaxy	0.007x0.006	Cetus	
IC 1827	02h 40m 42.2s	+01° 38' 06"	13.7	Galaxy	0.009x0.001	Cetus	
IC 332	03h 33m 33.2s	+01° 26' 35"	13.7	Galaxy	0.007x0.004	Taurus	
NGC 1474	03h 55m 29.6s	+10° 45' 32"	13.8	Galaxy	0.009x0.008	Taurus	
IC 338	03h 38m 34.5s	+03° 10' 35"	13.8	Galaxy	0.006x0.005	Taurus	
IC 1825	02h 39m 53.3s	+09° 10' 26"	13.9	Galaxy	0.01x0.006	Cetus	
IC 1865	02h 56m 18.0s	+08° 54' 01"	13.9	Galaxy	0.012x0.009	Taurus	
IC 331	03h 33m 14.5s	+00° 20' 34"	13.9	Galaxy	0.007x0.007	Taurus	
IC 1149	02h 58m 19.1s	-00° 14' 15"	14.0	Galaxy	0.005x0.004	Cetus	
NGC 1166	03h 01m 33.8s	+11° 54' 48"	14.0	Galaxy	0.008x0.008	Aries	
IC 1834	02h 43m 44.2s	+03° 09' 35"	14.0	Galaxy	0.007x0.006	Cetus	
IC 1882	03h 08m 45.8s	+03° 12' 56"	14.0	Galaxy	0.007x0.004	Cetus	
NGC 1020	02h 39m 40.3s	+02° 18' 29"	14.1	Galaxy	0.006x0.001	Cetus	
IC 1254	03h 15m 20.0s	+02° 44' 38"	14.1	Galaxy	0.006x0.005	Cetus	
NGC 1431	03h 45m 37.1s	+02° 53' 28"	14.1	Galaxy	0.008x0.006	Taurus	
IC 1867	02h 56m 50.3s	+09° 23' 03"	14.1	Galaxy	0.0125x0.01	Cetus	
IC 1918	03h 27m 14.7s	+04° 36' 14"	14.1	Galaxy	0.003x0.001	Taurus	
IC 263	02h 50m 35.2s	+00° 00' 15"	14.1	Galaxy	0.005x0.003	Cetus	
IC 330	03h 33m 03.4s	+00° 24' 48"	14.1	Galaxy	0.01x0.0025	Taurus	
NGC 1021	02h 39m 43.9s	+02° 17' 39"	14.2	Galaxy	0.005x0.004	Cetus	
NGC 1168	03h 01m 45.9s	+11° 50' 34"	14.2	Galaxy	0.009x0.005	Aries	
IC 315	03h 20m 06.0s	+04° 06' 13"	14.2	Galaxy	0.005x0.002	Cetus	
IC 1873-1	03h 04m 51.1s	+09° 41' 00"	14.3	Galaxy	0.009x0.005	Cetus	IC 1873-1
IC 246	02h 41m 24.5s	+02° 33' 20"	14.3	Galaxy	0.006x0.004	Cetus	
IC 329	03h 32m 56.8s	+00° 20' 25"	14.3	Galaxy	0.007x0.003	Taurus	

Table 102: Main objects visible on chart 95 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1009	02h 39m 14.9s	+02° 23' 14"	14.4	Galaxy	0.011x0.001	Cetus	
NGC 1462	03h 51m 21.2s	+07° 01' 36"	14.4	Galaxy	0.007x0.004	Taurus	
IC 1844	02h 46m 45.5s	+03° 18' 20"	14.4	Galaxy	0.006x0.002	Cetus	
IC 1849	02h 48m 42.7s	+09° 25' 52"	14.4	Galaxy	0.007x0.005	Cetus	
IC 1869	02h 59m 08.8s	+05° 54' 29"	14.4	Galaxy	0.005x0.001	Cetus	
IC 1998	03h 52m 27.0s	+01° 14' 36"	14.4	Galaxy	0.007x0.005	Taurus	
NGC 1128-1	02h 58m 38.6s	+06° 05' 53"	14.5	Galaxy	0.004x0.004	Cetus	1128-1
NGC 1128-2	02h 58m 38.7s	+06° 05' 38"	14.5	Galaxy	0.004x0.004	Cetus	1128-2
IC 1842	02h 46m 22.0s	+11° 32' 02"	14.5	Galaxy	0.009x0.002	Aries	
IC 1956	03h 36m 30.3s	+05° 07' 34"	14.6	Galaxy	0.013x0.002	Taurus	
IC 298	03h 12m 14.1s	+01° 22' 59"	14.6	Galaxy	0.006x0.005	Cetus	
IC 322	03h 26m 57.1s	+03° 44' 33"	14.6	Galaxy	0.007x0.006	Taurus	
IC 998-1	02h 38m 13.8s	+07° 24' 48"	14.7	Galaxy	0.006x0.004	Cetus	IC 998-1
IC 1863	02h 55m 48.6s	+08° 51' 26"	14.7	Galaxy	0.003x0.003	Cetus	
IC 1931	03h 29m 53.7s	+01° 48' 42"	14.7	Galaxy	0.006x0.006	Taurus	
IC 264	02h 49m 43.0s	-00° 02' 04"	14.7	Galaxy	0.003x0.002	Cetus	
IC 1028	02h 40m 35.4s	+10° 55' 12"	14.8	Galaxy	0.007x0.002	Aries	
IC 1236	03h 12m 26.7s	+10° 52' 33"	14.8	Galaxy	0.007x0.005	Aries	
IC 244	02h 40m 20.8s	+02° 48' 15"	14.8	Galaxy	0.005x0.003	Cetus	
IC 283	03h 04m 45.8s	-00° 08' 06"	14.9	Galaxy	0.005x0.003	Cetus	
IC 298A	03h 12m 15.3s	+01° 22' 50"	14.9	Galaxy	0.005x0.001	Cetus	IC 298A
NGC 1043	02h 41m 42.2s	+01° 25' 10"	15.0	Galaxy	0.007x0.001	Cetus	
IC 1930	03h 29m 42.9s	+04° 26' 43"	15.0	Galaxy	0.003x0.002	Taurus	
IC 1967	03h 38m 44.3s	+03° 19' 42"	15.0	Galaxy	0.007x0.003	Taurus	
IC 1868	02h 57m 03.9s	+09° 27' 05"	15.1	Galaxy	0.003x0.002	Cetus	
IC 1007	02h 38m 48.1s	+02° 13' 58"	15.5	Galaxy	0.005x0.001	Cetus	
IC 1836	02h 44m 19.5s	+03° 10' 50"	15.5	Galaxy	0.004x0.004	Cetus	
IC 1873-2	03h 04m 50.7s	+09° 40' 47"	16.0	Galaxy	0.001x0.001	Cetus	IC 1873-2

7.97 Main objects visible on chart 96

Table 103: Main objects visible on chart 96

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel25	04h 28m 01.7s	+16° 02' 22"	1.0	Open cluster	2.75x2.75	Taurus	CALDWELL 41, Hyades Cluster
NGC 1662	04h 49m 26.8s	+10° 57' 38"	6.4	Open cluster	0.1x0.1	Orion	
NGC 1587	04h 31m 35.6s	+00° 42' 01"	11.7	Galaxy	0.014x0.011	Taurus	
NGC 1589	04h 31m 41.1s	+00° 54' 04"	11.8	Galaxy	0.026x0.008	Taurus	
NGC 1551	04h 20m 34.4s	+02° 27' 06"	12.0	Galaxy	0.018x0.015	Taurus	
NGC 1691	04h 55m 35.0s	+03° 17' 45"	12.0	Galaxy	0.019x0.015	Orion	
NGC 1620	04h 37m 32.5s	-00° 06' 31"	12.3	Galaxy	0.024x0.008	Eridanus	
NGC 1635	04h 41m 03.0s	-00° 30' 47"	12.4	Galaxy	0.011x0.010	Eridanus	
NGC 1642	04h 43m 50.5s	+00° 39' 06"	12.6	Galaxy	0.014x0.01	Taurus	
NGC 1713	04h 59m 49.9s	-00° 27' 45"	12.7	Galaxy	0.011x0.01	Orion	
IC 392	04h 47m 22.6s	+03° 32' 13"	12.7	Galaxy	0.008x0.006	Orion	

Table 103: Main objects visible on chart 96 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1552	04h 21m 12.7s	-00° 39' 02"	12.9	Galaxy	0.015x0.01	Eridanus	
NGC 1588	04h 31m 39.3s	+00° 42' 11"	12.9	Galaxy	0.009x0.005	Taurus	
NGC 1671	04h 50m 29.3s	+00° 17' 00"	12.9	Galaxy	0.007x0.005	Orion	
NGC 1586	04h 31m 33.4s	-00° 16' 03"	13.2	Galaxy	0.014x0.007	Eridanus	
NGC 1517	04h 10m 10.5s	+08° 41' 43"	13.4	Galaxy	0.009x0.008	Taurus	
NGC 1593	04h 33m 01.7s	+00° 36' 18"	13.4	Galaxy	0.013x0.005	Taurus	
IC 1633	04h 41m 07.4s	+07° 23' 01"	13.5	Galaxy	0.008x0.007	Taurus	
NGC 1541	04h 17m 55.9s	+00° 52' 43"	13.6	Galaxy	0.010x0.004	Taurus	
IC 1590	04h 32m 08.5s	+07° 40' 07"	13.7	Galaxy	0.007x0.005	Taurus	
NGC 1474	03h 55m 29.6s	+10° 45' 32"	13.8	Galaxy	0.009x0.008	Taurus	
IC 364	04h 20m 03.2s	+03° 13' 55"	13.8	Galaxy	0.003x0.001	Taurus	
NGC 1542	04h 18m 11.3s	+04° 49' 31"	13.9	Galaxy	0.010x0.004	Taurus	
IC 365	04h 20m 10.8s	+03° 23' 29"	13.9	Galaxy	0.008x0.005	Taurus	
NGC 1568A	04h 25m 15.7s	-00° 41' 51"	14.0	Galaxy	0.004x0.003	Eridanus	1568A
NGC 1431	03h 45m 37.1s	+02° 53' 28"	14.1	Galaxy	0.008x0.006	Taurus	
NGC 1634	04h 41m 08.1s	+07° 22' 22"	14.1	Galaxy	0.003x0.002	Taurus	
NGC 1717	04h 59m 39.2s	-00° 27' 05"	14.2	Galaxy	0.007x0.005	Orion	
IC 1690	04h 55m 15.3s	+01° 40' 07"	14.3	Galaxy	0.008x0.008	Orion	
NGC 1462	03h 51m 21.2s	+07° 01' 36"	14.4	Galaxy	0.007x0.004	Taurus	
IC 1998	03h 52m 27.0s	+01° 14' 36"	14.4	Galaxy	0.007x0.005	Taurus	
IC 2057	04h 22m 52.9s	+04° 05' 22"	14.4	Galaxy	0.005x0.005	Taurus	
IC 363	04h 19m 51.7s	+03° 04' 29"	14.4	Galaxy	0.001x0.001	Taurus	
IC 2019-1	04h 02m 51.1s	+05° 41' 18"	14.5	Galaxy	0.006x0.003	Taurus	IC 2019-1
IC 2019-2	04h 02m 50.1s	+05° 41' 07"	14.5	Galaxy	0.002x0.001	Taurus	IC 2019-2
IC 366	04h 20m 37.8s	+02° 24' 09"	14.7	Galaxy	0.002x0.001	Taurus	
IC 383	04h 39m 57.3s	+09° 55' 37"	14.8	Galaxy	0.003x0.003	Taurus	
NGC 1568B	04h 25m 20.4s	-00° 42' 21"	15.1	Galaxy	0.009x0.006	Eridanus	1568B

7.98 Main objects visible on chart 97

Table 104: Main objects visible on chart 97

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Cr70	05h 36m 54.9s	-01° 05' 23"	0.6	Open cluster	1.25x0.583	Orion	
NGC 1662	04h 49m 26.8s	+10° 57' 38"	6.4	Open cluster	0.1x0.1	Orion	
NGC 2112	05h 54m 40.7s	+00° 24' 48"	9.1	Open cluster	0.15x0.15	Orion	
NGC 2141	06h 03m 54.8s	+10° 26' 42"	9.4	Open cluster	0.083x0.083	Orion	
NGC 2143	06h 04m 05.2s	+05° 43' 36"	11.0	Open cluster	0.091x0.091	Orion	
NGC 2022	05h 43m 05.4s	+09° 05' 39"	11.6	Planetary Nebula	0.005x0.005	Orion	
NGC 1691	04h 55m 35.0s	+03° 17' 45"	12.0	Galaxy	0.019x0.015	Orion	
NGC 1819	05h 12m 43.5s	+05° 13' 18"	12.5	Galaxy	0.010x0.008	Orion	
NGC 1762	05h 04m 33.0s	+01° 35' 51"	12.6	Galaxy	0.014x0.009	Orion	
NGC 1713	04h 59m 49.9s	-00° 27' 45"	12.7	Galaxy	0.011x0.01	Orion	
NGC 1671	04h 50m 29.3s	+00° 17' 00"	12.9	Galaxy	0.007x0.005	Orion	
IC 1719	05h 00m 29.8s	-00° 14' 05"	13.6	Galaxy	0.009x0.002	Orion	

Table 104: Main objects visible on chart 97 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1875	05h 22m 43.8s	+06° 42' 19"	13.7	Galaxy	0.006x0.005	Orion	
IC 412	05h 22m 53.5s	+03° 30' 10"	13.7	Galaxy	0.010x0.005	Orion	
IC 413	05h 22m 55.5s	+03° 29' 55"	13.8	Galaxy	0.007x0.005	Orion	
IC 409	05h 20m 30.2s	+03° 20' 05"	13.9	Galaxy	0.005x0.004	Orion	
IC 2119	05h 58m 27.3s	+11° 56' 59"	14.0	Galaxy	0.01x0.008	Orion	
IC 414	05h 22m 51.7s	+03° 21' 34"	14.0	Galaxy	0.004x0.002	Orion	
NGC 1717	04h 59m 39.2s	-00° 27' 05"	14.2	Galaxy	0.007x0.005	Orion	
IC 2112	05h 01m 27.1s	+04° 24' 43"	14.2	Galaxy	0.004x0.001	Orion	
IC 1690	04h 55m 15.3s	+01° 40' 07"	14.3	Galaxy	0.008x0.008	Orion	
IC 404	05h 14m 19.0s	+09° 46' 29"	14.6	Galaxy	0.004x0.003	Orion	
NGC 2068	05h 47m 40.4s	+00° 05' 08"	-	Nebula	0.066x0.05	Orion	M78

7.99 Main objects visible on chart 98

Table 105: Main objects visible on chart 98

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2264	06h 41m 57.7s	+09° 52' 39"	4.1	Open cluster	0.333x0.333	Monoceros	Christmas Tree cluster
NGC 2244	06h 32m 52.4s	+04° 55' 39"	4.8	Open cluster	0.2x0.2	Monoceros	CALDWELL 50
NGC 2301	06h 52m 40.7s	+00° 26' 12"	6.0	Open cluster	0.125x0.125	Monoceros	
NGC 2251	06h 35m 37.2s	+08° 21' 04"	7.3	Open cluster	0.083x0.083	Monoceros	
NGC 2252	06h 36m 08.6s	+05° 24' 17"	7.7	Open cluster	0.15x0.15	Monoceros	
NGC 2324	07h 05m 03.7s	+01° 01' 01"	8.4	Open cluster	0.066x0.066	Monoceros	
NGC 2180	06h 10m 33.5s	+04° 42' 28"	8.5	Open cluster	0.05x0.05	Orion	
NGC 2194	06h 14m 46.7s	+12° 48' 02"	8.5	Open cluster	0.075x0.075	Orion	
NGC 2236	06h 30m 37.8s	+06° 49' 04"	8.5	Open cluster	0.066x0.066	Monoceros	
NGC 2186	06h 13m 04.7s	+05° 27' 11"	8.7	Open cluster	0.041x0.041	Orion	
NGC 2270	06h 44m 54.5s	+03° 27' 35"	9.0	Open cluster	0.166x0.166	Monoceros	
NGC 2112	05h 54m 40.7s	+00° 24' 48"	9.1	Open cluster	0.15x0.15	Orion	
NGC 2254	06h 36m 45.1s	+07° 39' 18"	9.1	Open cluster	0.05x0.05	Monoceros	
Cr96	06h 30m 56.5s	+02° 51' 12"	9.1	Open cluster	0.066x0.066	Monoceros	
NGC 2141	06h 03m 54.8s	+10° 26' 42"	9.4	Open cluster	0.083x0.083	Orion	
NGC 2202	06h 17m 48.6s	+05° 59' 21"	10.0	Open cluster	0.058x0.058	Orion	
NGC 2269	06h 44m 14.3s	+04° 36' 20"	10.0	Open cluster	0.025x0.025	Monoceros	
NGC 2259	06h 39m 33.2s	+10° 51' 56"	10.8	Open cluster	0.029x0.029	Monoceros	
NGC 2143	06h 04m 05.2s	+05° 43' 36"	11.0	Open cluster	0.091x0.091	Orion	
NGC 2262	06h 40m 34.5s	+01° 07' 27"	11.3	Open cluster	0.033x0.033	Monoceros	
NGC 2346	07h 10m 17.5s	-00° 50' 10"	11.6	Planetary Nebula	0.007x0.007	Monoceros	Butterfly nebula
IC 2119	05h 58m 27.3s	+11° 56' 59"	14.0	Galaxy	0.01x0.008	Orion	
NGC 2237	06h 31m 52.1s	+05° 02' 03"	-	Nebula	0.666x0.416	Monoceros	CALDWELL 49, Rosette nebula
NGC 2261	06h 40m 08.5s	+08° 43' 38"	-	Nebula	0.025x0.008	Monoceros	CALDWELL 46, Hubble's variable nebula

7.100 Main objects visible on chart 99

Table 106: Main objects visible on chart 99

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2324	07h 05m 03.7s	+01° 01' 01"	8.4	Open cluster	0.066x0.066	Monoceros	
NGC 2346	07h 10m 17.5s	-00° 50' 10"	11.6	Planetary Nebula	0.007x0.007	Monoceros	Butterfly nebula
NGC 2513	08h 03m 23.5s	+09° 21' 46"	11.6	Galaxy	0.020x0.016	Cancer	
NGC 2459	07h 53m 00.6s	+09° 30' 39"	12.0	Open cluster	0.012x0.012	Canis Minor	
NGC 2485	07h 57m 46.8s	+07° 25' 42"	12.2	Galaxy	0.013x0.011	Canis Minor	
NGC 2350	07h 14m 12.4s	+12° 14' 05"	12.3	Galaxy	0.011x0.005	Canis Minor	
NGC 2538	08h 12m 19.6s	+03° 34' 43"	12.6	Galaxy	0.0125x0.01	Canis Minor	
NGC 2470	07h 55m 17.4s	+04° 24' 43"	12.7	Galaxy	0.016x0.005	Canis Minor	
NGC 2508	08h 02m 55.6s	+08° 30' 03"	12.7	Galaxy	0.011x0.009	Canis Minor	
NGC 2496	07h 59m 35.7s	+07° 58' 42"	12.9	Galaxy	0.009x0.007	Canis Minor	
NGC 2494	08h 00m 02.3s	-00° 41' 15"	13.1	Galaxy	0.007x0.005	Monoceros	
IC 494	08h 07m 20.0s	+00° 59' 02"	13.1	Galaxy	0.010x0.005	Canis Minor	
NGC 2504	08h 00m 49.6s	+05° 33' 27"	13.3	Galaxy	0.004x0.003	Canis Minor	
NGC 2416	07h 36m 41.3s	+11° 34' 18"	13.4	Galaxy	0.008x0.005	Canis Minor	
IC 2510	08h 03m 09.3s	+09° 26' 06"	13.4	Galaxy	0.008x0.005	Canis Minor	
IC 2226	08h 07m 11.0s	+12° 29' 30"	13.4	Galaxy	0.007x0.005	Cancer	
IC 2526	08h 07m 56.6s	+07° 57' 05"	13.8	Galaxy	0.01x0.005	Cancer	
IC 498	08h 10m 27.5s	+05° 13' 36"	13.8	Galaxy	0.007x0.006	Canis Minor	
NGC 2402-1	07h 31m 45.6s	+09° 36' 31"	13.9	Galaxy	0.006x0.006	Canis Minor	2402-1
NGC 2499	07h 59m 49.8s	+07° 26' 35"	14.0	Galaxy	0.006x0.004	Canis Minor	
IC 2231	08h 11m 58.5s	+05° 01' 59"	14.0	Galaxy	0.008x0.008	Canis Minor	
IC 495	08h 09m 18.0s	+08° 57' 40"	14.1	Galaxy	0.003x0.003	Cancer	
IC 2511	08h 03m 13.8s	+09° 20' 39"	14.2	Galaxy	0.007x0.002	Canis Minor	
IC 2491	07h 59m 25.6s	+07° 56' 05"	14.8	Galaxy	0.002x0.001	Canis Minor	
NGC 2402-2	07h 31m 46.9s	+09° 36' 54"	15.2	Galaxy	0.005x0.004	Canis Minor	2402-2

7.101 Main objects visible on chart 100

Table 107: Main objects visible on chart 100

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2682	08h 52m 17.0s	+11° 44' 54"	6.9	Open cluster	0.208x0.208	Cancer	M67
NGC 2775	09h 11m 17.4s	+06° 57' 47"	10.1	Galaxy	0.035x0.027	Cancer	CALDWELL 48
NGC 2713	08h 58m 16.8s	+02° 51' 04"	11.8	Galaxy	0.03x0.0125	Hydra	
NGC 2716	08h 58m 32.1s	+03° 01' 12"	11.8	Galaxy	0.010x0.008	Hydra	
NGC 2718	08h 59m 47.5s	+06° 13' 24"	11.8	Galaxy	0.017x0.017	Hydra	
NGC 2618	08h 36m 49.1s	+00° 38' 41"	12.1	Galaxy	0.020x0.016	Hydra	
NGC 2765	09h 08m 32.8s	+03° 19' 10"	12.1	Galaxy	0.017x0.009	Hydra	
NGC 2555	08h 18m 51.9s	+00° 41' 17"	12.2	Galaxy	0.015x0.011	Hydra	
NGC 2644	08h 42m 28.9s	+04° 54' 57"	12.4	Galaxy	0.017x0.006	Hydra	
NGC 2538	08h 12m 19.6s	+03° 34' 43"	12.6	Galaxy	0.0125x0.01	Canis Minor	
NGC 2661	08h 46m 58.9s	+12° 33' 11"	12.8	Galaxy	0.011x0.010	Cancer	

Table 107: Main objects visible on chart 100 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2720	09h 00m 06.7s	+11° 04' 44"	12.8	Galaxy	0.009x0.009	Cancer	
NGC 2657	08h 46m 14.2s	+09° 34' 46"	13.0	Galaxy	0.008x0.007	Cancer	
NGC 2664	08h 48m 09.7s	+12° 32' 12"	13.0	Open cluster	0.041x0.041	Cancer	
IC 503	08h 23m 07.1s	+03° 12' 37"	13.0	Galaxy	0.009x0.008	Hydra	
IC 504	08h 23m 38.0s	+04° 12' 12"	13.0	Galaxy	0.01x0.006	Hydra	
NGC 2590	08h 25m 57.1s	-00° 39' 02"	13.1	Galaxy	0.018x0.005	Hydra	
IC 494	08h 07m 20.0s	+00° 59' 02"	13.1	Galaxy	0.010x0.005	Canis Minor	
IC 523	08h 54m 09.4s	+09° 04' 46"	13.1	Galaxy	0.007x0.005	Cancer	
IC 530	09h 16m 15.8s	+11° 48' 38"	13.1	Galaxy	0.015x0.005	Cancer	
NGC 2561	08h 20m 33.6s	+04° 35' 57"	13.2	Galaxy	0.009x0.005	Hydra	
NGC 2723	09h 01m 10.6s	+03° 06' 26"	13.2	Galaxy	0.006x0.006	Hydra	
NGC 2777	09h 11m 39.2s	+07° 07' 59"	13.3	Galaxy	0.005x0.005	Cancer	
NGC 2786	09h 14m 34.4s	+12° 21' 56"	13.3	Galaxy	0.007x0.005	Cancer	
IC 2327	08h 22m 24.4s	+03° 06' 39"	13.3	Galaxy	0.011x0.003	Hydra	
NGC 2729	09h 02m 25.0s	+03° 38' 59"	13.4	Galaxy	0.006x0.004	Hydra	
IC 2226	08h 07m 11.0s	+12° 29' 30"	13.4	Galaxy	0.007x0.005	Cancer	
NGC 2725	09h 02m 01.9s	+11° 01' 34"	13.5	Galaxy	0.005x0.005	Cancer	
IC 531	09h 18m 46.1s	-00° 21' 16"	13.5	Galaxy	0.014x0.004	Hydra	
NGC 2728	09h 02m 39.5s	+11° 00' 43"	13.6	Galaxy	0.009x0.006	Cancer	
NGC 2731	09h 03m 06.0s	+08° 13' 44"	13.7	Galaxy	0.006x0.004	Cancer	
IC 2420	08h 52m 30.0s	+03° 01' 58"	13.7	Galaxy	0.005x0.005	Hydra	
IC 506	08h 24m 27.5s	+04° 14' 29"	13.7	Galaxy	0.005x0.005	Hydra	
IC 2526	08h 07m 56.6s	+07° 57' 05"	13.8	Galaxy	0.01x0.005	Cancer	
IC 498	08h 10m 27.5s	+05° 13' 36"	13.8	Galaxy	0.007x0.006	Canis Minor	
IC 2231	08h 11m 58.5s	+05° 01' 59"	14.0	Galaxy	0.008x0.008	Canis Minor	
IC 505	08h 24m 18.4s	+04° 18' 51"	14.0	Galaxy	0.01x0.0075	Hydra	
IC 519	08h 41m 30.6s	+02° 32' 50"	14.0	Galaxy	0.003x0.003	Hydra	
NGC 2773	09h 10m 41.5s	+07° 06' 01"	14.1	Galaxy	0.005x0.002	Cancer	
IC 495	08h 09m 18.0s	+08° 57' 40"	14.1	Galaxy	0.003x0.003	Cancer	
IC 521	08h 47m 40.3s	+02° 28' 18"	14.1	Galaxy	0.007x0.004	Hydra	
IC 534	09h 22m 11.8s	+03° 04' 23"	14.1	Galaxy	0.014x0.001	Hydra	
IC 526	09h 03m 39.3s	+10° 46' 13"	14.4	Galaxy	0.006x0.003	Cancer	
NGC 2651	08h 44m 54.2s	+11° 42' 19"	14.5	Galaxy	0.005x0.004	Cancer	
NGC 2678	08h 51m 01.6s	+11° 16' 15"	14.6	Open cluster	0.083x0.020	Cancer	
IC 2432	09h 05m 36.4s	+05° 26' 24"	14.6	Galaxy	0.004x0.001	Hydra	
IC 2426	08h 59m 26.6s	+02° 51' 20"	14.7	Galaxy	0.003x0.001	Hydra	
IC 502	08h 23m 02.0s	+08° 41' 41"	14.7	Galaxy	0.003x0.003	Cancer	

7.102 Main objects visible on chart 101

Table 108: Main objects visible on chart 101

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2775	09h 11m 17.4s	+06° 57' 47"	10.1	Galaxy	0.035x0.027	Cancer	CALDWELL 48
NGC 3169	10h 15m 10.7s	+03° 22' 38"	10.2	Galaxy	0.035x0.024	Sextans	

Table 108: Main objects visible on chart 101 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3166	10h 14m 41.5s	+03° 20' 10"	10.4	Galaxy	0.04x0.019	Sextans	
NGC 2911	09h 34m 44.4s	+10° 04' 20"	11.5	Galaxy	0.033x0.025	Leo	
NGC 2967	09h 42m 58.7s	+00° 15' 12"	11.6	Galaxy	0.025x0.023	Sextans	
NGC 2872	09h 26m 41.3s	+11° 21' 15"	11.9	Galaxy	0.017x0.015	Leo	
NGC 2962	09h 41m 50.6s	+05° 05' 00"	11.9	Galaxy	0.021x0.016	Hydra	
NGC 3020	09h 51m 04.8s	+12° 43' 44"	11.9	Galaxy	0.025x0.013	Leo	
NGC 3044	09h 54m 36.5s	+01° 29' 38"	11.9	Galaxy	0.039x0.005	Sextans	
NGC 3049	09h 55m 46.9s	+09° 11' 10"	12.1	Galaxy	0.018x0.012	Leo	
NGC 3055	09h 56m 14.1s	+04° 11' 01"	12.1	Galaxy	0.017x0.010	Sextans	
NGC 3023-1	09h 50m 48.1s	+00° 32' 03"	12.3	Galaxy	0.025x0.011	Sextans	3023-1
NGC 3070	09h 59m 04.5s	+10° 16' 26"	12.3	Galaxy	0.011x0.011	Leo	
NGC 3156	10h 13m 37.0s	+03° 02' 25"	12.3	Galaxy	0.015x0.007	Sextans	
NGC 2894	09h 30m 27.5s	+07° 38' 20"	12.4	Galaxy	0.015x0.008	Leo	
NGC 2939	09h 39m 05.6s	+09° 26' 31"	12.4	Galaxy	0.02x0.005	Leo	
NGC 2960	09h 41m 32.7s	+03° 29' 42"	12.4	Galaxy	0.011x0.008	Hydra	
NGC 2874	09h 26m 46.2s	+11° 20' 50"	12.5	Galaxy	0.018x0.005	Leo	
NGC 2858	09h 23m 51.1s	+03° 04' 47"	12.6	Galaxy	0.014x0.007	Hydra	
NGC 2882	09h 27m 33.3s	+07° 52' 32"	12.6	Galaxy	0.012x0.006	Leo	
NGC 3246	10h 27m 37.9s	+03° 46' 13"	12.6	Galaxy	0.02x0.011	Sextans	
NGC 2906	09h 33m 03.7s	+08° 21' 43"	12.7	Galaxy	0.011x0.007	Leo	
NGC 2966	09h 43m 07.9s	+04° 35' 27"	12.7	Galaxy	0.018x0.007	Sextans	
NGC 2990	09h 47m 14.0s	+05° 37' 31"	12.7	Galaxy	0.009x0.005	Sextans	
NGC 3153	10h 13m 48.3s	+12° 34' 38"	12.7	Galaxy	0.017x0.007	Leo	
NGC 3230	10h 24m 41.5s	+12° 28' 33"	12.8	Galaxy	0.019x0.009	Leo	
NGC 2919	09h 35m 45.5s	+10° 12' 11"	12.9	Galaxy	0.013x0.004	Leo	
NGC 2948	09h 39m 56.2s	+06° 52' 26"	12.9	Galaxy	0.011x0.007	Leo	
NGC 2987	09h 46m 37.9s	+04° 51' 28"	12.9	Galaxy	0.012x0.005	Sextans	
NGC 3016	09h 50m 48.8s	+12° 36' 38"	12.9	Galaxy	0.01x0.0075	Leo	
NGC 3042	09h 54m 15.7s	+00° 36' 45"	12.9	Galaxy	0.01x0.005	Sextans	
NGC 2861	09h 24m 32.4s	+02° 03' 30"	13.0	Galaxy	0.012x0.011	Hydra	
NGC 2900	09h 31m 11.4s	+04° 03' 50"	13.0	Galaxy	0.010x0.009	Hydra	
NGC 2936	09h 38m 40.4s	+02° 40' 44"	13.1	Galaxy	0.010x0.004	Hydra	
NGC 3024	09h 51m 25.6s	+12° 40' 51"	13.1	Galaxy	0.016x0.003	Leo	
IC 530	09h 16m 15.8s	+11° 48' 38"	13.1	Galaxy	0.015x0.005	Cancer	
NGC 2914	09h 35m 00.6s	+10° 01' 42"	13.2	Galaxy	0.007x0.005	Leo	
NGC 2958	09h 41m 39.8s	+11° 48' 22"	13.2	Galaxy	0.008x0.006	Leo	
IC 591	10h 08m 25.4s	+12° 11' 09"	13.2	Galaxy	0.008x0.005	Leo	
IC 602	10h 19m 16.2s	+06° 57' 31"	13.2	Galaxy	0.006x0.004	Leo	
NGC 2777	09h 11m 39.2s	+07° 07' 59"	13.3	Galaxy	0.005x0.005	Cancer	
NGC 2786	09h 14m 34.4s	+12° 21' 56"	13.3	Galaxy	0.007x0.005	Cancer	
NGC 3018	09h 50m 37.1s	+00° 32' 18"	13.3	Galaxy	0.01x0.005	Sextans	
NGC 3117	10h 07m 06.3s	+02° 49' 30"	13.3	Galaxy	0.008x0.008	Sextans	
IC 555	09h 42m 55.3s	+12° 12' 49"	13.3	Galaxy	0.010x0.004	Leo	
IC 560	09h 46m 48.7s	-00° 21' 07"	13.3	Galaxy	0.010x0.005	Sextans	
NGC 2898	09h 30m 42.2s	+01° 59' 08"	13.4	Galaxy	0.008x0.006	Hydra	
IC 2913	09h 35m 00.4s	+09° 23' 51"	13.4	Galaxy	0.009x0.005	Leo	

Table 108: Main objects visible on chart 101 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2984	09h 44m 38.3s	+10° 58' 42"	13.4	Galaxy	0.005x0.005	Leo	
NGC 3039	09h 53m 25.3s	+02° 04' 06"	13.4	Galaxy	0.01x0.005	Sextans	
NGC 3130	10h 09m 09.6s	+09° 53' 17"	13.4	Galaxy	0.008x0.005	Leo	
IC 552	09h 42m 14.4s	+10° 33' 53"	13.4	Galaxy	0.008x0.005	Leo	
IC 564	09h 47m 17.1s	+02° 59' 14"	13.4	Galaxy	0.014x0.003	Sextans	
IC 3015	09h 50m 18.5s	+01° 03' 39"	13.5	Galaxy	0.004x0.003	Sextans	
IC 531	09h 18m 46.1s	-00° 21' 16"	13.5	Galaxy	0.014x0.004	Hydra	
IC 590-2	10h 06m 45.9s	+00° 32' 37"	13.5	Galaxy	0.005x0.002	Sextans	IC 590-2
NGC 2940	09h 39m 02.8s	+09° 32' 08"	13.6	Galaxy	0.007x0.005	Leo	
IC 2481	09h 28m 25.2s	+03° 51' 01"	13.6	Galaxy	0.007x0.005	Hydra	
IC 551	09h 41m 57.0s	+06° 51' 15"	13.6	Galaxy	0.006x0.005	Leo	
NGC 2937	09h 38m 41.1s	+02° 39' 59"	13.7	Galaxy	0.006x0.005	Hydra	
NGC 3134	10h 13m 26.8s	+12° 17' 15"	13.7	Galaxy	0.006x0.001	Leo	
IC 588	10h 03m 03.0s	+02° 58' 16"	13.7	Galaxy	0.005x0.003	Sextans	
IC 590-1	10h 06m 45.1s	+00° 32' 42"	13.8	Galaxy	0.008x0.007	Sextans	IC 590-1
IC 594	10h 09m 27.1s	-00° 45' 17"	13.8	Galaxy	0.009x0.004	Sextans	
IC 3165	10h 14m 27.4s	+03° 17' 07"	13.9	Galaxy	0.010x0.005	Sextans	
IC 557	09h 45m 00.4s	+10° 54' 19"	13.9	Galaxy	0.006x0.003	Leo	
IC 563	09h 47m 16.2s	+02° 57' 44"	13.9	Galaxy	0.007x0.003	Sextans	
IC 578	09h 57m 13.7s	+10° 24' 01"	13.9	Galaxy	0.01x0.003	Leo	
IC 605	10h 23m 19.6s	+01° 06' 27"	13.9	Galaxy	0.005x0.004	Sextans	
NGC 2878	09h 26m 43.3s	+02° 00' 41"	14.0	Galaxy	0.006x0.002	Hydra	
NGC 3023-2	09h 50m 49.6s	+00° 31' 56"	14.0	Galaxy	0.002x8.333	Sextans	3023-2
IC 577	09h 57m 01.6s	+10° 24' 46"	14.0	Galaxy	0.005x0.005	Leo	
IC 595	10h 10m 35.6s	+10° 54' 43"	14.0	Galaxy	0.004x0.002	Leo	
NGC 2773	09h 10m 41.5s	+07° 06' 01"	14.1	Galaxy	0.005x0.002	Cancer	
NGC 3186-1	10h 16m 50.0s	+06° 52' 27"	14.1	Galaxy	0.003x0.003	Leo	3186-1
IC 534	09h 22m 11.8s	+03° 04' 23"	14.1	Galaxy	0.014x0.001	Hydra	
IC 540	09h 31m 07.5s	+07° 49' 18"	14.1	Galaxy	0.008x0.002	Leo	
IC 569	09h 52m 25.9s	+10° 50' 08"	14.1	Galaxy	0.003x0.002	Leo	
IC 601	10h 19m 11.9s	+06° 56' 55"	14.1	Galaxy	0.005x0.001	Leo	
IC 615	10h 28m 19.1s	+10° 59' 18"	14.1	Galaxy	0.009x0.002	Leo	
NGC 3069	09h 58m 54.3s	+10° 20' 47"	14.2	Galaxy	0.006x0.003	Leo	
IC 559	09h 45m 41.4s	+09° 31' 57"	14.2	Galaxy	0.007x0.005	Leo	
NGC 2877	09h 26m 43.0s	+02° 09' 00"	14.3	Galaxy	0.005x0.004	Hydra	
IC 576	09h 56m 04.8s	+10° 57' 15"	14.3	Galaxy	0.002x0.002	Leo	
NGC 2951-2	09h 40m 36.1s	-00° 18' 60"	14.4	Galaxy	0.004x0.004	Hydra	2951-2
IC 3062	09h 57m 31.3s	+01° 20' 35"	14.4	Galaxy	0.005x0.002	Sextans	
IC 613	10h 28m 04.9s	+10° 55' 09"	14.4	Galaxy	0.006x0.006	Leo	
NGC 2897	09h 30m 41.6s	+02° 07' 41"	14.5	Galaxy	0.005x0.003	Hydra	
NGC 3217	10h 24m 29.8s	+10° 52' 05"	14.5	Galaxy	0.004x0.002	Leo	
IC 566	09h 50m 51.6s	-00° 18' 56"	14.5	Galaxy	0.005x0.003	Sextans	
NGC 2864	09h 25m 12.3s	+05° 51' 43"	14.6	Galaxy	0.008x0.005	Hydra	
IC 561	09h 46m 55.0s	+03° 03' 41"	14.6	Galaxy	0.003x0.002	Sextans	
IC 584	10h 00m 02.7s	+10° 16' 28"	14.6	Galaxy	0.003x0.003	Leo	
IC 612	10h 28m 03.0s	+10° 57' 45"	14.6	Galaxy	0.005x0.002	Leo	

Table 108: Main objects visible on chart 101 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2951-1	09h 40m 35.1s	-00° 19' 04"	14.7	Galaxy	0.004x0.002	Hydra	2951-1
IC 548	09h 39m 17.0s	+09° 21' 52"	14.7	Galaxy	0.005x0.001	Leo	
IC 549	09h 41m 39.4s	+03° 52' 35"	14.7	Galaxy	0.004x0.002	Hydra	
IC 596	10h 11m 28.6s	+09° 57' 09"	14.9	Galaxy	0.007x0.002	Leo	
NGC 3186-2	10h 16m 49.1s	+06° 52' 10"	15.0	Galaxy	0.004x0.004	Leo	3186-2
IC 3019	09h 51m 05.5s	+12° 39' 41"	15.2	Galaxy	0.006x0.003	Leo	
IC 2873	09h 26m 46.9s	+11° 22' 34"	15.4	Galaxy	0.005x0.001	Leo	

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Table 109: Main objects visible on chart 102

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3521	11h 06m 44.1s	-00° 08' 04"	9.0	Galaxy	0.093x0.045	Leo	
NGC 3368	10h 47m 42.7s	+11° 43' 29"	9.3	Galaxy	0.065x0.043	Leo	M96
NGC 3379	10h 48m 46.5s	+12° 29' 09"	9.3	Galaxy	0.044x0.04	Leo	M105
NGC 3351	10h 44m 54.8s	+11° 36' 31"	9.7	Galaxy	0.061x0.041	Leo	M95
NGC 3384	10h 49m 13.7s	+12° 31' 60"	9.9	Galaxy	0.045x0.022	Leo	
NGC 3640	11h 22m 02.3s	+03° 08' 09"	10.4	Galaxy	0.033x0.026	Leo	
NGC 3593	11h 15m 33.4s	+12° 43' 12"	10.9	Galaxy	0.043x0.015	Leo	
NGC 3423	10h 52m 10.5s	+05° 44' 39"	11.1	Galaxy	0.032x0.027	Sextans	
NGC 3705	11h 31m 03.5s	+09° 10' 36"	11.1	Galaxy	0.040x0.016	Leo	
NGC 3433	10h 53m 00.6s	+10° 03' 07"	11.6	Galaxy	0.029x0.025	Leo	
NGC 3495	11h 02m 11.5s	+03° 31' 48"	11.8	Galaxy	0.040x0.009	Leo	
IC 676	11h 13m 35.8s	+08° 57' 29"	11.8	Galaxy	0.017x0.010	Leo	
NGC 3389	10h 49m 25.0s	+12° 26' 15"	11.9	Galaxy	0.024x0.010	Leo	
NGC 3434	10h 52m 53.8s	+03° 41' 46"	12.0	Galaxy	0.017x0.015	Leo	
NGC 3645	11h 21m 12.5s	+02° 51' 57"	12.0	Galaxy	0.016x0.006	Leo	
NGC 3692	11h 29m 19.7s	+09° 18' 31"	12.1	Galaxy	0.025x0.005	Leo	
NGC 3462	10h 56m 17.2s	+07° 36' 02"	12.2	Galaxy	0.014x0.01	Leo	
NGC 3611	11h 18m 25.8s	+04° 27' 24"	12.2	Galaxy	0.016x0.013	Leo	
NGC 3342	10h 41m 24.9s	+09° 05' 17"	12.3	Galaxy	0.011x0.011	Leo	
NGC 3666	11h 25m 22.3s	+11° 14' 35"	12.3	Galaxy	0.036x0.008	Leo	
NGC 3506	11h 04m 09.3s	+10° 58' 47"	12.5	Galaxy	0.009x0.008	Leo	
NGC 3246	10h 27m 37.9s	+03° 46' 13"	12.6	Galaxy	0.02x0.011	Sextans	
NGC 3365	10h 47m 08.3s	+01° 43' 04"	12.6	Galaxy	0.037x0.006	Sextans	
NGC 3385	10h 49m 07.6s	+04° 49' 59"	12.6	Galaxy	0.012x0.007	Sextans	
NGC 3299	10h 37m 21.2s	+12° 36' 49"	12.7	Galaxy	0.018x0.014	Leo	
NGC 3325	10h 40m 15.7s	-00° 17' 38"	12.7	Galaxy	0.01x0.009	Sextans	
NGC 3509	11h 05m 20.2s	+04° 43' 52"	12.7	Galaxy	0.017x0.008	Leo	
NGC 3230	10h 24m 41.5s	+12° 28' 33"	12.8	Galaxy	0.019x0.009	Leo	
NGC 3362	10h 45m 47.9s	+06° 30' 08"	12.8	Galaxy	0.011x0.009	Leo	
NGC 3524	11h 07m 28.6s	+11° 17' 15"	12.8	Galaxy	0.013x0.004	Leo	
NGC 3547	11h 10m 52.2s	+10° 37' 23"	12.8	Galaxy	0.016x0.007	Leo	
NGC 3559	11h 11m 41.5s	+11° 55' 06"	12.8	Galaxy	0.010x0.007	Leo	

Table 109: Main objects visible on chart 102 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3664	11h 25m 20.0s	+03° 13' 38"	12.8	Galaxy	0.016x0.015	Leo	
IC 653	10h 53m 02.0s	-00° 39' 25"	12.8	Galaxy	0.015x0.007	Leo	
IC 2637	11h 14m 45.8s	+09° 29' 18"	12.9	Galaxy	0.006x0.006	Leo	
IC 677	11h 14m 53.0s	+12° 12' 12"	12.9	Galaxy	0.012x0.005	Leo	
NGC 3340	10h 43m 13.2s	-00° 28' 17"	13.0	Galaxy	0.008x0.007	Sextans	
NGC 3719	11h 33m 08.9s	+00° 43' 11"	13.0	Galaxy	0.014x0.010	Leo	
NGC 3425	10h 52m 21.9s	+08° 28' 18"	13.1	Galaxy	0.008x0.008	Leo	
NGC 3428	10h 52m 26.0s	+09° 11' 00"	13.1	Galaxy	0.012x0.005	Leo	
NGC 3492-1	11h 01m 53.8s	+10° 24' 34"	13.1	Galaxy	0.009x0.005	Leo	3492-1
IC 664	11h 01m 41.9s	+10° 27' 22"	13.1	Galaxy	0.010x0.007	Leo	
IC 669	11h 08m 12.4s	+06° 12' 20"	13.1	Galaxy	0.01x0.005	Leo	
NGC 3427	10h 52m 22.6s	+08° 12' 09"	13.2	Galaxy	0.009x0.004	Leo	
NGC 3491	11h 01m 32.1s	+12° 03' 53"	13.2	Galaxy	0.007x0.007	Leo	
NGC 3526	11h 07m 52.4s	+07° 04' 33"	13.2	Galaxy	0.015x0.003	Leo	
NGC 3641	11h 22m 04.4s	+03° 05' 45"	13.2	Galaxy	0.007x0.007	Leo	
IC 602	10h 19m 16.2s	+06° 57' 31"	13.2	Galaxy	0.006x0.004	Leo	
NGC 3356	10h 45m 08.7s	+06° 39' 51"	13.3	Galaxy	0.014x0.006	Leo	
NGC 3567-1	11h 12m 14.6s	+05° 44' 18"	13.3	Galaxy	0.007x0.006	Leo	3567-1
IC 670	11h 08m 24.7s	+06° 37' 00"	13.3	Galaxy	0.008x0.006	Leo	
NGC 3279	10h 35m 39.7s	+11° 06' 13"	13.4	Galaxy	0.024x0.003	Leo	
NGC 3306	10h 38m 07.3s	+12° 33' 31"	13.4	Galaxy	0.011x0.004	Leo	
IC 3376	10h 48m 22.6s	+05° 57' 12"	13.4	Galaxy	0.006x0.003	Sextans	
NGC 3438	10h 53m 22.5s	+10° 27' 06"	13.4	Galaxy	0.006x0.006	Leo	
NGC 3467	10h 57m 40.6s	+09° 39' 45"	13.4	Galaxy	0.006x0.006	Leo	
IC 658	10h 59m 12.5s	+08° 08' 44"	13.4	Galaxy	0.005x0.004	Leo	
IC 671	11h 08m 27.0s	+00° 41' 08"	13.4	Galaxy	0.010x0.01	Leo	
IC 673	11h 10m 20.5s	-00° 11' 44"	13.4	Galaxy	0.014x0.005	Leo	
IC 698	11h 29m 59.5s	+09° 00' 47"	13.4	Galaxy	0.008x0.004	Leo	
NGC 3535	11h 09m 29.7s	+04° 44' 05"	13.5	Galaxy	0.014x0.006	Leo	
NGC 3633	11h 21m 21.8s	+03° 29' 12"	13.5	Galaxy	0.009x0.003	Leo	
NGC 3716	11h 32m 36.7s	+03° 23' 19"	13.5	Galaxy	0.005x0.005	Leo	
IC 2828	11h 28m 07.0s	+08° 37' 59"	13.5	Galaxy	0.007x0.005	Leo	
IC 3253	10h 29m 24.7s	+12° 36' 41"	13.6	Galaxy	0.01x0.009	Leo	
NGC 3441	10h 53m 27.2s	+07° 07' 45"	13.6	Galaxy	0.005x0.003	Leo	
IC 2822	11h 27m 30.0s	+11° 20' 26"	13.6	Galaxy	0.012x0.005	Leo	
IC 692	11h 26m 49.5s	+09° 53' 18"	13.6	Galaxy	0.005x0.004	Leo	
IC 696	11h 29m 35.8s	+08° 59' 59"	13.6	Galaxy	0.008x0.007	Leo	
NGC 3326	10h 40m 27.9s	+05° 00' 47"	13.7	Galaxy	0.005x0.005	Sextans	
NGC 3644	11h 22m 28.4s	+02° 42' 41"	13.7	Galaxy	0.012x0.005	Leo	
IC 2853	11h 29m 10.7s	+09° 02' 55"	13.7	Galaxy	0.008x0.004	Leo	
IC 628	10h 38m 32.4s	+05° 30' 34"	13.7	Galaxy	0.007x0.005	Sextans	
IC 648-2	10h 51m 57.6s	+12° 11' 39"	13.7	Galaxy	0.006x0.005	Leo	IC 648-2
NGC 3386	10h 49m 07.8s	+04° 54' 14"	13.8	Galaxy	0.004x0.004	Sextans	
NGC 3466	10h 57m 11.9s	+09° 39' 28"	13.8	Galaxy	0.008x0.005	Leo	
IC 3476	10h 59m 04.0s	+09° 10' 46"	13.8	Galaxy	0.006x0.005	Leo	
NGC 3490	11h 00m 50.7s	+09° 15' 55"	13.8	Galaxy	0.004x0.004	Leo	

Table 109: Main objects visible on chart 102 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3601	11h 16m 29.0s	+05° 01' 02"	13.8	Galaxy	0.004x0.004	Leo	
IC 2638	11h 14m 48.0s	+10° 27' 54"	13.8	Galaxy	0.008x0.004	Leo	
IC 632	10h 40m 07.1s	-00° 30' 14"	13.8	Galaxy	0.007x0.005	Sextans	
NGC 3439	10h 53m 22.1s	+08° 27' 43"	13.9	Galaxy	0.003x0.002	Leo	
NGC 3567-2	11h 12m 16.5s	+05° 43' 58"	13.9	Galaxy	0.005x0.005	Leo	3567-2
NGC 3624	11h 19m 46.8s	+07° 25' 20"	13.9	Galaxy	0.007x0.005	Leo	
IC 2649-2	11h 15m 43.7s	+11° 01' 50"	13.9	Galaxy	0.002x0.002	Leo	IC 2649-2
IC 2708	11h 19m 30.8s	+12° 36' 47"	13.9	Galaxy	0.004x0.004	Leo	
IC 605	10h 23m 19.6s	+01° 06' 27"	13.9	Galaxy	0.005x0.004	Sextans	
IC 678	11h 15m 02.2s	+06° 28' 46"	13.9	Galaxy	0.005x0.004	Leo	
IC 699	11h 30m 02.4s	+08° 53' 23"	13.9	Galaxy	0.01x0.0025	Leo	
NGC 3341	10h 43m 27.5s	+04° 56' 58"	14.0	Galaxy	0.01x0.003	Sextans	
NGC 3580	11h 14m 11.7s	+03° 33' 34"	14.0	Galaxy	0.007x0.002	Leo	
IC 2673	11h 17m 00.3s	+10° 03' 50"	14.0	Galaxy	0.008x0.006	Leo	
IC 2757	11h 22m 58.0s	+08° 17' 42"	14.0	Galaxy	0.004x0.002	Leo	
IC 648-1	10h 51m 57.1s	+12° 11' 31"	14.0	Galaxy	0.006x0.004	Leo	IC 648-1
IC 683	11h 22m 27.2s	+02° 39' 12"	14.0	Galaxy	0.006x0.005	Leo	
NGC 3186-1	10h 16m 50.0s	+06° 52' 27"	14.1	Galaxy	0.003x0.003	Leo	3186-1
IC 3436	10h 53m 23.7s	+07° 59' 54"	14.1	Galaxy	0.005x0.004	Leo	
NGC 3643	11h 22m 20.5s	+02° 54' 55"	14.1	Galaxy	0.01x0.006	Leo	
NGC 3685	11h 29m 11.8s	+04° 13' 42"	14.1	Galaxy	0.005x0.003	Leo	
IC 2674	11h 17m 04.4s	+10° 56' 60"	14.1	Galaxy	0.009x0.005	Leo	
IC 601	10h 19m 11.9s	+06° 56' 55"	14.1	Galaxy	0.005x0.001	Leo	
IC 615	10h 28m 19.1s	+10° 59' 18"	14.1	Galaxy	0.009x0.002	Leo	
IC 3647	11h 22m 28.1s	+02° 47' 18"	14.2	Galaxy	0.005x0.004	Leo	
IC 2758	11h 22m 59.1s	+07° 42' 54"	14.2	Galaxy	0.005x0.001	Leo	
IC 621	10h 34m 16.8s	+02° 31' 24"	14.2	Galaxy	0.003x0.002	Sextans	
IC 623	10h 36m 16.9s	+03° 27' 53"	14.2	Galaxy	0.008x0.003	Sextans	
IC 634	10h 41m 51.0s	+05° 53' 51"	14.2	Galaxy	0.01x0.003	Sextans	
IC 636	10h 42m 46.5s	+04° 14' 11"	14.2	Galaxy	0.007x0.003	Sextans	
IC 666	11h 02m 11.3s	+10° 23' 02"	14.2	Galaxy	0.004x0.002	Leo	
NGC 3337	10h 42m 43.5s	+04° 53' 40"	14.3	Galaxy	0.005x0.002	Sextans	
IC 2720	11h 20m 31.8s	+11° 58' 42"	14.3	Galaxy	0.005x0.004	Leo	
IC 2829	11h 28m 10.9s	+10° 13' 25"	14.3	Galaxy	0.004x0.002	Leo	
IC 2871	11h 30m 16.4s	+08° 30' 11"	14.3	Galaxy	0.006x0.005	Leo	
IC 633	10h 40m 19.4s	-00° 28' 58"	14.3	Galaxy	0.005x0.002	Sextans	
IC 643	10h 50m 24.0s	+12° 06' 20"	14.3	Galaxy	0.005x0.001	Leo	
IC 662	11h 00m 16.0s	+01° 30' 10"	14.3	Galaxy	0.007x0.005	Leo	
NGC 3349-2	10h 44m 49.0s	+06° 39' 45"	14.4	Galaxy	0.004x0.002	Leo	3349-2
IC 2680	11h 17m 21.6s	+09° 42' 30"	14.4	Galaxy	0.004x0.001	Leo	
IC 2777	11h 23m 36.8s	+11° 55' 36"	14.4	Galaxy	0.006x0.003	Leo	
IC 2850	11h 29m 08.9s	+08° 57' 49"	14.4	Galaxy	0.005x0.001	Leo	
IC 613	10h 28m 04.9s	+10° 55' 09"	14.4	Galaxy	0.006x0.006	Leo	
IC 620	10h 34m 30.6s	+11° 46' 39"	14.4	Galaxy	0.005x0.002	Leo	
IC 649-1	10h 51m 47.5s	+01° 04' 10"	14.4	Galaxy	0.005x0.004	Sextans	IC 649-1
IC 660	10h 59m 22.1s	+01° 17' 12"	14.4	Galaxy	0.007x0.004	Leo	

Table 109: Main objects visible on chart 102 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 663	11h 01m 33.8s	+10° 20' 25"	14.4	Galaxy	0.006x0.005	Leo	
NGC 3217	10h 24m 29.8s	+10° 52' 05"	14.5	Galaxy	0.004x0.002	Leo	
NGC 3349-1	10h 44m 46.9s	+06° 40' 06"	14.5	Galaxy	0.004x0.004	Leo	3349-1
NGC 3664A	11h 25m 20.7s	+03° 07' 22"	14.5	Galaxy	0.009x0.008	Leo	3664A
IC 2628	11h 12m 34.2s	+12° 01' 28"	14.5	Galaxy	0.006x0.005	Leo	
IC 2634	11h 14m 24.5s	+10° 23' 15"	14.5	Galaxy	0.005x0.004	Leo	
IC 2698	11h 18m 47.4s	+11° 47' 12"	14.5	Galaxy	0.004x0.003	Leo	
IC 2718	11h 20m 17.1s	+11° 55' 26"	14.5	Galaxy	0.004x0.001	Leo	
IC 2830	11h 28m 17.5s	+07° 42' 54"	14.5	Galaxy	0.004x0.004	Leo	
IC 2846	11h 28m 56.4s	+11° 03' 34"	14.5	Galaxy	0.007x0.005	Leo	
IC 2857	11h 29m 26.9s	+09° 00' 17"	14.5	Galaxy	0.015x0.001	Leo	
IC 2887	11h 31m 25.4s	+09° 17' 20"	14.5	Galaxy	0.007x8.333	Leo	
IC 655	10h 55m 17.4s	-00° 27' 42"	14.5	Galaxy	0.008x0.001	Leo	
IC 686	11h 24m 00.8s	+05° 32' 43"	14.5	Galaxy	0.003x0.001	Leo	
NGC 3417	10h 51m 58.1s	+08° 22' 40"	14.6	Galaxy	0.005x0.002	Leo	
IC 2704	11h 19m 00.2s	+12° 21' 18"	14.6	Galaxy	0.003x0.001	Leo	
IC 2749	11h 22m 41.1s	+08° 28' 34"	14.6	Galaxy	0.005x0.002	Leo	
IC 2867	11h 29m 56.3s	+08° 59' 26"	14.6	Galaxy	0.003x0.002	Leo	
IC 612	10h 28m 03.0s	+10° 57' 45"	14.6	Galaxy	0.005x0.002	Leo	
NGC 3444	10h 53m 56.0s	+10° 06' 52"	14.7	Galaxy	0.008x8.333	Leo	
IC 2762	11h 23m 14.1s	+12° 37' 25"	14.7	Galaxy	0.006x0.001	Leo	
IC 649-2	10h 51m 47.6s	+01° 03' 58"	14.7	Galaxy	0.002x0.002	Sextans	IC 649-2
IC 661	10h 59m 46.9s	+01° 33' 16"	14.7	Galaxy	0.005x0.005	Leo	
NGC 3477	10h 59m 08.9s	+09° 07' 16"	14.8	Galaxy	0.005x0.002	Leo	
IC 2679	11h 17m 19.5s	+11° 55' 01"	14.8	Galaxy	0.003x0.003	Leo	
IC 2707	11h 19m 27.0s	+09° 22' 32"	14.8	Galaxy	0.003x0.001	Leo	
IC 2837	11h 28m 37.9s	+10° 12' 50"	14.8	Galaxy	0.003x0.003	Leo	
IC 2645	11h 15m 27.1s	+11° 47' 18"	14.9	Galaxy	0.005x0.001	Leo	
IC 2648	11h 15m 41.8s	+10° 07' 37"	14.9	Galaxy	0.002x0.002	Leo	
IC 2870	11h 30m 08.3s	+11° 45' 56"	14.9	Galaxy	0.010x0.009	Leo	
NGC 3186-2	10h 16m 49.1s	+06° 52' 10"	15.0	Galaxy	0.004x0.004	Leo	3186-2
NGC 3492-2	11h 01m 53.3s	+10° 24' 27"	15.0	Galaxy	0.004x0.004	Leo	3492-2
IC 2646	11h 15m 34.0s	+12° 25' 49"	15.0	Galaxy	0.003x0.001	Leo	
IC 2678	11h 17m 17.9s	+11° 51' 01"	15.0	Galaxy	0.004x0.001	Leo	
IC 2734	11h 21m 20.1s	+12° 20' 39"	15.0	Galaxy	0.005x0.001	Leo	
IC 2753	11h 22m 55.7s	+09° 46' 44"	15.0	Galaxy	0.001x0.001	Leo	
IC 2780-1	11h 23m 44.1s	+10° 03' 02"	15.0	Galaxy	0.002x0.002	Leo	IC 2780-1
IC 2793-1	11h 24m 43.3s	+09° 21' 08"	15.0	Galaxy	0.003x0.003	Leo	IC 2793-1
IC 2801	11h 25m 25.0s	+10° 05' 04"	15.0	Galaxy	0.004x0.002	Leo	
IC 2811	11h 26m 40.6s	+09° 04' 16"	15.0	Galaxy	0.005x0.002	Leo	
IC 2816	11h 27m 14.3s	+10° 32' 14"	15.0	Galaxy	0.005x0.002	Leo	
IC 2844	11h 28m 54.1s	+11° 21' 15"	15.0	Galaxy	0.004x0.002	Leo	
IC 2876	11h 30m 29.4s	+08° 55' 00"	15.0	Galaxy	0.005x0.001	Leo	
NGC 3705B	11h 30m 39.5s	+09° 06' 22"	15.2	Galaxy	0.003x0.001	Leo	3705B
IC 2629	11h 13m 33.3s	+12° 00' 23"	15.2	Galaxy	0.004x0.001	Leo	
IC 2640	11h 15m 01.8s	+10° 53' 56"	15.2	Galaxy	0.002x0.001	Leo	

Table 109: Main objects visible on chart 102 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2644	11h 15m 26.0s	+10° 40' 14"	15.2	Galaxy	0.003x0.001	Leo	
IC 2649-1	11h 15m 42.7s	+11° 01' 47"	15.2	Galaxy	0.004x0.004	Leo	IC 2649-1
IC 2651	11h 15m 48.6s	+12° 08' 29"	15.2	Galaxy	0.003x0.001	Leo	
IC 2654	11h 15m 59.3s	+12° 24' 06"	15.2	Galaxy	0.003x0.002	Leo	
IC 2656	11h 16m 01.7s	+12° 16' 50"	15.2	Galaxy	0.004x0.001	Leo	
IC 2660	11h 16m 24.8s	+12° 20' 18"	15.2	Galaxy	0.003x0.002	Leo	
IC 2667	11h 16m 40.3s	+12° 01' 07"	15.2	Galaxy	0.002x0.002	Leo	
IC 2670	11h 16m 55.8s	+11° 41' 05"	15.2	Galaxy	0.003x0.002	Leo	
IC 2676	11h 17m 14.6s	+09° 43' 24"	15.2	Galaxy	0.003x0.001	Leo	
IC 2700	11h 18m 50.4s	+11° 57' 22"	15.2	Galaxy	0.002x0.001	Leo	
IC 2727	11h 20m 56.2s	+11° 56' 04"	15.2	Galaxy	0.003x0.003	Leo	
IC 2756	11h 22m 57.0s	+09° 51' 40"	15.2	Galaxy	0.004x0.001	Leo	
IC 2768	11h 23m 19.7s	+12° 25' 48"	15.2	Galaxy	0.002x0.001	Leo	
IC 2792	11h 24m 37.6s	+11° 18' 19"	15.2	Galaxy	0.003x0.001	Leo	
IC 2796-1	11h 25m 04.3s	+09° 14' 49"	15.2	Galaxy	0.003x0.002	Leo	IC 2796-1
IC 2800	11h 25m 23.1s	+12° 06' 35"	15.2	Galaxy	0.004x0.001	Leo	
IC 2803	11h 25m 31.3s	+09° 45' 03"	15.2	Galaxy	0.003x8.333	Leo	
IC 2812	11h 26m 52.0s	+11° 25' 52"	15.2	Galaxy	0.004x0.001	Leo	
IC 2814	11h 27m 04.5s	+09° 33' 45"	15.2	Galaxy	0.002x0.001	Leo	
IC 2851	11h 29m 10.5s	+11° 17' 42"	15.2	Galaxy	0.003x0.001	Leo	
IC 2878	11h 30m 34.1s	+09° 52' 05"	15.2	Galaxy	0.002x0.001	Leo	
IC 2879	11h 30m 40.0s	+08° 54' 51"	15.2	Galaxy	0.004x0.002	Leo	
IC 2892	11h 31m 44.9s	+10° 29' 19"	15.2	Galaxy	0.004x0.001	Leo	
IC 2903	11h 32m 36.8s	+12° 32' 34"	15.2	Galaxy	0.003x0.001	Leo	
IC 2912	11h 33m 02.9s	+11° 36' 39"	15.2	Galaxy	0.004x8.333	Leo	
IC 2723	11h 20m 44.1s	+11° 56' 04"	15.3	Galaxy	0.002x0.002	Leo	
IC 2746	11h 22m 32.6s	+11° 38' 16"	15.3	Galaxy	0.002x0.001	Leo	
IC 2798	11h 25m 20.2s	+12° 19' 00"	15.3	Galaxy	0.006x8.333	Leo	
IC 2815	11h 27m 12.6s	+12° 42' 16"	15.4	Galaxy	0.003x0.001	Leo	
IC 2842	11h 28m 43.6s	+09° 33' 10"	15.4	Galaxy	0.002x8.333	Leo	
IC 2655	11h 16m 01.5s	+12° 03' 58"	15.5	Galaxy	0.001x0.001	Leo	
IC 2732	11h 21m 08.7s	+12° 18' 19"	15.5	Galaxy	0.002x0.002	Leo	
IC 2739	11h 22m 08.6s	+11° 48' 56"	15.5	Galaxy	0.001x0.001	Leo	
IC 2775	11h 23m 35.7s	+12° 24' 48"	15.5	Galaxy	0.001x0.001	Leo	
IC 2802	11h 25m 26.4s	+12° 06' 35"	15.5	Galaxy	0.001x0.001	Leo	
IC 2633	11h 14m 06.4s	+11° 30' 12"	15.7	Galaxy	0.003x0.001	Leo	
IC 2665	11h 16m 37.1s	+11° 37' 32"	15.7	Galaxy	0.003x8.333	Leo	
IC 2683	11h 17m 50.6s	+12° 00' 02"	15.7	Galaxy	0.002x0.001	Leo	
IC 2701	11h 18m 53.1s	+11° 01' 09"	15.7	Galaxy	0.002x0.001	Leo	
IC 2712	11h 19m 48.8s	+09° 31' 43"	15.7	Galaxy	0.001x0.001	Leo	
IC 2716	11h 20m 12.5s	+11° 35' 60"	15.7	Galaxy	0.002x8.333	Leo	
IC 2740	11h 22m 13.0s	+08° 39' 10"	15.7	Galaxy	0.002x0.001	Leo	
IC 2750	11h 22m 46.7s	+09° 33' 34"	15.7	Galaxy	0.002x8.333	Leo	
IC 2760	11h 23m 08.9s	+12° 34' 01"	15.7	Galaxy	0.002x0.001	Leo	
IC 2780-2	11h 23m 44.2s	+10° 03' 12"	15.7	Galaxy	0.003x0.001	Leo	IC 2780-2
IC 2793-2	11h 24m 43.6s	+09° 20' 58"	15.7	Galaxy	0.003x0.001	Leo	IC 2793-2

Table 109: Main objects visible on chart 102 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2796-2	11h 25m 04.4s	+09° 14' 40"	15.7	Galaxy	0.002x8.333	Leo	IC 2796-2
IC 2839	11h 28m 41.5s	+10° 43' 14"	15.7	Galaxy	0.002x8.333	Leo	
IC 2891	11h 31m 44.1s	+12° 34' 41"	15.7	Galaxy	0.002x0.002	Leo	
IC 2783	11h 23m 49.4s	+08° 47' 08"	15.8	Galaxy	0.004x0.001	Leo	
IC 2713	11h 20m 06.5s	+12° 03' 60"	15.9	Galaxy	0.002x0.002	Leo	
IC 2724	11h 20m 44.5s	+10° 37' 07"	15.9	Galaxy	0.001x0.001	Leo	
IC 2770	11h 23m 20.7s	+09° 07' 20"	15.9	Galaxy	0.001x0.001	Leo	
IC 2820	11h 27m 22.8s	+10° 08' 23"	15.9	Galaxy	0.003x0.001	Leo	
IC 2771	11h 23m 24.2s	+12° 25' 14"	16.0	Galaxy	0.001x0.001	Leo	
IC 2790	11h 24m 30.0s	+09° 27' 21"	16.0	Galaxy	0.003x0.003	Leo	
IC 2881	11h 30m 50.5s	+12° 24' 43"	16.0	Galaxy	0.002x8.333	Leo	
IC 2909	11h 32m 46.8s	+11° 22' 15"	16.0	Galaxy	0.001x0.001	Leo	
IC 2921	11h 33m 45.1s	+10° 11' 51"	16.0	Galaxy	0.004x0.002	Leo	

7.104 Main objects visible on chart 103

Table 110: Main objects visible on chart 103

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4472	12h 30m 41.6s	+07° 54' 02"	8.4	Galaxy	0.085x0.069	Virgo	M49
NGC 4486	12h 31m 44.0s	+12° 17' 29"	8.6	Galaxy	0.069x0.055	Virgo	M87, Virgo A
NGC 4374	12h 25m 58.3s	+12° 47' 14"	9.1	Galaxy	0.054x0.046	Virgo	M84, Markarian chain
NGC 4526	12h 34m 57.7s	+07° 35' 59"	9.3	Galaxy	0.058x0.020	Virgo	
NGC 4365	12h 25m 23.2s	+07° 13' 04"	9.6	Galaxy	0.057x0.041	Virgo	
NGC 4303	12h 22m 50.1s	+04° 22' 23"	9.7	Galaxy	0.054x0.049	Virgo	M61
NGC 4579	12h 38m 38.2s	+11° 43' 10"	9.7	Galaxy	0.05x0.04	Virgo	M58
NGC 4552	12h 36m 34.4s	+12° 27' 26"	9.8	Galaxy	0.029x0.029	Virgo	M89
NGC 4429	12h 28m 21.1s	+11° 00' 29"	10.0	Galaxy	0.048x0.023	Virgo	
NGC 4535	12h 35m 15.0s	+08° 05' 54"	10.0	Galaxy	0.059x0.041	Virgo	
NGC 3640	11h 22m 02.3s	+03° 08' 09"	10.4	Galaxy	0.033x0.026	Leo	
NGC 4261	12h 20m 18.2s	+05° 43' 29"	10.4	Galaxy	0.034x0.03	Virgo	
NGC 4442	12h 28m 58.7s	+09° 42' 16"	10.4	Galaxy	0.037x0.015	Virgo	
NGC 4517	12h 33m 41.0s	+00° 00' 59"	10.4	Galaxy	0.087x0.012	Virgo	
NGC 4527	12h 35m 04.0s	+02° 33' 15"	10.5	Galaxy	0.051x0.017	Virgo	
NGC 4536	12h 35m 22.1s	+02° 05' 17"	10.6	Galaxy	0.063x0.026	Virgo	
NGC 3810	11h 41m 54.3s	+11° 22' 13"	10.8	Galaxy	0.035x0.025	Leo	
NGC 4371	12h 25m 50.2s	+11° 36' 16"	10.8	Galaxy	0.033x0.019	Virgo	
NGC 4568	12h 37m 28.8s	+11° 08' 23"	10.8	Galaxy	0.038x0.018	Virgo	
NGC 4267	12h 20m 40.2s	+12° 41' 55"	10.9	Galaxy	0.025x0.023	Virgo	
NGC 4457	12h 29m 54.1s	+03° 28' 18"	10.9	Galaxy	0.021x0.019	Virgo	
NGC 4570	12h 37m 48.1s	+07° 08' 53"	10.9	Galaxy	0.030x0.01	Virgo	
NGC 4179	12h 13m 47.4s	+01° 11' 59"	11.0	Galaxy	0.035x0.010	Virgo	
NGC 4388	12h 26m 41.6s	+12° 33' 45"	11.0	Galaxy	0.046x0.012	Virgo	
NGC 3705	11h 31m 03.5s	+09° 10' 36"	11.1	Galaxy	0.040x0.016	Leo	
NGC 4417	12h 27m 45.3s	+09° 29' 06"	11.1	Galaxy	0.027x0.011	Virgo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4503	12h 33m 00.8s	+11° 04' 35"	11.1	Galaxy	0.029x0.014	Virgo	
NGC 4564	12h 37m 21.5s	+11° 20' 27"	11.1	Galaxy	0.029x0.012	Virgo	
NGC 4469	12h 30m 23.0s	+08° 39' 03"	11.2	Galaxy	0.031x0.010	Virgo	
NGC 4281	12h 21m 16.8s	+05° 17' 12"	11.3	Galaxy	0.025x0.013	Virgo	
NGC 4567	12h 37m 27.3s	+11° 09' 32"	11.3	Galaxy	0.025x0.018	Virgo	Siamese twins
NGC 4073	12h 05m 22.4s	+01° 47' 46"	11.4	Galaxy	0.026x0.019	Virgo	
NGC 4119	12h 09m 04.7s	+10° 16' 43"	11.4	Galaxy	0.035x0.011	Virgo	
NGC 4123	12h 09m 06.5s	+02° 46' 41"	11.4	Galaxy	0.035x0.026	Virgo	
NGC 4178	12h 13m 41.3s	+10° 45' 51"	11.4	Galaxy	0.041x0.014	Virgo	
NGC 4339	12h 24m 30.0s	+05° 58' 56"	11.4	Galaxy	0.015x0.014	Virgo	
NGC 4496	12h 32m 34.4s	+03° 50' 26"	11.4	Galaxy	0.032x0.025	Virgo	
NGC 3976	11h 56m 52.6s	+06° 38' 53"	11.5	Galaxy	0.031x0.01	Virgo	
NGC 4478	12h 31m 12.0s	+12° 13' 45"	11.5	Galaxy	0.015x0.012	Virgo	
NGC 4578	12h 38m 25.3s	+09° 27' 24"	11.5	Galaxy	0.025x0.019	Virgo	
NGC 4235	12h 18m 04.8s	+07° 05' 27"	11.6	Galaxy	0.035x0.007	Virgo	
NGC 4324	12h 24m 01.1s	+05° 09' 01"	11.6	Galaxy	0.024x0.01	Virgo	
NGC 4378	12h 26m 13.1s	+04° 49' 33"	11.7	Galaxy	0.024x0.022	Virgo	
NGC 4380	12h 26m 17.0s	+09° 55' 02"	11.7	Galaxy	0.029x0.015	Virgo	
NGC 4424	12h 28m 06.3s	+09° 19' 19"	11.7	Galaxy	0.029x0.014	Virgo	
NGC 4440	12h 28m 48.2s	+12° 11' 38"	11.7	Galaxy	0.015x0.013	Virgo	
NGC 4550	12h 36m 25.1s	+12° 07' 19"	11.7	Galaxy	0.027x0.007	Virgo	
NGC 3968	11h 56m 24.1s	+11° 52' 06"	11.8	Galaxy	0.022x0.015	Leo	
NGC 4224	12h 17m 29.0s	+07° 21' 44"	11.8	Galaxy	0.020x0.008	Virgo	
NGC 4260	12h 20m 17.3s	+05° 59' 55"	11.8	Galaxy	0.022x0.010	Virgo	
NGC 4425	12h 28m 08.0s	+12° 38' 07"	11.8	Galaxy	0.023x0.008	Virgo	
NGC 4519	12h 34m 25.0s	+08° 33' 21"	11.8	Galaxy	0.026x0.020	Virgo	
NGC 4580	12h 38m 43.3s	+05° 16' 09"	11.8	Galaxy	0.017x0.012	Virgo	
NGC 4223	12h 18m 20.9s	+06° 35' 22"	11.9	Galaxy	0.020x0.011	Virgo	
NGC 4233	12h 18m 02.7s	+07° 31' 27"	11.9	Galaxy	0.02x0.009	Virgo	
NGC 4273	12h 20m 51.2s	+05° 14' 38"	11.9	Galaxy	0.019x0.012	Virgo	
NGC 4413	12h 27m 26.8s	+12° 30' 39"	11.9	Galaxy	0.019x0.011	Virgo	
NGC 4532	12h 35m 14.2s	+06° 22' 05"	11.9	Galaxy	0.0225x0.01	Virgo	
NGC 3773	11h 39m 08.8s	+12° 00' 46"	12.0	Galaxy	0.01x0.008	Leo	
NGC 4045	12h 03m 37.5s	+01° 52' 36"	12.0	Galaxy	0.022x0.014	Virgo	
NGC 4116	12h 08m 32.3s	+02° 35' 27"	12.0	Galaxy	0.031x0.019	Virgo	
NGC 4307	12h 23m 00.2s	+08° 56' 32"	12.0	Galaxy	0.029x0.006	Virgo	
NGC 4313	12h 23m 33.1s	+11° 42' 05"	12.0	Galaxy	0.031x0.007	Virgo	
IC 4430	12h 28m 21.2s	+06° 09' 48"	12.0	Galaxy	0.019x0.016	Virgo	
NGC 4452	12h 29m 38.0s	+11° 39' 20"	12.0	Galaxy	0.022x0.005	Virgo	
NGC 4551	12h 36m 32.5s	+12° 09' 54"	12.0	Galaxy	0.015x0.011	Virgo	
NGC 3692	11h 29m 19.7s	+09° 18' 31"	12.1	Galaxy	0.025x0.005	Leo	
NGC 4215	12h 16m 49.8s	+06° 18' 03"	12.1	Galaxy	0.015x0.005	Virgo	
NGC 4294	12h 22m 12.7s	+11° 24' 36"	12.1	Galaxy	0.026x0.01	Virgo	
NGC 4343	12h 24m 33.7s	+06° 51' 17"	12.1	Galaxy	0.019x0.005	Virgo	
NGC 4387	12h 26m 36.4s	+12° 42' 39"	12.1	Galaxy	0.014x0.009	Virgo	
NGC 4415	12h 27m 35.4s	+08° 20' 12"	12.1	Galaxy	0.011x0.01	Virgo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4420	12h 27m 53.6s	+02° 23' 41"	12.1	Galaxy	0.016x0.008	Virgo	
NGC 4528	12h 35m 00.6s	+11° 13' 19"	12.1	Galaxy	0.013x0.008	Virgo	
NGC 4610	12h 30m 32.8s	+07° 43' 28"	12.1	Galaxy	0.010x0.007	Virgo	
NGC 4270	12h 20m 44.6s	+05° 21' 49"	12.2	Galaxy	0.016x0.007	Virgo	
NGC 4292	12h 22m 11.6s	+04° 29' 47"	12.2	Galaxy	0.013x0.01	Virgo	
NGC 4434	12h 28m 31.5s	+08° 03' 18"	12.2	Galaxy	0.011x0.011	Virgo	
NGC 4476	12h 30m 53.7s	+12° 14' 57"	12.2	Galaxy	0.015x0.010	Virgo	
NGC 4483	12h 31m 35.4s	+08° 54' 59"	12.2	Galaxy	0.013x0.006	Virgo	
NGC 4488	12h 31m 46.2s	+08° 15' 38"	12.2	Galaxy	0.034x0.014	Virgo	
NGC 3666	11h 25m 22.3s	+11° 14' 35"	12.3	Galaxy	0.036x0.008	Leo	
NGC 4360	12h 25m 16.7s	+09° 11' 36"	12.3	Galaxy	0.0125x0.01	Virgo	
NGC 4411B	12h 27m 42.1s	+08° 47' 06"	12.3	Galaxy	0.020x0.020	Virgo	4411B
NGC 4522	12h 34m 34.5s	+09° 04' 30"	12.3	Galaxy	0.03x0.008	Virgo	
NGC 4277	12h 20m 58.8s	+05° 14' 32"	12.4	Galaxy	0.009x0.006	Virgo	
NGC 4330	12h 24m 11.9s	+11° 16' 08"	12.4	Galaxy	0.037x0.007	Virgo	
NGC 4412	12h 27m 31.2s	+03° 51' 55"	12.4	Galaxy	0.011x0.01	Virgo	
NGC 4416	12h 27m 41.7s	+07° 49' 10"	12.4	Galaxy	0.014x0.012	Virgo	
NGC 4480	12h 31m 21.8s	+04° 08' 48"	12.4	Galaxy	0.018x0.009	Virgo	
NGC 4067	12h 05m 06.8s	+10° 45' 15"	12.5	Galaxy	0.010x0.007	Virgo	
NGC 4276	12h 21m 02.8s	+07° 35' 30"	12.5	Galaxy	0.013x0.011	Virgo	
NGC 4299	12h 22m 35.4s	+11° 24' 06"	12.5	Galaxy	0.014x0.013	Virgo	
NGC 4342	12h 24m 34.1s	+06° 57' 17"	12.5	Galaxy	0.01x0.005	Virgo	
NGC 4385	12h 26m 37.9s	+00° 28' 23"	12.5	Galaxy	0.017x0.010	Virgo	
IC 4451	12h 29m 35.4s	+09° 09' 34"	12.5	Galaxy	0.012x0.007	Virgo	
IC 4464	12h 30m 16.1s	+08° 03' 27"	12.5	Galaxy	0.007x0.005	Virgo	
NGC 4486A	12h 31m 52.3s	+12° 10' 19"	12.5	Galaxy	0.006x0.005	Virgo	4486A
NGC 4497	12h 32m 27.3s	+11° 31' 33"	12.5	Galaxy	0.015x0.006	Virgo	
NGC 4517A	12h 33m 23.4s	+00° 17' 28"	12.5	Galaxy	0.033x0.021	Virgo	4517A
IC 724	11h 44m 30.2s	+08° 50' 33"	12.5	Galaxy	0.019x0.007	Virgo	
NGC 4180	12h 13m 58.2s	+06° 56' 22"	12.6	Galaxy	0.012x0.004	Virgo	
NGC 4207	12h 16m 25.2s	+09° 29' 08"	12.6	Galaxy	0.013x0.006	Virgo	
NGC 4305	12h 22m 58.4s	+12° 38' 28"	12.6	Galaxy	0.018x0.01	Virgo	
NGC 4306	12h 22m 59.0s	+12° 41' 16"	12.6	Galaxy	0.013x0.009	Virgo	
IC 4351	12h 24m 56.3s	+12° 06' 18"	12.6	Galaxy	0.016x0.011	Virgo	
IC 4352	12h 24m 59.7s	+11° 07' 05"	12.6	Galaxy	0.016x0.008	Virgo	
NGC 4370	12h 25m 50.0s	+07° 20' 41"	12.6	Galaxy	0.010x0.005	Virgo	
NGC 4390	12h 26m 45.3s	+10° 21' 34"	12.6	Galaxy	0.013x0.01	Virgo	
NGC 4491	12h 31m 51.8s	+11° 23' 03"	12.6	Galaxy	0.013x0.006	Virgo	
NGC 4492	12h 31m 54.6s	+07° 58' 44"	12.6	Galaxy	0.014x0.013	Virgo	
IC 769	12h 13m 27.3s	+12° 01' 24"	12.6	Galaxy	0.020x0.014	Virgo	
NGC 4234	12h 18m 04.3s	+03° 35' 00"	12.7	Galaxy	0.010x0.010	Virgo	
NGC 4246	12h 18m 53.2s	+07° 05' 08"	12.7	Galaxy	0.019x0.01	Virgo	
IC 4296	12h 22m 23.5s	+06° 33' 14"	12.7	Galaxy	0.011x0.007	Virgo	
NGC 4411A	12h 27m 24.9s	+08° 46' 20"	12.7	Galaxy	0.016x0.015	Virgo	4411A
NGC 4482	12h 31m 05.0s	+10° 40' 47"	12.7	Galaxy	0.014x0.008	Virgo	
NGC 3664	11h 25m 20.0s	+03° 13' 38"	12.8	Galaxy	0.016x0.015	Leo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3869	11h 46m 41.1s	+10° 43' 29"	12.8	Galaxy	0.015x0.004	Leo	
NGC 3876	11h 46m 22.1s	+09° 03' 39"	12.8	Galaxy	0.009x0.005	Virgo	
3C273	12h 30m 01.9s	+01° 57' 11"	12.8	Qua	1.388x1.388	Virgo	
IC 4191	12h 14m 45.5s	+07° 06' 03"	12.8	Galaxy	0.01x0.006	Virgo	
IC 4197	12h 15m 33.8s	+05° 42' 22"	12.8	Galaxy	0.028x0.005	Virgo	
NGC 4255	12h 19m 51.3s	+04° 41' 12"	12.8	Galaxy	0.010x0.004	Virgo	
NGC 4264	12h 20m 30.7s	+05° 44' 50"	12.8	Galaxy	0.007x0.005	Virgo	
NGC 4268	12h 20m 42.3s	+05° 11' 04"	12.8	Galaxy	0.011x0.005	Virgo	
NGC 4309	12h 23m 07.4s	+07° 02' 42"	12.8	Galaxy	0.015x0.008	Virgo	
NGC 4410A	12h 27m 23.2s	+08° 55' 13"	12.8	Galaxy	0.004x0.003	Virgo	4410A
NGC 4445	12h 29m 11.0s	+09° 20' 14"	12.8	Galaxy	0.021x0.004	Virgo	
NGC 3863	11h 46m 01.1s	+08° 22' 12"	12.9	Galaxy	0.023x0.005	Virgo	
NGC 4269	12h 20m 44.3s	+05° 54' 56"	12.9	Galaxy	0.010x0.006	Virgo	
NGC 4300	12h 22m 36.4s	+05° 17' 06"	12.9	Galaxy	0.012x0.005	Virgo	
NGC 4316	12h 23m 37.1s	+09° 13' 58"	12.9	Galaxy	0.020x0.004	Virgo	
NGC 4431	12h 28m 22.1s	+12° 11' 28"	12.9	Galaxy	0.014x0.008	Virgo	
IC 3322A	12h 26m 37.7s	+07° 07' 03"	12.9	Galaxy	0.028x0.003	Virgo	IC 3322A
NGC 3719	11h 33m 08.9s	+00° 43' 11"	13.0	Galaxy	0.014x0.010	Leo	
NGC 3720	11h 33m 17.0s	+00° 42' 16"	13.0	Galaxy	0.008x0.006	Leo	
NGC 3852	11h 43m 19.5s	+10° 09' 53"	13.0	Galaxy	0.010x0.008	Virgo	
IC 4200	12h 15m 39.3s	+12° 04' 51"	13.0	Galaxy	0.012x0.006	Virgo	
NGC 4301	12h 23m 22.4s	+04° 27' 58"	13.0	Galaxy	0.013x0.010	Virgo	
NGC 4334	12h 24m 19.1s	+07° 22' 25"	13.0	Galaxy	0.018x0.009	Virgo	
NGC 4436	12h 28m 36.0s	+12° 12' 59"	13.0	Galaxy	0.012x0.006	Virgo	
NGC 4541	12h 36m 06.1s	-00° 19' 12"	13.0	Galaxy	0.013x0.005	Virgo	
NGC 4544	12h 36m 31.7s	+02° 56' 12"	13.0	Galaxy	0.016x0.005	Virgo	
NGC 3731	11h 35m 07.5s	+12° 24' 47"	13.1	Galaxy	0.008x0.007	Leo	
NGC 3848	11h 43m 06.8s	+10° 10' 41"	13.1	Galaxy	0.011x0.006	Virgo	
NGC 4058	12h 04m 44.2s	+03° 26' 52"	13.1	Galaxy	0.01x0.005	Virgo	
NGC 4241	12h 18m 55.0s	+06° 33' 15"	13.1	Galaxy	0.014x0.011	Virgo	
NGC 4376	12h 26m 13.2s	+05° 38' 30"	13.1	Galaxy	0.011x0.007	Virgo	
IC 3258	12h 24m 39.3s	+12° 22' 44"	13.1	Galaxy	0.013x0.010	Virgo	
IC 3468	12h 33m 08.8s	+10° 09' 10"	13.1	Galaxy	0.01x0.009	Virgo	
IC 3475	12h 33m 35.2s	+12° 40' 13"	13.1	Galaxy	0.014x0.013	Virgo	
IC 719	11h 41m 14.2s	+08° 54' 36"	13.1	Galaxy	0.010x0.003	Virgo	
IC 794	12h 29m 03.2s	+11° 59' 40"	13.1	Galaxy	0.010x0.008	Virgo	
NGC 3641	11h 22m 04.4s	+03° 05' 45"	13.2	Galaxy	0.007x0.007	Leo	
NGC 3914	11h 51m 28.1s	+06° 28' 03"	13.2	Galaxy	0.009x0.005	Virgo	
NGC 4107	12h 05m 42.9s	+10° 29' 44"	13.2	Galaxy	0.010x0.004	Virgo	
NGC 4341	12h 24m 48.1s	+07° 00' 26"	13.2	Galaxy	0.014x0.005	Virgo	
IC 3521	12h 35m 34.4s	+07° 03' 38"	13.2	Galaxy	0.011x0.007	Virgo	
IC 745	11h 55m 07.6s	+00° 02' 12"	13.2	Galaxy	0.005x0.005	Virgo	
NGC 3817	11h 42m 48.5s	+10° 12' 16"	13.3	Galaxy	0.008x0.007	Virgo	
NGC 3839	11h 44m 50.1s	+10° 41' 04"	13.3	Galaxy	0.008x0.004	Leo	
NGC 4044	12h 03m 24.8s	-00° 18' 46"	13.3	Galaxy	0.01x0.009	Virgo	
NGC 4077	12h 05m 33.3s	+01° 41' 17"	13.3	Galaxy	0.01x0.0075	Virgo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4318	12h 23m 38.2s	+08° 05' 58"	13.3	Galaxy	0.005x0.004	Virgo	
NGC 4326	12h 24m 06.7s	+05° 58' 22"	13.3	Galaxy	0.011x0.009	Virgo	
NGC 4356	12h 25m 09.6s	+08° 26' 14"	13.3	Galaxy	0.023x0.004	Virgo	
NGC 4368	12h 24m 01.5s	+10° 31' 19"	13.3	Galaxy	0.008x0.005	Virgo	
IC 3107	12h 18m 42.0s	+10° 44' 41"	13.3	Galaxy	0.011x0.006	Virgo	
IC 3268	12h 25m 02.7s	+06° 30' 26"	13.3	Galaxy	0.007x0.006	Virgo	
IC 3358	12h 27m 49.2s	+11° 33' 50"	13.3	Galaxy	0.01x0.006	Virgo	
IC 3414	12h 30m 23.9s	+06° 40' 14"	13.3	Galaxy	0.012x0.007	Virgo	
IC 3470	12h 33m 18.0s	+11° 09' 51"	13.3	Galaxy	0.005x0.005	Virgo	
IC 3499	12h 34m 39.7s	+10° 53' 47"	13.3	Galaxy	0.011x0.004	Virgo	
NGC 4012	11h 59m 22.9s	+09° 55' 17"	13.4	Galaxy	0.015x0.005	Virgo	
NGC 4423	12h 28m 04.2s	+05° 46' 51"	13.4	Galaxy	0.019x0.003	Virgo	
NGC 4486B	12h 31m 26.6s	+12° 23' 29"	13.4	Galaxy	0.005x0.005	Virgo	4486B
IC 3267	12h 25m 00.5s	+06° 56' 27"	13.4	Galaxy	0.01x0.01	Virgo	
IC 3381	12h 29m 09.5s	+11° 41' 24"	13.4	Galaxy	0.01x0.0075	Virgo	
IC 3481	12h 33m 46.9s	+11° 18' 20"	13.4	Galaxy	0.006x0.005	Virgo	
IC 3481A	12h 33m 51.4s	+11° 17' 29"	13.4	Galaxy	0.001x0.001	Virgo	IC 3481A, Zwicky's triplet
IC 698	11h 29m 59.5s	+09° 00' 47"	13.4	Galaxy	0.008x0.004	Leo	
NGC 3633	11h 21m 21.8s	+03° 29' 12"	13.5	Galaxy	0.009x0.003	Leo	
NGC 3716	11h 32m 36.7s	+03° 23' 19"	13.5	Galaxy	0.005x0.005	Leo	
NGC 3833	11h 44m 24.6s	+10° 03' 41"	13.5	Galaxy	0.011x0.005	Virgo	
NGC 3843	11h 44m 50.2s	+07° 49' 34"	13.5	Galaxy	0.007x0.003	Virgo	
NGC 4029	12h 00m 58.5s	+08° 04' 55"	13.5	Galaxy	0.01x0.005	Virgo	
NGC 4247	12h 18m 53.0s	+07° 10' 28"	13.5	Galaxy	0.006x0.005	Virgo	
NGC 4466	12h 30m 25.5s	+07° 35' 51"	13.5	Galaxy	0.009x0.002	Virgo	
NGC 4576	12h 38m 28.6s	+04° 16' 07"	13.5	Galaxy	0.01x0.006	Virgo	
IC 2828	11h 28m 07.0s	+08° 37' 59"	13.5	Galaxy	0.007x0.005	Leo	
IC 3259	12h 24m 43.6s	+07° 05' 12"	13.5	Galaxy	0.014x0.007	Virgo	
IC 3322	12h 26m 49.1s	+07° 27' 19"	13.5	Galaxy	0.019x0.004	Virgo	
IC 3576	12h 37m 32.7s	+06° 31' 21"	13.5	Galaxy	0.019x0.017	Virgo	
IC 773	12h 19m 03.1s	+06° 02' 22"	13.5	Galaxy	0.006x0.005	Virgo	
NGC 4043	12h 03m 18.3s	+04° 13' 47"	13.6	Galaxy	0.005x0.004	Virgo	
NGC 4259	12h 20m 17.3s	+05° 16' 38"	13.6	Galaxy	0.009x0.003	Virgo	
IC 4333	12h 24m 17.3s	+05° 56' 29"	13.6	Galaxy	0.006x0.005	Virgo	
NGC 4353	12h 24m 55.2s	+07° 41' 04"	13.6	Galaxy	0.007x0.005	Virgo	
NGC 4410B	12h 27m 24.5s	+08° 55' 10"	13.6	Galaxy	0.004x0.004	Virgo	4410B
NGC 4543	12h 36m 15.2s	+06° 00' 60"	13.6	Galaxy	0.007x0.005	Virgo	
IC 2822	11h 27m 30.0s	+11° 20' 26"	13.6	Galaxy	0.012x0.005	Leo	
IC 3413	12h 30m 17.3s	+11° 20' 03"	13.6	Galaxy	0.008x0.005	Virgo	
IC 3425	12h 30m 51.3s	+10° 30' 58"	13.6	Galaxy	0.013x0.005	Virgo	
IC 3586	12h 37m 49.4s	+12° 25' 17"	13.6	Galaxy	0.009x0.008	Virgo	
IC 692	11h 26m 49.5s	+09° 53' 18"	13.6	Galaxy	0.005x0.004	Leo	
IC 696	11h 29m 35.8s	+08° 59' 59"	13.6	Galaxy	0.008x0.007	Leo	
IC 722	11h 43m 39.3s	+08° 52' 28"	13.6	Galaxy	0.009x0.005	Virgo	
IC 753	12h 00m 08.2s	-00° 37' 26"	13.6	Galaxy	0.003x0.002	Virgo	
IC 756	12h 03m 53.1s	+04° 44' 41"	13.6	Galaxy	0.015x0.005	Virgo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3644	11h 22m 28.4s	+02° 42' 41"	13.7	Galaxy	0.012x0.005	Leo	
NGC 3849	11h 46m 30.6s	+03° 07' 56"	13.7	Galaxy	0.006x0.004	Virgo	
NGC 4075	12h 05m 33.1s	+01° 58' 21"	13.7	Galaxy	0.01x0.005	Virgo	
NGC 4139	12h 05m 29.3s	+01° 42' 04"	13.7	Galaxy	0.008x0.004	Virgo	
NGC 4266	12h 20m 37.3s	+05° 26' 18"	13.7	Galaxy	0.015x0.003	Virgo	
IC 2853	11h 29m 10.7s	+09° 02' 55"	13.7	Galaxy	0.008x0.004	Leo	
IC 2941	11h 37m 05.8s	+09° 57' 22"	13.7	Galaxy	0.007x0.006	Leo	
IC 3036	12h 13m 10.2s	+12° 23' 19"	13.7	Galaxy	0.013x0.01	Virgo	
IC 3167	12h 21m 13.8s	+09° 26' 44"	13.7	Galaxy	0.011x0.005	Virgo	
IC 3328	12h 26m 52.9s	+09° 57' 16"	13.7	Galaxy	0.005x0.005	Virgo	
IC 768	12h 12m 42.6s	+12° 02' 35"	13.7	Galaxy	0.011x0.005	Virgo	
IC 776	12h 19m 57.9s	+08° 45' 26"	13.7	Galaxy	0.015x0.006	Virgo	
NGC 3819	11h 43m 01.5s	+10° 15' 06"	13.8	Galaxy	0.006x0.005	Leo	
NGC 4467	12h 30m 25.2s	+07° 53' 36"	13.8	Galaxy	0.003x0.002	Virgo	
IC 4518	12h 34m 06.6s	+07° 45' 11"	13.8	Galaxy	0.008x0.003	Virgo	
NGC 4533	12h 35m 17.3s	+02° 13' 34"	13.8	Galaxy	0.017x0.003	Virgo	
IC 3132	12h 19m 45.9s	+07° 45' 42"	13.8	Galaxy	0.011x0.011	Virgo	
IC 3134	12h 19m 51.0s	+08° 51' 45"	13.8	Galaxy	0.005x0.002	Virgo	
IC 3271	12h 25m 08.9s	+07° 51' 10"	13.8	Galaxy	0.008x0.008	Virgo	
IC 3303	12h 26m 09.9s	+12° 36' 55"	13.8	Galaxy	0.008x0.005	Virgo	
IC 3418	12h 30m 37.2s	+11° 18' 05"	13.8	Galaxy	0.012x0.008	Virgo	
IC 3591	12h 37m 57.7s	+06° 49' 38"	13.8	Galaxy	0.01x0.005	Virgo	
IC 737	11h 49m 23.1s	+12° 37' 38"	13.8	Galaxy	0.005x0.004	Leo	
IC 767	12h 11m 57.9s	+12° 00' 15"	13.8	Galaxy	0.005x0.004	Virgo	
IC 782	12h 22m 32.0s	+05° 39' 60"	13.8	Galaxy	0.009x0.005	Virgo	
NGC 4063	12h 05m 01.2s	+01° 44' 48"	13.9	Galaxy	0.009x0.002	Virgo	
IC 4320	12h 23m 52.7s	+10° 26' 58"	13.9	Galaxy	0.008x0.005	Virgo	
IC 4505	12h 32m 35.9s	+03° 49' 39"	13.9	Galaxy	0.006x0.005	Virgo	
IC 3060	12h 15m 57.0s	+12° 26' 52"	13.9	Galaxy	0.007x0.004	Virgo	
IC 3063	12h 16m 01.8s	+11° 54' 58"	13.9	Galaxy	0.008x0.005	Virgo	
IC 3100	12h 18m 00.3s	+12° 11' 22"	13.9	Galaxy	0.012x0.004	Virgo	
IC 3225	12h 23m 34.1s	+06° 34' 36"	13.9	Galaxy	0.015x0.005	Virgo	
IC 3349	12h 27m 41.8s	+12° 21' 16"	13.9	Galaxy	0.007x0.006	Virgo	
IC 3457	12h 32m 46.0s	+12° 33' 29"	13.9	Galaxy	0.01x0.006	Virgo	
IC 3509	12h 35m 06.1s	+11° 57' 01"	13.9	Galaxy	0.007x0.005	Virgo	
IC 699	11h 30m 02.4s	+08° 53' 23"	13.9	Galaxy	0.01x0.0025	Leo	
IC 718	11h 40m 48.4s	+08° 46' 29"	13.9	Galaxy	0.01x0.004	Virgo	
IC 720	11h 43m 17.9s	+08° 40' 02"	13.9	Galaxy	0.009x0.005	Virgo	
IC 789	12h 27m 15.5s	+07° 21' 39"	13.9	Galaxy	0.008x0.004	Virgo	
IC 4249	12h 18m 54.5s	+05° 29' 57"	14.0	Galaxy	0.005x0.005	Virgo	
IC 4252	12h 19m 26.1s	+05° 27' 36"	14.0	Galaxy	0.010x0.002	Virgo	
NGC 4257	12h 20m 01.7s	+05° 37' 35"	14.0	Galaxy	0.012x0.004	Virgo	
IC 4289	12h 21m 57.6s	+03° 37' 23"	14.0	Galaxy	0.032x0.003	Virgo	
NGC 4432	12h 28m 28.0s	+06° 08' 02"	14.0	Galaxy	0.007x0.005	Virgo	
IC 2757	11h 22m 58.0s	+08° 17' 42"	14.0	Galaxy	0.004x0.002	Leo	
IC 3199	12h 22m 40.4s	+10° 29' 47"	14.0	Galaxy	0.008x0.005	Virgo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3510	12h 35m 09.6s	+10° 58' 21"	14.0	Galaxy	0.007x0.005	Virgo	
IC 3540	12h 36m 21.7s	+12° 39' 07"	14.0	Galaxy	0.005x0.005	Virgo	
IC 683	11h 22m 27.2s	+02° 39' 12"	14.0	Galaxy	0.006x0.005	Leo	
IC 716	11h 39m 58.6s	-00° 18' 19"	14.0	Galaxy	0.013x0.002	Virgo	
NGC 3643	11h 22m 20.5s	+02° 54' 55"	14.1	Galaxy	0.01x0.006	Leo	
NGC 3685	11h 29m 11.8s	+04° 13' 42"	14.1	Galaxy	0.005x0.003	Leo	
NGC 4282	12h 21m 19.3s	+05° 28' 25"	14.1	Galaxy	0.01x0.005	Virgo	
NGC 4493-1	12h 32m 03.6s	+00° 30' 54"	14.1	Galaxy	0.008x0.006	Virgo	4493-1
IC 3074	12h 16m 41.1s	+10° 35' 55"	14.1	Galaxy	0.019x0.002	Virgo	
IC 3105	12h 18m 28.4s	+12° 17' 10"	14.1	Galaxy	0.015x0.005	Virgo	
IC 3111	12h 18m 45.8s	+08° 19' 51"	14.1	Galaxy	0.004x0.002	Virgo	
IC 3118	12h 19m 06.1s	+09° 24' 01"	14.1	Galaxy	0.012x0.005	Virgo	
IC 3148	12h 20m 16.7s	+07° 46' 15"	14.1	Galaxy	0.005x0.005	Virgo	
IC 3383	12h 29m 07.2s	+10° 11' 53"	14.1	Galaxy	0.007x0.005	Virgo	
IC 727	11h 45m 24.4s	+10° 41' 00"	14.1	Galaxy	0.013x0.001	Leo	
IC 3647	11h 22m 28.1s	+02° 47' 18"	14.2	Galaxy	0.005x0.004	Leo	
NGC 4518B	12h 34m 05.4s	+07° 44' 07"	14.2	Galaxy	0.007x0.002	Virgo	4518B
IC 2758	11h 22m 59.1s	+07° 42' 54"	14.2	Galaxy	0.005x0.001	Leo	
IC 3025	12h 11m 18.2s	+10° 05' 19"	14.2	Galaxy	0.005x0.003	Virgo	
IC 3097	12h 17m 56.1s	+09° 18' 27"	14.2	Galaxy	0.005x0.002	Virgo	
IC 3099	12h 18m 04.2s	+12° 21' 12"	14.2	Galaxy	0.015x0.002	Virgo	
IC 3128A	12h 19m 36.8s	+11° 37' 53"	14.2	Galaxy	0.005x0.003	Virgo	IC 3128A
IC 3149	12h 20m 19.1s	+12° 12' 06"	14.2	Galaxy	0.006x0.005	Virgo	
IC 3151	12h 20m 27.8s	+09° 18' 54"	14.2	Galaxy	0.006x0.003	Virgo	
IC 3155	12h 20m 40.3s	+05° 54' 24"	14.2	Galaxy	0.01x0.005	Virgo	
IC 3173	12h 21m 25.0s	+11° 14' 30"	14.2	Galaxy	0.002x0.001	Virgo	
IC 3255	12h 24m 29.7s	+09° 32' 57"	14.2	Galaxy	0.003x0.002	Virgo	
IC 3437	12h 31m 40.6s	+11° 14' 37"	14.2	Galaxy	0.007x0.003	Virgo	
IC 3459	12h 32m 50.5s	+12° 04' 32"	14.2	Galaxy	0.009x0.006	Virgo	
IC 3461	12h 32m 57.4s	+11° 47' 26"	14.2	Galaxy	0.005x0.005	Virgo	
IC 3474	12h 33m 32.0s	+02° 33' 48"	14.2	Galaxy	0.018x0.002	Virgo	
IC 3518	12h 35m 26.0s	+09° 31' 29"	14.2	Galaxy	0.01x0.005	Virgo	
NGC 4287	12h 21m 43.5s	+05° 32' 27"	14.3	Galaxy	0.01x0.001	Virgo	
IC 4366	12h 25m 42.0s	+07° 15' 11"	14.3	Galaxy	0.006x0.003	Virgo	
IC 2829	11h 28m 10.9s	+10° 13' 25"	14.3	Galaxy	0.004x0.002	Leo	
IC 2871	11h 30m 16.4s	+08° 30' 11"	14.3	Galaxy	0.006x0.005	Leo	
IC 3012	12h 09m 19.1s	+11° 04' 37"	14.3	Galaxy	0.004x0.001	Virgo	
IC 3013	12h 09m 20.8s	+09° 54' 60"	14.3	Galaxy	0.007x0.005	Virgo	
IC 3028	12h 11m 30.7s	+11° 39' 41"	14.3	Galaxy	0.005x0.001	Virgo	
IC 3101	12h 18m 14.5s	+11° 50' 36"	14.3	Galaxy	0.005x0.003	Virgo	
IC 3136	12h 19m 52.3s	+06° 05' 02"	14.3	Galaxy	0.007x0.002	Virgo	
IC 3153	12h 20m 32.0s	+05° 17' 55"	14.3	Galaxy	0.004x0.004	Virgo	
IC 3157	12h 20m 42.8s	+12° 19' 21"	14.3	Galaxy	0.006x0.003	Virgo	
IC 3170	12h 21m 21.6s	+09° 19' 29"	14.3	Galaxy	0.003x0.003	Virgo	
IC 3274	12h 25m 09.5s	+09° 10' 03"	14.3	Galaxy	0.004x0.003	Virgo	
IC 3305	12h 26m 09.3s	+11° 45' 00"	14.3	Galaxy	0.01x0.003	Virgo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3311	12h 26m 27.9s	+12° 09' 39"	14.3	Galaxy	0.014x0.002	Virgo	
IC 3361	12h 27m 49.3s	+10° 33' 57"	14.3	Galaxy	0.006x0.004	Virgo	
IC 3363	12h 27m 57.7s	+12° 27' 42"	14.3	Galaxy	0.010x0.003	Virgo	
IC 3487	12h 34m 08.2s	+09° 17' 52"	14.3	Galaxy	0.006x0.003	Virgo	
IC 3574	12h 37m 22.2s	+12° 18' 24"	14.3	Galaxy	0.005x0.003	Virgo	
IC 3602	12h 39m 01.4s	+09° 58' 59"	14.3	Galaxy	0.007x0.002	Virgo	
NGC 4045A	12h 03m 38.0s	+01° 51' 07"	14.4	Galaxy	0.005x0.003	Virgo	4045A
IC 4538	12h 35m 35.9s	+03° 13' 28"	14.4	Galaxy	0.005x0.002	Virgo	
IC 2777	11h 23m 36.8s	+11° 55' 36"	14.4	Galaxy	0.006x0.003	Leo	
IC 2850	11h 29m 08.9s	+08° 57' 49"	14.4	Galaxy	0.005x0.001	Leo	
IC 3024	12h 11m 07.1s	+12° 13' 32"	14.4	Galaxy	0.008x0.003	Virgo	
IC 3174	12h 21m 24.5s	+10° 08' 45"	14.4	Galaxy	0.006x0.003	Virgo	
IC 3188	12h 21m 50.0s	+10° 54' 32"	14.4	Galaxy	0.005x0.003	Virgo	
IC 3209	12h 23m 01.0s	+11° 39' 18"	14.4	Galaxy	0.006x0.001	Virgo	
IC 3229	12h 23m 47.9s	+06° 34' 49"	14.4	Galaxy	0.008x0.002	Virgo	
IC 3331	12h 27m 00.1s	+11° 42' 47"	14.4	Galaxy	0.006x0.003	Virgo	
IC 3489	12h 34m 08.3s	+12° 08' 52"	14.4	Galaxy	0.005x0.005	Virgo	
IC 3578	12h 37m 34.1s	+11° 00' 09"	14.4	Galaxy	0.007x0.002	Virgo	
IC 748	11h 58m 22.0s	+07° 21' 40"	14.4	Galaxy	0.005x0.004	Virgo	
NGC 3664A	11h 25m 20.7s	+03° 07' 22"	14.5	Galaxy	0.009x0.008	Leo	3664A
NGC 3820	11h 43m 00.5s	+10° 17' 04"	14.5	Galaxy	0.005x0.003	Leo	
NGC 4465	12h 30m 18.4s	+07° 55' 36"	14.5	Galaxy	0.004x0.002	Virgo	
IC 2830	11h 28m 17.5s	+07° 42' 54"	14.5	Galaxy	0.004x0.004	Leo	
IC 2846	11h 28m 56.4s	+11° 03' 34"	14.5	Galaxy	0.007x0.005	Leo	
IC 2857	11h 29m 26.9s	+09° 00' 17"	14.5	Galaxy	0.015x0.001	Leo	
IC 2887	11h 31m 25.4s	+09° 17' 20"	14.5	Galaxy	0.007x8.333	Leo	
IC 3016	12h 10m 13.6s	+11° 19' 47"	14.5	Galaxy	0.005x0.005	Virgo	
IC 3038	12h 13m 27.7s	+11° 15' 12"	14.5	Galaxy	0.006x0.004	Virgo	
IC 3039	12h 13m 27.7s	+12° 12' 36"	14.5	Galaxy	0.008x0.002	Virgo	
IC 3078	12h 16m 55.0s	+12° 35' 16"	14.5	Galaxy	0.004x0.004	Virgo	
IC 3079	12h 16m 59.2s	+11° 26' 06"	14.5	Galaxy	0.004x0.003	Virgo	
IC 3081	12h 17m 04.0s	+12° 35' 28"	14.5	Galaxy	0.005x0.003	Virgo	
IC 3150	12h 20m 23.6s	+07° 41' 57"	14.5	Galaxy	0.003x0.001	Virgo	
IC 3175	12h 21m 28.3s	+09° 45' 15"	14.5	Galaxy	0.004x0.001	Virgo	
IC 3211	12h 23m 02.3s	+08° 53' 27"	14.5	Galaxy	0.006x0.006	Virgo	
IC 3284	12h 25m 32.4s	+10° 44' 20"	14.5	Galaxy	0.004x0.004	Virgo	
IC 3374	12h 28m 28.2s	+09° 54' 16"	14.5	Galaxy	0.005x0.004	Virgo	
IC 3388	12h 29m 22.8s	+12° 43' 27"	14.5	Galaxy	0.005x0.002	Virgo	
IC 3412	12h 30m 17.4s	+09° 53' 18"	14.5	Galaxy	0.005x0.002	Virgo	
IC 3430	12h 31m 11.9s	+08° 59' 06"	14.5	Galaxy	0.008x0.003	Virgo	
IC 686	11h 24m 00.8s	+05° 32' 43"	14.5	Galaxy	0.003x0.001	Leo	
NGC 4083	12h 06m 09.2s	+10° 30' 48"	14.6	Galaxy	0.006x0.003	Virgo	
IC 4297	12h 22m 22.5s	+06° 34' 18"	14.6	Galaxy	0.004x0.001	Virgo	
IC 2749	11h 22m 41.1s	+08° 28' 34"	14.6	Galaxy	0.005x0.002	Leo	
IC 2867	11h 29m 56.3s	+08° 59' 26"	14.6	Galaxy	0.003x0.002	Leo	
IC 2991	12h 06m 07.7s	+10° 32' 23"	14.6	Galaxy	0.005x0.001	Virgo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3037	12h 13m 15.6s	+09° 53' 09"	14.6	Galaxy	0.003x0.002	Virgo	
IC 3040	12h 13m 29.6s	+10° 58' 27"	14.6	Galaxy	0.005x0.005	Virgo	
IC 3156	12h 20m 39.2s	+09° 02' 56"	14.6	Galaxy	0.005x0.004	Virgo	
IC 3356	12h 27m 45.6s	+11° 27' 32"	14.6	Galaxy	0.012x0.007	Virgo	
IC 3357	12h 27m 46.3s	+09° 40' 41"	14.6	Galaxy	0.003x8.333	Virgo	
IC 3506	12h 35m 01.2s	+12° 38' 33"	14.6	Galaxy	0.005x0.004	Virgo	
IC 790	12h 27m 30.3s	+08° 56' 11"	14.6	Galaxy	0.005x0.002	Virgo	
IC 2762	11h 23m 14.1s	+12° 37' 25"	14.7	Galaxy	0.006x0.001	Leo	
IC 2994	12h 06m 23.1s	+12° 36' 10"	14.7	Galaxy	0.002x0.001	Virgo	
IC 3187	12h 21m 49.7s	+11° 03' 42"	14.7	Galaxy	0.005x0.002	Virgo	
IC 3208	12h 22m 50.4s	+11° 52' 02"	14.7	Galaxy	0.01x0.004	Virgo	
IC 3218	12h 23m 14.7s	+06° 49' 39"	14.7	Galaxy	0.003x0.003	Virgo	
IC 3346	12h 27m 39.3s	+11° 16' 49"	14.7	Galaxy	0.005x0.004	Virgo	
IC 3371	12h 28m 17.0s	+10° 46' 02"	14.7	Galaxy	0.015x0.001	Virgo	
IC 3416-1	12h 30m 30.3s	+10° 41' 40"	14.7	Galaxy	0.007x0.003	Virgo	IC 3416-1
IC 3446	12h 32m 17.7s	+11° 23' 36"	14.7	Galaxy	0.005x0.002	Virgo	
IC 3562	12h 37m 05.4s	+09° 49' 26"	14.7	Galaxy	0.006x0.002	Virgo	
IC 736	11h 49m 15.6s	+12° 37' 02"	14.7	Galaxy	0.004x0.004	Leo	
NGC 4082	12h 06m 06.6s	+10° 34' 14"	14.8	Galaxy	0.007x0.002	Virgo	
IC 2837	11h 28m 37.9s	+10° 12' 50"	14.8	Galaxy	0.003x0.003	Leo	
IC 3192	12h 21m 59.6s	+11° 39' 15"	14.8	Galaxy	0.005x0.003	Virgo	
IC 3220	12h 23m 16.6s	+10° 30' 05"	14.8	Galaxy	0.008x0.004	Virgo	
IC 3239	12h 24m 04.3s	+11° 37' 34"	14.8	Galaxy	0.006x0.002	Virgo	
IC 3315	12h 26m 33.8s	+12° 12' 50"	14.8	Galaxy	0.005x0.004	Virgo	
IC 3542	12h 36m 35.8s	+11° 34' 04"	14.8	Galaxy	0.003x0.002	Virgo	
NGC 3976A	11h 56m 58.0s	+06° 34' 38"	14.9	Galaxy	0.004x0.001	Virgo	3976A
IC 4453	12h 29m 41.8s	+06° 24' 46"	14.9	Galaxy	0.004x0.001	Virgo	
IC 2870	11h 30m 08.3s	+11° 45' 56"	14.9	Galaxy	0.010x0.009	Leo	
IC 2930	11h 34m 39.9s	+09° 59' 21"	14.9	Galaxy	0.004x0.001	Leo	
IC 3261	12h 24m 47.3s	+11° 22' 52"	14.9	Galaxy	0.007x0.003	Virgo	
IC 3443	12h 32m 10.2s	+12° 13' 59"	14.9	Galaxy	0.003x0.003	Virgo	
IC 3467	12h 33m 19.1s	+11° 41' 18"	14.9	Galaxy	0.009x0.001	Virgo	
IC 3483	12h 34m 04.6s	+11° 14' 52"	14.9	Galaxy	0.004x0.003	Virgo	
IC 3517	12h 35m 25.7s	+09° 03' 21"	14.9	Galaxy	0.009x0.005	Virgo	
IC 3908	11h 50m 48.2s	+12° 05' 11"	15.0	Galaxy	0.003x0.003	Leo	
IC 3973	11h 56m 32.4s	+11° 53' 49"	15.0	Galaxy	0.003x0.002	Leo	
NGC 4292A	12h 22m 11.9s	+04° 31' 60"	15.0	Galaxy	0.002x0.001	Virgo	4292A
NGC 4309A	12h 23m 09.8s	+07° 04' 00"	15.0	Galaxy	0.002x0.002	Virgo	4309A
IC 2734	11h 21m 20.1s	+12° 20' 39"	15.0	Galaxy	0.005x0.001	Leo	
IC 2753	11h 22m 55.7s	+09° 46' 44"	15.0	Galaxy	0.001x0.001	Leo	
IC 2780-1	11h 23m 44.1s	+10° 03' 02"	15.0	Galaxy	0.002x0.002	Leo	IC 2780-1
IC 2793-1	11h 24m 43.3s	+09° 21' 08"	15.0	Galaxy	0.003x0.003	Leo	IC 2793-1
IC 2801	11h 25m 25.0s	+10° 05' 04"	15.0	Galaxy	0.004x0.002	Leo	
IC 2811	11h 26m 40.6s	+09° 04' 16"	15.0	Galaxy	0.005x0.002	Leo	
IC 2816	11h 27m 14.3s	+10° 32' 14"	15.0	Galaxy	0.005x0.002	Leo	
IC 2844	11h 28m 54.1s	+11° 21' 15"	15.0	Galaxy	0.004x0.002	Leo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2876	11h 30m 29.4s	+08° 55' 00"	15.0	Galaxy	0.005x0.001	Leo	
IC 3147-2	12h 20m 13.6s	+11° 55' 07"	15.0	Galaxy	0.002x0.001	Virgo	IC 3147-2
IC 3548	12h 36m 51.1s	+10° 50' 13"	15.0	Galaxy	0.005x0.003	Virgo	
IC 3606	12h 39m 19.6s	+12° 30' 41"	15.0	Galaxy	0.002x0.002	Virgo	
IC 2990	12h 05m 33.7s	+10° 56' 59"	15.1	Galaxy	0.006x0.002	Virgo	
NGC 3705B	11h 30m 39.5s	+09° 06' 22"	15.2	Galaxy	0.003x0.001	Leo	3705B
NGC 4519A	12h 34m 19.5s	+08° 35' 29"	15.2	Galaxy	0.005x0.001	Virgo	4519A
NGC 4535A	12h 35m 08.7s	+08° 10' 28"	15.2	Galaxy	0.005x0.004	Virgo	4535A
IC 2727	11h 20m 56.2s	+11° 56' 04"	15.2	Galaxy	0.003x0.003	Leo	
IC 2756	11h 22m 57.0s	+09° 51' 40"	15.2	Galaxy	0.004x0.001	Leo	
IC 2768	11h 23m 19.7s	+12° 25' 48"	15.2	Galaxy	0.002x0.001	Leo	
IC 2792	11h 24m 37.6s	+11° 18' 19"	15.2	Galaxy	0.003x0.001	Leo	
IC 2796-1	11h 25m 04.3s	+09° 14' 49"	15.2	Galaxy	0.003x0.002	Leo	IC 2796-1
IC 2800	11h 25m 23.1s	+12° 06' 35"	15.2	Galaxy	0.004x0.001	Leo	
IC 2803	11h 25m 31.3s	+09° 45' 03"	15.2	Galaxy	0.003x8.333	Leo	
IC 2812	11h 26m 52.0s	+11° 25' 52"	15.2	Galaxy	0.004x0.001	Leo	
IC 2814	11h 27m 04.5s	+09° 33' 45"	15.2	Galaxy	0.002x0.001	Leo	
IC 2851	11h 29m 10.5s	+11° 17' 42"	15.2	Galaxy	0.003x0.001	Leo	
IC 2878	11h 30m 34.1s	+09° 52' 05"	15.2	Galaxy	0.002x0.001	Leo	
IC 2879	11h 30m 40.0s	+08° 54' 51"	15.2	Galaxy	0.004x0.002	Leo	
IC 2892	11h 31m 44.9s	+10° 29' 19"	15.2	Galaxy	0.004x0.001	Leo	
IC 2903	11h 32m 36.8s	+12° 32' 34"	15.2	Galaxy	0.003x0.001	Leo	
IC 2912	11h 33m 02.9s	+11° 36' 39"	15.2	Galaxy	0.004x8.333	Leo	
IC 3092	12h 17m 27.2s	+09° 56' 47"	15.2	Galaxy	0.003x0.001	Virgo	
IC 3128B	12h 19m 38.0s	+11° 37' 35"	15.2	Galaxy	0.001x0.001	Virgo	IC 3128B
IC 3366	12h 28m 07.0s	+09° 18' 38"	15.2	Galaxy	0.002x0.001	Virgo	
IC 3416-2	12h 30m 29.6s	+10° 41' 33"	15.2	Galaxy	0.003x0.001	Virgo	IC 3416-2
IC 3466	12h 33m 00.2s	+11° 43' 06"	15.2	Galaxy	0.005x0.003	Virgo	
IC 2723	11h 20m 44.1s	+11° 56' 04"	15.3	Galaxy	0.002x0.002	Leo	
IC 2746	11h 22m 32.6s	+11° 38' 16"	15.3	Galaxy	0.002x0.001	Leo	
IC 2798	11h 25m 20.2s	+12° 19' 00"	15.3	Galaxy	0.006x8.333	Leo	
IC 3127	12h 19m 30.1s	+11° 46' 12"	15.3	Galaxy	0.005x0.004	Virgo	
IC 3604	12h 39m 15.2s	+11° 37' 54"	15.3	Galaxy	0.002x0.001	Virgo	
IC 2815	11h 27m 12.6s	+12° 42' 16"	15.4	Galaxy	0.003x0.001	Leo	
IC 2842	11h 28m 43.6s	+09° 33' 10"	15.4	Galaxy	0.002x8.333	Leo	
IC 2942	11h 37m 07.9s	+11° 42' 56"	15.4	Galaxy	0.003x0.001	Leo	
IC 3043	12h 13m 42.3s	+09° 54' 36"	15.4	Galaxy	0.005x0.001	Virgo	
IC 3052	12h 14m 43.3s	+12° 35' 25"	15.4	Galaxy	0.003x0.002	Virgo	
IC 3069	12h 16m 14.9s	+10° 03' 39"	15.4	Galaxy	0.004x0.001	Virgo	
IC 3138-1	12h 19m 51.0s	+12° 20' 44"	15.4	Galaxy	0.002x0.001	Virgo	IC 3138-1
IC 3347	12h 27m 39.3s	+10° 49' 09"	15.4	Galaxy	0.003x0.001	Virgo	
IC 3445	12h 32m 14.0s	+12° 38' 19"	15.4	Galaxy	0.003x0.002	Virgo	
IC 2732	11h 21m 08.7s	+12° 18' 19"	15.5	Galaxy	0.002x0.002	Leo	
IC 2739	11h 22m 08.6s	+11° 48' 56"	15.5	Galaxy	0.001x0.001	Leo	
IC 2775	11h 23m 35.7s	+12° 24' 48"	15.5	Galaxy	0.001x0.001	Leo	
IC 2802	11h 25m 26.4s	+12° 06' 35"	15.5	Galaxy	0.001x0.001	Leo	

Table 110: Main objects visible on chart 103 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3147-1	12h 20m 12.0s	+11° 55' 01"	15.5	Galaxy	0.004x0.004	Virgo	IC 3147-1
IC 3233	12h 23m 49.7s	+12° 28' 00"	15.5	Galaxy	0.002x8.333	Virgo	
IC 3291	12h 25m 43.1s	+11° 55' 10"	15.5	Galaxy	0.003x0.001	Virgo	
IC 3465	12h 33m 06.9s	+11° 57' 44"	15.5	Galaxy	0.004x0.002	Virgo	
IC 3490	12h 34m 08.6s	+10° 49' 45"	15.5	Galaxy	0.005x0.002	Virgo	
IC 3137	12h 19m 49.5s	+12° 22' 11"	15.6	Galaxy	0.009x8.333	Virgo	
IC 3224	12h 23m 30.8s	+12° 03' 31"	15.6	Galaxy	0.003x0.002	Virgo	
NGC 4493-2	12h 32m 06.3s	+00° 30' 27"	15.7	Galaxy	0.003x0.002	Virgo	4493-2
IC 2740	11h 22m 13.0s	+08° 39' 10"	15.7	Galaxy	0.002x0.001	Leo	
IC 2750	11h 22m 46.7s	+09° 33' 34"	15.7	Galaxy	0.002x8.333	Leo	
IC 2760	11h 23m 08.9s	+12° 34' 01"	15.7	Galaxy	0.002x0.001	Leo	
IC 2780-2	11h 23m 44.2s	+10° 03' 12"	15.7	Galaxy	0.003x0.001	Leo	IC 2780-2
IC 2793-2	11h 24m 43.6s	+09° 20' 58"	15.7	Galaxy	0.003x0.001	Leo	IC 2793-2
IC 2796-2	11h 25m 04.4s	+09° 14' 40"	15.7	Galaxy	0.002x8.333	Leo	IC 2796-2
IC 2839	11h 28m 41.5s	+10° 43' 14"	15.7	Galaxy	0.002x8.333	Leo	
IC 2891	11h 31m 44.1s	+12° 34' 41"	15.7	Galaxy	0.002x0.002	Leo	
IC 3236	12h 23m 55.1s	+10° 00' 07"	15.7	Galaxy	0.004x0.003	Virgo	
IC 3275	12h 25m 14.4s	+10° 20' 48"	15.7	Galaxy	0.004x0.002	Virgo	
IC 3431	12h 31m 18.9s	+11° 30' 53"	15.7	Galaxy	0.003x0.002	Virgo	
IC 3558-1	12h 36m 57.4s	+11° 45' 02"	15.7	Galaxy	0.003x0.001	Virgo	IC 3558-1
IC 2783	11h 23m 49.4s	+08° 47' 08"	15.8	Galaxy	0.004x0.001	Leo	
IC 3240	12h 24m 02.3s	+10° 15' 44"	15.8	Galaxy	0.004x0.002	Virgo	
IC 2724	11h 20m 44.5s	+10° 37' 07"	15.9	Galaxy	0.001x0.001	Leo	
IC 2770	11h 23m 20.7s	+09° 07' 20"	15.9	Galaxy	0.001x0.001	Leo	
IC 2820	11h 27m 22.8s	+10° 08' 23"	15.9	Galaxy	0.003x0.001	Leo	
IC 2929	11h 34m 27.3s	+12° 02' 14"	15.9	Galaxy	0.004x0.004	Leo	
IC 3159	12h 20m 48.1s	+11° 34' 29"	15.9	Galaxy	0.004x0.002	Virgo	
IC 3196	12h 22m 21.6s	+11° 39' 29"	15.9	Galaxy	0.003x0.002	Virgo	
IC 3440	12h 31m 59.8s	+11° 55' 49"	15.9	Galaxy	0.002x0.002	Virgo	
IC 3573	12h 37m 21.7s	+11° 39' 39"	15.9	Galaxy	0.003x0.002	Virgo	
IC 2771	11h 23m 24.2s	+12° 25' 14"	16.0	Galaxy	0.001x0.001	Leo	
IC 2790	11h 24m 30.0s	+09° 27' 21"	16.0	Galaxy	0.003x0.003	Leo	
IC 2881	11h 30m 50.5s	+12° 24' 43"	16.0	Galaxy	0.002x8.333	Leo	
IC 2909	11h 32m 46.8s	+11° 22' 15"	16.0	Galaxy	0.001x0.001	Leo	
IC 2921	11h 33m 45.1s	+10° 11' 51"	16.0	Galaxy	0.004x0.002	Leo	
IC 3525	12h 35m 41.1s	+10° 04' 35"	16.0	Galaxy	0.003x0.003	Virgo	
IC 3558-2	12h 36m 57.5s	+11° 45' 12"	16.0	Galaxy	0.001x0.001	Virgo	IC 3558-2

7.105 Main objects visible on chart 104

Table 111: Main objects visible on chart 104

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4472	12h 30m 41.6s	+07° 54' 02"	8.4	Galaxy	0.085x0.069	Virgo	M49
NGC 4486	12h 31m 44.0s	+12° 17' 29"	8.6	Galaxy	0.069x0.055	Virgo	M87, Virgo A

Table 111: Main objects visible on chart 104 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4649	12h 44m 34.2s	+11° 27' 17"	8.8	Galaxy	0.063x0.051	Virgo	M60
NGC 4526	12h 34m 57.7s	+07° 35' 59"	9.3	Galaxy	0.058x0.020	Virgo	
NGC 4636	12h 43m 44.8s	+02° 35' 20"	9.5	Galaxy	0.049x0.038	Virgo	
NGC 4621	12h 42m 56.6s	+11° 32' 55"	9.6	Galaxy	0.045x0.030	Virgo	M59
NGC 4579	12h 38m 38.2s	+11° 43' 10"	9.7	Galaxy	0.05x0.04	Virgo	M58
NGC 4552	12h 36m 34.4s	+12° 27' 26"	9.8	Galaxy	0.029x0.029	Virgo	M89
NGC 4429	12h 28m 21.1s	+11° 00' 29"	10.0	Galaxy	0.048x0.023	Virgo	
NGC 4535	12h 35m 15.0s	+08° 05' 54"	10.0	Galaxy	0.059x0.041	Virgo	
NGC 4762	12h 53m 50.2s	+11° 07' 59"	10.3	Galaxy	0.072x0.014	Virgo	
NGC 5248	13h 38m 25.8s	+08° 47' 42"	10.3	Galaxy	0.051x0.037	Bootes	CALDWELL 45
NGC 4442	12h 28m 58.7s	+09° 42' 16"	10.4	Galaxy	0.037x0.015	Virgo	
NGC 4517	12h 33m 41.0s	+00° 00' 59"	10.4	Galaxy	0.087x0.012	Virgo	
NGC 4596	12h 40m 50.6s	+10° 04' 40"	10.4	Galaxy	0.033x0.025	Virgo	
NGC 4527	12h 35m 04.0s	+02° 33' 15"	10.5	Galaxy	0.051x0.017	Virgo	
NGC 4664	12h 46m 01.2s	+02° 57' 25"	10.5	Galaxy	0.029x0.029	Virgo	
NGC 4536	12h 35m 22.1s	+02° 05' 17"	10.6	Galaxy	0.063x0.026	Virgo	
NGC 4698	12h 49m 17.6s	+08° 23' 25"	10.6	Galaxy	0.033x0.020	Virgo	
NGC 4754	12h 53m 11.9s	+11° 12' 59"	10.6	Galaxy	0.036x0.02	Virgo	
NGC 4666	12h 46m 03.6s	-00° 33' 40"	10.7	Galaxy	0.037x0.011	Virgo	
NGC 4371	12h 25m 50.2s	+11° 36' 16"	10.8	Galaxy	0.033x0.019	Virgo	
NGC 4568	12h 37m 28.8s	+11° 08' 23"	10.8	Galaxy	0.038x0.018	Virgo	
NGC 4643	12h 44m 15.3s	+01° 52' 47"	10.8	Galaxy	0.025x0.020	Virgo	
NGC 4457	12h 29m 54.1s	+03° 28' 18"	10.9	Galaxy	0.021x0.019	Virgo	
NGC 4570	12h 37m 48.1s	+07° 08' 53"	10.9	Galaxy	0.030x0.01	Virgo	
NGC 4388	12h 26m 41.6s	+12° 33' 45"	11.0	Galaxy	0.046x0.012	Virgo	
NGC 4608	12h 42m 07.8s	+10° 03' 25"	11.0	Galaxy	0.027x0.024	Virgo	
NGC 4772	12h 54m 24.1s	+02° 04' 16"	11.0	Galaxy	0.028x0.014	Virgo	
NGC 4417	12h 27m 45.3s	+09° 29' 06"	11.1	Galaxy	0.027x0.011	Virgo	
NGC 4503	12h 33m 00.8s	+11° 04' 35"	11.1	Galaxy	0.029x0.014	Virgo	
NGC 4564	12h 37m 21.5s	+11° 20' 27"	11.1	Galaxy	0.029x0.012	Virgo	
NGC 4469	12h 30m 23.0s	+08° 39' 03"	11.2	Galaxy	0.031x0.010	Virgo	
NGC 4638	12h 43m 41.7s	+11° 20' 39"	11.2	Galaxy	0.018x0.011	Virgo	
NGC 4660	12h 45m 26.2s	+11° 05' 32"	11.2	Galaxy	0.017x0.014	Virgo	
NGC 4845	12h 58m 56.1s	+01° 28' 43"	11.2	Galaxy	0.040x0.010	Virgo	
NGC 4567	12h 37m 27.3s	+11° 09' 32"	11.3	Galaxy	0.025x0.018	Virgo	Siamese twins
NGC 4647	12h 44m 26.9s	+11° 29' 04"	11.3	Galaxy	0.024x0.019	Virgo	
NGC 4496	12h 32m 34.4s	+03° 50' 26"	11.4	Galaxy	0.032x0.025	Virgo	
NGC 4694	12h 49m 09.3s	+10° 53' 09"	11.4	Galaxy	0.027x0.013	Virgo	
NGC 4880	13h 01m 04.5s	+12° 23' 12"	11.4	Galaxy	0.025x0.020	Virgo	
NGC 4900	13h 01m 34.1s	+02° 24' 16"	11.4	Galaxy	0.018x0.017	Virgo	
NGC 4478	12h 31m 12.0s	+12° 13' 45"	11.5	Galaxy	0.015x0.012	Virgo	
NGC 4578	12h 38m 25.3s	+09° 27' 24"	11.5	Galaxy	0.025x0.019	Virgo	
NGC 4612	12h 42m 27.6s	+07° 12' 58"	11.5	Galaxy	0.022x0.016	Virgo	
NGC 4592	12h 40m 14.0s	-00° 37' 48"	11.6	Galaxy	0.048x0.012	Virgo	
NGC 4380	12h 26m 17.0s	+09° 55' 02"	11.7	Galaxy	0.029x0.015	Virgo	
NGC 4424	12h 28m 06.3s	+09° 19' 19"	11.7	Galaxy	0.029x0.014	Virgo	

Table 111: Main objects visible on chart 104 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4440	12h 28m 48.2s	+12° 11' 38"	11.7	Galaxy	0.015x0.013	Virgo	
NGC 4550	12h 36m 25.1s	+12° 07' 19"	11.7	Galaxy	0.027x0.007	Virgo	
NGC 4586	12h 39m 23.4s	+04° 13' 11"	11.7	Galaxy	0.031x0.01	Virgo	
NGC 4632	12h 43m 27.7s	-00° 10' 44"	11.7	Galaxy	0.025x0.01	Virgo	
NGC 4713	12h 50m 52.5s	+05° 12' 48"	11.7	Galaxy	0.024x0.015	Virgo	
NGC 4808	12h 56m 43.8s	+04° 12' 23"	11.7	Galaxy	0.023x0.009	Virgo	
NGC 5020	13h 13m 33.5s	+12° 30' 16"	11.7	Galaxy	0.025x0.022	Virgo	
NGC 4425	12h 28m 08.0s	+12° 38' 07"	11.8	Galaxy	0.023x0.008	Virgo	
NGC 4519	12h 34m 25.0s	+08° 33' 21"	11.8	Galaxy	0.026x0.020	Virgo	
NGC 4580	12h 38m 43.3s	+05° 16' 09"	11.8	Galaxy	0.017x0.012	Virgo	
NGC 4606	12h 41m 51.9s	+11° 48' 48"	11.8	Galaxy	0.027x0.014	Virgo	
NGC 4999	13h 10m 28.3s	+01° 34' 37"	11.8	Galaxy	0.019x0.015	Virgo	
NGC 5147	13h 27m 14.6s	+02° 00' 26"	11.8	Galaxy	0.015x0.013	Virgo	
NGC 4413	12h 27m 26.8s	+12° 30' 39"	11.9	Galaxy	0.019x0.011	Virgo	
NGC 4532	12h 35m 14.2s	+06° 22' 05"	11.9	Galaxy	0.0225x0.01	Virgo	
NGC 4688	12h 48m 41.5s	+04° 14' 16"	11.9	Galaxy	0.026x0.023	Virgo	
NGC 4733	12h 52m 01.0s	+10° 48' 51"	11.9	Galaxy	0.018x0.018	Virgo	
IC 4430	12h 28m 21.2s	+06° 09' 48"	12.0	Galaxy	0.019x0.016	Virgo	
NGC 4452	12h 29m 38.0s	+11° 39' 20"	12.0	Galaxy	0.022x0.005	Virgo	
NGC 4551	12h 36m 32.5s	+12° 09' 54"	12.0	Galaxy	0.015x0.011	Virgo	
NGC 4904	13h 01m 53.9s	-00° 07' 25"	12.0	Galaxy	0.018x0.012	Virgo	
NGC 4415	12h 27m 35.4s	+08° 20' 12"	12.1	Galaxy	0.011x0.01	Virgo	
NGC 4420	12h 27m 53.6s	+02° 23' 41"	12.1	Galaxy	0.016x0.008	Virgo	
NGC 4528	12h 35m 00.6s	+11° 13' 19"	12.1	Galaxy	0.013x0.008	Virgo	
NGC 4610	12h 30m 32.8s	+07° 43' 28"	12.1	Galaxy	0.010x0.007	Virgo	
NGC 4795	12h 55m 57.3s	+07° 58' 08"	12.1	Galaxy	0.019x0.013	Virgo	
NGC 4434	12h 28m 31.5s	+08° 03' 18"	12.2	Galaxy	0.011x0.011	Virgo	
NGC 4476	12h 30m 53.7s	+12° 14' 57"	12.2	Galaxy	0.015x0.010	Virgo	
NGC 4483	12h 31m 35.4s	+08° 54' 59"	12.2	Galaxy	0.013x0.006	Virgo	
NGC 4488	12h 31m 46.2s	+08° 15' 38"	12.2	Galaxy	0.034x0.014	Virgo	
NGC 4653	12h 44m 46.4s	-00° 39' 34"	12.2	Galaxy	0.025x0.022	Virgo	
NGC 4411B	12h 27m 42.1s	+08° 47' 06"	12.3	Galaxy	0.020x0.020	Virgo	4411B
NGC 4522	12h 34m 34.5s	+09° 04' 30"	12.3	Galaxy	0.03x0.008	Virgo	
NGC 4623	12h 43m 05.4s	+07° 34' 40"	12.3	Galaxy	0.018x0.005	Virgo	
NGC 4771	12h 54m 16.1s	+01° 10' 21"	12.3	Galaxy	0.031x0.007	Virgo	
NGC 5258	13h 40m 53.0s	+00° 44' 27"	12.3	Galaxy	0.011x0.007	Virgo	
NGC 4412	12h 27m 31.2s	+03° 51' 55"	12.4	Galaxy	0.011x0.01	Virgo	
NGC 4416	12h 27m 41.7s	+07° 49' 10"	12.4	Galaxy	0.014x0.012	Virgo	
NGC 4480	12h 31m 21.8s	+04° 08' 48"	12.4	Galaxy	0.018x0.009	Virgo	
NGC 4701	12h 50m 06.5s	+03° 17' 28"	12.4	Galaxy	0.023x0.017	Virgo	
NGC 5125	13h 24m 54.6s	+09° 37' 00"	12.4	Galaxy	0.014x0.010	Virgo	
NGC 5257	13h 40m 48.0s	+00° 44' 58"	12.4	Galaxy	0.013x0.006	Virgo	
IC 4451	12h 29m 35.4s	+09° 09' 34"	12.5	Galaxy	0.012x0.007	Virgo	
IC 4464	12h 30m 16.1s	+08° 03' 27"	12.5	Galaxy	0.007x0.005	Virgo	
NGC 4486A	12h 31m 52.3s	+12° 10' 19"	12.5	Galaxy	0.006x0.005	Virgo	4486A
NGC 4497	12h 32m 27.3s	+11° 31' 33"	12.5	Galaxy	0.015x0.006	Virgo	

Table 111: Main objects visible on chart 104 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4517A	12h 33m 23.4s	+00° 17' 28"	12.5	Galaxy	0.033x0.021	Virgo	4517A
NGC 4581	12h 39m 00.4s	+01° 22' 46"	12.5	Galaxy	0.015x0.009	Virgo	
NGC 4390	12h 26m 45.3s	+10° 21' 34"	12.6	Galaxy	0.013x0.01	Virgo	
NGC 4491	12h 31m 51.8s	+11° 23' 03"	12.6	Galaxy	0.013x0.006	Virgo	
NGC 4492	12h 31m 54.6s	+07° 58' 44"	12.6	Galaxy	0.014x0.013	Virgo	
IC 4599	12h 41m 22.2s	+01° 05' 53"	12.6	Galaxy	0.014x0.006	Virgo	
NGC 4630	12h 43m 26.1s	+03° 51' 37"	12.6	Galaxy	0.014x0.01	Virgo	
NGC 4746	12h 52m 49.4s	+11° 59' 08"	12.6	Galaxy	0.017x0.005	Virgo	
NGC 4779	12h 54m 45.1s	+09° 36' 42"	12.6	Galaxy	0.017x0.015	Virgo	
IC 4996	13h 10m 27.1s	+00° 45' 43"	12.6	Galaxy	0.015x0.011	Virgo	
NGC 4411A	12h 27m 24.9s	+08° 46' 20"	12.7	Galaxy	0.016x0.015	Virgo	4411A
NGC 4482	12h 31m 05.0s	+10° 40' 47"	12.7	Galaxy	0.014x0.008	Virgo	
NGC 4598	12h 41m 06.6s	+08° 17' 05"	12.7	Galaxy	0.011x0.009	Virgo	
NGC 4600	12h 41m 18.0s	+03° 01' 09"	12.7	Galaxy	0.01x0.006	Virgo	
3C273	12h 30m 01.9s	+01° 57' 11"	12.8	Qua	1.388x1.388	Virgo	
NGC 4410A	12h 27m 23.2s	+08° 55' 13"	12.8	Galaxy	0.004x0.003	Virgo	4410A
NGC 4445	12h 29m 11.0s	+09° 20' 14"	12.8	Galaxy	0.021x0.004	Virgo	
NGC 4607	12h 42m 06.6s	+11° 47' 13"	12.8	Galaxy	0.024x0.005	Virgo	
IC 5171	13h 30m 15.1s	+11° 38' 34"	12.8	Galaxy	0.009x0.006	Virgo	
NGC 5239	13h 37m 20.4s	+07° 16' 42"	12.8	Galaxy	0.015x0.01	Bootes	
NGC 4431	12h 28m 22.1s	+12° 11' 28"	12.9	Galaxy	0.014x0.008	Virgo	
NGC 4642	12h 44m 13.0s	-00° 44' 36"	12.9	Galaxy	0.015x0.004	Virgo	
NGC 5210	13h 33m 43.6s	+07° 04' 41"	12.9	Galaxy	0.011x0.01	Virgo	
IC 3322A	12h 26m 37.7s	+07° 07' 03"	12.9	Galaxy	0.028x0.003	Virgo	IC 3322A
IC 3773	12h 48m 09.7s	+10° 06' 19"	12.9	Galaxy	0.015x0.005	Virgo	
NGC 4436	12h 28m 36.0s	+12° 12' 59"	13.0	Galaxy	0.012x0.006	Virgo	
NGC 4541	12h 36m 06.1s	-00° 19' 12"	13.0	Galaxy	0.013x0.005	Virgo	
NGC 4544	12h 36m 31.7s	+02° 56' 12"	13.0	Galaxy	0.016x0.005	Virgo	
IC 4765	12h 54m 09.5s	+04° 21' 56"	13.0	Galaxy	0.009x0.006	Virgo	
NGC 5174	13h 30m 19.5s	+10° 54' 55"	13.0	Galaxy	0.022x0.011	Virgo	
NGC 5209	13h 33m 36.6s	+07° 14' 09"	13.0	Galaxy	0.01x0.008	Virgo	
IC 5252	13h 39m 10.5s	+04° 27' 05"	13.0	Galaxy	0.011x0.007	Virgo	
IC 900	13h 35m 36.7s	+09° 14' 43"	13.0	Galaxy	0.013x0.008	Virgo	
NGC 4668	12h 46m 27.2s	-00° 38' 04"	13.1	Galaxy	0.011x0.006	Virgo	
NGC 5208	13h 33m 22.0s	+07° 13' 29"	13.1	Galaxy	0.014x0.005	Virgo	
NGC 5227	13h 36m 19.8s	+01° 19' 08"	13.1	Galaxy	0.015x0.013	Virgo	
IC 3468	12h 33m 08.8s	+10° 09' 10"	13.1	Galaxy	0.01x0.009	Virgo	
IC 3475	12h 33m 35.2s	+12° 40' 13"	13.1	Galaxy	0.014x0.013	Virgo	
IC 794	12h 29m 03.2s	+11° 59' 40"	13.1	Galaxy	0.010x0.008	Virgo	
IC 903	13h 39m 21.5s	-00° 19' 07"	13.1	Galaxy	0.015x0.006	Virgo	
NGC 4577	12h 40m 07.3s	+05° 54' 49"	13.2	Galaxy	0.013x0.006	Virgo	
IC 4641	12h 44m 02.0s	+11° 57' 11"	13.2	Galaxy	0.01x0.008	Virgo	
IC 3521	12h 35m 34.4s	+07° 03' 38"	13.2	Galaxy	0.011x0.007	Virgo	
IC 3718	12h 45m 39.6s	+12° 15' 09"	13.2	Galaxy	0.022x0.008	Virgo	
IC 809	12h 43m 03.1s	+11° 39' 20"	13.2	Galaxy	0.008x0.008	Virgo	
NGC 5060	13h 18m 10.8s	+05° 56' 34"	13.3	Galaxy	0.009x0.006	Virgo	

Table 111: Main objects visible on chart 104 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3358	12h 27m 49.2s	+11° 33' 50"	13.3	Galaxy	0.01x0.006	Virgo	
IC 3414	12h 30m 23.9s	+06° 40' 14"	13.3	Galaxy	0.012x0.007	Virgo	
IC 3470	12h 33m 18.0s	+11° 09' 51"	13.3	Galaxy	0.005x0.005	Virgo	
IC 3499	12h 34m 39.7s	+10° 53' 47"	13.3	Galaxy	0.011x0.004	Virgo	
NGC 4423	12h 28m 04.2s	+05° 46' 51"	13.4	Galaxy	0.019x0.003	Virgo	
NGC 4486B	12h 31m 26.6s	+12° 23' 29"	13.4	Galaxy	0.005x0.005	Virgo	4486B
IC 4799	12h 56m 10.5s	+02° 47' 58"	13.4	Galaxy	0.010x0.005	Virgo	
NGC 4992	13h 09m 59.6s	+11° 32' 19"	13.4	Galaxy	0.01x0.005	Virgo	
NGC 5027	13h 14m 15.5s	+05° 58' 01"	13.4	Galaxy	0.01x0.009	Virgo	
NGC 5231	13h 36m 43.1s	+02° 54' 27"	13.4	Galaxy	0.009x0.007	Virgo	
IC 3381	12h 29m 09.5s	+11° 41' 24"	13.4	Galaxy	0.01x0.0075	Virgo	
IC 3481	12h 33m 46.9s	+11° 18' 20"	13.4	Galaxy	0.006x0.005	Virgo	
IC 3481A	12h 33m 51.4s	+11° 17' 29"	13.4	Galaxy	0.001x0.001	Virgo	IC 3481A, Zwicky's triplet
IC 810	12h 43m 03.2s	+12° 29' 53"	13.4	Galaxy	0.013x0.004	Virgo	
IC 871	13h 18m 53.3s	+04° 18' 35"	13.4	Galaxy	0.014x0.006	Virgo	
IC 896	13h 35m 04.6s	+04° 46' 38"	13.4	Galaxy	0.01x0.006	Virgo	
NGC 4466	12h 30m 25.5s	+07° 35' 51"	13.5	Galaxy	0.009x0.002	Virgo	
NGC 4576	12h 38m 28.6s	+04° 16' 07"	13.5	Galaxy	0.01x0.006	Virgo	
NGC 4587	12h 39m 30.5s	+02° 33' 32"	13.5	Galaxy	0.009x0.004	Virgo	
NGC 4640	12h 43m 52.2s	+12° 11' 18"	13.5	Galaxy	0.011x0.006	Virgo	
IC 4734	12h 52m 07.7s	+04° 45' 39"	13.5	Galaxy	0.008x0.006	Virgo	
NGC 5058	13h 17m 45.8s	+12° 27' 15"	13.5	Galaxy	0.005x0.005	Virgo	
IC 5270	13h 43m 05.5s	+04° 10' 20"	13.5	Galaxy	0.009x0.006	Virgo	
IC 3322	12h 26m 49.1s	+07° 27' 19"	13.5	Galaxy	0.019x0.004	Virgo	
IC 3576	12h 37m 32.7s	+06° 31' 21"	13.5	Galaxy	0.019x0.017	Virgo	
NGC 4410B	12h 27m 24.5s	+08° 55' 10"	13.6	Galaxy	0.004x0.004	Virgo	4410B
NGC 4543	12h 36m 15.2s	+06° 00' 60"	13.6	Galaxy	0.007x0.005	Virgo	
NGC 5019	13h 13m 37.2s	+04° 38' 02"	13.6	Galaxy	0.006x0.005	Virgo	
NGC 5080	13h 20m 13.3s	+08° 20' 08"	13.6	Galaxy	0.01x0.009	Virgo	
NGC 5246	13h 38m 23.9s	+04° 00' 48"	13.6	Galaxy	0.008x0.006	Virgo	
IC 3413	12h 30m 17.3s	+11° 20' 03"	13.6	Galaxy	0.008x0.005	Virgo	
IC 3425	12h 30m 51.3s	+10° 30' 58"	13.6	Galaxy	0.013x0.005	Virgo	
IC 3586	12h 37m 49.4s	+12° 25' 17"	13.6	Galaxy	0.009x0.008	Virgo	
IC 840	12h 59m 36.2s	+10° 31' 11"	13.6	Galaxy	0.006x0.005	Virgo	
IC 904	13h 39m 27.5s	+00° 26' 58"	13.6	Galaxy	0.01x0.005	Virgo	
IC 5050	13h 16m 36.6s	+02° 47' 04"	13.7	Galaxy	0.009x0.003	Virgo	
IC 5104	13h 22m 18.2s	+00° 14' 56"	13.7	Galaxy	0.01x0.003	Virgo	
NGC 5118	13h 24m 21.8s	+06° 17' 57"	13.7	Galaxy	0.006x0.005	Virgo	
NGC 5165	13h 29m 32.6s	+11° 17' 41"	13.7	Galaxy	0.006x0.004	Virgo	
IC 3328	12h 26m 52.9s	+09° 57' 16"	13.7	Galaxy	0.005x0.005	Virgo	
IC 3652	12h 41m 53.2s	+11° 05' 08"	13.7	Galaxy	0.006x0.006	Virgo	
IC 3754	12h 47m 10.2s	+08° 15' 04"	13.7	Galaxy	0.01x0.005	Virgo	
NGC 4467	12h 30m 25.2s	+07° 53' 36"	13.8	Galaxy	0.003x0.002	Virgo	
IC 4518	12h 34m 06.6s	+07° 45' 11"	13.8	Galaxy	0.008x0.003	Virgo	
NGC 4533	12h 35m 17.3s	+02° 13' 34"	13.8	Galaxy	0.017x0.003	Virgo	
NGC 4809	12h 55m 46.0s	+02° 33' 20"	13.8	Galaxy	0.014x0.005	Virgo	

Table 111: Main objects visible on chart 104 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5167	13h 29m 33.5s	+12° 37' 07"	13.8	Galaxy	0.007x0.007	Virgo	
NGC 5178	13h 30m 22.8s	+11° 31' 57"	13.8	Galaxy	0.01x0.005	Virgo	
IC 3303	12h 26m 09.9s	+12° 36' 55"	13.8	Galaxy	0.008x0.005	Virgo	
IC 3418	12h 30m 37.2s	+11° 18' 05"	13.8	Galaxy	0.012x0.008	Virgo	
IC 3591	12h 37m 57.7s	+06° 49' 38"	13.8	Galaxy	0.01x0.005	Virgo	
IC 3608	12h 39m 32.0s	+10° 22' 37"	13.8	Galaxy	0.025x0.003	Virgo	
IC 3653	12h 42m 10.2s	+11° 17' 21"	13.8	Galaxy	0.004x0.004	Virgo	
IC 4505	12h 32m 35.9s	+03° 49' 39"	13.9	Galaxy	0.006x0.005	Virgo	
IC 4637	12h 43m 48.6s	+11° 20' 23"	13.9	Galaxy	0.01x0.004	Virgo	
IC 5075	13h 20m 00.4s	+07° 44' 15"	13.9	Galaxy	0.005x0.005	Virgo	
NGC 5106-2	13h 21m 53.5s	+08° 53' 06"	13.9	Galaxy	0.006x0.003	Virgo	5106-2
IC 3349	12h 27m 41.8s	+12° 21' 16"	13.9	Galaxy	0.007x0.006	Virgo	
IC 3457	12h 32m 46.0s	+12° 33' 29"	13.9	Galaxy	0.01x0.006	Virgo	
IC 3509	12h 35m 06.1s	+11° 57' 01"	13.9	Galaxy	0.007x0.005	Virgo	
IC 3647	12h 41m 47.6s	+10° 22' 40"	13.9	Galaxy	0.013x0.007	Virgo	
IC 3727-1	12h 46m 00.1s	+10° 48' 08"	13.9	Galaxy	0.008x0.006	Virgo	IC 3727-1
IC 789	12h 27m 15.5s	+07° 21' 39"	13.9	Galaxy	0.008x0.004	Virgo	
IC 815	12h 47m 16.9s	+11° 46' 43"	13.9	Galaxy	0.004x0.002	Virgo	
IC 817	12h 47m 51.2s	+09° 45' 35"	13.9	Galaxy	0.005x0.004	Virgo	
NGC 4432	12h 28m 28.0s	+06° 08' 02"	14.0	Galaxy	0.007x0.005	Virgo	
NGC 5213	13h 35m 33.9s	+04° 02' 21"	14.0	Galaxy	0.007x0.006	Virgo	
IC 5224	13h 36m 03.1s	+06° 23' 24"	14.0	Galaxy	0.005x0.005	Virgo	
IC 3510	12h 35m 09.6s	+10° 58' 21"	14.0	Galaxy	0.007x0.005	Virgo	
IC 3540	12h 36m 21.7s	+12° 39' 07"	14.0	Galaxy	0.005x0.005	Virgo	
IC 3704	12h 44m 40.0s	+10° 40' 17"	14.0	Galaxy	0.01x0.0025	Virgo	
IC 3720	12h 45m 41.8s	+11° 57' 59"	14.0	Galaxy	0.010x0.005	Virgo	
IC 816	12h 47m 40.7s	+09° 45' 11"	14.0	Galaxy	0.007x0.005	Virgo	
IC 873	13h 19m 10.9s	+04° 22' 14"	14.0	Galaxy	0.003x0.003	Virgo	
NGC 4493-1	12h 32m 03.6s	+00° 30' 54"	14.1	Galaxy	0.008x0.006	Virgo	4493-1
NGC 4791	12h 55m 38.4s	+07° 57' 23"	14.1	Galaxy	0.010x0.007	Virgo	
NGC 4803	12h 56m 28.2s	+08° 08' 34"	14.1	Galaxy	0.004x0.002	Virgo	
NGC 5191	13h 31m 40.8s	+11° 06' 32"	14.1	Galaxy	0.007x0.005	Virgo	
IC 3383	12h 29m 07.2s	+10° 11' 53"	14.1	Galaxy	0.007x0.005	Virgo	
IC 3694	12h 44m 01.8s	+11° 06' 47"	14.1	Galaxy	0.005x0.003	Virgo	
NGC 4518B	12h 34m 05.4s	+07° 44' 07"	14.2	Galaxy	0.007x0.002	Virgo	4518B
NGC 5148	13h 27m 33.8s	+02° 13' 14"	14.2	Galaxy	0.005x0.005	Virgo	
NGC 5159	13h 29m 11.0s	+02° 53' 27"	14.2	Galaxy	0.011x0.003	Virgo	
NGC 5179	13h 30m 24.2s	+11° 39' 14"	14.2	Galaxy	0.005x0.003	Virgo	
IC 5235	13h 36m 55.6s	+06° 29' 37"	14.2	Galaxy	0.01x0.004	Virgo	
NGC 5245	13h 38m 17.9s	+03° 48' 25"	14.2	Galaxy	0.006x0.002	Virgo	
IC 3437	12h 31m 40.6s	+11° 14' 37"	14.2	Galaxy	0.007x0.003	Virgo	
IC 3459	12h 32m 50.5s	+12° 04' 32"	14.2	Galaxy	0.009x0.006	Virgo	
IC 3461	12h 32m 57.4s	+11° 47' 26"	14.2	Galaxy	0.005x0.005	Virgo	
IC 3474	12h 33m 32.0s	+02° 33' 48"	14.2	Galaxy	0.018x0.002	Virgo	
IC 3518	12h 35m 26.0s	+09° 31' 29"	14.2	Galaxy	0.01x0.005	Virgo	
IC 3617	12h 40m 19.8s	+07° 52' 04"	14.2	Galaxy	0.011x0.005	Virgo	

Table 111: Main objects visible on chart 104 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3693	12h 43m 52.5s	+10° 34' 59"	14.2	Galaxy	0.005x0.003	Virgo	
IC 3709	12h 44m 58.7s	+08° 57' 55"	14.2	Galaxy	0.005x0.004	Virgo	
NGC 4588	12h 39m 40.3s	+06° 40' 08"	14.3	Galaxy	0.010x0.003	Virgo	
IC 4810	12h 55m 46.3s	+02° 32' 37"	14.3	Galaxy	0.010x0.004	Virgo	
NGC 5106-1	13h 21m 53.4s	+08° 53' 01"	14.3	Galaxy	0.006x0.004	Virgo	5106-1
IC 5212	13h 33m 50.2s	+07° 11' 46"	14.3	Galaxy	0.003x0.002	Virgo	
IC 3305	12h 26m 09.3s	+11° 45' 00"	14.3	Galaxy	0.01x0.003	Virgo	
IC 3311	12h 26m 27.9s	+12° 09' 39"	14.3	Galaxy	0.014x0.002	Virgo	
IC 3361	12h 27m 49.3s	+10° 33' 57"	14.3	Galaxy	0.006x0.004	Virgo	
IC 3363	12h 27m 57.7s	+12° 27' 42"	14.3	Galaxy	0.010x0.003	Virgo	
IC 3487	12h 34m 08.2s	+09° 17' 52"	14.3	Galaxy	0.006x0.003	Virgo	
IC 3574	12h 37m 22.2s	+12° 18' 24"	14.3	Galaxy	0.005x0.003	Virgo	
IC 3602	12h 39m 01.4s	+09° 58' 59"	14.3	Galaxy	0.007x0.002	Virgo	
IC 3638	12h 41m 11.2s	+10° 25' 12"	14.3	Galaxy	0.007x0.005	Virgo	
IC 3663	12h 42m 33.7s	+12° 08' 56"	14.3	Galaxy	0.006x0.004	Virgo	
IC 3686	12h 43m 30.5s	+10° 27' 60"	14.3	Galaxy	0.008x0.003	Virgo	
IC 3690	12h 43m 43.7s	+10° 15' 34"	14.3	Galaxy	0.009x0.002	Virgo	
IC 4223	13h 19m 49.4s	+07° 42' 04"	14.3	Galaxy	0.005x0.002	Virgo	
IC 876	13h 19m 29.3s	+04° 23' 30"	14.3	Galaxy	0.006x0.005	Virgo	
IC 891	13h 30m 55.1s	+00° 12' 48"	14.3	Galaxy	0.004x0.004	Virgo	
IC 4538	12h 35m 35.9s	+03° 13' 28"	14.4	Galaxy	0.005x0.002	Virgo	
IC 5176	13h 30m 18.3s	+11° 41' 22"	14.4	Galaxy	0.004x0.004	Virgo	
IC 5261	13h 41m 10.5s	+04° 59' 11"	14.4	Galaxy	0.006x0.003	Virgo	
IC 3331	12h 27m 00.1s	+11° 42' 47"	14.4	Galaxy	0.006x0.003	Virgo	
IC 3489	12h 34m 08.3s	+12° 08' 52"	14.4	Galaxy	0.005x0.005	Virgo	
IC 3578	12h 37m 34.1s	+11° 00' 09"	14.4	Galaxy	0.007x0.002	Virgo	
IC 3625	12h 40m 27.6s	+10° 52' 11"	14.4	Galaxy	0.001x0.001	Virgo	
IC 3633	12h 41m 05.8s	+09° 47' 53"	14.4	Galaxy	0.004x0.002	Virgo	
IC 3714	12h 45m 17.6s	+10° 05' 26"	14.4	Galaxy	0.006x0.004	Virgo	
IC 3779	12h 48m 14.9s	+12° 04' 05"	14.4	Galaxy	0.005x0.003	Virgo	
IC 872	13h 19m 13.1s	+06° 14' 30"	14.4	Galaxy	0.007x0.002	Virgo	
NGC 4465	12h 30m 18.4s	+07° 55' 36"	14.5	Galaxy	0.004x0.002	Virgo	
IC 4796	12h 55m 59.1s	+07° 58' 11"	14.5	Galaxy	0.003x0.002	Virgo	
IC 5071	13h 19m 31.3s	+07° 50' 30"	14.5	Galaxy	0.007x0.005	Virgo	
IC 3374	12h 28m 28.2s	+09° 54' 16"	14.5	Galaxy	0.005x0.004	Virgo	
IC 3412	12h 30m 17.4s	+09° 53' 18"	14.5	Galaxy	0.005x0.002	Virgo	
IC 3430	12h 31m 11.9s	+08° 59' 06"	14.5	Galaxy	0.008x0.003	Virgo	
IC 3625A	12h 40m 27.8s	+10° 52' 07"	14.5	Galaxy	0.002x0.002	Virgo	IC 3625A
IC 3665	12h 42m 41.1s	+11° 23' 22"	14.5	Galaxy	0.007x0.005	Virgo	
IC 3698	12h 44m 11.8s	+11° 06' 46"	14.5	Galaxy	0.004x0.004	Virgo	
IC 889	13h 27m 31.0s	+11° 46' 37"	14.5	Galaxy	0.002x0.002	Virgo	
IC 5177	13h 30m 17.6s	+11° 42' 15"	14.6	Galaxy	0.005x0.001	Virgo	
IC 3356	12h 27m 45.6s	+11° 27' 32"	14.6	Galaxy	0.012x0.007	Virgo	
IC 3357	12h 27m 46.3s	+09° 40' 41"	14.6	Galaxy	0.003x8.333	Virgo	
IC 3506	12h 35m 01.2s	+12° 38' 33"	14.6	Galaxy	0.005x0.004	Virgo	
IC 3702	12h 44m 22.9s	+10° 46' 31"	14.6	Galaxy	0.002x0.001	Virgo	

Table 111: Main objects visible on chart 104 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3711	12h 45m 03.7s	+11° 04' 42"	14.6	Galaxy	0.005x0.004	Virgo	
IC 3719	12h 45m 42.4s	+08° 00' 30"	14.6	Galaxy	0.003x0.001	Virgo	
IC 790	12h 27m 30.3s	+08° 56' 11"	14.6	Galaxy	0.005x0.002	Virgo	
NGC 4991	13h 10m 10.3s	+02° 15' 10"	14.7	Galaxy	0.005x0.003	Virgo	
IC 3346	12h 27m 39.3s	+11° 16' 49"	14.7	Galaxy	0.005x0.004	Virgo	
IC 3371	12h 28m 17.0s	+10° 46' 02"	14.7	Galaxy	0.015x0.001	Virgo	
IC 3416-1	12h 30m 30.3s	+10° 41' 40"	14.7	Galaxy	0.007x0.003	Virgo	IC 3416-1
IC 3446	12h 32m 17.7s	+11° 23' 36"	14.7	Galaxy	0.005x0.002	Virgo	
IC 3562	12h 37m 05.4s	+09° 49' 26"	14.7	Galaxy	0.006x0.002	Virgo	
IC 3710	12h 45m 04.0s	+12° 00' 58"	14.7	Galaxy	0.009x0.005	Virgo	
IC 3724	12h 45m 48.3s	+10° 11' 01"	14.7	Galaxy	0.004x0.002	Virgo	
IC 3760	12h 47m 12.5s	+11° 46' 33"	14.7	Galaxy	0.002x0.001	Virgo	
IC 845	13h 05m 51.4s	+11° 58' 57"	14.7	Galaxy	0.002x0.002	Virgo	
IC 5186	13h 30m 57.3s	+12° 04' 58"	14.8	Galaxy	0.003x0.002	Virgo	
IC 3315	12h 26m 33.8s	+12° 12' 50"	14.8	Galaxy	0.005x0.004	Virgo	
IC 3542	12h 36m 35.8s	+11° 34' 04"	14.8	Galaxy	0.003x0.002	Virgo	
IC 3634	12h 41m 06.0s	+09° 44' 55"	14.8	Galaxy	0.005x0.004	Virgo	
IC 4453	12h 29m 41.8s	+06° 24' 46"	14.9	Galaxy	0.004x0.001	Virgo	
IC 3443	12h 32m 10.2s	+12° 13' 59"	14.9	Galaxy	0.003x0.003	Virgo	
IC 3467	12h 33m 19.1s	+11° 41' 18"	14.9	Galaxy	0.009x0.001	Virgo	
IC 3483	12h 34m 04.6s	+11° 14' 52"	14.9	Galaxy	0.004x0.003	Virgo	
IC 3517	12h 35m 25.7s	+09° 03' 21"	14.9	Galaxy	0.009x0.005	Virgo	
IC 3548	12h 36m 51.1s	+10° 50' 13"	15.0	Galaxy	0.005x0.003	Virgo	
IC 3606	12h 39m 19.6s	+12° 30' 41"	15.0	Galaxy	0.002x0.002	Virgo	
IC 3670	12h 42m 49.4s	+11° 40' 29"	15.0	Galaxy	0.004x0.003	Virgo	
IC 3727-2	12h 45m 59.3s	+10° 48' 06"	15.0	Galaxy	0.001x0.001	Virgo	IC 3727-2
IC 5013	13h 13m 02.2s	+03° 06' 15"	15.1	Galaxy	0.006x0.003	Virgo	
IC 5059	13h 17m 52.7s	+07° 45' 01"	15.1	Galaxy	0.007x0.001	Virgo	
IC 3684	12h 43m 20.9s	+11° 38' 28"	15.1	Galaxy	0.009x0.003	Virgo	
NGC 4519A	12h 34m 19.5s	+08° 35' 29"	15.2	Galaxy	0.005x0.001	Virgo	4519A
NGC 4535A	12h 35m 08.7s	+08° 10' 28"	15.2	Galaxy	0.005x0.004	Virgo	4535A
IC 3366	12h 28m 07.0s	+09° 18' 38"	15.2	Galaxy	0.002x0.001	Virgo	
IC 3416-2	12h 30m 29.6s	+10° 41' 33"	15.2	Galaxy	0.003x0.001	Virgo	IC 3416-2
IC 3466	12h 33m 00.2s	+11° 43' 06"	15.2	Galaxy	0.005x0.003	Virgo	
IC 3624	12h 40m 29.0s	+11° 52' 60"	15.2	Galaxy	0.002x0.002	Virgo	
IC 3756	12h 47m 04.4s	+11° 49' 02"	15.2	Galaxy	0.004x0.002	Virgo	
IC 3767	12h 47m 50.0s	+10° 05' 02"	15.2	Galaxy	0.005x0.001	Virgo	
IC 3604	12h 39m 15.2s	+11° 37' 54"	15.3	Galaxy	0.002x0.001	Virgo	
IC 3732	12h 46m 06.4s	+10° 13' 33"	15.3	Galaxy	0.002x0.001	Virgo	
IC 3347	12h 27m 39.3s	+10° 49' 09"	15.4	Galaxy	0.003x0.001	Virgo	
IC 3445	12h 32m 14.0s	+12° 38' 19"	15.4	Galaxy	0.003x0.002	Virgo	
IC 3607	12h 39m 26.7s	+10° 16' 38"	15.4	Galaxy	0.004x0.001	Virgo	
IC 3643	12h 41m 35.3s	+12° 18' 29"	15.4	Galaxy	0.004x0.003	Virgo	
IC 3465	12h 33m 06.9s	+11° 57' 44"	15.5	Galaxy	0.004x0.002	Virgo	
IC 3490	12h 34m 08.6s	+10° 49' 45"	15.5	Galaxy	0.005x0.002	Virgo	
IC 3731	12h 45m 59.5s	+12° 20' 55"	15.5	Galaxy	0.004x0.003	Virgo	

Table 111: Main objects visible on chart 104 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3701-1	12h 44m 25.4s	+10° 56' 55"	15.6	Galaxy	0.003x0.002	Virgo	IC 3701-1
NGC 4493-2	12h 32m 06.3s	+00° 30' 27"	15.7	Galaxy	0.003x0.002	Virgo	4493-2
IC 3431	12h 31m 18.9s	+11° 30' 53"	15.7	Galaxy	0.003x0.002	Virgo	
IC 3558-1	12h 36m 57.4s	+11° 45' 02"	15.7	Galaxy	0.003x0.001	Virgo	IC 3558-1
IC 3775	12h 48m 10.4s	+11° 39' 44"	15.7	Galaxy	0.007x0.002	Virgo	
IC 3625B	12h 40m 32.2s	+10° 52' 39"	15.8	Galaxy	0.003x0.003	Virgo	IC 3625B
IC 3440	12h 31m 59.8s	+11° 55' 49"	15.9	Galaxy	0.002x0.002	Virgo	
IC 3573	12h 37m 21.7s	+11° 39' 39"	15.9	Galaxy	0.003x0.002	Virgo	
IC 3525	12h 35m 41.1s	+10° 04' 35"	16.0	Galaxy	0.003x0.003	Virgo	
IC 3558-2	12h 36m 57.5s	+11° 45' 12"	16.0	Galaxy	0.001x0.001	Virgo	IC 3558-2
IC 3701-2	12h 44m 25.9s	+10° 57' 04"	16.0	Galaxy	0.001x0.001	Virgo	IC 3701-2

7.106 Main objects visible on chart 105

Table 112: Main objects visible on chart 105

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5363	13h 57m 01.4s	+05° 09' 59"	10.1	Galaxy	0.034x0.021	Virgo	
NGC 5248	13h 38m 25.8s	+08° 47' 42"	10.3	Galaxy	0.051x0.037	Bootes	CALDWELL 45
NGC 5746	14h 45m 50.5s	+01° 52' 51"	10.3	Galaxy	0.061x0.010	Virgo	
NGC 5364	13h 57m 06.2s	+04° 55' 41"	10.5	Galaxy	0.056x0.036	Virgo	
NGC 5566	14h 21m 14.4s	+03° 51' 04"	10.6	Galaxy	0.055x0.019	Virgo	
NGC 5701	14h 40m 05.0s	+05° 17' 12"	10.9	Galaxy	0.035x0.034	Virgo	
NGC 5576	14h 21m 58.3s	+03° 11' 23"	11.0	Galaxy	0.031x0.022	Virgo	
NGC 5638	14h 30m 34.9s	+03° 09' 14"	11.2	Galaxy	0.0225x0.02	Virgo	
NGC 5713	14h 41m 06.7s	-00° 21' 60"	11.2	Galaxy	0.024x0.020	Virgo	
NGC 5669	14h 33m 36.8s	+09° 48' 49"	11.3	Galaxy	0.033x0.023	Bootes	
NGC 5300	13h 49m 10.5s	+03° 51' 41"	11.4	Galaxy	0.031x0.02	Virgo	
NGC 5584	14h 23m 19.3s	-00° 28' 10"	11.4	Galaxy	0.028x0.022	Virgo	
NGC 5668	14h 34m 18.4s	+04° 22' 20"	11.5	Galaxy	0.025x0.025	Virgo	
NGC 5750	14h 47m 06.3s	-00° 17' 54"	11.6	Galaxy	0.026x0.012	Virgo	
NGC 5690	14h 38m 35.9s	+02° 12' 48"	11.8	Galaxy	0.028x0.008	Virgo	
NGC 5691	14h 38m 48.9s	-00° 28' 31"	11.8	Galaxy	0.015x0.011	Virgo	
NGC 5532	14h 17m 45.7s	+10° 43' 29"	11.9	Galaxy	0.013x0.013	Bootes	
NGC 5740	14h 45m 19.4s	+01° 36' 17"	11.9	Galaxy	0.023x0.012	Virgo	
NGC 5665	14h 33m 18.9s	+08° 00' 02"	12.0	Galaxy	0.017x0.010	Bootes	
NGC 5719	14h 41m 51.9s	-00° 23' 39"	12.2	Galaxy	0.026x0.01	Virgo	
NGC 5258	13h 40m 53.0s	+00° 44' 27"	12.3	Galaxy	0.011x0.007	Virgo	
NGC 5546	14h 19m 02.6s	+07° 28' 53"	12.3	Galaxy	0.010x0.009	Bootes	
NGC 5257	13h 40m 48.0s	+00° 44' 58"	12.4	Galaxy	0.013x0.006	Virgo	
NGC 5329	13h 53m 04.9s	+02° 14' 14"	12.4	Galaxy	0.010x0.010	Virgo	
NGC 5414	14h 02m 56.7s	+09° 50' 36"	12.4	Galaxy	0.008x0.006	Bootes	
NGC 5560	14h 20m 58.8s	+03° 54' 39"	12.4	Galaxy	0.03x0.0075	Virgo	
NGC 5574	14h 21m 50.5s	+03° 09' 23"	12.4	Galaxy	0.012x0.009	Virgo	
NGC 5374	13h 58m 23.6s	+06° 00' 35"	12.5	Galaxy	0.013x0.012	Virgo	

Table 112: Main objects visible on chart 105 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5644	14h 31m 17.8s	+11° 50' 56"	12.5	Galaxy	0.011x0.011	Bootes	
NGC 5645	14h 31m 32.7s	+07° 11' 44"	12.5	Galaxy	0.021x0.013	Virgo	
NGC 5652	14h 31m 54.7s	+05° 53' 57"	12.5	Galaxy	0.016x0.011	Virgo	
NGC 5356	13h 55m 52.6s	+05° 14' 44"	12.6	Galaxy	0.024x0.006	Virgo	
NGC 5382	13h 59m 08.9s	+06° 10' 16"	12.6	Galaxy	0.007x0.005	Virgo	
NGC 5577	14h 22m 07.7s	+03° 21' 17"	12.6	Galaxy	0.026x0.007	Virgo	
NGC 5619	14h 28m 12.3s	+04° 43' 23"	12.6	Galaxy	0.018x0.01	Virgo	
IC 947	13h 53m 31.0s	+00° 43' 47"	12.6	Galaxy	0.014x0.009	Virgo	
NGC 5636	14h 30m 33.6s	+03° 11' 14"	12.7	Galaxy	0.015x0.011	Virgo	
NGC 5705	14h 40m 45.4s	-00° 47' 42"	12.7	Galaxy	0.025x0.015	Virgo	
NGC 5239	13h 37m 20.4s	+07° 16' 42"	12.8	Galaxy	0.015x0.01	Bootes	
NGC 5335	13h 53m 51.3s	+02° 43' 36"	12.8	Galaxy	0.017x0.011	Virgo	
NGC 5338	13h 54m 20.8s	+05° 07' 11"	12.8	Galaxy	0.016x0.007	Virgo	
NGC 5423	14h 03m 41.8s	+09° 15' 21"	12.8	Galaxy	0.012x0.007	Bootes	
NGC 5762	14h 49m 34.4s	+12° 22' 59"	12.8	Galaxy	0.012x0.010	Bootes	
IC 1010	14h 28m 15.5s	+00° 56' 45"	12.8	Galaxy	0.015x0.015	Virgo	
IC 1048	14h 43m 51.9s	+04° 48' 54"	12.8	Galaxy	0.018x0.005	Virgo	
NGC 5210	13h 33m 43.6s	+07° 04' 41"	12.9	Galaxy	0.011x0.01	Virgo	
NGC 5456	14h 05m 51.5s	+11° 47' 10"	12.9	Galaxy	0.01x0.008	Bootes	
NGC 5482	14h 09m 24.1s	+08° 50' 48"	12.9	Galaxy	0.01x0.005	Bootes	
NGC 5491A	14h 11m 51.3s	+06° 16' 51"	12.9	Galaxy	0.011x0.006	Virgo	5491A
NGC 5549	14h 19m 32.3s	+07° 17' 41"	12.9	Galaxy	0.013x0.006	Virgo	
NGC 5666	14h 34m 01.9s	+10° 25' 56"	12.9	Galaxy	0.007x0.006	Bootes	
NGC 5718	14h 41m 37.2s	+03° 23' 21"	12.9	Galaxy	0.012x0.009	Virgo	
IC 1024	14h 32m 21.6s	+02° 55' 44"	12.9	Galaxy	0.013x0.005	Virgo	
NGC 5209	13h 33m 36.6s	+07° 14' 09"	13.0	Galaxy	0.01x0.008	Virgo	
IC 5252	13h 39m 10.5s	+04° 27' 05"	13.0	Galaxy	0.011x0.007	Virgo	
NGC 5417	14h 03m 06.6s	+07° 57' 02"	13.0	Galaxy	0.012x0.005	Bootes	
NGC 5674	14h 34m 46.1s	+05° 22' 49"	13.0	Galaxy	0.009x0.008	Virgo	
NGC 5679	14h 36m 02.6s	+05° 16' 52"	13.0	Galaxy	0.009x0.005	Virgo	
NGC 5692	14h 39m 12.4s	+03° 19' 58"	13.0	Galaxy	0.007x0.005	Virgo	
IC 900	13h 35m 36.7s	+09° 14' 43"	13.0	Galaxy	0.013x0.008	Virgo	
NGC 5208	13h 33m 22.0s	+07° 13' 29"	13.1	Galaxy	0.014x0.005	Virgo	
NGC 5227	13h 36m 19.8s	+01° 19' 08"	13.1	Galaxy	0.015x0.013	Virgo	
NGC 5348	13h 55m 05.4s	+05° 08' 21"	13.1	Galaxy	0.029x0.004	Virgo	
NGC 5384	13h 59m 06.8s	+06° 25' 52"	13.1	Galaxy	0.012x0.006	Virgo	
NGC 5424	14h 03m 49.0s	+09° 20' 06"	13.1	Galaxy	0.013x0.010	Bootes	
NGC 5570	14h 15m 14.5s	+07° 25' 56"	13.1	Galaxy	0.013x0.008	Bootes	
IC 903	13h 39m 21.5s	-00° 19' 07"	13.1	Galaxy	0.015x0.006	Virgo	
IC 966	13h 59m 08.2s	+05° 19' 14"	13.1	Galaxy	0.006x0.005	Virgo	
IC 989	14h 15m 45.8s	+03° 02' 52"	13.1	Galaxy	0.010x0.009	Virgo	
NGC 5386	13h 59m 16.2s	+06° 15' 06"	13.2	Galaxy	0.008x0.003	Virgo	
NGC 5434	14h 04m 16.4s	+09° 21' 43"	13.2	Galaxy	0.012x0.011	Bootes	
NGC 5463	14h 07m 03.9s	+09° 16' 04"	13.2	Galaxy	0.01x0.004	Bootes	
NGC 5550	14h 19m 20.2s	+12° 48' 03"	13.2	Galaxy	0.01x0.006	Bootes	
NGC 5569	14h 21m 26.6s	+03° 54' 04"	13.2	Galaxy	0.014x0.013	Virgo	

Table 112: Main objects visible on chart 105 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5360	13h 56m 32.7s	+04° 53' 45"	13.3	Galaxy	0.013x0.005	Virgo	
NGC 5409	14h 02m 39.3s	+09° 24' 15"	13.3	Galaxy	0.014x0.009	Bootes	
NGC 5411	14h 02m 52.5s	+08° 51' 05"	13.3	Galaxy	0.011x0.006	Bootes	
NGC 5416	14h 03m 04.7s	+09° 21' 14"	13.3	Galaxy	0.011x0.006	Bootes	
NGC 5514	14h 14m 32.3s	+07° 34' 35"	13.3	Galaxy	0.011x0.006	Bootes	
NGC 5575	14h 21m 53.4s	+06° 07' 16"	13.3	Galaxy	0.008x0.007	Virgo	
NGC 5627	14h 29m 26.6s	+11° 17' 55"	13.3	Galaxy	0.014x0.008	Bootes	
NGC 5661	14h 32m 51.0s	+06° 10' 18"	13.3	Galaxy	0.012x0.005	Virgo	
IC 962	13h 58m 06.0s	+11° 56' 03"	13.3	Galaxy	0.006x0.006	Bootes	
NGC 5231	13h 36m 43.1s	+02° 54' 27"	13.4	Galaxy	0.009x0.007	Virgo	
NGC 5470	14h 07m 25.9s	+05° 56' 38"	13.4	Galaxy	0.020x0.003	Virgo	
IC 896	13h 35m 04.6s	+04° 46' 38"	13.4	Galaxy	0.01x0.006	Virgo	
IC 994	14h 19m 15.2s	+11° 06' 46"	13.4	Galaxy	0.010x0.004	Bootes	
IC 5270	13h 43m 05.5s	+04° 10' 20"	13.5	Galaxy	0.009x0.006	Virgo	
NGC 5405	14h 02m 03.2s	+07° 36' 56"	13.5	Galaxy	0.006x0.006	Bootes	
NGC 5418	14h 03m 11.2s	+07° 35' 52"	13.5	Galaxy	0.009x0.004	Bootes	
NGC 5501	14h 13m 15.2s	+01° 11' 20"	13.5	Galaxy	0.006x0.005	Virgo	
NGC 5531	14h 17m 36.0s	+10° 48' 10"	13.5	Galaxy	0.007x0.007	Bootes	
NGC 5681	14h 36m 36.2s	+08° 13' 20"	13.5	Galaxy	0.007x0.005	Bootes	
NGC 5246	13h 38m 23.9s	+04° 00' 48"	13.6	Galaxy	0.008x0.006	Virgo	
NGC 5446	14h 04m 41.2s	+09° 31' 31"	13.6	Galaxy	0.006x0.006	Bootes	
NGC 5562	14h 21m 03.9s	+10° 10' 53"	13.6	Galaxy	0.005x0.005	Bootes	
NGC 5747	14h 45m 12.7s	+12° 03' 24"	13.6	Galaxy	0.006x0.006	Bootes	
IC 1042	14h 41m 33.1s	+03° 23' 36"	13.6	Galaxy	0.009x0.009	Virgo	
IC 904	13h 39m 27.5s	+00° 26' 58"	13.6	Galaxy	0.01x0.005	Virgo	
NGC 5366	13h 57m 20.3s	-00° 20' 06"	13.7	Galaxy	0.005x0.005	Virgo	
NGC 5539	14h 18m 31.1s	+08° 05' 46"	13.7	Galaxy	0.003x0.002	Bootes	
NGC 5680	14h 36m 40.0s	-00° 05' 28"	13.7	Galaxy	0.007x0.005	Virgo	
NGC 5725	14h 41m 53.0s	+02° 06' 33"	13.7	Galaxy	0.01x0.006	Virgo	
IC 1011	14h 28m 59.5s	+00° 55' 37"	13.7	Galaxy	0.003x0.002	Virgo	
NGC 5331-2	13h 53m 10.9s	+02° 00' 46"	13.8	Galaxy	0.009x0.007	Virgo	5331-2
NGC 5436	14h 04m 34.4s	+09° 29' 17"	13.8	Galaxy	0.009x0.003	Bootes	
NGC 5521	14h 16m 18.0s	+04° 19' 32"	13.8	Galaxy	0.005x0.004	Virgo	
NGC 5599	14h 24m 44.3s	+06° 29' 40"	13.8	Galaxy	0.011x0.004	Virgo	
NGC 5679A	14h 36m 00.3s	+05° 16' 42"	13.8	Galaxy	0.006x0.003	Virgo	5679A
IC 1054	14h 47m 26.2s	+01° 12' 02"	13.8	Galaxy	0.008x0.005	Virgo	
IC 939	13h 48m 37.7s	+03° 19' 22"	13.8	Galaxy	0.007x0.007	Virgo	
IC 5285	13h 45m 20.7s	+02° 01' 14"	13.9	Galaxy	0.006x0.006	Virgo	
NGC 5387	13h 59m 18.8s	+05° 59' 01"	13.9	Galaxy	0.013x0.002	Virgo	
NGC 5431	14h 04m 00.5s	+09° 16' 37"	13.9	Galaxy	0.006x0.005	Bootes	
NGC 5434B	14h 04m 20.4s	+09° 22' 53"	13.9	Galaxy	0.013x0.002	Bootes	5434B
NGC 5528	14h 17m 13.2s	+08° 12' 37"	13.9	Galaxy	0.011x0.005	Bootes	
NGC 5738	14h 44m 51.4s	+01° 31' 41"	13.9	Galaxy	0.008x0.002	Virgo	
IC 1001	14h 21m 33.6s	+05° 20' 45"	13.9	Galaxy	0.007x0.003	Virgo	
IC 992	14h 19m 10.0s	+00° 48' 29"	13.9	Galaxy	0.010x0.006	Virgo	
NGC 5213	13h 35m 33.9s	+04° 02' 21"	14.0	Galaxy	0.007x0.006	Virgo	

Table 112: Main objects visible on chart 105 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5224	13h 36m 03.1s	+06° 23' 24"	14.0	Galaxy	0.005x0.005	Virgo	
NGC 5487	14h 10m 37.4s	+07° 59' 06"	14.0	Galaxy	0.007x0.003	Bootes	
NGC 5511A	14h 14m 01.7s	+08° 32' 07"	14.0	Galaxy	0.005x0.005	Bootes	5511A
NGC 5733	14h 43m 41.3s	-00° 25' 38"	14.0	Galaxy	0.008x0.003	Virgo	
IC 1003	14h 22m 23.9s	+04° 59' 29"	14.0	Galaxy	0.010x0.004	Virgo	
IC 943	13h 51m 26.7s	+03° 06' 20"	14.0	Galaxy	0.005x0.005	Virgo	
IC 952	13h 54m 36.6s	+03° 17' 22"	14.0	Galaxy	0.010x0.003	Virgo	
IC 986	14h 12m 21.3s	+01° 12' 10"	14.0	Galaxy	0.005x0.005	Virgo	
NGC 5191	13h 31m 40.8s	+11° 06' 32"	14.1	Galaxy	0.007x0.005	Virgo	
NGC 5331-1	13h 53m 11.2s	+02° 01' 12"	14.1	Galaxy	0.005x0.003	Virgo	5331-1
NGC 5552	14h 19m 57.6s	+06° 57' 00"	14.1	Galaxy	0.006x0.002	Virgo	
IC 1007	14h 25m 30.8s	+04° 28' 43"	14.1	Galaxy	0.003x0.003	Virgo	
IC 1016	14h 28m 26.4s	+04° 44' 29"	14.1	Galaxy	0.007x0.002	Virgo	
IC 1044	14h 42m 21.7s	+09° 21' 20"	14.1	Galaxy	0.009x0.005	Bootes	
IC 940	13h 48m 52.6s	+03° 21' 40"	14.1	Galaxy	0.005x0.002	Virgo	
IC 988	14h 15m 26.6s	+03° 06' 27"	14.1	Galaxy	0.004x0.003	Virgo	
IC 5235	13h 36m 55.6s	+06° 29' 37"	14.2	Galaxy	0.01x0.004	Virgo	
NGC 5245	13h 38m 17.9s	+03° 48' 25"	14.2	Galaxy	0.006x0.002	Virgo	
NGC 5469	14h 13m 23.3s	+08° 33' 50"	14.2	Galaxy	0.004x0.003	Bootes	
NGC 5542	14h 18m 46.8s	+07° 28' 34"	14.2	Galaxy	0.004x0.002	Bootes	
NGC 5551	14h 19m 48.9s	+05° 22' 08"	14.2	Galaxy	0.003x0.002	Virgo	
IC 5212	13h 33m 50.2s	+07° 11' 46"	14.3	Galaxy	0.003x0.002	Virgo	
NGC 5437	14h 04m 40.6s	+09° 26' 16"	14.3	Galaxy	0.007x0.003	Bootes	
NGC 5537	14h 18m 30.7s	+06° 58' 20"	14.3	Galaxy	0.008x0.004	Virgo	
MCG 1-37-13	14h 28m 23.8s	+04° 41' 59"	14.3	Galaxy	0.006x0.006	Virgo	5619C
NGC 5736	14h 44m 23.0s	+11° 07' 39"	14.3	Galaxy	0.009x0.005	Bootes	
IC 1035	14h 39m 03.0s	+09° 15' 34"	14.3	Galaxy	0.003x0.003	Bootes	
IC 1038	14h 40m 19.5s	+11° 51' 08"	14.3	Galaxy	0.003x0.002	Bootes	
IC 1041	14h 41m 32.3s	+03° 18' 03"	14.3	Galaxy	0.005x0.003	Virgo	
IC 5261	13h 41m 10.5s	+04° 59' 11"	14.4	Galaxy	0.006x0.003	Virgo	
NGC 5373	13h 58m 01.7s	+05° 09' 55"	14.4	Galaxy	0.004x0.003	Virgo	
NGC 5554	14h 20m 08.7s	+06° 56' 20"	14.4	Galaxy	0.005x0.004	Virgo	
NGC 5763	14h 49m 50.5s	+12° 24' 59"	14.4	Galaxy	0.003x0.003	Bootes	
IC 1002	14h 21m 36.3s	+05° 24' 15"	14.4	Galaxy	0.005x0.002	Virgo	
IC 1022	14h 30m 56.3s	+03° 41' 36"	14.4	Galaxy	0.009x0.003	Virgo	
IC 1039	14h 41m 23.7s	+03° 21' 25"	14.4	Galaxy	0.006x0.003	Virgo	
IC 1040	14h 41m 15.3s	+09° 24' 03"	14.4	Galaxy	0.003x0.003	Bootes	
NGC 5511	14h 13m 58.8s	+08° 32' 55"	14.5	Galaxy	0.003x0.001	Bootes	NGC 5511A
NGC 5514A	14h 14m 33.0s	+07° 34' 27"	14.5	Galaxy	0.003x0.003	Bootes	5514A
NGC 5573	14h 21m 35.1s	+06° 49' 34"	14.5	Galaxy	0.010x0.001	Virgo	
IC 1009	14h 27m 09.7s	+12° 16' 23"	14.5	Galaxy	0.005x0.003	Bootes	
IC 1025	14h 32m 21.9s	+06° 59' 03"	14.5	Galaxy	0.004x0.002	Virgo	
NGC 5543	14h 18m 57.5s	+07° 34' 18"	14.6	Galaxy	0.004x0.001	Bootes	
NGC 5563	14h 21m 06.8s	+06° 58' 25"	14.6	Galaxy	0.005x0.003	Virgo	
NGC 5647	14h 31m 28.3s	+11° 47' 53"	14.6	Galaxy	0.009x0.002	Bootes	
NGC 5538	14h 18m 36.0s	+07° 23' 37"	14.7	Galaxy	0.006x0.001	Bootes	

Table 112: Main objects visible on chart 105 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5532B	14h 17m 46.3s	+10° 42' 57"	14.8	Galaxy	0.002x0.001	Bootes	5532B
IC 993	14h 19m 11.2s	+11° 08' 02"	14.9	Galaxy	0.002x0.001	Bootes	
NGC 5463B	14h 07m 05.8s	+09° 16' 35"	15.0	Galaxy	0.002x0.001	Bootes	5463B
NGC 5535	14h 18m 24.5s	+08° 07' 30"	15.0	Galaxy	0.002x0.002	Bootes	
NGC 5665A	14h 33m 20.7s	+07° 59' 60"	15.0	Galaxy	0.001x0.001	Bootes	5665A
MCG 1-37-36	14h 36m 00.3s	+05° 16' 43"	15.0	Galaxy	0.003x0.003	Virgo	5679D
IC 1043	14h 41m 37.7s	+03° 17' 54"	15.1	Galaxy	0.003x0.001	Virgo	
NGC 5491B	14h 11m 51.6s	+06° 17' 17"	15.7	Galaxy	0.002x0.001	Virgo	5491B
NGC 5679C	14h 36m 04.9s	+05° 16' 35"	16.0	Galaxy	0.002x0.001	Virgo	

7.107 Main objects visible on chart 106

Table 113: Main objects visible on chart 106

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5904	15h 19m 28.5s	+02° 01' 07"	5.7	Globular cluster	0.191x0.191	Serpens Caput	M5
NGC 5846	15h 07m 23.9s	+01° 32' 12"	10.0	Galaxy	0.033x0.030	Virgo	
NGC 5746	14h 45m 50.5s	+01° 52' 51"	10.3	Galaxy	0.061x0.010	Virgo	
NGC 5813	15h 02m 06.0s	+01° 37' 54"	10.5	Galaxy	0.033x0.023	Virgo	
NGC 5850	15h 08m 02.4s	+01° 28' 32"	10.8	Galaxy	0.037x0.032	Virgo	
NGC 5921	15h 22m 50.0s	+05° 00' 24"	10.8	Galaxy	0.04x0.033	Serpens Caput	
NGC 5701	14h 40m 05.0s	+05° 17' 12"	10.9	Galaxy	0.035x0.034	Virgo	
NGC 5838	15h 06m 20.7s	+02° 01' 48"	10.9	Galaxy	0.035x0.012	Virgo	
NGC 5713	14h 41m 06.7s	-00° 21' 60"	11.2	Galaxy	0.024x0.020	Virgo	
NGC 5775	14h 54m 51.7s	+03° 28' 21"	11.4	Galaxy	0.033x0.009	Virgo	
NGC 5831	15h 05m 01.8s	+01° 09' 02"	11.5	Galaxy	0.017x0.015	Virgo	
NGC 5970	15h 39m 21.1s	+12° 07' 43"	11.5	Galaxy	0.025x0.016	Serpens Caput	
NGC 5750	14h 47m 06.3s	-00° 17' 54"	11.6	Galaxy	0.026x0.012	Virgo	
NGC 5806	15h 00m 55.0s	+01° 49' 12"	11.7	Galaxy	0.026x0.013	Virgo	
NGC 5957	15h 36m 14.3s	+11° 59' 20"	11.7	Galaxy	0.023x0.021	Serpens Caput	
NGC 5690	14h 38m 35.9s	+02° 12' 48"	11.8	Galaxy	0.028x0.008	Virgo	
NGC 5691	14h 38m 48.9s	-00° 28' 31"	11.8	Galaxy	0.015x0.011	Virgo	
NGC 5864	15h 10m 27.9s	+02° 59' 08"	11.8	Galaxy	0.023x0.007	Virgo	
NGC 5740	14h 45m 19.4s	+01° 36' 17"	11.9	Galaxy	0.023x0.012	Virgo	
NGC 5854	15h 08m 42.2s	+02° 30' 01"	11.9	Galaxy	0.022x0.006	Virgo	
NGC 5869	15h 10m 44.6s	+00° 24' 10"	11.9	Galaxy	0.019x0.013	Virgo	
NGC 5964	15h 38m 29.5s	+05° 54' 56"	11.9	Galaxy	0.034x0.027	Serpens Caput	
NGC 5774	14h 54m 36.7s	+03° 30' 36"	12.1	Galaxy	0.025x0.019	Virgo	
NGC 5719	14h 41m 51.9s	-00° 23' 39"	12.2	Galaxy	0.026x0.01	Virgo	
IC 1067	14h 53m 59.6s	+03° 15' 32"	12.2	Galaxy	0.016x0.013	Virgo	
NGC 5770	14h 54m 09.1s	+03° 53' 17"	12.3	Galaxy	0.014x0.010	Virgo	
NGC 5956	15h 35m 49.8s	+11° 41' 28"	12.3	Galaxy	0.013x0.013	Serpens Caput	
NGC 5990	15h 47m 10.9s	+02° 21' 38"	12.4	Galaxy	0.013x0.007	Serpens Caput	
NGC 5845	15h 06m 55.5s	+01° 33' 53"	12.5	Galaxy	0.005x0.004	Virgo	
NGC 5705	14h 40m 45.4s	-00° 47' 42"	12.7	Galaxy	0.025x0.015	Virgo	

Table 113: Main objects visible on chart 106 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5839	15h 06m 22.3s	+01° 33' 56"	12.7	Galaxy	0.010x0.01	Virgo	
NGC 5762	14h 49m 34.4s	+12° 22' 59"	12.8	Galaxy	0.012x0.010	Bootes	
NGC 5846A	15h 07m 24.0s	+01° 31' 33"	12.8	Galaxy	0.004x0.002	Virgo	5846A
IC 1048	14h 43m 51.9s	+04° 48' 54"	12.8	Galaxy	0.018x0.005	Virgo	
NGC 5718	14h 41m 37.2s	+03° 23' 21"	12.9	Galaxy	0.012x0.009	Virgo	
IC 1079	14h 57m 28.7s	+09° 17' 52"	12.9	Galaxy	0.015x0.009	Bootes	
IC 1116	15h 22m 47.8s	+08° 21' 37"	12.9	Galaxy	0.01x0.006	Serpens Caput	
NGC 5692	14h 39m 12.4s	+03° 19' 58"	13.0	Galaxy	0.007x0.005	Virgo	
NGC 6007	15h 54m 14.2s	+11° 54' 26"	13.2	Galaxy	0.014x0.01	Serpens Caput	
IC 1066	14h 53m 57.2s	+03° 13' 24"	13.2	Galaxy	0.01x0.005	Virgo	
IC 1071	14h 55m 06.4s	+04° 40' 41"	13.2	Galaxy	0.008x0.006	Virgo	
NGC 5865	15h 10m 44.3s	+00° 27' 46"	13.4	Galaxy	0.009x0.008	Virgo	
NGC 5887	15h 15m 38.9s	+01° 05' 19"	13.4	Galaxy	0.01x0.008	Serpens Caput	
NGC 5940	15h 32m 11.0s	+07° 23' 50"	13.4	Galaxy	0.006x0.006	Serpens Caput	
IC 1063	14h 53m 04.9s	+04° 36' 30"	13.4	Galaxy	0.01x0.005	Virgo	
IC 1078	14h 57m 21.6s	+09° 16' 57"	13.5	Galaxy	0.008x0.007	Bootes	
NGC 5747	14h 45m 12.7s	+12° 03' 24"	13.6	Galaxy	0.006x0.006	Bootes	
NGC 5790	14h 58m 28.8s	+08° 12' 50"	13.6	Galaxy	0.007x0.006	Bootes	
NGC 5852	15h 07m 47.7s	+12° 46' 44"	13.6	Galaxy	0.009x0.005	Bootes	
NGC 5920	15h 22m 44.6s	+07° 38' 43"	13.6	Galaxy	0.009x0.005	Serpens Caput	
NGC 5926	15h 24m 16.2s	+12° 39' 10"	13.6	Galaxy	0.006x0.005	Serpens Caput	
IC 1042	14h 41m 33.1s	+03° 23' 36"	13.6	Galaxy	0.009x0.009	Virgo	
NGC 5725	14h 41m 53.0s	+02° 06' 33"	13.7	Galaxy	0.01x0.006	Virgo	
IC 1101	15h 11m 49.7s	+05° 40' 42"	13.7	Galaxy	0.01x0.005	Virgo	
NGC 5814	15h 02m 16.0s	+01° 34' 01"	13.8	Galaxy	0.007x0.004	Virgo	
NGC 5848	15h 07m 29.6s	+01° 56' 11"	13.8	Galaxy	0.009x0.003	Virgo	
NGC 5988	15h 45m 25.5s	+10° 14' 15"	13.8	Galaxy	0.01x0.008	Serpens Caput	
IC 1054	14h 47m 26.2s	+01° 12' 02"	13.8	Galaxy	0.008x0.005	Virgo	
IC 1131	15h 39m 42.8s	+12° 01' 24"	13.8	Galaxy	0.005x0.004	Serpens Caput	
NGC 5738	14h 44m 51.4s	+01° 31' 41"	13.9	Galaxy	0.008x0.002	Virgo	
NGC 5765B	14h 51m 44.4s	+05° 02' 46"	13.9	Galaxy	0.007x0.002	Virgo	5765B
NGC 5911	15h 21m 12.3s	+03° 27' 17"	13.9	Galaxy	0.006x0.006	Serpens Caput	
NGC 5941	15h 32m 33.2s	+07° 16' 43"	13.9	Galaxy	0.003x0.002	Serpens Caput	
NGC 5983	15h 43m 38.0s	+08° 11' 07"	13.9	Galaxy	0.008x0.008	Serpens Caput	
IC 1072	14h 55m 07.1s	+04° 46' 11"	13.9	Galaxy	0.004x0.002	Virgo	
IC 1105	15h 14m 07.8s	+04° 13' 18"	13.9	Galaxy	0.007x0.003	Serpens Caput	
IC 1141	15h 50m 37.9s	+12° 20' 43"	13.9	Galaxy	0.005x0.005	Serpens Caput	
NGC 5733	14h 43m 41.3s	-00° 25' 38"	14.0	Galaxy	0.008x0.003	Virgo	
NGC 5782	14h 56m 47.1s	+11° 47' 23"	14.0	Galaxy	0.005x0.005	Bootes	
NGC 5837	15h 05m 32.1s	+12° 33' 53"	14.0	Galaxy	0.008x0.005	Bootes	
NGC 5931	15h 30m 22.4s	+07° 30' 43"	14.0	Galaxy	0.008x0.004	Serpens Caput	
IC 1102	15h 11m 58.9s	+04° 13' 36"	14.0	Galaxy	0.009x0.005	Virgo	
NGC 5776	14h 55m 27.2s	+02° 53' 40"	14.1	Galaxy	0.007x0.005	Virgo	
NGC 5811	15h 01m 22.1s	+01° 33' 10"	14.1	Galaxy	0.008x0.005	Virgo	
NGC 5851	15h 07m 44.7s	+12° 47' 22"	14.1	Galaxy	0.008x0.002	Bootes	
IC 1044	14h 42m 21.7s	+09° 21' 20"	14.1	Galaxy	0.009x0.005	Bootes	

Table 113: Main objects visible on chart 106 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5997	15h 48m 20.0s	+08° 16' 01"	14.2	Galaxy	0.004x0.003	Serpens Caput	
NGC 6006	15h 53m 53.5s	+11° 57' 12"	14.2	Galaxy	0.005x0.003	Serpens Caput	
IC 1092	15h 08m 28.5s	+09° 17' 26"	14.2	Galaxy	0.004x0.002	Bootes	
IC 1109	15h 17m 57.6s	+05° 11' 29"	14.2	Galaxy	0.003x0.003	Serpens Caput	
IC 1112	15h 18m 40.4s	+07° 09' 13"	14.2	Galaxy	0.008x0.005	Serpens Caput	
IC 4537	15h 18m 27.0s	+01° 58' 58"	14.2	Galaxy	0.002x0.001	Serpens Caput	
NGC 5736	14h 44m 23.0s	+11° 07' 39"	14.3	Galaxy	0.009x0.005	Bootes	
NGC 5960	15h 37m 11.8s	+05° 36' 26"	14.3	Galaxy	0.005x0.005	Serpens Caput	
IC 1035	14h 39m 03.0s	+09° 15' 34"	14.3	Galaxy	0.003x0.003	Bootes	
IC 1038	14h 40m 19.5s	+11° 51' 08"	14.3	Galaxy	0.003x0.002	Bootes	
IC 1041	14h 41m 32.3s	+03° 18' 03"	14.3	Galaxy	0.005x0.003	Virgo	
IC 1068	14h 54m 27.3s	+03° 00' 18"	14.3	Galaxy	0.004x0.002	Virgo	
IC 1089	15h 08m 19.1s	+07° 02' 56"	14.3	Galaxy	0.003x0.002	Virgo	
IC 1107	15h 15m 02.9s	+04° 38' 55"	14.3	Galaxy	0.004x0.004	Serpens Caput	
IC 1121	15h 28m 37.1s	+06° 44' 34"	14.3	Galaxy	0.003x0.003	Serpens Caput	
NGC 5763	14h 49m 50.5s	+12° 24' 59"	14.4	Galaxy	0.003x0.003	Bootes	
NGC 5769	14h 53m 34.6s	+07° 51' 34"	14.4	Galaxy	0.005x0.005	Bootes	
NGC 5942	15h 32m 29.7s	+07° 15' 07"	14.4	Galaxy	0.003x0.003	Serpens Caput	
IC 1039	14h 41m 23.7s	+03° 21' 25"	14.4	Galaxy	0.006x0.003	Virgo	
IC 1040	14h 41m 15.3s	+09° 24' 03"	14.4	Galaxy	0.003x0.003	Bootes	
IC 1070	14h 54m 45.6s	+03° 24' 46"	14.4	Galaxy	0.005x0.002	Virgo	
IC 1082	14h 59m 45.7s	+06° 56' 12"	14.4	Galaxy	0.007x0.005	Virgo	
IC 1113	15h 19m 06.4s	+12° 25' 26"	14.4	Galaxy	0.005x0.005	Serpens Caput	
NGC 5855	15h 08m 43.0s	+03° 54' 59"	14.5	Galaxy	0.003x0.003	Virgo	
NGC 5952	15h 35m 50.0s	+04° 54' 01"	14.5	Galaxy	0.003x0.002	Serpens Caput	
NGC 6009	15h 54m 15.1s	+12° 00' 21"	14.5	Galaxy	0.004x0.001	Serpens Caput	
IC 1137	15h 49m 24.9s	+08° 32' 02"	14.5	Galaxy	0.002x0.002	Serpens Caput	
NGC 5765	14h 51m 45.5s	+05° 02' 28"	14.6	Galaxy	0.005x0.002	Virgo	NGC 5765B
IC 1073	14h 55m 08.4s	+04° 43' 19"	14.6	Galaxy	0.003x0.002	Virgo	
IC 1106	15h 14m 50.1s	+04° 38' 38"	14.6	Galaxy	0.008x0.003	Serpens Caput	
IC 1087	15h 07m 38.0s	+03° 42' 31"	14.8	Galaxy	0.006x0.002	Virgo	
IC 1122	15h 30m 15.8s	+07° 33' 23"	14.8	Galaxy	0.004x0.002	Serpens Caput	
NGC 5847	15h 07m 15.6s	+06° 18' 40"	14.9	Galaxy	0.005x0.003	Virgo	
NGC 5955	15h 36m 06.0s	+05° 00' 16"	14.9	Galaxy	0.007x0.005	Serpens Caput	
NGC 5944	15h 32m 40.5s	+07° 14' 52"	15.0	Galaxy	0.006x0.001	Serpens Caput	
IC 1043	14h 41m 37.7s	+03° 17' 54"	15.1	Galaxy	0.003x0.001	Virgo	
NGC 5919	15h 22m 29.7s	+07° 39' 22"	15.9	Galaxy	0.002x0.002	Serpens Caput	

7.108 Main objects visible on chart 107

Table 114: Main objects visible on chart 107

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4593	16h 12m 35.3s	+12° 01' 35"	10.7	Planetary Nebula	0.005x0.005	Hercules	
NGC 6070	16h 10m 53.7s	+00° 39' 50"	11.8	Galaxy	0.03x0.015	Serpens Caput	

Table 114: Main objects visible on chart 107 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6014	15h 56m 50.7s	+05° 52' 49"	12.2	Galaxy	0.014x0.013	Serpens Caput	
NGC 6106	16h 19m 39.5s	+07° 22' 06"	12.2	Galaxy	0.02x0.010	Hercules	
NGC 5990	15h 47m 10.9s	+02° 21' 38"	12.4	Galaxy	0.013x0.007	Serpens Caput	
NGC 6010	15h 55m 14.1s	+00° 29' 28"	12.6	Galaxy	0.016x0.004	Serpens Caput	
IC 1158	16h 02m 28.9s	+01° 39' 29"	12.6	Galaxy	0.020x0.014	Serpens Caput	
NGC 6240	16h 53m 53.2s	+02° 22' 28"	12.9	Galaxy	0.017x0.008	Ophiuchus	
NGC 6100	16h 17m 47.3s	+00° 47' 52"	13.0	Galaxy	0.015x0.009	Serpens Caput	
NGC 6063	16h 08m 05.5s	+07° 55' 56"	13.1	Galaxy	0.014x0.007	Serpens Caput	
NGC 6007	15h 54m 14.2s	+11° 54' 26"	13.2	Galaxy	0.014x0.01	Serpens Caput	
NGC 6017	15h 58m 08.6s	+05° 56' 52"	13.2	Galaxy	0.006x0.005	Serpens Caput	
IC 1149	15h 58m 58.8s	+12° 01' 09"	13.3	Galaxy	0.01x0.008	Serpens Caput	
NGC 6036	16h 05m 24.6s	+03° 49' 11"	13.4	Galaxy	0.009x0.003	Serpens Caput	
IC 1197	16h 09m 09.9s	+07° 29' 33"	13.4	Galaxy	0.024x0.004	Serpens Caput	
NGC 6081	16h 13m 48.4s	+09° 49' 22"	13.5	Galaxy	0.015x0.005	Hercules	
NGC 6224	16h 49m 11.3s	+06° 16' 54"	13.5	Galaxy	0.008x0.008	Hercules	
NGC 6080	16h 13m 53.0s	+02° 07' 58"	13.6	Galaxy	0.01x0.008	Serpens Caput	
NGC 6132	16h 24m 29.5s	+11° 44' 45"	13.6	Galaxy	0.012x0.004	Hercules	
IC 1199	16h 11m 26.0s	+09° 59' 39"	13.6	Galaxy	0.010x0.004	Serpens Caput	
IC 1206	16h 16m 04.0s	+11° 15' 11"	13.6	Galaxy	0.009x0.005	Hercules	
NGC 6220	16h 48m 08.7s	-00° 18' 22"	13.7	Galaxy	0.014x0.007	Ophiuchus	
IC 1196	16h 08m 49.7s	+10° 43' 59"	13.7	Galaxy	0.009x0.005	Serpens Caput	
IC 1205	16h 15m 07.5s	+09° 29' 35"	13.7	Galaxy	0.004x0.004	Hercules	
NGC 5988	15h 45m 25.5s	+10° 14' 15"	13.8	Galaxy	0.01x0.008	Serpens Caput	
NGC 6225	16h 49m 14.5s	+06° 11' 33"	13.8	Galaxy	0.007x0.005	Hercules	
IC 4621	16h 51m 42.9s	+08° 45' 16"	13.8	Galaxy	0.007x0.005	Hercules	
NGC 5983	15h 43m 38.0s	+08° 11' 07"	13.9	Galaxy	0.008x0.008	Serpens Caput	
IC 1141	15h 50m 37.9s	+12° 20' 43"	13.9	Galaxy	0.005x0.005	Serpens Caput	
IC 1220	16h 30m 30.3s	+08° 24' 44"	14.0	Galaxy	0.008x0.008	Hercules	
NGC 6037	16h 05m 23.8s	+03° 46' 02"	14.1	Galaxy	0.005x0.005	Serpens Caput	
NGC 5997	15h 48m 20.0s	+08° 16' 01"	14.2	Galaxy	0.004x0.003	Serpens Caput	
NGC 6006	15h 53m 53.5s	+11° 57' 12"	14.2	Galaxy	0.005x0.003	Serpens Caput	
NGC 6219	16h 47m 14.3s	+09° 00' 25"	14.2	Galaxy	0.005x0.005	Hercules	
IC 1198	16h 09m 27.0s	+12° 17' 02"	14.3	Galaxy	0.005x0.002	Serpens Caput	
NGC 6230	16h 51m 40.3s	+04° 34' 29"	14.4	Galaxy	0.006x0.005	Hercules	
NGC 6234	16h 52m 50.8s	+04° 21' 18"	14.4	Galaxy	0.003x0.003	Ophiuchus	
NGC 6009	15h 54m 15.1s	+12° 00' 21"	14.5	Galaxy	0.004x0.001	Serpens Caput	
IC 1137	15h 49m 24.9s	+08° 32' 02"	14.5	Galaxy	0.002x0.002	Serpens Caput	
NGC 6070A	16h 11m 04.2s	+00° 43' 08"	14.6	Galaxy	0.005x0.003	Serpens Caput	6070A
NGC 6029	16h 02m 49.5s	+12° 31' 32"	14.7	Galaxy	0.01x0.005	Serpens Caput	
NGC 6070B	16h 11m 07.1s	+00° 44' 15"	14.8	Galaxy	0.003x0.003	Serpens Caput	6070B

7.109 Main objects visible on chart 108

Table 115: Main objects visible on chart 108

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel186	18h 01m 30.1s	+02° 56' 02"	3.0	Open cluster	2.0x2.0	Ophiuchus	
IC 4665	17h 47m 04.9s	+05° 42' 39"	4.2	Open cluster	0.583x0.583	Ophiuchus	
Cr350	17h 48m 54.8s	+01° 17' 42"	6.1	Open cluster	0.375x0.375	Ophiuchus	
NGC 6535	18h 04m 46.2s	-00° 17' 40"	9.3	Globular cluster	0.028x0.028	Serpens Cauda	
NGC 6384	17h 33m 16.6s	+07° 02' 56"	10.4	Galaxy	0.051x0.034	Ophiuchus	
NGC 6426	17h 45m 48.7s	+03° 09' 52"	10.9	Globular cluster	0.035x0.035	Ophiuchus	
NGC 6525	18h 02m 56.7s	+11° 01' 35"	12.0	Open cluster	0.033x0.033	Ophiuchus	
NGC 6368	17h 28m 01.9s	+11° 31' 44"	12.3	Galaxy	0.029x0.005	Ophiuchus	
NGC 6509	18h 00m 18.0s	+06° 17' 14"	12.5	Galaxy	0.013x0.01	Ophiuchus	
NGC 6240	16h 53m 53.2s	+02° 22' 28"	12.9	Galaxy	0.017x0.008	Ophiuchus	
NGC 6296	17h 09m 38.4s	+03° 52' 21"	13.4	Galaxy	0.007x0.005	Ophiuchus	
IC 1255	17h 23m 55.4s	+12° 40' 49"	13.4	Galaxy	0.008x0.004	Ophiuchus	
NGC 6224	16h 49m 11.3s	+06° 16' 54"	13.5	Galaxy	0.008x0.008	Hercules	
NGC 6378	17h 31m 34.5s	+06° 16' 08"	13.5	Galaxy	0.010x0.007	Ophiuchus	
NGC 6225	16h 49m 14.5s	+06° 11' 33"	13.8	Galaxy	0.007x0.005	Hercules	
IC 1242	17h 09m 36.6s	+04° 01' 40"	13.8	Galaxy	0.007x0.005	Ophiuchus	
IC 4621	16h 51m 42.9s	+08° 45' 16"	13.8	Galaxy	0.007x0.005	Hercules	
NGC 6230	16h 51m 40.3s	+04° 34' 29"	14.4	Galaxy	0.006x0.005	Hercules	
NGC 6234	16h 52m 50.8s	+04° 21' 18"	14.4	Galaxy	0.003x0.003	Ophiuchus	
NGC 6280-1	17h 02m 50.1s	+06° 38' 29"	14.6	Galaxy	0.004x0.002	Ophiuchus	6280-1
IC 4676	18h 03m 43.3s	+11° 49' 28"	14.8	Galaxy	0.002x0.002	Ophiuchus	
NGC 6280-2	17h 02m 50.7s	+06° 38' 33"	15.0	Galaxy	0.001x0.001	Ophiuchus	6280-2

7.110 Main objects visible on chart 109

Table 116: Main objects visible on chart 109

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel186	18h 01m 30.1s	+02° 56' 02"	3.0	Open cluster	2.0x2.0	Ophiuchus	
NGC 6633	18h 28m 07.7s	+06° 31' 13"	4.6	Open cluster	0.166x0.166	Ophiuchus	
IC 4756	18h 39m 47.1s	+05° 27' 02"	4.6	Open cluster	0.333x0.333	Serpens Cauda	
NGC 6709	18h 52m 21.1s	+10° 21' 21"	6.7	Open cluster	0.125x0.125	Aquila	
NGC 6755	19h 08m 42.6s	+04° 17' 46"	7.5	Open cluster	0.125x0.125	Aquila	
NGC 6572	18h 12m 58.9s	+06° 51' 35"	8.1	Planetary Nebula	0.002x0.002	Ophiuchus	
NGC 6535	18h 04m 46.2s	-00° 17' 40"	9.3	Globular cluster	0.028x0.028	Serpens Cauda	
NGC 6756	19h 09m 36.0s	+04° 44' 08"	10.6	Open cluster	0.033x0.033	Aquila	
NGC 6741	19h 03m 32.5s	-00° 25' 18"	11.5	Planetary Nebula	0.001x0.001	Aquila	
NGC 6525	18h 02m 56.7s	+11° 01' 35"	12.0	Open cluster	0.033x0.033	Ophiuchus	
NGC 6749	19h 06m 09.9s	+01° 55' 47"	12.4	Globular cluster	0.033x0.033	Aquila	
NGC 6509	18h 00m 18.0s	+06° 17' 14"	12.5	Galaxy	0.013x0.01	Ophiuchus	
IC 4688	18h 09m 02.3s	+11° 42' 57"	13.1	Galaxy	0.012x0.009	Ophiuchus	
IC 4691	18h 09m 35.9s	+11° 49' 58"	14.7	Galaxy	0.006x0.005	Ophiuchus	
IC 4676	18h 03m 43.3s	+11° 49' 28"	14.8	Galaxy	0.002x0.002	Ophiuchus	

7.111 Main objects visible on chart 110

Table 117: Main objects visible on chart 110

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6755	19h 08m 42.6s	+04° 17' 46"	7.5	Open cluster	0.125x0.125	Aquila	
NGC 6760	19h 12m 07.0s	+01° 03' 43"	9.0	Globular cluster	0.08x0.08	Aquila	
NGC 6790	19h 23m 51.7s	+01° 32' 57"	10.5	Planetary Nebula	0.001x0.001	Aquila	
NGC 6756	19h 09m 36.0s	+04° 44' 08"	10.6	Open cluster	0.033x0.033	Aquila	
NGC 6781	19h 19m 21.1s	+06° 34' 27"	11.4	Planetary Nebula	0.015x0.015	Aquila	
NGC 6803	19h 32m 07.7s	+10° 05' 47"	11.4	Planetary Nebula	0.001x0.001	Aquila	
NGC 6741	19h 03m 32.5s	-00° 25' 18"	11.5	Planetary Nebula	0.001x0.001	Aquila	
NGC 6804	19h 32m 27.1s	+09° 15' 54"	12.0	Planetary Nebula	0.009x0.009	Aquila	
NGC 6807	19h 35m 26.7s	+05° 43' 29"	12.0	Planetary Nebula	0.001x0.001	Aquila	
NGC 6837	19h 53m 59.0s	+11° 44' 46"	12.0	Open cluster	0.025x0.025	Aquila	
NGC 6749	19h 06m 09.9s	+01° 55' 47"	12.4	Globular cluster	0.033x0.033	Aquila	
NGC 6852	20h 01m 33.9s	+01° 46' 45"	12.6	Planetary Nebula	0.003x0.003	Aquila	

7.112 Main objects visible on chart 111

Table 118: Main objects visible on chart 111

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6934	20h 35m 04.5s	+07° 28' 02"	8.9	Globular cluster	0.059x0.059	Delphinus	CALDWELL 47
NGC 6962	20h 48m 14.1s	+00° 23' 20"	12.1	Galaxy	0.024x0.018	Aquarius	
NGC 6928	20h 33m 42.1s	+09° 59' 23"	12.2	Galaxy	0.017x0.005	Delphinus	
NGC 6906	20h 24m 27.1s	+06° 30' 12"	12.3	Galaxy	0.013x0.006	Aquila	
NGC 6956	20h 44m 45.0s	+12° 34' 41"	12.3	Galaxy	0.015x0.015	Delphinus	
NGC 7015	21h 06m 29.3s	+11° 29' 11"	12.5	Galaxy	0.015x0.013	Equuleus	
NGC 6930	20h 33m 50.9s	+09° 56' 10"	12.8	Galaxy	0.01x0.004	Delphinus	
NGC 7001	21h 02m 03.1s	-00° 07' 24"	12.9	Galaxy	0.011x0.009	Aquarius	
NGC 6964	20h 48m 19.5s	+00° 22' 06"	13.0	Galaxy	0.014x0.010	Aquarius	CALDWELL 12
NGC 6967	20h 48m 29.2s	+00° 28' 45"	13.1	Galaxy	0.007x0.005	Aquarius	
NGC 7046	21h 15m 50.6s	+02° 54' 36"	13.1	Galaxy	0.015x0.011	Equuleus	
NGC 6954	20h 44m 57.6s	+03° 16' 31"	13.2	Galaxy	0.008x0.005	Delphinus	
NGC 6972	20h 50m 51.2s	+09° 58' 03"	13.3	Galaxy	0.009x0.004	Delphinus	
NGC 6917	20h 28m 21.0s	+08° 09' 27"	13.4	Galaxy	0.011x0.008	Delphinus	
NGC 7047	21h 17m 23.0s	-00° 45' 02"	13.4	Galaxy	0.01x0.005	Aquarius	
IC 1368	21h 15m 07.3s	+02° 15' 13"	13.4	Galaxy	0.01x0.003	Aquarius	
NGC 6955	20h 45m 12.4s	+02° 39' 41"	13.6	Galaxy	0.011x0.010	Delphinus	
IC 1320	20h 27m 20.1s	+02° 58' 10"	13.6	Galaxy	0.008x0.005	Delphinus	
NGC 6901	20h 23m 14.7s	+06° 29' 18"	13.7	Galaxy	0.011x0.004	Aquila	
NGC 6959	20h 48m 02.4s	+00° 29' 50"	13.7	Galaxy	0.005x0.002	Aquarius	
NGC 6961	20h 48m 05.6s	+00° 25' 51"	13.7	Galaxy	0.005x0.004	Aquarius	
NGC 6971	20h 50m 17.2s	+06° 03' 47"	13.7	Galaxy	0.009x0.007	Delphinus	
IC 1365	21h 14m 50.6s	+02° 38' 26"	13.7	Galaxy	0.009x0.005	Equuleus	
NGC 6944	20h 39m 16.9s	+07° 03' 39"	13.8	Galaxy	0.012x0.005	Delphinus	

Table 118: Main objects visible on chart 111 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1317	20h 24m 10.6s	+00° 43' 25"	13.8	Galaxy	0.005x0.005	Aquila	
IC 1364	21h 14m 19.2s	+02° 50' 43"	13.8	Galaxy	0.008x0.005	Equuleus	
IC 1359	21h 09m 34.7s	+12° 33' 27"	13.9	Galaxy	0.01x0.003	Delphinus	
NGC 6965	20h 48m 15.7s	+00° 33' 04"	14.0	Galaxy	0.005x0.003	Aquarius	
NGC 7040	21h 14m 09.4s	+08° 56' 24"	14.0	Galaxy	0.007x0.006	Equuleus	
IC 1327	20h 36m 36.6s	+00° 03' 28"	14.0	Galaxy	0.007x0.006	Aquila	
NGC 6969	20h 49m 20.5s	+07° 48' 27"	14.1	Galaxy	0.009x0.002	Delphinus	
IC 1367	21h 15m 04.1s	+03° 04' 11"	14.1	Galaxy	0.002x0.001	Equuleus	
IC 1361	21h 12m 23.0s	+05° 07' 45"	14.2	Galaxy	0.007x0.005	Equuleus	
IC 1375	21h 21m 54.0s	+04° 03' 47"	14.2	Galaxy	0.008x0.005	Equuleus	
IC 5083	21h 04m 43.4s	+11° 50' 10"	14.2	Galaxy	0.004x0.004	Equuleus	
NGC 6944A	20h 39m 04.3s	+06° 57' 59"	14.3	Galaxy	0.007x0.005	Delphinus	6944A
NGC 6957	20h 45m 42.2s	+02° 38' 48"	14.4	Galaxy	0.004x0.003	Delphinus	
NGC 6927	20h 33m 30.1s	+09° 58' 44"	14.5	Galaxy	0.004x0.001	Delphinus	
IC 1360	21h 11m 44.2s	+05° 08' 45"	14.5	Galaxy	0.005x0.002	Equuleus	
IC 1366	21h 15m 02.8s	+01° 51' 07"	14.5	Galaxy	0.003x0.001	Aquarius	
IC 1373	21h 21m 32.1s	+01° 10' 12"	14.5	Galaxy	0.002x0.002	Aquarius	
NGC 6988	20h 56m 41.0s	+10° 34' 41"	14.6	Galaxy	0.004x0.004	Delphinus	
IC 1362	21h 12m 47.3s	+02° 24' 14"	14.6	Galaxy	0.002x0.001	Aquarius	
IC 1370	21h 16m 09.0s	+02° 16' 04"	14.6	Galaxy	0.013x0.004	Aquarius	
IC 1374	21h 21m 57.5s	+01° 47' 27"	15.1	Galaxy	0.002x0.001	Aquarius	
NGC 6927A	20h 33m 28.7s	+09° 56' 43"	15.5	Galaxy	0.002x8.333	Delphinus	6927A

7.113 Main objects visible on chart 112

Table 119: Main objects visible on chart 112

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7078	21h 30m 50.5s	+12° 14' 50"	6.3	Globular cluster	0.15x0.15	Pegasus	M15
NGC 7089	21h 34m 22.8s	-00° 44' 32"	6.6	Globular cluster	0.133x0.133	Aquarius	M2
NGC 7156	21h 55m 28.2s	+03° 01' 40"	12.5	Galaxy	0.014x0.011	Pegasus	
NGC 7081	21h 32m 19.0s	+02° 34' 16"	12.7	Galaxy	0.010x0.010	Aquarius	
NGC 7046	21h 15m 50.6s	+02° 54' 36"	13.1	Galaxy	0.015x0.011	Equuleus	
NGC 7077	21h 30m 54.2s	+02° 29' 40"	13.1	Galaxy	0.006x0.005	Aquarius	
NGC 7194	22h 04m 23.6s	+12° 43' 29"	13.1	Galaxy	0.009x0.006	Pegasus	
NGC 7149	21h 53m 06.2s	+03° 23' 12"	13.2	Galaxy	0.010x0.007	Pegasus	
NGC 7198	22h 06m 09.6s	-00° 33' 35"	13.3	Galaxy	0.012x0.008	Aquarius	
NGC 7047	21h 17m 23.0s	-00° 45' 02"	13.4	Galaxy	0.01x0.005	Aquarius	
IC 1368	21h 15m 07.3s	+02° 15' 13"	13.4	Galaxy	0.01x0.003	Aquarius	
NGC 7101	21h 40m 27.7s	+08° 57' 34"	13.5	Galaxy	0.004x0.004	Pegasus	
NGC 7102	21h 40m 38.3s	+06° 22' 05"	13.5	Galaxy	0.013x0.007	Pegasus	
NGC 7147	21h 52m 53.0s	+03° 09' 26"	13.5	Galaxy	0.008x0.007	Pegasus	
NGC 7189	22h 04m 11.1s	+00° 39' 32"	13.5	Galaxy	0.008x0.005	Aquarius	
IC 1437	22h 16m 39.9s	+02° 09' 21"	13.5	Galaxy	0.009x0.008	Aquarius	
IC 1365	21h 14m 50.6s	+02° 38' 26"	13.7	Galaxy	0.009x0.005	Equuleus	

Table 119: Main objects visible on chart 112 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7190	22h 03m 59.6s	+11° 17' 14"	13.8	Galaxy	0.007x0.004	Pegasus	
NGC 7222	22h 11m 46.6s	+02° 11' 44"	13.8	Galaxy	0.01x0.01	Aquarius	
IC 1364	21h 14m 19.2s	+02° 50' 43"	13.8	Galaxy	0.008x0.005	Equuleus	
IC 1401	21h 47m 54.4s	+01° 47' 43"	13.8	Galaxy	0.015x0.005	Aquarius	
IC 1405	21h 51m 44.7s	+02° 06' 22"	13.8	Galaxy	0.007x0.005	Aquarius	
NGC 7212	22h 07m 55.5s	+10° 19' 23"	13.9	Galaxy	0.01x0.005	Pegasus	
NGC 7215	22h 09m 29.7s	+00° 36' 03"	13.9	Galaxy	0.009x0.003	Aquarius	
IC 1423	22h 04m 07.3s	+04° 23' 08"	13.9	Galaxy	0.008x0.004	Pegasus	
IC 5177	22h 12m 27.4s	+11° 53' 04"	13.9	Galaxy	0.013x0.006	Pegasus	
NGC 7040	21h 14m 09.4s	+08° 56' 24"	14.0	Galaxy	0.007x0.006	Equuleus	
NGC 7068	21h 27m 24.4s	+12° 15' 47"	14.0	Galaxy	0.005x0.002	Pegasus	
NGC 7074	21h 30m 32.4s	+06° 45' 42"	14.0	Galaxy	0.005x0.002	Pegasus	
IC 1414	21h 59m 11.5s	+08° 30' 37"	14.0	Galaxy	0.004x0.004	Pegasus	
IC 1418	22h 02m 54.3s	+04° 28' 19"	14.0	Galaxy	0.007x0.005	Pegasus	
IC 1367	21h 15m 04.1s	+03° 04' 11"	14.1	Galaxy	0.002x0.001	Equuleus	
NGC 7113	21h 43m 18.8s	+12° 39' 07"	14.2	Galaxy	0.011x0.011	Pegasus	
NGC 7132	21h 48m 09.4s	+10° 19' 31"	14.2	Galaxy	0.009x0.005	Pegasus	
NGC 7138	21h 49m 53.5s	+12° 35' 54"	14.2	Galaxy	0.01x0.004	Pegasus	
NGC 7164-1	21h 57m 18.6s	+01° 27' 02"	14.2	Galaxy	0.005x0.004	Aquarius	7164-1
IC 1361	21h 12m 23.0s	+05° 07' 45"	14.2	Galaxy	0.007x0.005	Equuleus	
IC 1375	21h 21m 54.0s	+04° 03' 47"	14.2	Galaxy	0.008x0.005	Equuleus	
IC 1388	21h 30m 47.6s	-00° 33' 04"	14.2	Galaxy	0.003x0.001	Aquarius	
NGC 7146	21h 52m 42.1s	+03° 06' 08"	14.3	Galaxy	0.008x0.005	Pegasus	
IC 1377	21h 26m 21.0s	+04° 23' 33"	14.3	Galaxy	0.006x0.005	Equuleus	
IC 1380	21h 28m 05.5s	+02° 47' 49"	14.3	Galaxy	0.002x0.002	Pegasus	
IC 1407-1	21h 53m 18.0s	+03° 30' 43"	14.3	Galaxy	0.003x0.002	Pegasus	IC 1407-1
IC 1425	22h 04m 19.2s	+02° 40' 58"	14.3	Galaxy	0.004x0.003	Pegasus	
IC 1444	22h 23m 18.3s	+05° 13' 52"	14.3	Galaxy	0.004x0.003	Pegasus	
IC 1395	21h 42m 35.7s	+04° 11' 15"	14.4	Galaxy	0.002x0.002	Pegasus	
IC 1428	22h 05m 22.5s	+02° 43' 08"	14.4	Galaxy	0.003x0.001	Pegasus	
IC 5111	21h 29m 05.6s	+02° 33' 13"	14.4	Galaxy	0.005x0.005	Aquarius	
IC 5151	21h 59m 47.3s	+03° 50' 58"	14.4	Galaxy	0.003x0.002	Pegasus	
IC 5160	22h 03m 57.9s	+11° 00' 46"	14.4	Galaxy	0.009x0.006	Pegasus	
IC 5161	22h 06m 32.3s	+09° 43' 43"	14.4	Galaxy	0.003x0.001	Pegasus	
NGC 7085	21h 33m 18.8s	+06° 39' 43"	14.5	Galaxy	0.01x0.005	Pegasus	
IC 1360	21h 11m 44.2s	+05° 08' 45"	14.5	Galaxy	0.005x0.002	Equuleus	
IC 1366	21h 15m 02.8s	+01° 51' 07"	14.5	Galaxy	0.003x0.001	Aquarius	
IC 1373	21h 21m 32.1s	+01° 10' 12"	14.5	Galaxy	0.002x0.002	Aquarius	
IC 1379	21h 26m 55.6s	+03° 10' 33"	14.5	Galaxy	0.002x0.002	Equuleus	
IC 1422	22h 03m 54.8s	+02° 41' 13"	14.5	Galaxy	0.003x0.001	Pegasus	
IC 1362	21h 12m 47.3s	+02° 24' 14"	14.6	Galaxy	0.002x0.001	Aquarius	
IC 1370	21h 16m 09.0s	+02° 16' 04"	14.6	Galaxy	0.013x0.004	Aquarius	
IC 1398	21h 46m 44.5s	+09° 33' 33"	14.6	Galaxy	0.007x0.003	Pegasus	
NGC 7195	22h 04m 22.9s	+12° 44' 56"	14.7	Galaxy	0.003x0.002	Pegasus	
IC 1391	21h 35m 55.9s	-00° 25' 50"	14.7	Galaxy	0.001x0.001	Aquarius	
IC 1399	21h 47m 03.1s	+04° 29' 11"	14.7	Galaxy	0.002x0.002	Pegasus	

Table 119: Main objects visible on chart 112 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1406	21h 51m 59.7s	+02° 04' 21"	14.7	Galaxy	0.002x0.002	Aquarius	
IC 5115	21h 31m 49.4s	+11° 50' 37"	14.9	Galaxy	0.003x0.002	Pegasus	
IC 1374	21h 21m 57.5s	+01° 47' 27"	15.1	Galaxy	0.002x0.001	Aquarius	
NGC 7164-2	21h 57m 19.6s	+01° 26' 56"	15.2	Galaxy	0.002x0.001	Aquarius	7164-2
IC 1432	22h 10m 58.5s	+03° 46' 44"	16.0	Galaxy	0.002x0.001	Pegasus	

7.114 Main objects visible on chart 113

Table 120: Main objects visible on chart 113

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7479	23h 05m 50.8s	+12° 25' 11"	10.9	Galaxy	0.033x0.025	Pegasus	CALDWELL 44
NGC 7619	23h 21m 09.4s	+08° 18' 20"	11.1	Galaxy	0.020x0.019	Pegasus	
NGC 7626	23h 21m 37.4s	+08° 18' 57"	11.1	Galaxy	0.021x0.019	Pegasus	
NGC 7562	23h 16m 52.4s	+06° 47' 08"	11.5	Galaxy	0.018x0.014	Pisces	
NGC 7541	23h 15m 38.2s	+04° 37' 58"	11.7	Galaxy	0.029x0.01	Pisces	
NGC 7385	22h 50m 48.5s	+11° 42' 13"	12.0	Galaxy	0.010x0.009	Pegasus	
NGC 7386	22h 50m 55.9s	+11° 47' 37"	12.3	Galaxy	0.015x0.009	Pegasus	
NGC 7469	23h 04m 09.9s	+08° 58' 16"	12.3	Galaxy	0.011x0.008	Pegasus	
NGC 7515	23h 13m 42.9s	+12° 46' 40"	12.4	Galaxy	0.014x0.013	Pegasus	
NGC 7311	22h 35m 01.2s	+05° 39' 48"	12.5	Galaxy	0.013x0.006	Pegasus	
NGC 7458	23h 02m 23.7s	+01° 51' 01"	12.5	Galaxy	0.011x0.01	Pisces	
NGC 7611	23h 20m 31.3s	+08° 09' 44"	12.5	Galaxy	0.012x0.005	Pisces	
NGC 7683	23h 29m 58.5s	+11° 32' 41"	12.5	Galaxy	0.015x0.007	Pegasus	
NGC 7362	22h 44m 43.4s	+08° 48' 02"	12.6	Galaxy	0.009x0.006	Pegasus	
NGC 7364	22h 45m 19.6s	-00° 04' 03"	12.6	Galaxy	0.015x0.009	Aquarius	
NGC 7634	23h 22m 36.4s	+08° 59' 11"	12.6	Galaxy	0.01x0.0075	Pegasus	
NGC 7499	23h 11m 17.0s	+07° 40' 44"	12.8	Galaxy	0.01x0.005	Pisces	
NGC 7612	23h 20m 38.8s	+08° 40' 32"	12.8	Galaxy	0.013x0.006	Pegasus	
NGC 7671	23h 28m 13.9s	+12° 34' 01"	12.8	Galaxy	0.011x0.006	Pegasus	
NGC 7396	22h 53m 17.8s	+01° 11' 17"	12.9	Galaxy	0.02x0.013	Pisces	
NGC 7623	23h 21m 24.7s	+08° 29' 43"	12.9	Galaxy	0.010x0.007	Pegasus	
NGC 7679	23h 29m 41.7s	+03° 36' 37"	12.9	Galaxy	0.014x0.007	Pisces	
NGC 7460	23h 02m 37.8s	+02° 21' 38"	13.0	Galaxy	0.012x0.009	Pisces	
NGC 7483	23h 06m 43.2s	+03° 38' 34"	13.0	Galaxy	0.013x0.009	Pisces	
NGC 7591	23h 19m 11.0s	+06° 41' 05"	13.0	Galaxy	0.015x0.006	Pisces	
NGC 7610	23h 20m 36.2s	+10° 16' 59"	13.0	Galaxy	0.020x0.015	Pegasus	
NGC 7648	23h 24m 48.9s	+09° 46' 02"	13.0	Galaxy	0.013x0.008	Pegasus	
NGC 7328	22h 38m 23.0s	+10° 37' 32"	13.1	Galaxy	0.016x0.005	Pegasus	
NGC 7495	23h 09m 51.6s	+12° 08' 45"	13.1	Galaxy	0.015x0.013	Pegasus	
NGC 7631	23h 22m 21.5s	+08° 18' 59"	13.1	Galaxy	0.014x0.005	Pegasus	
NGC 7503	23h 11m 36.9s	+07° 39' 58"	13.2	Galaxy	0.006x0.006	Pisces	
NGC 7537	23h 15m 29.6s	+04° 35' 50"	13.2	Galaxy	0.017x0.004	Pisces	
NGC 7603	23h 19m 51.7s	+00° 20' 34"	13.2	Galaxy	0.013x0.008	Pisces	
NGC 7643	23h 23m 44.9s	+12° 05' 15"	13.2	Galaxy	0.011x0.005	Pegasus	

Table 120: Main objects visible on chart 113 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7674	23h 28m 51.5s	+08° 52' 40"	13.2	Galaxy	0.009x0.008	Pegasus	
NGC 7682	23h 29m 59.0s	+03° 37' 60"	13.2	Galaxy	0.01x0.009	Pisces	
NGC 7685	23h 31m 28.4s	+04° 00' 04"	13.2	Galaxy	0.015x0.012	Pisces	
NGC 7500	23h 11m 24.1s	+11° 06' 39"	13.3	Galaxy	0.017x0.009	Pegasus	
NGC 7569	23h 17m 39.2s	+09° 00' 18"	13.3	Galaxy	0.008x0.005	Pegasus	
NGC 7312	22h 35m 29.4s	+05° 54' 39"	13.4	Galaxy	0.012x0.006	Pegasus	
NGC 7422	22h 57m 07.2s	+04° 01' 24"	13.4	Galaxy	0.008x0.006	Pisces	
NGC 7501	23h 11m 25.0s	+07° 41' 15"	13.4	Galaxy	0.004x0.004	Pisces	
NGC 7518	23h 14m 07.6s	+06° 25' 11"	13.4	Galaxy	0.011x0.008	Pisces	
NGC 7687	23h 31m 49.6s	+03° 38' 48"	13.4	Galaxy	0.010x0.008	Pisces	
NGC 7372	22h 46m 39.9s	+11° 13' 35"	13.5	Galaxy	0.008x0.007	Pegasus	
IC 1437	22h 16m 39.9s	+02° 09' 21"	13.5	Galaxy	0.009x0.008	Aquarius	
IC 1481	23h 20m 19.9s	+06° 00' 16"	13.5	Galaxy	0.006x0.005	Pisces	
NGC 7373	22h 47m 14.3s	+03° 18' 19"	13.6	Galaxy	0.010x0.004	Pegasus	
NGC 7398	22h 53m 44.4s	+01° 17' 52"	13.6	Galaxy	0.01x0.006	Pisces	
NGC 7482	23h 06m 33.6s	+03° 09' 23"	13.6	Galaxy	0.005x0.003	Pisces	
NGC 7593	23h 18m 51.4s	+11° 26' 51"	13.6	Galaxy	0.008x0.005	Pegasus	
NGC 7684	23h 31m 27.3s	+00° 10' 51"	13.6	Galaxy	0.012x0.003	Pisces	
NGC 7347	22h 40m 49.7s	+11° 07' 19"	13.7	Galaxy	0.012x0.002	Pegasus	
NGC 7360	22h 44m 28.9s	+04° 14' 48"	13.7	Galaxy	0.005x0.003	Pegasus	
NGC 7383	22h 50m 29.4s	+11° 39' 09"	13.7	Galaxy	0.006x0.005	Pegasus	
NGC 7594	23h 19m 08.5s	+10° 23' 47"	13.7	Galaxy	0.011x0.007	Pegasus	
NGC 7642	23h 23m 48.7s	+01° 32' 30"	13.7	Galaxy	0.005x0.004	Pisces	
IC 5309	23h 20m 06.4s	+08° 12' 31"	13.7	Galaxy	0.011x0.005	Pisces	
NGC 7348	22h 41m 29.8s	+12° 00' 02"	13.8	Galaxy	0.009x0.005	Pegasus	
NGC 7367	22h 45m 29.1s	+03° 44' 29"	13.8	Galaxy	0.013x0.003	Pegasus	
NGC 7374	22h 46m 55.0s	+10° 56' 55"	13.8	Galaxy	0.007x0.005	Pegasus	
NGC 7488	23h 08m 44.2s	+01° 02' 20"	13.8	Galaxy	0.005x0.004	Pisces	
NGC 7583	23h 18m 47.6s	+07° 28' 41"	13.8	Galaxy	0.005x0.005	Pisces	
NGC 7617	23h 21m 03.7s	+08° 15' 53"	13.8	Galaxy	0.007x0.005	Pisces	
NGC 7629	23h 22m 14.6s	+01° 30' 09"	13.8	Galaxy	0.008x0.006	Pisces	
IC 1455	22h 54m 41.2s	+01° 28' 07"	13.8	Galaxy	0.007x0.005	Pisces	
IC 5283	23h 04m 12.1s	+08° 59' 28"	13.8	Galaxy	0.005x0.003	Pegasus	
NGC 7389	22h 51m 09.9s	+11° 39' 44"	13.9	Galaxy	0.011x0.007	Pegasus	
NGC 7587	23h 18m 53.7s	+09° 46' 44"	13.9	Galaxy	0.01x0.0025	Pegasus	
NGC 7641	23h 23m 25.3s	+11° 59' 33"	13.9	Galaxy	0.014x0.004	Pegasus	
NGC 7667	23h 25m 18.5s	-00° 00' 34"	13.9	Galaxy	0.013x0.009	Pisces	
NGC 7672	23h 28m 26.0s	+12° 29' 03"	13.9	Galaxy	0.006x0.005	Pegasus	
IC 1474	23h 13m 46.2s	+05° 54' 14"	13.9	Galaxy	0.009x0.004	Pisces	
IC 5241	22h 42m 33.5s	+02° 44' 03"	13.9	Galaxy	0.008x0.006	Aquarius	
IC 5287	23h 10m 15.6s	+00° 51' 17"	13.9	Galaxy	0.009x0.008	Pisces	
NGC 7387	22h 51m 11.5s	+11° 43' 58"	14.0	Galaxy	0.005x0.003	Pegasus	
NGC 7480	23h 06m 08.6s	+02° 38' 49"	14.0	Galaxy	0.010x0.002	Pisces	
NGC 7519	23h 14m 05.6s	+10° 52' 11"	14.0	Galaxy	0.010x0.009	Pegasus	
NGC 7601	23h 19m 41.8s	+09° 19' 56"	14.0	Galaxy	0.009x0.007	Pegasus	
NGC 7305	22h 33m 07.4s	+11° 48' 21"	14.1	Galaxy	0.005x0.005	Pegasus	

Table 120: Main objects visible on chart 113 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7451	23h 01m 35.0s	+08° 33' 52"	14.1	Galaxy	0.008x0.004	Pegasus	
NGC 7529	23h 14m 57.7s	+09° 05' 26"	14.1	Galaxy	0.007x0.006	Pegasus	
NGC 7579	23h 18m 33.4s	+09° 31' 57"	14.1	Galaxy	0.004x0.003	Pegasus	
NGC 7589	23h 19m 10.9s	+00° 21' 37"	14.1	Galaxy	0.009x0.005	Pisces	
NGC 7390	22h 51m 13.4s	+11° 37' 36"	14.2	Galaxy	0.008x0.005	Pegasus	
NGC 7397	22h 53m 41.8s	+01° 13' 43"	14.2	Galaxy	0.005x0.004	Pisces	
NGC 7557	23h 16m 34.5s	+06° 48' 26"	14.2	Galaxy	0.005x0.005	Pisces	
NGC 7575	23h 18m 15.8s	+05° 45' 36"	14.2	Galaxy	0.004x0.002	Pisces	
NGC 7608	23h 20m 10.0s	+08° 26' 56"	14.2	Galaxy	0.012x0.003	Pegasus	
NGC 7609	23h 20m 24.7s	+09° 36' 26"	14.2	Galaxy	0.010x0.009	Pegasus	
NGC 7366	22h 45m 20.5s	+10° 52' 37"	14.3	Galaxy	0.003x0.003	Pegasus	
NGC 7430	22h 58m 24.0s	+08° 53' 28"	14.3	Galaxy	0.003x0.001	Pegasus	
NGC 7615	23h 20m 49.1s	+08° 29' 53"	14.3	Galaxy	0.007x0.003	Pegasus	
NGC 7630	23h 22m 10.8s	+11° 29' 47"	14.3	Galaxy	0.009x0.003	Pegasus	
IC 1444	22h 23m 18.3s	+05° 13' 52"	14.3	Galaxy	0.004x0.003	Pegasus	
NGC 7376	22h 48m 12.4s	+03° 44' 26"	14.4	Galaxy	0.005x0.004	Pegasus	
NGC 7455	23h 01m 35.5s	+07° 24' 01"	14.4	Galaxy	0.005x0.003	Pisces	
NGC 7584	23h 18m 47.7s	+09° 31' 56"	14.4	Galaxy	0.003x0.003	Pegasus	
NGC 7674A	23h 28m 53.5s	+08° 52' 55"	14.4	Galaxy	0.002x0.001	Pegasus	7674A
IC 1460	22h 57m 58.8s	+04° 46' 26"	14.4	Galaxy	0.004x0.004	Pisces	
IC 1482	23h 21m 44.6s	+01° 50' 18"	14.4	Galaxy	0.005x0.003	Pisces	
NGC 7402	22h 53m 59.6s	+01° 14' 28"	14.5	Galaxy	0.005x0.004	Pisces	
NGC 7542	23h 15m 36.2s	+10° 44' 30"	14.5	Galaxy	0.006x0.004	Pegasus	
NGC 7604	23h 18m 46.7s	+07° 31' 43"	14.5	Galaxy	0.002x0.001	Pisces	
IC 1452	22h 46m 53.1s	+10° 57' 47"	14.5	Galaxy	0.003x0.001	Pegasus	
IC 5305	23h 19m 00.7s	+10° 23' 56"	14.5	Galaxy	0.003x0.002	Pegasus	
NGC 7346	22h 40m 29.1s	+11° 10' 41"	14.6	Galaxy	0.003x0.002	Pegasus	
NGC 7639	23h 23m 42.8s	+11° 28' 20"	14.6	Galaxy	0.004x0.003	Pegasus	
IC 5223	22h 30m 38.8s	+08° 04' 54"	14.6	Galaxy	0.008x0.002	Pegasus	
IC 5291	23h 14m 34.2s	+09° 20' 24"	14.7	Galaxy	0.002x0.002	Pegasus	
NGC 7480B	23h 05m 56.8s	+02° 38' 17"	14.8	Galaxy	0.005x0.002	Pisces	7480B
IC 5306	23h 19m 05.9s	+10° 20' 40"	14.8	Galaxy	0.005x0.002	Pegasus	
NGC 7401	22h 53m 53.7s	+01° 14' 19"	14.9	Galaxy	0.008x0.005	Pisces	
NGC 7562A	23h 16m 56.1s	+06° 45' 05"	14.9	Galaxy	0.012x0.003	Pisces	7562A
NGC 7595	23h 19m 24.8s	+10° 01' 51"	14.9	Galaxy	0.004x0.004	Pegasus	
NGC 7621	23h 21m 19.5s	+08° 27' 56"	14.9	Galaxy	0.005x0.001	Pegasus	
NGC 7638	23h 23m 27.6s	+11° 25' 42"	14.9	Galaxy	0.005x0.005	Pegasus	
NGC 7675	23h 29m 00.6s	+08° 52' 06"	14.9	Galaxy	0.005x0.003	Pegasus	
NGC 7353	22h 43m 06.2s	+11° 58' 18"	15.1	Galaxy	0.005x0.004	Pegasus	
NGC 7427	22h 58m 04.2s	+08° 36' 09"	15.1	Galaxy	0.005x0.005	Pegasus	
NGC 7528	23h 15m 14.5s	+10° 19' 46"	15.1	Galaxy	0.003x0.002	Pegasus	
NGC 7459-1	23h 01m 54.2s	+06° 50' 47"	15.2	Galaxy	0.003x0.003	Pisces	7459-1
NGC 7370	22h 46m 31.0s	+11° 09' 12"	15.3	Galaxy	0.004x0.001	Pegasus	
NGC 7459-2	23h 01m 54.9s	+06° 50' 52"	15.4	Galaxy	0.006x0.003	Pisces	7459-2
NGC 7478	23h 05m 51.6s	+02° 40' 30"	15.4	Galaxy	0.003x0.002	Pisces	
NGC 7452	23h 01m 42.1s	+06° 50' 34"	15.5	Galaxy	0.003x0.002	Pisces	

Table 120: Main objects visible on chart 113 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7586	23h 18m 50.2s	+08° 40' 59"	15.5	Galaxy	0.003x0.002	Pegasus	
NGC 7477	23h 05m 35.7s	+03° 12' 56"	15.7	Galaxy	0.002x0.001	Pisces	
NGC 7577	23h 18m 11.9s	+07° 27' 52"	15.7	Galaxy	0.002x0.001	Pisces	

7.115 Main objects visible on chart 114

Table 121: Main objects visible on chart 114

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 157	00h 35m 41.2s	-08° 17' 49"	10.4	Galaxy	0.029x0.02	Cetus	
NGC 7727	23h 40m 49.5s	-12° 11' 35"	10.6	Galaxy	0.039x0.029	Aquarius	
NGC 1513	00h 34m 57.5s	-09° 36' 21"	11.6	Galaxy	0.031x0.013	Cetus	
NGC 7721	23h 39m 44.2s	-06° 25' 05"	11.6	Galaxy	0.023x0.009	Aquarius	
NGC 7716	23h 37m 26.6s	+00° 23' 50"	12.1	Galaxy	0.018x0.015	Pisces	
NGC 5024	00h 15m 39.7s	-07° 14' 42"	12.3	Galaxy	0.02x0.015	Cetus	M53
IC 1459	00h 32m 40.7s	-05° 03' 17"	12.7	Galaxy	0.015x0.012	Cetus	
NGC 1637	00h 36m 54.4s	-10° 01' 21"	12.7	Galaxy	0.013x0.01	Cetus	
IC 1528	00h 06m 00.6s	-07° 01' 04"	12.7	Galaxy	0.02x0.009	Cetus	
NGC 7724	23h 40m 02.8s	-12° 07' 28"	12.9	Galaxy	0.012x0.008	Aquarius	
IC 5357	23h 48m 18.4s	-02° 12' 02"	12.9	Galaxy	0.007x0.004	Pisces	
NGC 1245	00h 28m 47.6s	-01° 42' 39"	13.0	Galaxy	0.011x0.006	Cetus	
61A	00h 17m 19.2s	-06° 13' 02"	13.0	Galaxy	0.009x0.005	Cetus	61A
NGC 7783A	23h 55m 05.4s	+00° 29' 01"	13.0	Galaxy	0.010x0.005	Pisces	7783A
NGC 1134	00h 27m 49.9s	-02° 24' 04"	13.1	Galaxy	0.011x0.008	Cetus	
NGC 1653	00h 37m 23.6s	-10° 00' 27"	13.1	Galaxy	0.013x0.010	Cetus	
NGC 4755	00h 15m 25.7s	-07° 04' 04"	13.1	Galaxy	0.019x0.017	Cetus	CALDWELL 94, Jewel Box
NGC 7738	23h 44m 57.3s	+00° 37' 03"	13.1	Galaxy	0.016x0.012	Pisces	
NGC 7746	23h 46m 15.3s	-01° 35' 04"	13.1	Galaxy	0.011x0.009	Pisces	
IC 1516	23h 57m 02.5s	-00° 49' 00"	13.1	Galaxy	0.015x0.013	Pisces	
NGC 6475	00h 18m 25.4s	-06° 43' 30"	13.2	Galaxy	0.013x0.009	Cetus	M7, Ptolemy's cluster
NGC 7808	00h 04m 27.4s	-10° 38' 38"	13.2	Galaxy	0.010x0.010	Cetus	
NGC 7832	00h 07m 23.7s	-03° 36' 59"	13.2	Galaxy	0.015x0.008	Pisces	
NGC 1553	00h 35m 34.7s	-10° 40' 01"	13.3	Galaxy	0.014x0.010	Cetus	
NGC 381	00h 12m 42.2s	-05° 29' 11"	13.3	Galaxy	0.011x0.010	Pisces	
NGC 7646	23h 25m 03.0s	-11° 45' 41"	13.3	Galaxy	0.007x0.005	Aquarius	
NGC 7665	23h 28m 10.7s	-09° 17' 14"	13.3	Galaxy	0.005x0.005	Aquarius	
NGC 7700	23h 35m 25.7s	-02° 51' 13"	13.3	Galaxy	0.010x0.008	Pisces	
IC 1492	23h 31m 31.5s	-02° 56' 24"	13.3	Galaxy	0.008x0.006	Pisces	
IC 5334	23h 35m 32.0s	-04° 26' 03"	13.3	Galaxy	0.015x0.005	Aquarius	
NGC 1201	00h 28m 25.4s	-01° 24' 51"	13.4	Galaxy	0.012x0.005	Cetus	
IC 1613	00h 36m 29.1s	-02° 44' 58"	13.4	Galaxy	0.010x0.006	Cetus	CALDWELL 51
NGC 5460	00h 16m 02.8s	-07° 00' 24"	13.4	Galaxy	0.010x0.004	Cetus	
NGC 7693	23h 34m 05.8s	-01° 11' 31"	13.4	Galaxy	0.01x0.006	Pisces	
NGC 7694	23h 34m 11.6s	-02° 36' 15"	13.4	Galaxy	0.013x0.007	Pisces	
IC 1496	23h 31m 48.9s	-02° 50' 04"	13.4	Galaxy	0.014x0.011	Pisces	

Table 121: Main objects visible on chart 114 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1515	23h 56m 59.5s	-00° 53' 18"	13.5	Galaxy	0.01x0.008	Pisces	
IC 6	00h 19m 50.1s	-03° 10' 35"	13.5	Galaxy	0.006x0.006	Pisces	
NGC 1187	00h 28m 11.4s	-01° 40' 49"	13.6	Galaxy	0.005x0.004	Cetus	
NGC 7684	23h 31m 27.3s	+00° 10' 51"	13.6	Galaxy	0.012x0.003	Pisces	
NGC 7739	23h 45m 25.3s	+00° 25' 16"	13.6	Galaxy	0.009x0.007	Pisces	
IC 1529	00h 06m 08.3s	-11° 24' 07"	13.6	Galaxy	0.01x0.009	Cetus	
IC 5351	23h 48m 14.3s	-02° 12' 50"	13.6	Galaxy	0.004x0.003	Pisces	
NGC 1068	00h 25m 38.8s	-05° 02' 57"	13.7	Galaxy	0.007x0.005	Pisces	M77, Cetus A
IC 1498	23h 32m 49.1s	-04° 54' 25"	13.7	Galaxy	0.015x0.005	Aquarius	
IC 1505	23h 42m 32.5s	-03° 27' 53"	13.7	Galaxy	0.007x0.005	Aquarius	
NGC 1145	00h 27m 53.5s	-01° 41' 11"	13.8	Galaxy	0.006x0.005	Cetus	
NGC 7701	23h 35m 27.0s	-02° 45' 19"	13.8	Galaxy	0.013x0.003	Pisces	
NGC 7725	23h 40m 10.2s	-04° 26' 21"	13.8	Galaxy	0.006x0.005	Aquarius	
IC 1501	23h 35m 35.6s	-03° 03' 14"	13.8	Galaxy	0.013x0.005	Pisces	
IC 1517	23h 57m 14.3s	-00° 12' 19"	13.8	Galaxy	0.006x0.006	Pisces	
IC 3	00h 13m 01.3s	-00° 18' 53"	13.8	Galaxy	0.005x0.002	Pisces	
IC 5	00h 18m 29.9s	-09° 26' 34"	13.8	Galaxy	0.007x0.005	Cetus	
NGC 7667	23h 25m 18.5s	-00° 00' 34"	13.9	Galaxy	0.013x0.009	Pisces	
NGC 7710	23h 36m 41.6s	-02° 46' 52"	13.9	Galaxy	0.01x0.004	Pisces	
IC 22	00h 30m 28.0s	-08° 58' 51"	13.9	Galaxy	0.005x0.002	Cetus	
NGC 1545	00h 35m 13.9s	-12° 33' 24"	14.0	Galaxy	0.009x0.007	Cetus	
IC 23	00h 31m 45.3s	-12° 37' 14"	14.0	Galaxy	0.005x0.005	Cetus	
NGC 3532	00h 12m 05.5s	-11° 55' 14"	14.1	Galaxy	0.005x0.004	Cetus	CALDWELL 91
NGC 6025	00h 16m 53.5s	-00° 12' 13"	14.1	Galaxy	0.010x0.01	Pisces	CALDWELL 95
IC 1524	00h 00m 06.1s	-04° 01' 36"	14.1	Galaxy	0.014x0.005	Pisces	
IC 19	00h 29m 34.1s	-11° 32' 27"	14.1	Galaxy	0.006x0.004	Cetus	
IC 5356	23h 48m 19.3s	-02° 15' 04"	14.1	Galaxy	0.005x0.003	Pisces	
NGC 1073	00h 26m 37.1s	-08° 11' 02"	14.2	Galaxy	0.007x0.005	Cetus	
NGC 7787	23h 57m 03.1s	+00° 38' 60"	14.2	Galaxy	0.015x0.004	Pisces	
NGC 7813	00h 05m 04.5s	-11° 53' 01"	14.2	Galaxy	0.006x0.002	Cetus	
IC 1489	23h 27m 28.2s	-12° 25' 02"	14.2	Galaxy	0.003x0.001	Aquarius	
IC 25	00h 32m 07.5s	-00° 18' 30"	14.3	Galaxy	0.008x0.007	Cetus	
NGC 1778	00h 12m 01.7s	-12° 00' 28"	14.4	Galaxy	0.017x0.006	Cetus	
NGC 7783B	23h 55m 07.3s	+00° 28' 40"	14.4	Galaxy	0.005x0.004	Pisces	7783B
IC 8	00h 19m 57.8s	-03° 07' 20"	14.4	Galaxy	0.006x0.003	Pisces	
61B	00h 17m 19.6s	-06° 13' 20"	14.5	Galaxy	0.007x0.003	Cetus	61B
IC 33	00h 36m 00.2s	-02° 02' 20"	14.5	Galaxy	0.005x0.004	Cetus	
IC 18	00h 29m 29.7s	-11° 29' 13"	14.6	Galaxy	0.009x0.005	Cetus	
IC 2	00h 11m 55.9s	-12° 43' 20"	14.7	Galaxy	0.006x0.001	Cetus	
NGC 7692	23h 33m 42.3s	-05° 29' 48"	14.8	Galaxy	0.004x0.003	Aquarius	
IC 12	00h 21m 10.5s	-02° 33' 13"	14.9	Galaxy	0.006x0.002	Pisces	
IC 32	00h 35m 56.8s	-02° 02' 32"	14.9	Galaxy	0.003x0.003	Cetus	
NGC 7699	23h 35m 22.5s	-02° 48' 01"	15.0	Galaxy	0.005x0.002	Pisces	
IC 15	00h 28m 52.9s	+00° 02' 17"	15.0	Galaxy	0.003x0.003	Cetus	
IC 1521	23h 59m 55.1s	-07° 02' 45"	15.0	Galaxy	0.004x0.002	Cetus	
IC 1557	00h 36m 29.6s	-02° 46' 37"	15.0	Galaxy	0.004x0.001	Cetus	

Table 121: Main objects visible on chart 114 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7695	23h 34m 10.4s	-02° 37' 13"	15.1	Galaxy	0.005x0.002	Pisces	
IC 1494	23h 31m 42.1s	-12° 37' 29"	15.1	Galaxy	0.004x0.001	Aquarius	
IC 29	00h 35m 05.9s	-02° 04' 40"	15.1	Galaxy	0.005x0.005	Cetus	
IC 5359	23h 48m 33.2s	-02° 13' 02"	15.1	Galaxy	0.009x0.001	Pisces	
IC 21	00h 30m 05.7s	-00° 03' 51"	15.2	Galaxy	0.004x0.003	Cetus	
NGC 7783C	23h 55m 09.1s	+00° 27' 26"	15.4	Galaxy	0.001x0.001	Pisces	
IC 5352	23h 48m 15.2s	-02° 10' 52"	15.6	Galaxy	0.002x0.002	Pisces	
IC 30	00h 35m 09.9s	-01° 59' 08"	15.9	Galaxy	0.005x0.003	Cetus	

7.116 Main objects visible on chart 115

Table 122: Main objects visible on chart 115

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 157	00h 35m 41.2s	-08° 17' 49"	10.4	Galaxy	0.029x0.02	Cetus	
NGC 5846	01h 32m 14.7s	-06° 46' 30"	10.5	Galaxy	0.034x0.016	Cetus	
NGC 246	00h 47m 57.6s	-11° 46' 24"	10.9	Planetary Nebula	0.034x0.034	Cetus	CALDWELL 56, Skull nebula
NGC 596	01h 33m 46.2s	-06° 56' 24"	10.9	Galaxy	0.026x0.016	Cetus	
NGC 6362	01h 40m 00.5s	-07° 25' 17"	11.5	Galaxy	0.023x0.016	Cetus	
NGC 1513	00h 34m 57.5s	-09° 36' 21"	11.6	Galaxy	0.031x0.013	Cetus	
NGC 3379	01h 00m 44.4s	-07° 28' 53"	11.6	Galaxy	0.025x0.015	Cetus	M105
NGC 6152	01h 35m 59.8s	-07° 14' 55"	11.6	Galaxy	0.022x0.007	Cetus	
NGC 2742	00h 51m 56.5s	-06° 57' 32"	11.8	Galaxy	0.011x0.01	Cetus	
NGC 4501	01h 16m 25.6s	-00° 45' 60"	11.8	Galaxy	0.025x0.02	Cetus	M88
IC 2553	00h 48m 41.6s	-11° 22' 13"	11.9	Galaxy	0.025x0.022	Cetus	
NGC 3091	00h 57m 36.9s	-09° 49' 01"	11.9	Galaxy	0.025x0.02	Cetus	
IC 2714	00h 51m 37.1s	-01° 48' 46"	12.0	Galaxy	0.018x0.014	Cetus	
NGC 3572	01h 04m 16.4s	-06° 14' 34"	12.0	Galaxy	0.020x0.014	Cetus	
NGC 4486	01h 16m 11.6s	-01° 31' 50"	12.1	Galaxy	0.013x0.006	Cetus	M87, Virgo A
NGC 5419	01h 26m 39.4s	-01° 17' 10"	12.1	Galaxy	0.015x0.014	Cetus	
NGC 2270	00h 43m 31.8s	-01° 25' 47"	12.2	Galaxy	0.0125x0.01	Cetus	
337A	01h 02m 28.2s	-07° 29' 30"	12.2	Galaxy	0.055x0.041	Cetus	337A
NGC 5457	01h 26m 54.2s	-01° 14' 51"	12.2	Galaxy	0.021x0.013	Cetus	M101, Pinwheel galaxy
NGC 5474	01h 26m 55.9s	-01° 15' 07"	12.2	Galaxy	0.015x0.015	Cetus	
NGC 2451	00h 47m 00.7s	-01° 37' 31"	12.3	Galaxy	0.010x0.009	Cetus	
NGC 2175	00h 42m 28.5s	-09° 55' 23"	12.4	Galaxy	0.022x0.005	Cetus	
NGC 6005	01h 33m 59.5s	-07° 13' 13"	12.4	Galaxy	0.023x0.017	Cetus	
NGC 1912	00h 39m 53.9s	-08° 54' 15"	12.5	Galaxy	0.011x0.01	Cetus	M38
NGC 2750	00h 51m 59.2s	-06° 58' 03"	12.5	Galaxy	0.0125x0.01	Cetus	
NGC 4303	01h 13m 55.2s	-00° 09' 27"	12.5	Galaxy	0.010x0.009	Cetus	M61
NGC 5643	01h 28m 43.3s	-01° 47' 09"	12.5	Galaxy	0.010x0.009	Cetus	
NGC 3521	01h 03m 04.0s	-04° 08' 56"	12.6	Galaxy	0.02x0.006	Cetus	
IC 1459	00h 32m 40.7s	-05° 03' 17"	12.7	Galaxy	0.015x0.012	Cetus	
NGC 1637	00h 36m 54.4s	-10° 01' 21"	12.7	Galaxy	0.013x0.01	Cetus	
NGC 2792	00h 53m 04.0s	-02° 07' 15"	12.7	Galaxy	0.013x0.01	Cetus	

Table 122: Main objects visible on chart 115 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2597	00h 48m 58.3s	-02° 40' 40"	12.8	Galaxy	0.024x0.005	Cetus	
NGC 3077	00h 57m 27.7s	-01° 40' 30"	12.8	Galaxy	0.013x0.005	Cetus	
NGC 5701	01h 29m 53.7s	-00° 51' 21"	12.8	Galaxy	0.013x0.010	Cetus	
NGC 2708	00h 51m 27.0s	-08° 33' 14"	12.9	Galaxy	0.014x0.01	Cetus	
NGC 2732	00h 51m 43.1s	-06° 47' 16"	12.9	Galaxy	0.017x0.005	Cetus	
NGC 4261	01h 13m 43.8s	-00° 11' 41"	12.9	Galaxy	0.011x0.008	Cetus	
NGC 5775	01h 31m 35.6s	-01° 54' 06"	12.9	Galaxy	0.015x0.012	Cetus	
NGC 6229	01h 36m 55.6s	+00° 45' 18"	12.9	Galaxy	0.013x0.008	Cetus	
NGC 1245	00h 28m 47.6s	-01° 42' 39"	13.0	Galaxy	0.011x0.006	Cetus	
NGC 2374	00h 44m 23.2s	-00° 01' 37"	13.0	Galaxy	0.013x0.007	Cetus	
NGC 3412	01h 01m 40.1s	-09° 05' 22"	13.0	Galaxy	0.01x0.009	Cetus	
NGC 4976	01h 23m 19.1s	-00° 46' 52"	13.0	Galaxy	0.017x0.007	Cetus	
NGC 5307	01h 25m 36.8s	-01° 29' 37"	13.0	Galaxy	0.012x0.003	Cetus	
NGC 5606	01h 28m 20.4s	-01° 49' 10"	13.0	Galaxy	0.015x0.005	Cetus	
NGC 1134	00h 27m 49.9s	-02° 24' 04"	13.1	Galaxy	0.011x0.008	Cetus	
NGC 1653	00h 37m 23.6s	-10° 00' 27"	13.1	Galaxy	0.013x0.010	Cetus	
NGC 2682	00h 51m 04.3s	-05° 05' 46"	13.1	Galaxy	0.013x0.009	Cetus	M67
NGC 3496	01h 02m 45.3s	-06° 42' 11"	13.1	Galaxy	0.010x0.01	Cetus	
IC 356	01h 04m 01.6s	-06° 53' 30"	13.1	Galaxy	0.015x0.01	Cetus	
NGC 3640	01h 05m 36.1s	-00° 42' 24"	13.1	Galaxy	0.011x0.01	Cetus	
NGC 5430	01h 26m 45.2s	-01° 11' 58"	13.1	Galaxy	0.005x0.002	Cetus	
NGC 5850	01h 32m 37.4s	-00° 50' 26"	13.1	Galaxy	0.018x0.004	Cetus	
IC 1639	01h 12m 41.8s	-00° 34' 07"	13.1	Galaxy	0.007x0.006	Cetus	
IC 48	00h 44m 29.1s	-08° 05' 14"	13.1	Galaxy	0.008x0.006	Cetus	
NGC 3519	01h 02m 52.9s	-01° 50' 24"	13.2	Galaxy	0.012x0.006	Cetus	
NGC 5866	01h 32m 31.0s	-06° 48' 03"	13.2	Galaxy	0.014x0.007	Cetus	M102
IC 1575B	00h 44m 28.6s	-04° 01' 16"	13.2	Galaxy	0.012x0.008	Cetus	IC 1575B
NGC 1553	00h 35m 34.7s	-10° 40' 01"	13.3	Galaxy	0.014x0.010	Cetus	
IC 2391	00h 45m 32.5s	-03° 39' 42"	13.3	Galaxy	0.008x0.004	Cetus	CALDWELL 85, Omicron Velorum cluster
NGC 3293	00h 58m 56.2s	-04° 58' 25"	13.3	Galaxy	0.012x0.005	Cetus	Gem cluster
NGC 4815	01h 22m 06.6s	-09° 07' 02"	13.3	Galaxy	0.010x0.007	Cetus	
NGC 6242	01h 36m 44.8s	-09° 54' 42"	13.3	Galaxy	0.012x0.008	Cetus	
NGC 1201	00h 28m 25.4s	-01° 24' 51"	13.4	Galaxy	0.012x0.005	Cetus	
IC 1613	00h 36m 29.1s	-02° 44' 58"	13.4	Galaxy	0.010x0.006	Cetus	CALDWELL 51
NGC 3277	00h 58m 50.0s	-05° 02' 02"	13.4	Galaxy	0.012x0.005	Cetus	
NGC 3590	01h 05m 12.2s	-00° 40' 06"	13.4	Galaxy	0.012x0.009	Cetus	
IC 4291	01h 13m 52.7s	-00° 14' 60"	13.4	Galaxy	0.011x0.002	Cetus	
NGC 4429	01h 15m 33.8s	-00° 55' 32"	13.4	Galaxy	0.008x0.004	Cetus	
NGC 5999	01h 33m 47.0s	-12° 05' 56"	13.4	Galaxy	0.011x0.010	Cetus	
NGC 6475	01h 40m 49.8s	-09° 09' 04"	13.4	Galaxy	0.012x0.009	Cetus	M7, Ptolemy's cluster
IC 1607	00h 59m 44.3s	+00° 41' 03"	13.4	Galaxy	0.007x0.007	Cetus	
IC 1705	01h 27m 39.6s	-03° 24' 31"	13.4	Galaxy	0.007x0.005	Cetus	
NGC 5576	01h 27m 20.2s	-01° 32' 43"	13.5	Galaxy	0.015x0.005	Cetus	
NGC 5656	01h 29m 05.2s	-01° 12' 47"	13.5	Galaxy	0.010x0.003	Cetus	
NGC 1187	00h 28m 11.4s	-01° 40' 49"	13.6	Galaxy	0.005x0.004	Cetus	

Table 122: Main objects visible on chart 115 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1696	01h 25m 47.5s	-01° 31' 26"	13.6	Galaxy	0.007x0.006	Cetus	
IC 90	01h 17m 24.5s	-07° 52' 55"	13.6	Galaxy	0.007x0.005	Cetus	
NGC 1952	00h 40m 30.4s	-09° 05' 44"	13.7	Galaxy	0.01x0.0075	Cetus	M1, Crab nebula
NGC 2775	00h 52m 11.7s	-08° 29' 55"	13.7	Galaxy	0.011x0.01	Cetus	CALDWELL 48
NGC 3403	01h 01m 29.4s	-06° 46' 10"	13.7	Galaxy	0.007x0.003	Cetus	
NGC 3532	01h 03m 19.7s	-01° 51' 38"	13.7	Galaxy	0.010x0.003	Cetus	CALDWELL 91
NGC 5383	01h 26m 21.2s	-01° 27' 27"	13.7	Galaxy	0.010x0.005	Cetus	
NGC 5483	01h 26m 57.7s	-01° 07' 56"	13.7	Galaxy	0.006x0.004	Cetus	
IC 100	01h 23m 48.6s	-04° 32' 56"	13.7	Galaxy	0.009x0.006	Cetus	
IC 116	01h 27m 45.1s	-04° 53' 21"	13.7	Galaxy	0.007x0.005	Cetus	
IC 119	01h 28m 49.9s	-01° 56' 50"	13.7	Galaxy	0.010x0.005	Cetus	
IC 127	01h 30m 41.6s	-06° 53' 14"	13.7	Galaxy	0.013x0.003	Cetus	
IC 1571	00h 41m 33.1s	-00° 13' 54"	13.7	Galaxy	0.0125x0.01	Cetus	
IC 1575A	00h 44m 28.1s	-04° 01' 06"	13.7	Galaxy	0.01x0.008	Cetus	IC 1575A
NGC 1145	00h 27m 53.5s	-01° 41' 11"	13.8	Galaxy	0.006x0.005	Cetus	
NGC 2985	00h 55m 56.8s	-07° 14' 11"	13.8	Galaxy	0.014x0.003	Cetus	
NGC 5353	01h 26m 26.1s	-01° 18' 56"	13.8	Galaxy	0.008x0.002	Cetus	
IC 1681	01h 22m 16.6s	+00° 11' 04"	13.8	Galaxy	0.008x0.004	Cetus	
IC 1697	01h 25m 58.3s	+00° 32' 18"	13.8	Galaxy	0.007x0.005	Cetus	
IC 81	01h 10m 17.5s	-01° 35' 58"	13.8	Galaxy	0.008x0.007	Cetus	
NGC 2910	00h 54m 24.3s	-08° 40' 12"	13.9	Galaxy	0.009x0.005	Cetus	
NGC 3450	01h 02m 16.6s	-06° 47' 15"	13.9	Galaxy	0.01x0.006	Cetus	
IC 138	01h 33m 57.2s	-00° 35' 52"	13.9	Galaxy	0.009x0.006	Cetus	
IC 22	00h 30m 28.0s	-08° 58' 51"	13.9	Galaxy	0.005x0.002	Cetus	
NGC 1545	00h 35m 13.9s	-12° 33' 24"	14.0	Galaxy	0.009x0.007	Cetus	
IC 1563	00h 39m 54.8s	-08° 54' 59"	14.0	Galaxy	0.005x0.005	Cetus	
IC 23	00h 31m 45.3s	-12° 37' 14"	14.0	Galaxy	0.005x0.005	Cetus	
NGC 4136	01h 13m 26.3s	-02° 41' 53"	14.1	Galaxy	0.01x0.005	Cetus	
NGC 5897	01h 33m 33.2s	-11° 57' 01"	14.1	Galaxy	0.009x0.007	Cetus	
IC 129	01h 32m 24.5s	-12° 33' 42"	14.1	Galaxy	0.011x0.007	Cetus	
IC 19	00h 29m 34.1s	-11° 32' 27"	14.1	Galaxy	0.006x0.004	Cetus	
IC 50	00h 47m 00.2s	-09° 24' 19"	14.1	Galaxy	0.005x0.005	Cetus	
NGC 1073	00h 26m 37.1s	-08° 11' 02"	14.2	Galaxy	0.007x0.005	Cetus	
NGC 2935	00h 55m 10.6s	-07° 08' 17"	14.2	Galaxy	0.009x0.007	Cetus	
NGC 5676	01h 27m 56.0s	-10° 10' 18"	14.2	Galaxy	0.008x0.005	Cetus	
IC 108	01h 25m 32.4s	-12° 32' 32"	14.2	Galaxy	0.007x0.001	Cetus	
IC 1643	01h 13m 03.8s	-00° 18' 52"	14.2	Galaxy	0.006x0.006	Cetus	
NGC 5194	01h 25m 23.8s	-01° 32' 53"	14.3	Galaxy	0.004x0.002	Cetus	M51, Whirlpool galaxy
NGC 5585	01h 28m 11.2s	-01° 52' 39"	14.3	Galaxy	0.003x0.001	Cetus	
NGC 6494	01h 41m 01.2s	-09° 10' 51"	14.3	Galaxy	0.007x0.002	Cetus	M23
IC 120	01h 29m 07.9s	-01° 49' 20"	14.3	Galaxy	0.007x0.001	Cetus	
IC 1602	00h 56m 46.1s	-09° 53' 17"	14.3	Galaxy	0.005x0.005	Cetus	
IC 25	00h 32m 07.5s	-00° 18' 30"	14.3	Galaxy	0.008x0.007	Cetus	
IC 56	00h 52m 24.1s	-12° 44' 48"	14.3	Galaxy	0.005x0.005	Cetus	
IC 342	01h 01m 44.4s	-06° 40' 32"	14.4	Galaxy	0.006x0.003	Cetus	CALDWELL 5
NGC 3504	01h 02m 51.2s	-06° 41' 56"	14.4	Galaxy	0.005x0.004	Cetus	

Table 122: Main objects visible on chart 115 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6405	01h 40m 18.6s	-09° 18' 37"	14.4	Galaxy	0.005x0.004	Cetus	M6
IC 126	01h 30m 42.7s	-01° 53' 27"	14.4	Galaxy	0.007x0.007	Cetus	
IC 1640	01h 12m 46.5s	-00° 32' 07"	14.4	Galaxy	0.001x0.001	Cetus	
NGC 6178	01h 34m 56.2s	-09° 40' 54"	14.5	Galaxy	0.004x0.004	Cetus	
IC 33	00h 36m 00.2s	-02° 02' 20"	14.5	Galaxy	0.005x0.004	Cetus	
NGC 3310	00h 48m 01.8s	-02° 37' 59"	14.6	Galaxy	0.006x0.004	Cetus	
NGC 5938	01h 33m 13.9s	-12° 15' 44"	14.6	Galaxy	0.01x0.001	Cetus	
IC 128	01h 32m 17.2s	-12° 31' 56"	14.6	Galaxy	0.007x0.005	Cetus	
IC 18	00h 29m 29.7s	-11° 29' 13"	14.6	Galaxy	0.009x0.005	Cetus	
NGC 3675	01h 06m 42.8s	-12° 01' 56"	14.7	Galaxy	0.007x0.004	Cetus	
IC 3010	00h 57m 12.5s	-10° 34' 34"	14.8	Galaxy	0.005x0.004	Cetus	
NGC 3255	00h 58m 42.7s	-05° 00' 56"	14.8	Galaxy	0.010x0.001	Cetus	
NGC 3471	01h 02m 29.7s	-06° 38' 13"	14.8	Galaxy	0.005x0.003	Cetus	
IC 98	01h 21m 48.3s	-12° 30' 37"	14.8	Galaxy	0.005x0.005	Cetus	
IC 145	01h 39m 34.0s	+00° 49' 57"	14.9	Galaxy	0.005x0.003	Cetus	
IC 32	00h 35m 56.8s	-02° 02' 32"	14.9	Galaxy	0.003x0.003	Cetus	
NGC 3211	00h 58m 34.0s	-04° 59' 20"	15.0	Galaxy	0.003x0.002	Cetus	
IC 15	00h 28m 52.9s	+00° 02' 17"	15.0	Galaxy	0.003x0.003	Cetus	
IC 1557	00h 36m 29.6s	-02° 46' 37"	15.0	Galaxy	0.004x0.001	Cetus	
NGC 6015	01h 33m 59.8s	-12° 06' 59"	15.1	Galaxy	0.003x0.003	Cetus	
IC 118	01h 28m 30.6s	-04° 54' 15"	15.1	Galaxy	0.004x0.004	Cetus	
IC 29	00h 35m 05.9s	-02° 04' 40"	15.1	Galaxy	0.005x0.005	Cetus	
NGC 4804	01h 21m 28.2s	-09° 47' 11"	15.2	Galaxy	0.004x0.001	Cetus	
IC 1693	01h 24m 57.4s	-01° 33' 48"	15.2	Galaxy	0.004x0.001	Cetus	
IC 21	00h 30m 05.7s	-00° 03' 51"	15.2	Galaxy	0.004x0.003	Cetus	
NGC 3556	01h 04m 01.5s	-06° 13' 38"	15.3	Galaxy	0.008x0.003	Cetus	M108
NGC 2972	00h 55m 53.5s	-07° 15' 11"	15.5	Galaxy	0.002x0.001	Cetus	
IC 95	01h 20m 11.3s	-12° 28' 46"	15.5	Galaxy	0.003x0.003	Cetus	
IC 76	01h 09m 06.4s	-04° 27' 31"	15.6	Galaxy	0.007x0.003	Cetus	
IC 56A	00h 52m 45.3s	-12° 40' 10"	15.7	Galaxy	0.003x0.002	Cetus	IC 56A
341B	01h 01m 41.9s	-09° 05' 26"	15.8	Galaxy	0.002x0.001	Cetus	341B
IC 30	00h 35m 09.9s	-01° 59' 08"	15.9	Galaxy	0.005x0.003	Cetus	

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Table 123: Main objects visible on chart 116

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1068	02h 43m 36.2s	+00° 03' 47"	8.9	Galaxy	0.059x0.05	Cetus	M77, Cetus A
NGC 936	02h 28m 32.6s	-01° 04' 35"	10.2	Galaxy	0.039x0.034	Cetus	
NGC 1052	02h 41m 57.7s	-08° 10' 42"	10.5	Galaxy	0.023x0.016	Cetus	
NGC 5846	01h 32m 14.7s	-06° 46' 30"	10.5	Galaxy	0.034x0.016	Cetus	
NGC 1055	02h 42m 40.8s	+00° 31' 08"	10.6	Galaxy	0.063x0.022	Cetus	
NGC 1084	02h 46m 53.0s	-07° 30' 10"	10.7	Galaxy	0.023x0.011	Eridanus	
NGC 1087	02h 47m 20.4s	-00° 25' 28"	10.9	Galaxy	0.032x0.019	Cetus	

Table 123: Main objects visible on chart 116 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 596	01h 33m 46.2s	-06° 56' 24"	10.9	Galaxy	0.026x0.016	Cetus	
NGC 1042	02h 41m 17.0s	-08° 21' 27"	11.0	Galaxy	0.035x0.03	Cetus	
NGC 988	02h 36m 20.2s	-09° 16' 38"	11.0	Galaxy	0.034x0.013	Cetus	
NGC 7790	02h 00m 36.7s	-05° 52' 39"	11.2	Galaxy	0.034x0.01	Cetus	
NGC 1022	02h 39m 26.1s	-06° 36' 02"	11.3	Galaxy	0.02x0.018	Cetus	
NGC 6362	01h 40m 00.5s	-07° 25' 17"	11.5	Galaxy	0.023x0.016	Cetus	
NGC 6152	01h 35m 59.8s	-07° 14' 55"	11.6	Galaxy	0.022x0.007	Cetus	
NGC 895	02h 22m 30.5s	-05° 26' 22"	11.7	Galaxy	0.03x0.021	Cetus	
NGC 991	02h 36m 26.1s	-07° 04' 38"	11.7	Galaxy	0.025x0.022	Cetus	
NGC 1090	02h 47m 29.3s	-00° 10' 23"	11.8	Galaxy	0.032x0.015	Cetus	
NGC 6811	01h 50m 04.1s	-10° 20' 18"	12.0	Galaxy	0.022x0.015	Cetus	
NGC 955	02h 31m 28.2s	-01° 01' 45"	12.0	Galaxy	0.024x0.007	Cetus	
NGC 1015	02h 39m 06.6s	-01° 14' 28"	12.1	Galaxy	0.016x0.014	Cetus	
NGC 7314	01h 55m 49.4s	-08° 55' 25"	12.1	Galaxy	0.014x0.014	Cetus	
NGC 788	02h 02m 00.3s	-06° 43' 45"	12.1	Galaxy	0.013x0.011	Cetus	
NGC 835	02h 10m 17.7s	-10° 03' 03"	12.1	Galaxy	0.010x0.009	Cetus	
NGC 945	02h 29m 29.9s	-10° 27' 33"	12.1	Galaxy	0.019x0.018	Cetus	
NGC 1035	02h 40m 22.2s	-08° 03' 21"	12.2	Galaxy	0.018x0.005	Cetus	
NGC 7013	01h 51m 57.2s	-09° 36' 53"	12.2	Galaxy	0.021x0.011	Cetus	
NGC 958	02h 31m 37.1s	-02° 51' 42"	12.2	Galaxy	0.024x0.007	Cetus	
NGC 1045	02h 41m 21.4s	-11° 12' 05"	12.4	Galaxy	0.013x0.01	Cetus	
NGC 6005	01h 33m 59.5s	-07° 13' 13"	12.4	Galaxy	0.023x0.017	Cetus	
NGC 881	02h 19m 39.1s	-06° 33' 26"	12.4	Galaxy	0.019x0.012	Cetus	
NGC 941	02h 29m 22.9s	-01° 04' 17"	12.4	Galaxy	0.022x0.015	Cetus	
NGC 1094	02h 48m 23.1s	-00° 12' 39"	12.5	Galaxy	0.010x0.008	Cetus	
NGC 7484	01h 57m 16.2s	-04° 22' 47"	12.6	Galaxy	0.019x0.009	Cetus	
NGC 7552	01h 57m 16.1s	-08° 58' 30"	12.6	Galaxy	0.027x0.009	Cetus	Grus quartet
NGC 873	02h 17m 24.9s	-11° 15' 57"	12.6	Galaxy	0.013x0.010	Cetus	
NGC 883	02h 19m 58.9s	-06° 42' 30"	12.6	Galaxy	0.01x0.009	Cetus	
NGC 833	02h 10m 13.9s	-10° 02' 54"	12.7	Galaxy	0.012x0.005	Cetus	
NGC 842	02h 10m 44.3s	-07° 40' 41"	12.7	Galaxy	0.013x0.006	Cetus	
NGC 1051	02h 41m 55.7s	-06° 51' 33"	12.8	Galaxy	0.015x0.011	Cetus	
NGC 853	02h 12m 34.2s	-09° 13' 17"	12.8	Galaxy	0.013x0.011	Cetus	
NGC 6229	01h 36m 55.6s	+00° 45' 18"	12.9	Galaxy	0.013x0.008	Cetus	
NGC 787	02h 01m 42.0s	-08° 54' 58"	12.9	Galaxy	0.020x0.015	Cetus	
NGC 850	02h 12m 08.5s	-01° 24' 03"	12.9	Galaxy	0.01x0.009	Cetus	
NGC 863	02h 15m 28.7s	-00° 40' 58"	12.9	Galaxy	0.009x0.008	Cetus	
NGC 943	02h 30m 02.1s	-10° 44' 54"	12.9	Galaxy	0.023x0.010	Cetus	
NGC 7626	01h 57m 52.1s	-05° 18' 54"	13.0	Galaxy	0.011x0.01	Cetus	
NGC 790	02h 02m 15.8s	-05° 17' 03"	13.0	Galaxy	0.010x0.010	Cetus	
NGC 838	02h 10m 31.4s	-10° 03' 41"	13.0	Galaxy	0.01x0.0075	Cetus	
NGC 848	02h 11m 10.4s	-10° 14' 10"	13.0	Galaxy	0.012x0.008	Cetus	
NGC 942	02h 30m 02.8s	-10° 45' 21"	13.0	Galaxy	0.023x0.010	Cetus	
NGC 5850	01h 32m 37.4s	-00° 50' 26"	13.1	Galaxy	0.018x0.004	Cetus	
NGC 7027	01h 52m 13.8s	-03° 58' 01"	13.1	Galaxy	0.01x0.006	Cetus	
NGC 7731	01h 59m 44.8s	-11° 25' 42"	13.1	Galaxy	0.011x0.006	Cetus	

Table 123: Main objects visible on chart 116 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 800	02h 03m 07.1s	-00° 02' 41"	13.1	Galaxy	0.008x0.007	Cetus	
NGC 839	02h 10m 35.9s	-10° 05' 56"	13.1	Galaxy	0.011x0.005	Cetus	
NGC 934	02h 28m 28.2s	-00° 09' 51"	13.1	Galaxy	0.010x0.007	Cetus	
IC 164	01h 50m 03.0s	-03° 48' 56"	13.1	Galaxy	0.011x0.01	Cetus	
IC 209	02h 09m 52.4s	-06° 58' 28"	13.1	Galaxy	0.014x0.010	Cetus	
IC 210	02h 10m 21.5s	-09° 35' 43"	13.1	Galaxy	0.019x0.005	Cetus	
NGC 5866	01h 32m 31.0s	-06° 48' 03"	13.2	Galaxy	0.014x0.007	Cetus	M102
NGC 7686	01h 59m 36.3s	+00° 36' 57"	13.2	Galaxy	0.014x0.006	Cetus	
NGC 859	02h 14m 33.6s	-00° 37' 59"	13.2	Galaxy	0.010x0.007	Cetus	
IC 159	01h 47m 18.7s	-08° 32' 50"	13.2	Galaxy	0.012x0.005	Cetus	
NGC 1041	02h 41m 19.1s	-05° 21' 49"	13.3	Galaxy	0.014x0.010	Cetus	
NGC 6242	01h 36m 44.8s	-09° 54' 42"	13.3	Galaxy	0.012x0.008	Cetus	
NGC 830	02h 09m 52.3s	-07° 40' 58"	13.3	Galaxy	0.011x0.007	Cetus	
NGC 926	02h 27m 01.9s	-00° 15' 08"	13.3	Galaxy	0.015x0.008	Cetus	
NGC 1072	02h 44m 26.7s	+00° 22' 57"	13.4	Galaxy	0.012x0.004	Cetus	
NGC 5999	01h 33m 47.0s	-12° 05' 56"	13.4	Galaxy	0.011x0.010	Cetus	
NGC 6475	01h 40m 49.8s	-09° 09' 04"	13.4	Galaxy	0.012x0.009	Cetus	M7, Ptolemy's cluster
NGC 799	02h 03m 07.5s	-00° 00' 51"	13.4	Galaxy	0.016x0.014	Cetus	
NGC 985	02h 35m 30.4s	-08° 42' 25"	13.4	Galaxy	0.008x0.007	Cetus	
IC 219	02h 19m 32.4s	-06° 49' 15"	13.4	Galaxy	0.008x0.005	Cetus	
NGC 1047	02h 41m 25.9s	-08° 04' 15"	13.5	Galaxy	0.010x0.005	Cetus	
NGC 1069	02h 43m 53.0s	-08° 12' 47"	13.5	Galaxy	0.011x0.007	Cetus	
NGC 1080	02h 46m 04.2s	-04° 38' 08"	13.5	Galaxy	0.009x0.006	Cetus	
NGC 829	02h 09m 35.8s	-07° 42' 20"	13.5	Galaxy	0.009x0.005	Cetus	
NGC 977	02h 33m 55.9s	-10° 40' 51"	13.5	Galaxy	0.016x0.013	Cetus	
707-1	01h 52m 20.7s	-08° 25' 03"	13.6	Galaxy	0.010x0.007	Cetus	707-1
IC 1767	02h 00m 52.4s	-10° 59' 31"	13.6	Galaxy	0.015x0.005	Cetus	
IC 205	02h 08m 22.5s	-02° 00' 25"	13.6	Galaxy	0.007x0.007	Cetus	
IC 217	02h 17m 03.1s	-11° 50' 33"	13.6	Galaxy	0.018x0.004	Cetus	
NGC 7479	01h 58m 23.8s	-09° 22' 32"	13.7	Galaxy	0.008x0.004	Cetus	CALDWELL 44
IC 948	02h 29m 38.1s	-10° 26' 03"	13.7	Galaxy	0.011x0.009	Cetus	
NGC 963	02h 31m 25.4s	-04° 08' 11"	13.7	Galaxy	0.005x0.005	Cetus	
NGC 1033	02h 41m 09.1s	-08° 41' 59"	13.8	Galaxy	0.01x0.008	Cetus	
IC 1063	02h 43m 03.7s	-05° 29' 32"	13.8	Galaxy	0.011x0.004	Cetus	
IC 809	02h 05m 12.3s	-08° 38' 57"	13.8	Galaxy	0.01x0.0075	Cetus	
NGC 950	02h 30m 04.1s	-10° 56' 43"	13.8	Galaxy	0.010x0.006	Cetus	
IC 184	02h 00m 45.0s	-06° 45' 14"	13.8	Galaxy	0.009x0.004	Cetus	
NGC 1108	02h 49m 31.6s	-07° 52' 35"	13.9	Galaxy	0.006x0.003	Eridanus	
806-1	02h 04m 24.4s	-09° 50' 49"	13.9	Galaxy	0.01x0.003	Cetus	806-1
NGC 868	02h 16m 53.7s	-00° 37' 47"	13.9	Galaxy	0.010x0.008	Cetus	
NGC 981	02h 33m 52.3s	-10° 53' 42"	13.9	Galaxy	0.008x0.005	Cetus	
IC 138	01h 33m 57.2s	-00° 35' 52"	13.9	Galaxy	0.009x0.006	Cetus	
IC 1738	01h 52m 01.1s	-09° 42' 16"	13.9	Galaxy	0.007x0.005	Cetus	
IC 183	02h 00m 28.1s	-05° 15' 38"	13.9	Galaxy	0.010x0.003	Cetus	
IC 207	02h 10m 33.2s	-06° 50' 17"	13.9	Galaxy	0.018x0.003	Cetus	
NGC 1013	02h 38m 42.6s	-11° 25' 46"	14.0	Galaxy	0.006x0.005	Cetus	

Table 123: Main objects visible on chart 116 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1082-1	02h 46m 34.3s	-08° 06' 18"	14.0	Galaxy	0.007x0.005	Eridanus	1082-1
707-2	01h 52m 21.3s	-08° 25' 06"	14.0	Galaxy	0.002x0.002	Cetus	707-2
IC 176	01h 57m 48.4s	-01° 55' 54"	14.0	Galaxy	0.015x0.003	Cetus	
IC 247	02h 41m 00.8s	-11° 39' 24"	14.0	Galaxy	0.01x0.008	Cetus	
IC 1010	02h 38m 27.2s	-10° 56' 53"	14.1	Galaxy	0.006x0.006	Cetus	
NGC 5897	01h 33m 33.2s	-11° 57' 01"	14.1	Galaxy	0.009x0.007	Cetus	
NGC 6996	01h 51m 36.6s	-11° 56' 49"	14.1	Galaxy	0.013x0.002	Cetus	
IC 129	01h 32m 24.5s	-12° 33' 42"	14.1	Galaxy	0.011x0.007	Cetus	
NGC 929	02h 28m 10.4s	-12° 00' 26"	14.2	Galaxy	0.008x0.005	Cetus	
IC 960A	02h 32m 34.2s	-09° 13' 17"	14.2	Galaxy	0.01x0.0025	Cetus	IC 960A
IC 168	01h 51m 21.2s	-08° 26' 06"	14.2	Galaxy	0.007x0.002	Cetus	
IC 206	02h 10m 24.6s	-06° 53' 04"	14.2	Galaxy	0.008x0.003	Cetus	
IC 243	02h 39m 25.6s	-06° 49' 29"	14.2	Galaxy	0.01x0.006	Cetus	
IC 1011	02h 38m 31.2s	-10° 55' 40"	14.3	Galaxy	0.005x0.005	Cetus	
NGC 1064	02h 43m 16.1s	-09° 17' 13"	14.3	Galaxy	0.009x0.008	Cetus	
IC 1078	02h 45m 00.7s	-09° 22' 35"	14.3	Galaxy	0.007x0.006	Cetus	
NGC 6494	01h 41m 01.2s	-09° 10' 51"	14.3	Galaxy	0.007x0.002	Cetus	M23
NGC 7261	01h 56m 25.0s	-10° 42' 42"	14.3	Galaxy	0.01x0.005	Cetus	
NGC 811	02h 05m 23.4s	-09° 01' 13"	14.3	Galaxy	0.005x0.004	Cetus	
IC 216	02h 16m 50.2s	-01° 55' 54"	14.3	Galaxy	0.002x0.001	Cetus	
IC 224	02h 25m 37.4s	-12° 28' 59"	14.3	Galaxy	0.004x0.003	Cetus	
IC 1017	02h 38m 42.3s	-10° 55' 60"	14.4	Galaxy	0.005x0.005	Cetus	
IC 1071	02h 44m 00.7s	-08° 41' 54"	14.4	Galaxy	0.01x0.004	Cetus	
NGC 6405	01h 40m 18.6s	-09° 18' 37"	14.4	Galaxy	0.005x0.004	Cetus	M6
NGC 7135	01h 56m 15.1s	-08° 59' 44"	14.4	Galaxy	0.008x0.002	Cetus	
NGC 7582	01h 56m 36.8s	-02° 58' 43"	14.4	Galaxy	0.007x0.005	Cetus	
IC 170	01h 52m 51.1s	-08° 25' 44"	14.4	Galaxy	0.002x0.001	Cetus	
IC 1761	01h 59m 47.7s	+00° 39' 21"	14.4	Galaxy	0.007x0.004	Cetus	
IC 1818	02h 34m 59.5s	-10° 57' 43"	14.4	Galaxy	0.004x0.004	Cetus	
IC 1048	02h 41m 30.9s	-08° 27' 26"	14.5	Galaxy	0.008x0.002	Cetus	
NGC 1048A	02h 41m 28.5s	-08° 28' 17"	14.5	Galaxy	0.005x0.003	Cetus	1048A
NGC 6178	01h 34m 56.2s	-09° 40' 54"	14.5	Galaxy	0.004x0.004	Cetus	
NGC 7676	01h 59m 44.1s	-09° 30' 01"	14.5	Galaxy	0.009x0.003	Cetus	
IC 1781	02h 07m 48.0s	-00° 25' 59"	14.5	Galaxy	0.003x0.003	Cetus	
IC 186A	02h 01m 18.9s	-01° 28' 00"	14.5	Galaxy	0.005x0.003	Cetus	IC 186A
IC 220	02h 20m 04.1s	-12° 41' 57"	14.5	Galaxy	0.007x0.002	Cetus	
IC 234	02h 32m 33.0s	-00° 03' 38"	14.5	Galaxy	0.005x0.001	Cetus	
NGC 5938	01h 33m 13.9s	-12° 15' 44"	14.6	Galaxy	0.01x0.001	Cetus	
NGC 880	02h 19m 21.6s	-04° 07' 22"	14.6	Galaxy	0.003x0.002	Cetus	
IC 128	01h 32m 17.2s	-12° 31' 56"	14.6	Galaxy	0.007x0.005	Cetus	
IC 1756	01h 58m 00.5s	-00° 22' 52"	14.6	Galaxy	0.011x0.001	Cetus	
IC 177	01h 57m 55.9s	-00° 00' 07"	14.6	Galaxy	0.003x0.002	Cetus	
IC 186B	02h 01m 20.3s	-01° 27' 50"	14.6	Galaxy	0.002x0.002	Cetus	IC 186B
806-2	02h 04m 25.6s	-09° 50' 37"	14.7	Galaxy	0.003x0.001	Cetus	806-2
IC 879	02h 17m 44.5s	-08° 52' 51"	14.7	Galaxy	0.005x0.005	Cetus	
IC 204	02h 08m 22.0s	-01° 20' 41"	14.7	Galaxy	0.002x0.001	Cetus	

Table 123: Main objects visible on chart 116 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1018	02h 39m 03.1s	-09° 28' 01"	14.8	Galaxy	0.008x0.005	Cetus	
IC 215	02h 15m 03.1s	-06° 43' 22"	14.8	Galaxy	0.009x0.002	Cetus	
IC 230	02h 29m 39.8s	-10° 45' 07"	14.8	Galaxy	0.003x0.002	Cetus	
IC 145	01h 39m 34.0s	+00° 49' 57"	14.9	Galaxy	0.005x0.003	Cetus	
NGC 6015	01h 33m 59.8s	-12° 06' 59"	15.1	Galaxy	0.003x0.003	Cetus	
IC 905	02h 23m 36.7s	-08° 38' 14"	15.1	Galaxy	0.004x0.002	Cetus	
IC 158	01h 46m 47.5s	-06° 50' 44"	15.1	Galaxy	0.004x0.003	Cetus	
IC 169	01h 51m 32.1s	-12° 35' 26"	15.3	Galaxy	0.004x0.002	Cetus	
IC 185	02h 01m 01.1s	-01° 26' 28"	15.4	Galaxy	0.004x0.001	Cetus	
NGC 1082-2	02h 46m 35.6s	-08° 06' 29"	15.5	Galaxy	0.001x0.001	Eridanus	1082-2
IC 1757	01h 58m 06.8s	-00° 23' 11"	15.7	Galaxy	0.005x0.001	Cetus	
IC 236	02h 33m 51.1s	-00° 03' 08"	16.0	Galaxy	0.005x0.002	Cetus	

7.118 Main objects visible on chart 117

Table 124: Main objects visible on chart 117

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1068	02h 43m 36.2s	+00° 03' 47"	8.9	Galaxy	0.059x0.05	Cetus	M77, Cetus A
NGC 1052	02h 41m 57.7s	-08° 10' 42"	10.5	Galaxy	0.023x0.016	Cetus	
NGC 1055	02h 42m 40.8s	+00° 31' 08"	10.6	Galaxy	0.063x0.022	Cetus	
NGC 1084	02h 46m 53.0s	-07° 30' 10"	10.7	Galaxy	0.023x0.011	Eridanus	
NGC 1087	02h 47m 20.4s	-00° 25' 28"	10.9	Galaxy	0.032x0.019	Cetus	
NGC 1042	02h 41m 17.0s	-08° 21' 27"	11.0	Galaxy	0.035x0.03	Cetus	
NGC 1022	02h 39m 26.1s	-06° 36' 02"	11.3	Galaxy	0.02x0.018	Cetus	
NGC 1453	03h 47m 21.2s	-03° 54' 50"	11.5	Galaxy	0.02x0.015	Eridanus	
NGC 1253	03h 15m 03.7s	-02° 45' 25"	11.7	Galaxy	0.044x0.019	Eridanus	
NGC 1090	02h 47m 29.3s	-00° 10' 23"	11.8	Galaxy	0.032x0.015	Cetus	
NGC 1337	03h 28m 58.2s	-08° 19' 37"	11.9	Galaxy	0.047x0.012	Eridanus	
NGC 1200	03h 04m 46.2s	-11° 55' 19"	12.0	Galaxy	0.024x0.019	Eridanus	
NGC 1241	03h 12m 07.2s	-08° 51' 18"	12.0	Galaxy	0.028x0.013	Eridanus	
NGC 1015	02h 39m 06.6s	-01° 14' 28"	12.1	Galaxy	0.016x0.014	Cetus	
NGC 1358	03h 34m 33.3s	-05° 01' 46"	12.1	Galaxy	0.017x0.011	Eridanus	
NGC 1376	03h 37m 59.6s	-04° 59' 04"	12.1	Galaxy	0.017x0.015	Eridanus	
NGC 1417	03h 42m 50.9s	-04° 38' 55"	12.1	Galaxy	0.019x0.01	Eridanus	
NGC 1035	02h 40m 22.2s	-08° 03' 21"	12.2	Galaxy	0.018x0.005	Cetus	
NGC 1132	02h 53m 46.8s	-01° 12' 06"	12.3	Galaxy	0.020x0.010	Eridanus	
NGC 1208	03h 07m 04.1s	-09° 28' 19"	12.3	Galaxy	0.015x0.007	Eridanus	
NGC 1211	03h 07m 47.5s	-00° 43' 32"	12.3	Galaxy	0.017x0.015	Cetus	
NGC 1045	02h 41m 21.4s	-11° 12' 05"	12.4	Galaxy	0.013x0.01	Cetus	
NGC 1094	02h 48m 23.1s	-00° 12' 39"	12.5	Galaxy	0.010x0.008	Cetus	
NGC 1140	02h 55m 25.9s	-09° 57' 20"	12.5	Galaxy	0.015x0.008	Eridanus	
NGC 1162	02h 59m 47.5s	-12° 19' 38"	12.5	Galaxy	0.011x0.011	Eridanus	
NGC 1222	03h 09m 51.3s	-02° 53' 16"	12.5	Galaxy	0.009x0.007	Eridanus	
NGC 1247	03h 13m 06.3s	-10° 24' 51"	12.5	Galaxy	0.028x0.004	Eridanus	

Table 124: Main objects visible on chart 117 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1248	03h 13m 42.1s	-05° 09' 29"	12.5	Galaxy	0.01x0.008	Eridanus	
NGC 1320	03h 25m 43.0s	-02° 58' 48"	12.5	Galaxy	0.015x0.005	Eridanus	
NGC 1289	03h 19m 44.5s	-01° 54' 30"	12.6	Galaxy	0.015x0.009	Eridanus	
NGC 1324	03h 25m 55.2s	-05° 40' 58"	12.7	Galaxy	0.017x0.006	Eridanus	
NGC 1051	02h 41m 55.7s	-06° 51' 33"	12.8	Galaxy	0.015x0.011	Cetus	
NGC 1285	03h 18m 46.4s	-07° 13' 57"	12.8	Galaxy	0.012x0.009	Eridanus	
NGC 1121	02h 51m 34.0s	-01° 39' 38"	12.9	Galaxy	0.007x0.003	Eridanus	
NGC 1194	03h 04m 44.1s	-01° 02' 02"	12.9	Galaxy	0.015x0.008	Cetus	
NGC 1338	03h 29m 45.7s	-12° 05' 31"	12.9	Galaxy	0.011x0.010	Eridanus	
NGC 1441	03h 46m 36.9s	-04° 02' 11"	12.9	Galaxy	0.014x0.005	Eridanus	
NGC 1142	02h 56m 07.5s	-00° 06' 42"	13.0	Galaxy	0.007x0.004	Cetus	
IC 1266	03h 16m 55.3s	-02° 21' 40"	13.0	Galaxy	0.013x0.008	Eridanus	
NGC 1299	03h 21m 02.9s	-06° 11' 52"	13.0	Galaxy	0.01x0.005	Eridanus	
IC 1880	03h 07m 20.8s	-09° 39' 43"	13.0	Galaxy	0.013x0.009	Eridanus	
IC 347	03h 43m 26.4s	-04° 14' 32"	13.0	Galaxy	0.01x0.0075	Eridanus	
NGC 1141	02h 56m 05.0s	-00° 06' 21"	13.1	Galaxy	0.007x0.005	Cetus	
NGC 1363	03h 35m 41.5s	-09° 46' 59"	13.1	Galaxy	0.007x0.005	Eridanus	
NGC 1118	02h 50m 50.6s	-12° 05' 24"	13.2	Galaxy	0.018x0.005	Eridanus	
NGC 1154	02h 58m 59.9s	-10° 17' 32"	13.2	Galaxy	0.008x0.006	Eridanus	
NGC 1196	03h 04m 26.9s	-12° 00' 22"	13.2	Galaxy	0.011x0.011	Eridanus	
NGC 1346	03h 31m 06.7s	-05° 28' 56"	13.2	Galaxy	0.008x0.005	Eridanus	
IC 1870	02h 58m 48.2s	-02° 16' 31"	13.2	Galaxy	0.023x0.013	Eridanus	
NGC 1041	02h 41m 19.1s	-05° 21' 49"	13.3	Galaxy	0.014x0.010	Cetus	
NGC 1204	03h 05m 31.5s	-12° 16' 21"	13.3	Galaxy	0.01x0.0025	Eridanus	
NGC 1238	03h 11m 44.6s	-10° 40' 49"	13.3	Galaxy	0.013x0.01	Eridanus	
NGC 1305	03h 22m 17.5s	-02° 15' 09"	13.3	Galaxy	0.012x0.008	Eridanus	
NGC 1355	03h 34m 17.2s	-04° 56' 19"	13.3	Galaxy	0.012x0.003	Eridanus	
IC 307	03h 14m 40.5s	-00° 10' 29"	13.3	Galaxy	0.014x0.006	Cetus	
NGC 1072	02h 44m 26.7s	+00° 22' 57"	13.4	Galaxy	0.012x0.004	Cetus	
NGC 1155	02h 59m 05.3s	-10° 16' 44"	13.4	Galaxy	0.008x0.006	Eridanus	
NGC 1223	03h 09m 14.0s	-04° 04' 14"	13.4	Galaxy	0.01x0.008	Eridanus	
NGC 1280	03h 18m 52.3s	-00° 06' 14"	13.4	Galaxy	0.007x0.006	Cetus	
NGC 1322	03h 25m 49.0s	-02° 51' 22"	13.4	Galaxy	0.008x0.006	Eridanus	
NGC 1449	03h 46m 56.9s	-04° 04' 59"	13.4	Galaxy	0.006x0.004	Eridanus	
NGC 1451	03h 47m 01.0s	-04° 00' 51"	13.4	Galaxy	0.006x0.004	Eridanus	
NGC 1047	02h 41m 25.9s	-08° 04' 15"	13.5	Galaxy	0.010x0.005	Cetus	
NGC 1069	02h 43m 53.0s	-08° 12' 47"	13.5	Galaxy	0.011x0.007	Cetus	
NGC 1080	02h 46m 04.2s	-04° 38' 08"	13.5	Galaxy	0.009x0.006	Cetus	
IC 1152	02h 58m 26.7s	-07° 41' 18"	13.5	Galaxy	0.007x0.005	Eridanus	
NGC 1221	03h 09m 09.6s	-04° 11' 30"	13.5	Galaxy	0.01x0.003	Eridanus	
NGC 1304	03h 22m 06.6s	-04° 31' 11"	13.5	Galaxy	0.011x0.006	Eridanus	
IC 1856	02h 49m 45.9s	-00° 41' 35"	13.5	Galaxy	0.009x0.005	Cetus	
NGC 1104	02h 49m 34.0s	-00° 11' 50"	13.6	Galaxy	0.01x0.0075	Cetus	
NGC 1239	03h 11m 48.3s	-02° 29' 07"	13.6	Galaxy	0.01x0.005	Eridanus	
NGC 1321	03h 25m 43.0s	-02° 57' 10"	13.6	Galaxy	0.007x0.004	Eridanus	
NGC 1418	03h 43m 09.9s	-04° 40' 31"	13.6	Galaxy	0.008x0.005	Eridanus	

Table 124: Main objects visible on chart 117 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1185	03h 03m 51.8s	-09° 03' 48"	13.7	Galaxy	0.01x0.003	Eridanus	
NGC 1242	03h 12m 11.9s	-08° 50' 09"	13.7	Galaxy	0.01x0.005	Eridanus	
NGC 1308	03h 23m 23.0s	-02° 41' 38"	13.7	Galaxy	0.01x0.0075	Eridanus	
NGC 1397	03h 40m 40.9s	-04° 36' 44"	13.7	Galaxy	0.014x0.01	Eridanus	
NGC 1470	03h 53m 01.9s	-08° 56' 50"	13.7	Galaxy	0.010x0.002	Eridanus	
IC 291	03h 08m 18.0s	-12° 31' 07"	13.7	Galaxy	0.011x0.005	Eridanus	
NGC 1033	02h 41m 09.1s	-08° 41' 59"	13.8	Galaxy	0.01x0.008	Cetus	
IC 1063	02h 43m 03.7s	-05° 29' 32"	13.8	Galaxy	0.011x0.004	Cetus	
NGC 1284	03h 18m 37.4s	-10° 13' 25"	13.8	Galaxy	0.010x0.007	Eridanus	
NGC 1409	03h 42m 05.3s	-01° 14' 42"	13.8	Galaxy	0.008x0.006	Taurus	
NGC 1424	03h 44m 07.7s	-04° 40' 27"	13.8	Galaxy	0.013x0.005	Eridanus	
IC 271	02h 56m 51.2s	-11° 56' 11"	13.8	Galaxy	0.007x0.005	Eridanus	
IC 350	03h 45m 27.8s	-11° 44' 43"	13.8	Galaxy	0.01x0.006	Eridanus	
NGC 1108	02h 49m 31.6s	-07° 52' 35"	13.9	Galaxy	0.006x0.003	Eridanus	
NGC 1110	02h 50m 02.5s	-07° 45' 51"	13.9	Galaxy	0.024x0.004	Eridanus	
NGC 1182	03h 04m 20.8s	-09° 36' 03"	13.9	Galaxy	0.007x0.003	Eridanus	
NGC 1253A	03h 15m 18.1s	-02° 44' 06"	13.9	Galaxy	0.010x0.006	Eridanus	1253A
IC 1286	03h 18m 41.4s	-07° 33' 05"	13.9	Galaxy	0.007x0.005	Eridanus	
NGC 1287	03h 19m 27.8s	-02° 39' 57"	13.9	Galaxy	0.006x0.005	Eridanus	
NGC 1303	03h 21m 33.7s	-07° 19' 48"	13.9	Galaxy	0.006x0.005	Eridanus	
NGC 1361	03h 35m 10.9s	-06° 12' 18"	13.9	Galaxy	0.013x0.01	Eridanus	
IC 1886	03h 08m 57.2s	-04° 19' 55"	13.9	Galaxy	0.008x0.005	Eridanus	
IC 331	03h 33m 14.5s	+00° 20' 34"	13.9	Galaxy	0.007x0.007	Taurus	
NGC 1013	02h 38m 42.6s	-11° 25' 46"	14.0	Galaxy	0.006x0.005	Cetus	
NGC 1082-1	02h 46m 34.3s	-08° 06' 18"	14.0	Galaxy	0.007x0.005	Eridanus	1082-1
NGC 1133	02h 53m 35.0s	-08° 43' 53"	14.0	Galaxy	0.007x0.005	Eridanus	
IC 1149	02h 58m 19.1s	-00° 14' 15"	14.0	Galaxy	0.005x0.004	Cetus	
NGC 1214	03h 07m 48.4s	-09° 28' 32"	14.0	Galaxy	0.010x0.002	Eridanus	
NGC 1225	03h 09m 41.4s	-04° 02' 01"	14.0	Galaxy	0.008x0.005	Eridanus	
NGC 1298	03h 21m 07.7s	-02° 02' 58"	14.0	Galaxy	0.009x0.006	Eridanus	
NGC 1328	03h 26m 33.0s	-04° 03' 44"	14.0	Galaxy	0.008x0.005	Eridanus	
NGC 1410	03h 42m 05.7s	-01° 14' 30"	14.0	Galaxy	0.005x0.005	Taurus	
IC 1445	03h 45m 48.1s	-09° 48' 01"	14.0	Galaxy	0.007x0.004	Eridanus	
IC 247	02h 41m 00.8s	-11° 39' 24"	14.0	Galaxy	0.01x0.008	Cetus	
IC 317	03h 19m 46.6s	-12° 40' 30"	14.0	Galaxy	0.007x0.005	Eridanus	
IC 1010	02h 38m 27.2s	-10° 56' 53"	14.1	Galaxy	0.006x0.006	Cetus	
IC 1215	03h 08m 02.0s	-09° 31' 27"	14.1	Galaxy	0.015x0.01	Eridanus	
IC 1423	03h 43m 33.2s	-06° 19' 31"	14.1	Galaxy	0.007x0.005	Eridanus	
NGC 1450-1	03h 46m 28.6s	-09° 10' 46"	14.1	Galaxy	0.006x0.005	Eridanus	1450-1
NGC 1467	03h 52m 44.9s	-08° 47' 05"	14.1	Galaxy	0.009x0.005	Eridanus	
IC 1897	03h 11m 37.9s	-10° 43' 42"	14.1	Galaxy	0.004x0.004	Eridanus	
IC 263	02h 50m 35.2s	+00° 00' 15"	14.1	Galaxy	0.005x0.003	Cetus	
IC 330	03h 33m 03.4s	+00° 24' 48"	14.1	Galaxy	0.01x0.0025	Taurus	
NGC 1202	03h 05m 55.8s	-06° 25' 22"	14.2	Galaxy	0.005x0.004	Eridanus	
NGC 1234	03h 10m 31.9s	-07° 46' 41"	14.2	Galaxy	0.015x0.007	Eridanus	
NGC 1314	03h 23m 35.1s	-04° 07' 23"	14.2	Galaxy	0.012x0.011	Eridanus	

Table 124: Main objects visible on chart 117 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1468	03h 53m 05.6s	-06° 17' 45"	14.2	Galaxy	0.01x0.006	Eridanus	
NGC 1477	03h 54m 55.1s	-08° 31' 20"	14.2	Galaxy	0.005x0.004	Eridanus	
IC 243	02h 39m 25.6s	-06° 49' 29"	14.2	Galaxy	0.01x0.006	Cetus	
IC 285	03h 04m 57.9s	-11° 56' 44"	14.2	Galaxy	0.009x0.001	Eridanus	
IC 344	03h 42m 23.2s	-04° 36' 32"	14.2	Galaxy	0.007x0.003	Eridanus	
IC 1011	02h 38m 31.2s	-10° 55' 40"	14.3	Galaxy	0.005x0.005	Cetus	
NGC 1064	02h 43m 16.1s	-09° 17' 13"	14.3	Galaxy	0.009x0.008	Cetus	
IC 1078	02h 45m 00.7s	-09° 22' 35"	14.3	Galaxy	0.007x0.006	Cetus	
IC 1434	03h 47m 04.7s	-09° 37' 41"	14.3	Galaxy	0.006x0.004	Eridanus	
IC 329	03h 32m 56.8s	+00° 20' 25"	14.3	Galaxy	0.007x0.003	Taurus	
IC 1017	02h 38m 42.3s	-10° 55' 60"	14.4	Galaxy	0.005x0.005	Cetus	
IC 1071	02h 44m 00.7s	-08° 41' 54"	14.4	Galaxy	0.01x0.004	Cetus	
IC 1472	03h 54m 39.6s	-08° 30' 57"	14.4	Galaxy	0.005x0.005	Eridanus	
IC 1048	02h 41m 30.9s	-08° 27' 26"	14.5	Galaxy	0.008x0.002	Cetus	
NGC 1048A	02h 41m 28.5s	-08° 28' 17"	14.5	Galaxy	0.005x0.003	Cetus	1048A
NGC 1195	03h 04m 24.4s	-11° 58' 10"	14.5	Galaxy	0.005x0.004	Eridanus	
IC 1206	03h 07m 02.3s	-08° 45' 50"	14.5	Galaxy	0.004x0.004	Eridanus	
NGC 1126	02h 53m 13.7s	-01° 13' 24"	14.6	Galaxy	0.006x0.001	Eridanus	
IC 1364	03h 35m 51.0s	-09° 46' 47"	14.7	Galaxy	0.004x0.004	Eridanus	
IC 1447	03h 46m 39.3s	-08° 57' 47"	14.7	Galaxy	0.008x0.004	Eridanus	
IC 264	02h 49m 43.0s	-00° 02' 04"	14.7	Galaxy	0.003x0.002	Cetus	
IC 287	03h 05m 49.4s	-12° 00' 03"	14.7	Galaxy	0.006x0.003	Eridanus	
IC 1018	02h 39m 03.1s	-09° 28' 01"	14.8	Galaxy	0.008x0.005	Cetus	
IC 1216	03h 08m 10.9s	-09° 32' 39"	14.8	Galaxy	0.006x0.001	Eridanus	
NGC 1478	03h 54m 59.6s	-08° 30' 10"	14.8	Galaxy	0.005x0.002	Eridanus	
IC 306	03h 13m 51.8s	-11° 38' 57"	14.8	Galaxy	0.004x0.002	Eridanus	
NGC 1148	02h 57m 57.4s	-07° 36' 50"	14.9	Galaxy	0.011x0.006	Eridanus	
IC 283	03h 04m 45.8s	-00° 08' 06"	14.9	Galaxy	0.005x0.003	Cetus	
IC 337	03h 37m 14.4s	-06° 39' 23"	14.9	Galaxy	0.013x0.008	Eridanus	
NGC 1450-2	03h 46m 28.3s	-09° 10' 39"	15.0	Galaxy	0.001x0.001	Eridanus	1450-2
IC 352	03h 48m 29.7s	-08° 40' 38"	15.0	Galaxy	0.005x0.003	Eridanus	
NGC 1323	03h 25m 50.4s	-02° 45' 33"	15.1	Galaxy	0.007x0.002	Eridanus	
IC 303	03h 13m 32.5s	-11° 37' 22"	15.2	Galaxy	0.003x0.002	Eridanus	
NGC 1475	03h 54m 42.2s	-08° 05' 07"	15.4	Galaxy	0.005x0.005	Eridanus	
NGC 1082-2	02h 46m 35.6s	-08° 06' 29"	15.5	Galaxy	0.001x0.001	Eridanus	1082-2
IC 325	03h 31m 41.8s	-06° 59' 09"	15.7	Galaxy	0.006x0.006	Eridanus	

7.119 Main objects visible on chart 118

Table 125: Main objects visible on chart 118

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1535	04h 15m 06.3s	-12° 41' 40"	9.6	Planetary Nebula	0.007x0.007	Eridanus	
NGC 1637	04h 42m 22.4s	-02° 49' 27"	10.8	Galaxy	0.027x0.022	Eridanus	
NGC 1600	04h 32m 33.3s	-05° 02' 59"	10.9	Galaxy	0.020x0.014	Eridanus	

Table 125: Main objects visible on chart 118 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1700	04h 57m 49.6s	-04° 50' 18"	11.2	Galaxy	0.027x0.017	Eridanus	
NGC 1453	03h 47m 21.2s	-03° 54' 50"	11.5	Galaxy	0.02x0.015	Eridanus	
NGC 1587	04h 31m 35.6s	+00° 42' 01"	11.7	Galaxy	0.014x0.011	Taurus	
NGC 1723	05h 00m 16.8s	-10° 57' 16"	11.7	Galaxy	0.021x0.015	Eridanus	
NGC 1726	05h 00m 34.1s	-07° 43' 45"	11.7	Galaxy	0.014x0.011	Eridanus	
NGC 1638	04h 42m 31.0s	-01° 46' 30"	12.0	Galaxy	0.015x0.01	Eridanus	
NGC 1653	04h 46m 41.9s	-02° 21' 40"	12.0	Galaxy	0.012x0.012	Eridanus	
NGC 1684	04h 53m 25.2s	-03° 04' 36"	12.0	Galaxy	0.018x0.014	Orion	
NGC 1417	03h 42m 50.9s	-04° 38' 55"	12.1	Galaxy	0.019x0.01	Eridanus	
NGC 1667	04h 49m 29.8s	-06° 17' 23"	12.1	Galaxy	0.011x0.008	Eridanus	
NGC 1507	04h 05m 21.8s	-02° 08' 25"	12.3	Galaxy	0.03x0.008	Eridanus	
NGC 1620	04h 37m 32.5s	-00° 06' 31"	12.3	Galaxy	0.024x0.008	Eridanus	
IC 1625	04h 38m 00.4s	-03° 16' 07"	12.3	Galaxy	0.017x0.004	Eridanus	
NGC 1635	04h 41m 03.0s	-00° 30' 47"	12.4	Galaxy	0.011x0.010	Eridanus	
NGC 1646-1	04h 45m 15.4s	-08° 29' 57"	12.4	Galaxy	0.018x0.010	Eridanus	1646-1
NGC 1720	05h 00m 12.7s	-07° 49' 59"	12.4	Galaxy	0.016x0.01	Eridanus	
NGC 1622	04h 37m 30.7s	-03° 09' 10"	12.5	Galaxy	0.030x0.005	Eridanus	
NGC 1659	04h 47m 23.4s	-04° 45' 26"	12.5	Galaxy	0.012x0.009	Eridanus	
NGC 1577	04h 27m 11.9s	-10° 03' 33"	12.6	Galaxy	0.012x0.010	Eridanus	
NGC 1642	04h 43m 50.5s	+00° 39' 06"	12.6	Galaxy	0.014x0.01	Taurus	
NGC 1666	04h 49m 25.5s	-06° 32' 20"	12.6	Galaxy	0.011x0.009	Eridanus	
NGC 1618	04h 37m 00.7s	-03° 06' 47"	12.7	Galaxy	0.02x0.006	Eridanus	
NGC 1713	04h 59m 49.9s	-00° 27' 45"	12.7	Galaxy	0.011x0.01	Orion	
NGC 1627	04h 38m 31.3s	-04° 51' 11"	12.8	Galaxy	0.013x0.012	Eridanus	
NGC 1665	04h 49m 10.2s	-05° 23' 48"	12.8	Galaxy	0.015x0.009	Eridanus	
NGC 1670	04h 50m 36.9s	-02° 43' 48"	12.8	Galaxy	0.010x0.005	Orion	
NGC 1721	05h 00m 08.2s	-11° 05' 32"	12.8	Galaxy	0.015x0.008	Eridanus	
NGC 1725	05h 00m 13.7s	-11° 06' 21"	12.8	Galaxy	0.01x0.008	Eridanus	
IC 382	04h 38m 47.0s	-09° 29' 05"	12.8	Galaxy	0.019x0.011	Eridanus	
IC 387	04h 42m 36.7s	-07° 03' 11"	12.8	Galaxy	0.013x0.01	Eridanus	
NGC 1441	03h 46m 36.9s	-04° 02' 11"	12.9	Galaxy	0.014x0.005	Eridanus	
NGC 1552	04h 21m 12.7s	-00° 39' 02"	12.9	Galaxy	0.015x0.01	Eridanus	
NGC 1588	04h 31m 39.3s	+00° 42' 11"	12.9	Galaxy	0.009x0.005	Taurus	
NGC 1614	04h 34m 51.8s	-08° 32' 33"	12.9	Galaxy	0.010x0.007	Eridanus	
NGC 1656	04h 46m 46.6s	-05° 06' 17"	12.9	Galaxy	0.012x0.008	Eridanus	
NGC 1671	04h 50m 29.3s	+00° 17' 00"	12.9	Galaxy	0.007x0.005	Orion	
NGC 1681	04h 52m 43.1s	-05° 46' 26"	12.9	Galaxy	0.010x0.01	Eridanus	
NGC 1594	04h 31m 44.6s	-05° 45' 36"	13.0	Galaxy	0.015x0.010	Eridanus	
NGC 1636	04h 41m 32.1s	-08° 34' 26"	13.0	Galaxy	0.01x0.0075	Eridanus	
NGC 1645	04h 44m 59.5s	-05° 25' 57"	13.0	Galaxy	0.017x0.007	Eridanus	
IC 347	03h 43m 26.4s	-04° 14' 32"	13.0	Galaxy	0.01x0.0075	Eridanus	
NGC 1586	04h 31m 33.4s	-00° 16' 03"	13.2	Galaxy	0.014x0.007	Eridanus	
NGC 1607	04h 32m 56.7s	-04° 25' 24"	13.2	Galaxy	0.008x0.003	Eridanus	
NGC 1661	04h 48m 02.2s	-02° 01' 26"	13.2	Galaxy	0.011x0.007	Orion	
NGC 1678	04h 52m 29.7s	-02° 35' 37"	13.2	Galaxy	0.009x0.006	Orion	
IC 362	04h 17m 33.1s	-12° 09' 22"	13.2	Galaxy	0.014x0.009	Eridanus	

Table 125: Main objects visible on chart 118 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1576	04h 27m 12.7s	-03° 34' 52"	13.3	Galaxy	0.009x0.005	Eridanus	
NGC 1643	04h 44m 37.1s	-05° 17' 11"	13.3	Galaxy	0.01x0.009	Eridanus	
NGC 1449	03h 46m 56.9s	-04° 04' 59"	13.4	Galaxy	0.006x0.004	Eridanus	
NGC 1451	03h 47m 01.0s	-04° 00' 51"	13.4	Galaxy	0.006x0.004	Eridanus	
NGC 1593	04h 33m 01.7s	+00° 36' 18"	13.4	Galaxy	0.013x0.005	Taurus	
IC 1611	04h 33m 59.5s	-04° 15' 36"	13.4	Galaxy	0.016x0.005	Eridanus	
IC 1612	04h 34m 06.8s	-04° 08' 06"	13.4	Galaxy	0.010x0.008	Eridanus	
IC 1628	04h 38m 29.6s	-04° 40' 51"	13.4	Galaxy	0.015x0.003	Eridanus	
IC 1654	04h 46m 42.9s	-02° 03' 06"	13.4	Galaxy	0.006x0.006	Eridanus	
NGC 1580	04h 29m 11.8s	-05° 08' 25"	13.5	Galaxy	0.007x0.006	Eridanus	
IC 1609	04h 33m 38.7s	-04° 20' 06"	13.5	Galaxy	0.009x0.005	Eridanus	
NGC 1682	04h 53m 13.8s	-03° 04' 35"	13.5	Galaxy	0.007x0.007	Orion	
IC 385	04h 40m 23.9s	-07° 03' 46"	13.5	Galaxy	0.01x0.004	Eridanus	
NGC 1418	03h 43m 09.9s	-04° 40' 31"	13.6	Galaxy	0.008x0.005	Eridanus	
NGC 1626	04h 37m 18.4s	-04° 57' 04"	13.6	Galaxy	0.011x0.006	Eridanus	
NGC 1470	03h 53m 01.9s	-08° 56' 50"	13.7	Galaxy	0.010x0.002	Eridanus	
NGC 1505	04h 03m 28.2s	-09° 16' 23"	13.7	Galaxy	0.007x0.005	Eridanus	
NGC 1509	04h 04m 46.3s	-11° 07' 49"	13.7	Galaxy	0.007x0.005	Eridanus	
NGC 1599	04h 32m 32.4s	-04° 33' 04"	13.7	Galaxy	0.007x0.006	Eridanus	
NGC 1604	04h 32m 51.8s	-05° 19' 55"	13.7	Galaxy	0.008x0.005	Eridanus	
IC 1613	04h 34m 19.0s	-04° 13' 42"	13.7	Galaxy	0.008x0.006	Eridanus	CALDWELL 51
IC 2098	04h 51m 37.4s	-05° 23' 19"	13.7	Galaxy	0.017x0.002	Eridanus	
IC 2101	04h 52m 34.8s	-06° 12' 05"	13.7	Galaxy	0.014x0.003	Eridanus	
IC 368	04h 23m 33.2s	-12° 34' 25"	13.7	Galaxy	0.007x0.006	Eridanus	
NGC 1424	03h 44m 07.7s	-04° 40' 27"	13.8	Galaxy	0.013x0.005	Eridanus	
IC 1525	04h 09m 00.3s	-08° 47' 16"	13.8	Galaxy	0.007x0.005	Eridanus	
IC 1601	04h 32m 35.1s	-05° 01' 20"	13.8	Galaxy	0.005x0.002	Eridanus	
NGC 1603	04h 32m 43.3s	-05° 03' 23"	13.8	Galaxy	0.006x0.004	Eridanus	
IC 1657	04h 47m 01.8s	-02° 02' 43"	13.8	Galaxy	0.01x0.006	Eridanus	
IC 2102	04h 52m 48.6s	-04° 55' 23"	13.8	Galaxy	0.01x0.0075	Eridanus	
IC 350	03h 45m 27.8s	-11° 44' 43"	13.8	Galaxy	0.01x0.006	Eridanus	
NGC 1597	04h 32m 04.3s	-11° 15' 08"	13.9	Galaxy	0.007x0.005	Eridanus	
NGC 1699	04h 57m 52.9s	-04° 43' 49"	13.9	Galaxy	0.007x0.004	Eridanus	
IC 1728	05h 00m 18.6s	-11° 05' 50"	13.9	Galaxy	0.016x0.005	Eridanus	
IC 373	04h 31m 36.2s	-04° 49' 55"	13.9	Galaxy	0.011x0.007	Eridanus	
IC 377	04h 32m 06.9s	-12° 25' 02"	13.9	Galaxy	0.007x0.007	Eridanus	
IC 389	04h 42m 52.0s	-07° 16' 39"	13.9	Galaxy	0.007x0.005	Eridanus	
IC 1445	03h 45m 48.1s	-09° 48' 01"	14.0	Galaxy	0.007x0.004	Eridanus	
NGC 1568A	04h 25m 15.7s	-00° 41' 51"	14.0	Galaxy	0.004x0.003	Eridanus	1568A
IC 2099	04h 51m 45.3s	-04° 51' 44"	14.0	Galaxy	0.009x0.003	Eridanus	
IC 370	04h 24m 53.5s	-09° 21' 17"	14.0	Galaxy	0.011x0.009	Eridanus	
IC 1423	03h 43m 33.2s	-06° 19' 31"	14.1	Galaxy	0.007x0.005	Eridanus	
NGC 1450-1	03h 46m 28.6s	-09° 10' 46"	14.1	Galaxy	0.006x0.005	Eridanus	1450-1
NGC 1467	03h 52m 44.9s	-08° 47' 05"	14.1	Galaxy	0.009x0.005	Eridanus	
NGC 1685	04h 53m 28.4s	-02° 55' 15"	14.1	Galaxy	0.010x0.007	Orion	
IC 379	04h 32m 43.4s	-07° 12' 01"	14.1	Galaxy	0.01x0.006	Eridanus	

Table 125: Main objects visible on chart 118 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1468	03h 53m 05.6s	-06° 17' 45"	14.2	Galaxy	0.01x0.006	Eridanus	
NGC 1477	03h 54m 55.1s	-08° 31' 20"	14.2	Galaxy	0.005x0.004	Eridanus	
NGC 1717	04h 59m 39.2s	-00° 27' 05"	14.2	Galaxy	0.007x0.005	Orion	
IC 2094	04h 49m 18.0s	-05° 19' 19"	14.2	Galaxy	0.006x0.002	Eridanus	
IC 1434	03h 47m 04.7s	-09° 37' 41"	14.3	Galaxy	0.006x0.004	Eridanus	
IC 1694	04h 56m 10.3s	-04° 37' 28"	14.3	Galaxy	0.01x0.005	Eridanus	
IC 369	04h 24m 19.0s	-11° 44' 55"	14.3	Galaxy	0.004x0.004	Eridanus	
IC 390	04h 42m 56.3s	-07° 10' 21"	14.3	Galaxy	0.009x0.003	Eridanus	
IC 1472	03h 54m 39.6s	-08° 30' 57"	14.4	Galaxy	0.005x0.005	Eridanus	
IC 1504	04h 03m 21.5s	-09° 17' 10"	14.4	Galaxy	0.005x0.004	Eridanus	
NGC 1632	04h 40m 50.1s	-09° 25' 18"	14.4	Galaxy	0.008x0.005	Eridanus	
IC 384	04h 40m 10.5s	-07° 48' 16"	14.5	Galaxy	0.005x0.003	Eridanus	
NGC 1516A	04h 08m 59.6s	-08° 46' 57"	14.6	Galaxy	0.011x0.007	Eridanus	1516A
IC 1648	04h 45m 26.7s	-08° 26' 46"	14.6	Galaxy	0.005x0.004	Eridanus	
IC 378	04h 32m 18.4s	-12° 15' 42"	14.6	Galaxy	0.005x0.003	Eridanus	
IC 1447	03h 46m 39.3s	-08° 57' 47"	14.7	Galaxy	0.008x0.004	Eridanus	
IC 1683	04h 53m 11.6s	-02° 59' 43"	14.7	Galaxy	0.008x0.003	Orion	
IC 376	04h 32m 04.1s	-12° 23' 43"	14.7	Galaxy	0.005x0.003	Eridanus	
IC 398	04h 59m 04.7s	-07° 45' 16"	14.7	Galaxy	0.010x0.003	Eridanus	
NGC 1478	03h 54m 59.6s	-08° 30' 10"	14.8	Galaxy	0.005x0.002	Eridanus	
IC 2080	04h 32m 45.2s	-05° 43' 10"	14.8	Galaxy	0.004x0.003	Eridanus	
NGC 1606	04h 32m 56.7s	-04° 59' 41"	14.9	Galaxy	0.004x0.004	Eridanus	
NGC 1450-2	03h 46m 28.3s	-09° 10' 39"	15.0	Galaxy	0.001x0.001	Eridanus	1450-2
NGC 1646-2	04h 45m 15.7s	-08° 30' 10"	15.0	Galaxy	0.002x0.002	Eridanus	1646-2
IC 2031	04h 07m 08.0s	-05° 36' 16"	15.0	Galaxy	0.004x0.004	Eridanus	
IC 352	03h 48m 29.7s	-08° 40' 38"	15.0	Galaxy	0.005x0.003	Eridanus	
IC 372	04h 30m 57.6s	-04° 58' 19"	15.0	Galaxy	0.005x0.001	Eridanus	
IC 388-2	04h 42m 46.8s	-07° 16' 21"	15.0	Galaxy	0.003x0.003	Eridanus	IC 388-2
NGC 1568B	04h 25m 20.4s	-00° 42' 21"	15.1	Galaxy	0.009x0.006	Eridanus	1568B
IC 2095	04h 49m 39.1s	-05° 05' 40"	15.2	Galaxy	0.011x0.001	Eridanus	
IC 2097	04h 51m 17.1s	-05° 03' 04"	15.2	Galaxy	0.01x0.003	Eridanus	
IC 388-1	04h 42m 44.9s	-07° 16' 15"	15.2	Galaxy	0.002x0.002	Eridanus	IC 388-1
NGC 1475	03h 54m 42.2s	-08° 05' 07"	15.4	Galaxy	0.005x0.005	Eridanus	
PGC 3084954	04h 45m 18.1s	-08° 30' 11"	15.8	Galaxy	0.003x0.001	Eridanus	1646-3

7.120 Main objects visible on chart 119

Table 126: Main objects visible on chart 119

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Cr70	05h 36m 54.9s	-01° 05' 23"	0.6	Open cluster	1.25x0.583	Orion	
NGC 1976	05h 36m 10.2s	-05° 22' 47"	4.0	Nebula	0.333x0.291	Orion	M42, Orion nebula
NGC 1981	05h 36m 05.5s	-04° 25' 22"	4.2	Open cluster	0.233x0.233	Orion	
NGC 2112	05h 54m 40.7s	+00° 24' 48"	9.1	Open cluster	0.15x0.15	Orion	
IC 418	05h 28m 18.3s	-12° 40' 58"	9.3	Planetary Nebula	0.001x0.001	Lepus	

Table 126: Main objects visible on chart 119 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1700	04h 57m 49.6s	-04° 50' 18"	11.2	Galaxy	0.027x0.017	Eridanus	
NGC 1723	05h 00m 16.8s	-10° 57' 16"	11.7	Galaxy	0.021x0.015	Eridanus	
NGC 1726	05h 00m 34.1s	-07° 43' 45"	11.7	Galaxy	0.014x0.011	Eridanus	
NGC 1784	05h 06m 17.5s	-11° 50' 52"	11.7	Galaxy	0.034x0.021	Lepus	
NGC 1888	05h 23m 24.9s	-11° 29' 03"	11.9	Galaxy	0.025x0.006	Lepus	
NGC 1684	04h 53m 25.2s	-03° 04' 36"	12.0	Galaxy	0.018x0.014	Orion	
NGC 1667	04h 49m 29.8s	-06° 17' 23"	12.1	Galaxy	0.011x0.008	Eridanus	
NGC 1779	05h 06m 09.6s	-09° 07' 27"	12.1	Galaxy	0.020x0.011	Eridanus	
NGC 1720	05h 00m 12.7s	-07° 49' 59"	12.4	Galaxy	0.016x0.01	Eridanus	
NGC 1752	05h 03m 01.6s	-08° 12' 58"	12.4	Galaxy	0.021x0.006	Eridanus	
NGC 1924	05h 28m 55.0s	-05° 17' 48"	12.5	Galaxy	0.013x0.01	Orion	
NGC 2110	05h 53m 03.4s	-07° 27' 11"	12.5	Galaxy	0.014x0.01	Orion	
IC 401	05h 05m 11.0s	-10° 03' 06"	12.5	Galaxy	0.014x0.005	Eridanus	
NGC 1666	04h 49m 25.5s	-06° 32' 20"	12.6	Galaxy	0.011x0.009	Eridanus	
NGC 1713	04h 59m 49.9s	-00° 27' 45"	12.7	Galaxy	0.011x0.01	Orion	
NGC 1843	05h 14m 57.0s	-10° 36' 25"	12.7	Galaxy	0.017x0.014	Orion	
NGC 1665	04h 49m 10.2s	-05° 23' 48"	12.8	Galaxy	0.015x0.009	Eridanus	
NGC 1670	04h 50m 36.9s	-02° 43' 48"	12.8	Galaxy	0.010x0.005	Orion	
NGC 1721	05h 00m 08.2s	-11° 05' 32"	12.8	Galaxy	0.015x0.008	Eridanus	
NGC 1725	05h 00m 13.7s	-11° 06' 21"	12.8	Galaxy	0.01x0.008	Eridanus	
NGC 1671	04h 50m 29.3s	+00° 17' 00"	12.9	Galaxy	0.007x0.005	Orion	
NGC 1681	04h 52m 43.1s	-05° 46' 26"	12.9	Galaxy	0.010x0.01	Eridanus	
IC 1729	05h 01m 09.6s	-03° 19' 39"	12.9	Galaxy	0.014x0.011	Orion	
NGC 1740	05h 02m 48.7s	-03° 16' 15"	12.9	Galaxy	0.0125x0.01	Orion	
NGC 1889	05h 23m 25.8s	-11° 28' 51"	13.1	Galaxy	0.005x0.003	Lepus	
NGC 1678	04h 52m 29.7s	-02° 35' 37"	13.2	Galaxy	0.009x0.006	Orion	
IC 433	05h 41m 21.5s	-11° 39' 25"	13.2	Galaxy	0.005x0.005	Lepus	
NGC 1682	04h 53m 13.8s	-03° 04' 35"	13.5	Galaxy	0.007x0.007	Orion	
NGC 1797	05h 08m 37.0s	-07° 59' 47"	13.5	Galaxy	0.013x0.008	Eridanus	
IC 1719	05h 00m 29.8s	-00° 14' 05"	13.6	Galaxy	0.009x0.002	Orion	
NGC 1799	05h 08m 36.6s	-07° 56' 47"	13.7	Galaxy	0.009x0.005	Eridanus	
IC 2098	04h 51m 37.4s	-05° 23' 19"	13.7	Galaxy	0.017x0.002	Eridanus	
IC 2101	04h 52m 34.8s	-06° 12' 05"	13.7	Galaxy	0.014x0.003	Eridanus	
IC 402	05h 07m 06.3s	-09° 05' 03"	13.7	Galaxy	0.019x0.012	Eridanus	
IC 441	06h 03m 32.7s	-12° 30' 04"	13.7	Galaxy	0.011x0.01	Lepus	
IC 2102	04h 52m 48.6s	-04° 55' 23"	13.8	Galaxy	0.01x0.0075	Eridanus	
NGC 1699	04h 57m 52.9s	-04° 43' 49"	13.9	Galaxy	0.007x0.004	Eridanus	
IC 1728	05h 00m 18.6s	-11° 05' 50"	13.9	Galaxy	0.016x0.005	Eridanus	
IC 2099	04h 51m 45.3s	-04° 51' 44"	14.0	Galaxy	0.009x0.003	Eridanus	
NGC 1685	04h 53m 28.4s	-02° 55' 15"	14.1	Galaxy	0.010x0.007	Orion	
NGC 1717	04h 59m 39.2s	-00° 27' 05"	14.2	Galaxy	0.007x0.005	Orion	
IC 2094	04h 49m 18.0s	-05° 19' 19"	14.2	Galaxy	0.006x0.002	Eridanus	
IC 421	05h 33m 00.5s	-07° 54' 21"	14.2	Galaxy	0.027x0.024	Orion	
IC 1694	04h 56m 10.3s	-04° 37' 28"	14.3	Galaxy	0.01x0.005	Eridanus	
IC 1753	05h 03m 26.2s	-03° 19' 12"	14.5	Galaxy	0.011x0.005	Orion	
IC 437	05h 52m 27.3s	-12° 33' 39"	14.5	Galaxy	0.007x0.003	Lepus	

Table 126: Main objects visible on chart 119 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1741B	05h 02m 29.0s	-04° 14' 18"	14.6	Galaxy	0.007x0.004	Eridanus	1741B
IC 1683	04h 53m 11.6s	-02° 59' 43"	14.7	Galaxy	0.008x0.003	Orion	
IC 398	04h 59m 04.7s	-07° 45' 16"	14.7	Galaxy	0.010x0.003	Eridanus	
NGC 1741A	05h 02m 32.3s	-04° 14' 02"	15.0	Galaxy	0.007x0.002	Eridanus	1741A
IC 2095	04h 49m 39.1s	-05° 05' 40"	15.2	Galaxy	0.011x0.001	Eridanus	
IC 2097	04h 51m 17.1s	-05° 03' 04"	15.2	Galaxy	0.01x0.003	Eridanus	
IC 399	05h 02m 37.6s	-04° 15' 48"	15.4	Galaxy	0.005x0.003	Eridanus	
NGC 1982	05h 36m 24.5s	-05° 15' 25"	-	Nebula	0.166x0.125	Orion	M43
NGC 2068	05h 47m 40.4s	+00° 05' 08"	-	Nebula	0.066x0.05	Orion	M78

7.121 Main objects visible on chart 120

Table 127: Main objects visible on chart 120

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2232	06h 28m 08.4s	-04° 46' 13"	4.2	Open cluster	0.375x0.375	Monoceros	
NGC 2323	07h 03m 39.7s	-08° 24' 11"	5.9	Open cluster	0.125x0.125	Monoceros	M50
NGC 2301	06h 52m 40.7s	+00° 26' 12"	6.0	Open cluster	0.125x0.125	Monoceros	
NGC 2343	07h 08m 57.7s	-10° 38' 46"	6.7	Open cluster	0.05x0.05	Monoceros	
NGC 2335	07h 07m 40.7s	-10° 03' 27"	7.2	Open cluster	0.058x0.058	Monoceros	
NGC 2286	06h 48m 34.2s	-03° 10' 07"	7.5	Open cluster	0.125x0.125	Monoceros	
NGC 2215	06h 21m 41.5s	-07° 17' 35"	8.4	Open cluster	0.066x0.066	Monoceros	
NGC 2250	06h 34m 43.0s	-05° 05' 58"	8.9	Open cluster	0.083x0.083	Monoceros	
NGC 2302	06h 52m 49.0s	-07° 06' 26"	8.9	Open cluster	0.020x0.020	Monoceros	
NGC 2219	06h 24m 37.7s	-04° 41' 14"	9.0	Open cluster	0.083x0.083	Monoceros	
NGC 2260	06h 38m 57.7s	-01° 29' 20"	9.0	Open cluster	0.166x0.166	Monoceros	
NGC 2112	05h 54m 40.7s	+00° 24' 48"	9.1	Open cluster	0.15x0.15	Orion	
NGC 2311	06h 58m 41.0s	-04° 38' 12"	9.6	Open cluster	0.058x0.058	Monoceros	
NGC 2306	06h 55m 21.9s	-07° 13' 21"	10.0	Open cluster	0.0x0.0	Monoceros	
NGC 2309	06h 56m 56.0s	-07° 11' 56"	10.5	Open cluster	0.041x0.041	Monoceros	
NGC 2346	07h 10m 17.5s	-00° 50' 10"	11.6	Planetary Nebula	0.007x0.007	Monoceros	Butterfly nebula
NGC 2225	06h 27m 28.3s	-09° 39' 12"	13.0	Open cluster	0.333x0.333	Monoceros	
NGC 2226	06h 27m 28.8s	-09° 39' 14"	13.0	Open cluster	0.006x0.006	Monoceros	
IC 441	06h 03m 32.7s	-12° 30' 04"	13.7	Galaxy	0.011x0.01	Lepus	

7.122 Main objects visible on chart 121

Table 128: Main objects visible on chart 121

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2548	08h 14m 36.4s	-05° 48' 21"	5.8	Open cluster	0.25x0.25	Hydra	M48
NGC 2323	07h 03m 39.7s	-08° 24' 11"	5.9	Open cluster	0.125x0.125	Monoceros	M50
NGC 2343	07h 08m 57.7s	-10° 38' 46"	6.7	Open cluster	0.05x0.05	Monoceros	

Table 128: Main objects visible on chart 121 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2353	07h 15m 21.5s	-10° 17' 53"	7.1	Open cluster	0.15x0.15	Monoceros	
NGC 2335	07h 07m 40.7s	-10° 03' 27"	7.2	Open cluster	0.058x0.058	Monoceros	
NGC 2396	07h 28m 50.7s	-11° 45' 16"	7.4	Open cluster	0.083x0.083	Puppis	
NGC 2506	08h 00m 53.1s	-10° 49' 12"	7.6	Open cluster	0.1x0.1	Monoceros	CALDWELL 54
Mel71	07h 38m 08.7s	-12° 08' 29"	8.9	Open cluster	0.066x0.066	Puppis	
Mel72	07h 39m 15.2s	-10° 43' 31"	10.0	Open cluster	0.083x0.083	Monoceros	
NGC 2346	07h 10m 17.5s	-00° 50' 10"	11.6	Planetary Nebula	0.007x0.007	Monoceros	Butterfly nebula
NGC 2525	08h 06m 29.2s	-11° 28' 48"	11.6	Galaxy	0.025x0.016	Puppis	
NGC 2368	07h 21m 53.4s	-10° 24' 34"	11.8	Open cluster	0.025x0.025	Monoceros	
NGC 2517	08h 03m 37.8s	-12° 22' 07"	11.8	Galaxy	0.011x0.008	Puppis	
NGC 2377	07h 25m 48.2s	-09° 41' 49"	12.7	Galaxy	0.014x0.010	Monoceros	
NGC 2494	08h 00m 02.3s	-00° 41' 15"	13.1	Galaxy	0.007x0.005	Monoceros	
NGC 2364	07h 21m 38.8s	-07° 35' 03"	14.9	Open cluster	0.0x0.0	Monoceros	

7.123 Main objects visible on chart 122

Table 129: Main objects visible on chart 122

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2548	08h 14m 36.4s	-05° 48' 21"	5.8	Open cluster	0.25x0.25	Hydra	M48
NGC 2525	08h 06m 29.2s	-11° 28' 48"	11.6	Galaxy	0.025x0.016	Puppis	
NGC 2855	09h 22m 19.6s	-11° 59' 15"	11.7	Galaxy	0.020x0.018	Hydra	
NGC 2695	08h 55m 21.4s	-03° 08' 10"	11.9	Galaxy	0.014x0.01	Hydra	
NGC 2708	08h 57m 02.2s	-03° 25' 49"	12.0	Galaxy	0.022x0.011	Hydra	
NGC 2618	08h 36m 49.1s	+00° 38' 41"	12.1	Galaxy	0.020x0.016	Hydra	
NGC 2555	08h 18m 51.9s	+00° 41' 17"	12.2	Galaxy	0.015x0.011	Hydra	
NGC 2721	08h 59m 50.4s	-04° 58' 19"	12.2	Galaxy	0.02x0.013	Hydra	
IC 2574	08h 21m 40.4s	-08° 58' 35"	12.3	Galaxy	0.019x0.01	Hydra	Coddington nebula
NGC 2697	08h 55m 53.7s	-03° 03' 26"	12.3	Galaxy	0.015x0.009	Hydra	
NGC 2615	08h 35m 27.6s	-02° 36' 36"	12.5	Galaxy	0.015x0.009	Hydra	
NGC 2616	08h 36m 28.7s	-01° 54' 50"	12.5	Galaxy	0.009x0.007	Hydra	
NGC 2642	08h 41m 38.4s	-04° 11' 13"	12.6	Galaxy	0.016x0.015	Hydra	
NGC 2698	08h 56m 30.8s	-03° 15' 14"	12.6	Galaxy	0.012x0.004	Hydra	
NGC 2699	08h 56m 43.2s	-03° 11' 49"	12.6	Galaxy	0.009x0.008	Hydra	
NGC 2722	08h 59m 40.3s	-03° 46' 49"	12.7	Galaxy	0.016x0.010	Hydra	
NGC 2706	08h 57m 06.9s	-02° 37' 59"	13.0	Galaxy	0.015x0.005	Hydra	
NGC 2817	09h 18m 04.6s	-04° 49' 44"	13.0	Galaxy	0.016x0.014	Hydra	
IC 513	08h 33m 56.2s	-12° 25' 02"	13.0	Galaxy	0.009x0.005	Hydra	
NGC 2590	08h 25m 57.1s	-00° 39' 02"	13.1	Galaxy	0.018x0.005	Hydra	
NGC 2690	08h 53m 32.5s	-02° 40' 20"	13.1	Galaxy	0.015x0.004	Hydra	
NGC 2696	08h 51m 35.8s	-05° 04' 39"	13.3	Galaxy	0.010x0.010	Hydra	
NGC 2583	08h 24m 01.5s	-05° 03' 41"	13.4	Galaxy	0.007x0.007	Hydra	
IC 531	09h 18m 46.1s	-00° 21' 16"	13.5	Galaxy	0.014x0.004	Hydra	
NGC 2585	08h 24m 19.9s	-04° 58' 27"	13.6	Galaxy	0.015x0.006	Hydra	
NGC 2709	08h 57m 07.2s	-03° 18' 44"	13.7	Galaxy	0.006x0.005	Hydra	

Table 129: Main objects visible on chart 122 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2584	08h 24m 09.1s	-05° 01' 47"	13.8	Galaxy	0.01x0.005	Hydra	
NGC 2617	08h 36m 32.9s	-04° 09' 03"	13.8	Galaxy	0.009x0.006	Hydra	
IC 510	08h 33m 05.5s	-02° 13' 27"	13.9	Galaxy	0.009x0.006	Hydra	
IC 514	08h 36m 17.0s	-02° 06' 36"	14.1	Galaxy	0.002x0.001	Hydra	
IC 525	09h 02m 17.3s	-01° 55' 28"	14.1	Galaxy	0.008x0.002	Hydra	
NGC 2850	09h 21m 50.9s	-05° 00' 60"	14.2	Galaxy	0.007x0.005	Hydra	
IC 517	08h 37m 16.7s	-02° 07' 08"	14.6	Galaxy	0.003x0.002	Hydra	
IC 515	08h 36m 25.9s	-01° 57' 49"	14.7	Galaxy	0.005x0.003	Hydra	
IC 533	09h 21m 17.6s	-04° 04' 06"	14.7	Galaxy	0.008x0.002	Hydra	
IC 516	08h 36m 45.5s	-01° 56' 03"	14.9	Galaxy	0.004x0.002	Hydra	

7.124 Main objects visible on chart 123

Table 130: Main objects visible on chart 123

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3115	10h 06m 07.9s	-07° 48' 22"	8.9	Galaxy	0.06x0.02	Sextans	CALDWELL 53, Spindle galaxy
NGC 2974	09h 43m 27.7s	-03° 46' 55"	10.9	Galaxy	0.028x0.017	Sextans	
IC 2482	09h 27m 51.4s	-12° 11' 14"	11.5	Galaxy	0.019x0.013	Hydra	
NGC 2967	09h 42m 58.7s	+00° 15' 12"	11.6	Galaxy	0.025x0.023	Sextans	
NGC 2855	09h 22m 19.6s	-11° 59' 15"	11.7	Galaxy	0.020x0.018	Hydra	
NGC 2889	09h 28m 04.8s	-11° 43' 20"	11.7	Galaxy	0.019x0.015	Hydra	
NGC 3145	10h 11m 02.8s	-12° 31' 24"	11.7	Galaxy	0.025x0.013	Hydra	
NGC 2947	09h 36m 58.0s	-12° 31' 04"	12.1	Galaxy	0.012x0.011	Hydra	
NGC 3122	10h 04m 55.9s	-06° 33' 45"	12.2	Galaxy	0.013x0.006	Sextans	
NGC 2979	09h 44m 01.5s	-10° 27' 58"	12.3	Galaxy	0.012x0.008	Sextans	
NGC 3023-1	09h 50m 48.1s	+00° 32' 03"	12.3	Galaxy	0.025x0.011	Sextans	3023-1
NGC 3035	09h 52m 48.7s	-06° 54' 28"	12.4	Galaxy	0.014x0.011	Sextans	
IC 600	10h 18m 05.4s	-03° 35' 15"	12.4	Galaxy	0.02x0.01	Sextans	
NGC 2884	09h 27m 16.8s	-11° 38' 03"	12.6	Galaxy	0.017x0.008	Hydra	
NGC 3090	10h 01m 24.9s	-03° 03' 20"	12.6	Galaxy	0.014x0.011	Sextans	
NGC 3243	10h 27m 16.2s	-02° 42' 51"	12.7	Galaxy	0.011x0.009	Sextans	
NGC 2978	09h 44m 09.7s	-09° 49' 45"	12.8	Galaxy	0.009x0.007	Sextans	
NGC 2863	09h 24m 29.1s	-10° 30' 39"	12.9	Galaxy	0.008x0.007	Hydra	
NGC 3042	09h 54m 15.7s	+00° 36' 45"	12.9	Galaxy	0.01x0.005	Sextans	
NGC 2817	09h 18m 04.6s	-04° 49' 44"	13.0	Galaxy	0.016x0.014	Hydra	
IC 2980	09h 44m 05.0s	-09° 41' 44"	13.0	Galaxy	0.013x0.006	Sextans	
NGC 2876	09h 26m 07.4s	-06° 47' 42"	13.1	Galaxy	0.014x0.009	Hydra	
IC 2969	09h 42m 47.8s	-08° 41' 10"	13.1	Galaxy	0.011x0.01	Sextans	
NGC 3017	09h 49m 57.7s	-02° 54' 21"	13.1	Galaxy	0.008x0.008	Sextans	
IC 537	09h 26m 14.5s	-12° 28' 10"	13.1	Galaxy	0.01x0.009	Hydra	
NGC 2881-1	09h 26m 46.9s	-12° 04' 27"	13.2	Galaxy	0.009x0.007	Hydra	2881-1
NGC 3022	09h 50m 33.4s	-05° 15' 03"	13.2	Galaxy	0.013x0.013	Sextans	
NGC 3047A	09h 55m 24.6s	-01° 22' 24"	13.2	Galaxy	0.003x0.002	Sextans	3047A
IC 575	09h 55m 26.7s	-06° 56' 34"	13.2	Galaxy	0.01x0.006	Sextans	

Table 130: Main objects visible on chart 123 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2881-2	09h 26m 45.9s	-12° 04' 16"	13.3	Galaxy	0.006x0.005	Hydra	2881-2
NGC 3018	09h 50m 37.1s	+00° 32' 18"	13.3	Galaxy	0.01x0.005	Sextans	
NGC 3030	09h 51m 03.1s	-12° 18' 38"	13.3	Galaxy	0.008x0.007	Hydra	
NGC 3092	10h 01m 42.1s	-03° 05' 57"	13.3	Galaxy	0.010x0.005	Sextans	
IC 560	09h 46m 48.7s	-00° 21' 07"	13.3	Galaxy	0.010x0.005	Sextans	
IC 609	10h 26m 30.4s	-02° 18' 22"	13.3	Galaxy	0.012x0.005	Sextans	
NGC 3007	09h 48m 39.4s	-06° 31' 19"	13.4	Galaxy	0.010x0.004	Sextans	
IC 539	09h 30m 02.9s	-02° 37' 42"	13.4	Galaxy	0.008x0.007	Hydra	
IC 587	10h 04m 00.1s	-02° 29' 14"	13.4	Galaxy	0.010x0.005	Sextans	
IC 592	10h 08m 53.6s	-02° 35' 15"	13.4	Galaxy	0.006x0.005	Sextans	
NGC 3058	09h 54m 28.7s	-12° 34' 04"	13.5	Galaxy	0.010x0.005	Hydra	
NGC 3139	10h 10m 58.1s	-11° 52' 00"	13.5	Galaxy	0.012x0.010	Hydra	
IC 531	09h 18m 46.1s	-00° 21' 16"	13.5	Galaxy	0.014x0.004	Hydra	
IC 550	09h 41m 22.3s	-07° 01' 41"	13.5	Galaxy	0.006x0.004	Hydra	
IC 586	10h 00m 44.1s	-07° 00' 33"	13.5	Galaxy	0.005x0.005	Sextans	
IC 590-2	10h 06m 45.9s	+00° 32' 37"	13.5	Galaxy	0.005x0.002	Sextans	IC 590-2
NGC 2917	09h 35m 21.7s	-02° 35' 05"	13.6	Galaxy	0.010x0.003	Hydra	
IC 593	10h 09m 12.8s	-02° 36' 55"	13.6	Galaxy	0.005x0.005	Sextans	
IC 603	10h 20m 19.3s	-05° 44' 49"	13.6	Galaxy	0.010x0.007	Sextans	
NGC 3083	10h 00m 44.3s	-02° 57' 52"	13.7	Galaxy	0.009x0.003	Sextans	
IC 2471	09h 26m 05.7s	-06° 54' 30"	13.7	Galaxy	0.009x0.005	Hydra	
IC 553	09h 41m 39.0s	-05° 31' 04"	13.7	Galaxy	0.01x0.0075	Hydra	
IC 574	09h 55m 20.8s	-07° 02' 18"	13.7	Galaxy	0.010x0.009	Sextans	
NGC 3142	10h 11m 00.1s	-08° 34' 06"	13.8	Galaxy	0.008x0.007	Sextans	
IC 590-1	10h 06m 45.1s	+00° 32' 42"	13.8	Galaxy	0.008x0.007	Sextans	IC 590-1
IC 594	10h 09m 27.1s	-00° 45' 17"	13.8	Galaxy	0.009x0.004	Sextans	
IC 3014	09h 50m 02.1s	-04° 49' 38"	13.9	Galaxy	0.008x0.007	Sextans	
NGC 3086	10h 01m 05.6s	-03° 03' 46"	13.9	Galaxy	0.01x0.003	Sextans	
IC 608	10h 25m 15.3s	-06° 07' 52"	13.9	Galaxy	0.006x0.003	Sextans	
NGC 3023-2	09h 50m 49.6s	+00° 31' 56"	14.0	Galaxy	0.002x8.333	Sextans	3023-2
IC 3029	09h 49m 47.3s	-08° 08' 08"	14.0	Galaxy	0.011x0.008	Sextans	
NGC 3047	09h 55m 27.1s	-01° 22' 36"	14.1	Galaxy	0.003x0.003	Sextans	NGC 3047A
NGC 3064	09h 56m 35.4s	-06° 27' 00"	14.1	Galaxy	0.01x0.0025	Sextans	
NGC 2850	09h 21m 50.9s	-05° 00' 60"	14.2	Galaxy	0.007x0.005	Hydra	
NGC 3093	10h 01m 48.2s	-03° 03' 30"	14.2	Galaxy	0.005x0.002	Sextans	
IC 535	09h 23m 11.3s	-01° 07' 03"	14.2	Galaxy	0.003x0.003	Hydra	
IC 562	09h 46m 58.4s	-04° 03' 20"	14.2	Galaxy	0.010x0.002	Sextans	
NGC 2868	09h 24m 19.8s	-10° 30' 24"	14.3	Galaxy	0.005x0.004	Hydra	
NGC 3143	10h 10m 56.8s	-12° 40' 15"	14.3	Galaxy	0.007x0.005	Hydra	
IC 599	10h 14m 06.7s	-05° 43' 07"	14.3	Galaxy	0.009x0.001	Sextans	
IC 614	10h 27m 46.6s	-03° 33' 25"	14.3	Galaxy	0.006x0.003	Sextans	
NGC 2951-2	09h 40m 36.1s	-00° 18' 60"	14.4	Galaxy	0.004x0.004	Hydra	2951-2
IC 3101	10h 02m 30.2s	-03° 04' 55"	14.4	Galaxy	0.01x0.0025	Sextans	
NGC 2952	09h 38m 29.9s	-10° 15' 58"	14.5	Galaxy	0.006x0.003	Hydra	
NGC 3133	10h 08m 05.6s	-12° 03' 13"	14.5	Galaxy	0.005x0.003	Hydra	
IC 566	09h 50m 51.6s	-00° 18' 56"	14.5	Galaxy	0.005x0.003	Sextans	

Table 130: Main objects visible on chart 123 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 589	10h 05m 18.0s	-05° 45' 58"	14.5	Galaxy	0.005x0.004	Sextans	
NGC 2951-1	09h 40m 35.1s	-00° 19' 04"	14.7	Galaxy	0.004x0.002	Hydra	2951-1
IC 533	09h 21m 17.6s	-04° 04' 06"	14.7	Galaxy	0.008x0.002	Hydra	
NGC 3058A	09h 54m 27.7s	-12° 33' 54"	14.8	Galaxy	0.002x0.001	Hydra	3058A
NGC 3138	10h 10m 09.6s	-12° 02' 46"	14.8	Galaxy	0.01x0.003	Hydra	
IC 597	10h 11m 05.9s	-06° 59' 15"	15.0	Galaxy	0.006x0.002	Sextans	

7.125 Main objects visible on chart 124

Table 131: Main objects visible on chart 124

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3521	11h 06m 44.1s	-00° 08' 04"	9.0	Galaxy	0.093x0.045	Leo	
NGC 3672	11h 25m 57.0s	-09° 53' 38"	11.4	Galaxy	0.033x0.015	Crater	
NGC 3660	11h 24m 27.0s	-08° 45' 27"	11.9	Galaxy	0.023x0.019	Crater	
IC 630	10h 39m 28.2s	-07° 15' 52"	12.0	Galaxy	0.017x0.014	Sextans	
NGC 3663	11h 24m 54.4s	-12° 23' 44"	12.3	Galaxy	0.016x0.011	Crater	
NGC 3636	11h 21m 19.6s	-10° 22' 51"	12.4	Galaxy	0.010x0.010	Crater	
IC 600	10h 18m 05.4s	-03° 35' 15"	12.4	Galaxy	0.02x0.01	Sextans	
NGC 3375	10h 47m 54.7s	-10° 02' 14"	12.6	Galaxy	0.013x0.01	Sextans	
NGC 3243	10h 27m 16.2s	-02° 42' 51"	12.7	Galaxy	0.011x0.009	Sextans	
NGC 3325	10h 40m 15.7s	-00° 17' 38"	12.7	Galaxy	0.01x0.009	Sextans	
NGC 3637	11h 21m 34.2s	-10° 21' 21"	12.7	Galaxy	0.015x0.014	Crater	
NGC 3361	10h 45m 22.9s	-11° 18' 11"	12.8	Galaxy	0.017x0.006	Sextans	
NGC 3537-1	11h 09m 20.9s	-10° 21' 16"	12.8	Galaxy	0.011x0.010	Crater	3537-1
IC 653	10h 53m 02.0s	-00° 39' 25"	12.8	Galaxy	0.015x0.007	Leo	
NGC 3662	11h 24m 41.7s	-01° 12' 15"	12.9	Galaxy	0.010x0.006	Leo	
NGC 3704	11h 30m 59.3s	-11° 38' 43"	12.9	Galaxy	0.013x0.011	Crater	
IC 3322A	10h 39m 44.1s	-11° 44' 35"	13.0	Galaxy	0.020x0.01	Hydra	IC 3322A
NGC 3340	10h 43m 13.2s	-00° 28' 17"	13.0	Galaxy	0.008x0.007	Sextans	
NGC 3719	11h 33m 08.9s	+00° 43' 11"	13.0	Galaxy	0.014x0.010	Leo	
IC 651	10h 51m 53.3s	-02° 14' 46"	13.0	Galaxy	0.006x0.006	Sextans	
NGC 3702	11h 31m 08.3s	-08° 57' 42"	13.1	Galaxy	0.010x0.005	Crater	
NGC 3404	10h 51m 11.6s	-12° 12' 13"	13.2	Galaxy	0.017x0.004	Hydra	
IC 624	10h 37m 09.4s	-08° 25' 40"	13.2	Galaxy	0.022x0.004	Sextans	
NGC 3723	11h 33m 25.4s	-10° 04' 06"	13.3	Galaxy	0.008x0.007	Crater	
IC 609	10h 26m 30.4s	-02° 18' 22"	13.3	Galaxy	0.012x0.005	Sextans	
NGC 3638	11h 21m 04.7s	-08° 12' 15"	13.4	Galaxy	0.019x0.005	Crater	
IC 671	11h 08m 27.0s	+00° 41' 08"	13.4	Galaxy	0.010x0.01	Leo	
IC 673	11h 10m 20.5s	-00° 11' 44"	13.4	Galaxy	0.014x0.005	Leo	
NGC 3537-2	11h 09m 21.4s	-10° 21' 24"	13.5	Galaxy	0.008x0.002	Crater	3537-2
NGC 3676	11h 26m 32.1s	-11° 14' 18"	13.6	Galaxy	0.006x0.005	Crater	
NGC 3679	11h 22m 42.9s	-05° 51' 24"	13.6	Galaxy	0.008x0.006	Leo	
IC 2910	11h 32m 49.5s	-09° 49' 27"	13.6	Galaxy	0.014x0.01	Crater	
IC 603	10h 20m 19.3s	-05° 44' 49"	13.6	Galaxy	0.010x0.007	Sextans	

Table 131: Main objects visible on chart 124 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3360	10h 45m 10.0s	-11° 20' 14"	13.7	Galaxy	0.01x0.0075	Sextans	
NGC 3421	10h 51m 51.4s	-12° 32' 37"	13.7	Galaxy	0.015x0.012	Hydra	
IC 3481A	11h 00m 20.9s	-07° 38' 27"	13.8	Galaxy	0.007x0.005	Crater	IC 3481A, Zwicky's triplet
IC 632	10h 40m 07.1s	-00° 30' 14"	13.8	Galaxy	0.007x0.005	Sextans	
IC 608	10h 25m 15.3s	-06° 07' 52"	13.9	Galaxy	0.006x0.003	Sextans	
IC 626	10h 37m 51.5s	-07° 07' 04"	13.9	Galaxy	0.01x0.008	Sextans	
NGC 3452	10h 55m 08.1s	-11° 30' 04"	14.0	Galaxy	0.009x0.002	Crater	
NGC 3711-1	11h 30m 20.2s	-11° 10' 45"	14.0	Galaxy	0.007x0.003	Crater	3711-1
IC 680	11h 18m 49.8s	-02° 02' 43"	14.0	Galaxy	0.005x0.003	Leo	
NGC 3292-1	10h 36m 28.8s	-06° 16' 23"	14.1	Galaxy	0.009x0.007	Sextans	3292-1
NGC 3422	10h 52m 11.2s	-12° 29' 52"	14.1	Galaxy	0.010x0.002	Crater	
NGC 3696	11h 29m 38.6s	-11° 22' 57"	14.1	Galaxy	0.008x0.006	Crater	
IC 654	10h 54m 44.3s	-11° 49' 18"	14.1	Galaxy	0.01x0.005	Crater	
IC 681	11h 19m 26.3s	-12° 14' 20"	14.1	Galaxy	0.007x0.003	Crater	
NGC 3634	11h 21m 25.0s	-09° 06' 45"	14.2	Galaxy	0.005x0.004	Crater	
IC 627	10h 38m 14.7s	-03° 27' 04"	14.2	Galaxy	0.005x0.005	Sextans	
NGC 3688	11h 28m 39.2s	-09° 15' 51"	14.3	Galaxy	0.01x0.0075	Crater	
IC 614	10h 27m 46.6s	-03° 33' 25"	14.3	Galaxy	0.006x0.003	Sextans	
IC 633	10h 40m 19.4s	-00° 28' 58"	14.3	Galaxy	0.005x0.002	Sextans	
IC 659	10h 58m 58.4s	-06° 21' 24"	14.3	Galaxy	0.011x0.008	Leo	
IC 697	11h 29m 29.7s	-01° 43' 41"	14.3	Galaxy	0.003x0.001	Leo	
NGC 3297	10h 34m 05.1s	-12° 45' 51"	14.5	Galaxy	0.006x0.004	Hydra	
NGC 3541	11h 09m 26.6s	-10° 35' 23"	14.5	Galaxy	0.011x0.010	Crater	
IC 3635	11h 21m 26.0s	-09° 06' 43"	14.5	Galaxy	0.014x0.005	Crater	
IC 655	10h 55m 17.4s	-00° 27' 42"	14.5	Galaxy	0.008x0.001	Leo	
IC 688	11h 24m 34.7s	-09° 53' 41"	14.5	Galaxy	0.005x0.002	Crater	
IC 672	11h 08m 57.4s	-12° 34' 55"	14.6	Galaxy	0.004x0.001	Crater	
IC 690	11h 25m 15.3s	-08° 26' 26"	14.6	Galaxy	0.007x0.002	Crater	
NGC 3280A	10h 33m 37.1s	-12° 43' 47"	14.7	Galaxy	0.005x0.004	Hydra	3280A
NGC 3703	11h 30m 03.9s	-08° 32' 45"	14.7	Galaxy	0.006x0.003	Crater	
NGC 3707	11h 31m 06.2s	-11° 38' 32"	14.7	Galaxy	0.005x0.003	Crater	
IC 645	10h 51m 03.8s	-06° 08' 19"	14.7	Galaxy	0.004x0.003	Sextans	
IC 657	10h 58m 48.3s	-05° 00' 03"	14.7	Galaxy	0.01x0.004	Leo	
IC 693	11h 27m 43.6s	-05° 06' 13"	14.8	Galaxy	0.005x0.003	Leo	
IC 695	11h 28m 53.0s	-11° 48' 52"	14.9	Galaxy	0.006x0.001	Crater	
NGC 3280B	10h 33m 38.9s	-12° 43' 47"	15.0	Galaxy	0.004x0.002	Hydra	3280B
NGC 3280C	10h 33m 39.7s	-12° 43' 37"	15.0	Galaxy	0.003x0.003	Hydra	
NGC 3711-2	11h 30m 20.7s	-11° 10' 24"	15.0	Galaxy	0.002x0.002	Crater	3711-2
NGC 3292-2	10h 36m 25.3s	-06° 16' 40"	15.1	Galaxy	0.005x0.002	Sextans	3292-2
IC 631	10h 39m 53.1s	-07° 08' 45"	15.2	Galaxy	0.004x0.004	Sextans	
IC 702	11h 31m 49.7s	-05° 01' 18"	15.2	Galaxy	0.005x0.002	Leo	

7.126 Main objects visible on chart 125

Table 132: Main objects visible on chart 125

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4546	12h 36m 25.1s	-03° 53' 31"	10.3	Galaxy	0.027x0.013	Virgo	
NGC 4517	12h 33m 41.0s	+00° 00' 59"	10.4	Galaxy	0.087x0.012	Virgo	
NGC 4030	12h 01m 18.8s	-01° 12' 03"	10.6	Galaxy	0.035x0.026	Virgo	
NGC 4487	12h 32m 00.1s	-08° 09' 10"	11.0	Galaxy	0.033x0.023	Virgo	
NGC 3672	11h 25m 57.0s	-09° 53' 38"	11.4	Galaxy	0.033x0.015	Crater	
NGC 3892	11h 48m 56.1s	-11° 03' 44"	11.5	Galaxy	0.025x0.019	Crater	
NGC 3818	11h 42m 52.5s	-06° 15' 20"	11.7	Galaxy	0.016x0.01	Virgo	
NGC 3763	11h 37m 25.1s	-09° 56' 49"	11.8	Galaxy	0.009x0.009	Crater	
NGC 3660	11h 24m 27.0s	-08° 45' 27"	11.9	Galaxy	0.023x0.019	Crater	
NGC 4454	12h 29m 46.1s	-02° 02' 18"	11.9	Galaxy	0.019x0.017	Virgo	
NGC 3865	11h 45m 47.0s	-09° 19' 59"	12.0	Galaxy	0.015x0.012	Crater	
NGC 3663	11h 24m 54.4s	-12° 23' 44"	12.3	Galaxy	0.016x0.011	Crater	
NGC 4240	12h 18m 20.0s	-10° 03' 06"	12.3	Galaxy	0.010x0.01	Virgo	
NGC 3636	11h 21m 19.6s	-10° 22' 51"	12.4	Galaxy	0.010x0.010	Crater	
NGC 4079	12h 05m 45.3s	-02° 28' 60"	12.4	Galaxy	0.019x0.013	Virgo	
NGC 3732	11h 35m 08.8s	-09° 56' 42"	12.5	Galaxy	0.011x0.01	Crater	
NGC 4129	12h 09m 48.7s	-09° 08' 12"	12.5	Galaxy	0.019x0.005	Virgo	
NGC 4348	12h 24m 49.4s	-03° 32' 32"	12.5	Galaxy	0.026x0.005	Virgo	
NGC 4385	12h 26m 37.9s	+00° 28' 23"	12.5	Galaxy	0.017x0.010	Virgo	
NGC 4517A	12h 33m 23.4s	+00° 17' 28"	12.5	Galaxy	0.033x0.021	Virgo	4517A
NGC 3771	11h 40m 00.9s	-09° 26' 51"	12.6	Galaxy	0.010x0.010	Crater	
NGC 4006	11h 59m 01.2s	-02° 13' 14"	12.6	Galaxy	0.013x0.01	Virgo	
NGC 4263	12h 20m 38.0s	-12° 19' 31"	12.6	Galaxy	0.01x0.005	Corvus	
NGC 4428-1	12h 28m 23.9s	-08° 16' 03"	12.6	Galaxy	0.014x0.005	Virgo	4428-1
NGC 3637	11h 21m 34.2s	-10° 21' 21"	12.7	Galaxy	0.015x0.014	Crater	
NGC 4404	12h 27m 11.8s	-07° 46' 47"	12.7	Galaxy	0.01x0.008	Virgo	
NGC 4433	12h 28m 34.3s	-08° 22' 43"	12.7	Galaxy	0.018x0.007	Virgo	
NGC 3905	11h 50m 00.1s	-09° 49' 44"	12.8	Galaxy	0.015x0.011	Crater	
NGC 4403	12h 27m 08.5s	-07° 47' 03"	12.8	Galaxy	0.013x0.004	Virgo	
NGC 3662	11h 24m 41.7s	-01° 12' 15"	12.9	Galaxy	0.010x0.006	Leo	
NGC 3704	11h 30m 59.3s	-11° 38' 43"	12.9	Galaxy	0.013x0.011	Crater	
NGC 3979	11h 56m 56.4s	-02° 49' 15"	12.9	Galaxy	0.009x0.007	Virgo	
IC 2969	11h 53m 26.5s	-03° 58' 24"	12.9	Galaxy	0.010x0.006	Virgo	
NGC 3719	11h 33m 08.9s	+00° 43' 11"	13.0	Galaxy	0.014x0.010	Leo	
NGC 3720	11h 33m 17.0s	+00° 42' 16"	13.0	Galaxy	0.008x0.006	Leo	
NGC 3730	11h 35m 11.8s	-09° 40' 33"	13.0	Galaxy	0.008x0.007	Crater	
NGC 4541	12h 36m 06.1s	-00° 19' 12"	13.0	Galaxy	0.013x0.005	Virgo	
NGC 3702	11h 31m 08.3s	-08° 57' 42"	13.1	Galaxy	0.010x0.005	Crater	
NGC 3907	11h 50m 25.4s	-01° 11' 10"	13.1	Galaxy	0.01x0.006	Virgo	
NGC 3907B	11h 50m 18.8s	-01° 11' 03"	13.1	Galaxy	0.009x0.002	Virgo	3907B
NGC 3952	11h 54m 35.4s	-04° 05' 51"	13.1	Galaxy	0.013x0.005	Virgo	
IC 754	12h 00m 18.9s	-01° 45' 17"	13.1	Galaxy	0.009x0.007	Virgo	
IC 784	12h 23m 25.5s	-04° 45' 09"	13.1	Galaxy	0.015x0.005	Virgo	
NGC 3866	11h 46m 06.7s	-09° 24' 52"	13.2	Galaxy	0.011x0.006	Crater	
NGC 3942	11h 52m 25.2s	-11° 31' 30"	13.2	Galaxy	0.012x0.007	Crater	
NGC 4418	12h 27m 50.0s	-00° 58' 38"	13.2	Galaxy	0.012x0.005	Virgo	

Table 132: Main objects visible on chart 125 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4504	12h 33m 13.2s	-07° 39' 45"	13.2	Galaxy	0.026x0.018	Virgo	
IC 2974	11h 54m 44.0s	-05° 16' 07"	13.2	Galaxy	0.018x0.004	Virgo	
IC 745	11h 55m 07.6s	+00° 02' 12"	13.2	Galaxy	0.005x0.005	Virgo	
NGC 3723	11h 33m 25.4s	-10° 04' 06"	13.3	Galaxy	0.008x0.007	Crater	
NGC 4044	12h 03m 24.8s	-00° 18' 46"	13.3	Galaxy	0.01x0.009	Virgo	
NGC 3638	11h 21m 04.7s	-08° 12' 15"	13.4	Galaxy	0.019x0.005	Crater	
NGC 3777	11h 37m 01.6s	-12° 40' 08"	13.4	Galaxy	0.009x0.005	Crater	
NGC 3789	11h 39m 04.0s	-09° 42' 23"	13.4	Galaxy	0.010x0.005	Crater	
NGC 3791	11h 40m 36.6s	-09° 27' 59"	13.4	Galaxy	0.011x0.008	Crater	
NGC 3967	11h 56m 05.6s	-07° 56' 36"	13.4	Galaxy	0.008x0.005	Crater	
NGC 3970	11h 56m 23.4s	-12° 09' 42"	13.4	Galaxy	0.01x0.004	Crater	
NGC 3974	11h 56m 35.4s	-12° 07' 39"	13.4	Galaxy	0.01x0.009	Crater	
NGC 4524	12h 34m 50.5s	-12° 07' 35"	13.4	Galaxy	0.010x0.006	Corvus	
IC 4329	12h 24m 16.6s	-12° 39' 28"	13.5	Galaxy	0.009x0.005	Corvus	
NGC 3676	11h 26m 32.1s	-11° 14' 18"	13.6	Galaxy	0.006x0.005	Crater	
NGC 3679	11h 22m 42.9s	-05° 51' 24"	13.6	Galaxy	0.008x0.006	Leo	
NGC 4201	12h 15m 37.6s	-11° 40' 60"	13.6	Galaxy	0.007x0.006	Virgo	
NGC 4202	12h 19m 03.9s	-01° 09' 50"	13.6	Galaxy	0.01x0.005	Virgo	
NGC 4279	12h 21m 20.7s	-11° 45' 57"	13.6	Galaxy	0.009x0.005	Virgo	
NGC 4484	12h 29m 48.7s	-11° 45' 04"	13.6	Galaxy	0.012x0.012	Virgo	
IC 2910	11h 32m 49.5s	-09° 49' 27"	13.6	Galaxy	0.014x0.01	Crater	
IC 728	11h 45m 45.8s	-01° 42' 05"	13.6	Galaxy	0.010x0.005	Virgo	
IC 753	12h 00m 08.2s	-00° 37' 26"	13.6	Galaxy	0.003x0.002	Virgo	
NGC 3959	11h 55m 32.9s	-07° 51' 24"	13.7	Galaxy	0.009x0.007	Crater	
NGC 4188	12h 15m 03.1s	-12° 41' 10"	13.7	Galaxy	0.005x0.005	Corvus	
NGC 3774	11h 39m 25.3s	-09° 04' 34"	13.8	Galaxy	0.008x0.004	Crater	
NGC 3775	11h 39m 21.6s	-10° 44' 16"	13.8	Galaxy	0.009x0.004	Crater	
NGC 3779	11h 39m 45.7s	-10° 41' 02"	13.8	Galaxy	0.015x0.008	Crater	
NGC 4422	12h 28m 07.7s	-05° 55' 47"	13.8	Galaxy	0.010x0.010	Virgo	
NGC 3915	11h 50m 19.5s	-05° 13' 05"	13.9	Galaxy	0.012x0.003	Virgo	
IC 725	11h 44m 24.7s	-01° 46' 06"	13.9	Galaxy	0.004x0.004	Virgo	
IC 741	11h 51m 27.1s	-04° 56' 11"	13.9	Galaxy	0.006x0.002	Virgo	
NGC 3711-1	11h 30m 20.2s	-11° 10' 45"	14.0	Galaxy	0.007x0.003	Crater	3711-1
NGC 4225	12h 17m 34.0s	-12° 25' 37"	14.0	Galaxy	0.005x0.004	Corvus	
NGC 4520	12h 34m 45.7s	-07° 28' 26"	14.0	Galaxy	0.009x0.005	Virgo	
IC 716	11h 39m 58.6s	-00° 18' 19"	14.0	Galaxy	0.013x0.002	Virgo	
IC 738	11h 49m 50.0s	-04° 46' 55"	14.0	Galaxy	0.006x0.003	Virgo	
IC 766	12h 11m 49.2s	-12° 45' 17"	14.0	Galaxy	0.010x0.002	Corvus	
NGC 3696	11h 29m 38.6s	-11° 22' 57"	14.1	Galaxy	0.008x0.006	Crater	
NGC 3722	11h 35m 18.1s	-09° 46' 45"	14.1	Galaxy	0.007x0.006	Crater	
NGC 3724	11h 35m 23.6s	-09° 45' 33"	14.1	Galaxy	0.01x0.003	Crater	
NGC 4285	12h 21m 35.6s	-11° 44' 31"	14.1	Galaxy	0.007x0.004	Virgo	
NGC 4493-1	12h 32m 03.6s	+00° 30' 54"	14.1	Galaxy	0.008x0.006	Virgo	4493-1
IC 723	11h 43m 52.6s	-08° 25' 55"	14.1	Galaxy	0.005x0.005	Crater	
NGC 3634	11h 21m 25.0s	-09° 06' 45"	14.2	Galaxy	0.005x0.004	Crater	
NGC 3688	11h 28m 39.2s	-09° 15' 51"	14.3	Galaxy	0.01x0.0075	Crater	

Table 132: Main objects visible on chart 125 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 697	11h 29m 29.7s	-01° 43' 41"	14.3	Galaxy	0.003x0.001	Leo	
IC 734-1	11h 46m 58.9s	-08° 22' 15"	14.3	Galaxy	0.008x0.003	Crater	IC 734-1
IC 721	11h 43m 23.9s	-08° 26' 25"	14.4	Galaxy	0.010x0.002	Crater	
IC 747	11h 58m 00.1s	-08° 23' 31"	14.4	Galaxy	0.005x0.003	Virgo	
IC 3635	11h 21m 26.0s	-09° 06' 43"	14.5	Galaxy	0.014x0.005	Crater	
NGC 3721	11h 35m 02.7s	-09° 33' 59"	14.5	Galaxy	0.008x0.004	Crater	
NGC 4176	12h 13m 32.4s	-09° 15' 37"	14.5	Galaxy	0.005x0.004	Virgo	
IC 688	11h 24m 34.7s	-09° 53' 41"	14.5	Galaxy	0.005x0.002	Crater	
IC 690	11h 25m 15.3s	-08° 26' 26"	14.6	Galaxy	0.007x0.002	Crater	
NGC 3703	11h 30m 03.9s	-08° 32' 45"	14.7	Galaxy	0.006x0.003	Crater	
NGC 3707	11h 31m 06.2s	-11° 38' 32"	14.7	Galaxy	0.005x0.003	Crater	
NGC 3776	11h 39m 13.1s	-03° 27' 13"	14.7	Galaxy	0.002x0.001	Virgo	
IC 774	12h 19m 46.8s	-06° 51' 56"	14.7	Galaxy	0.004x0.004	Virgo	
IC 693	11h 27m 43.6s	-05° 06' 13"	14.8	Galaxy	0.005x0.003	Leo	
IC 734-2	11h 46m 59.0s	-08° 21' 55"	14.8	Galaxy	0.003x0.003	Crater	IC 734-2
IC 761	12h 06m 49.1s	-12° 46' 23"	14.8	Galaxy	0.005x0.001	Corvus	
IC 770	12h 13m 57.8s	-04° 39' 10"	14.8	Galaxy	0.003x0.003	Virgo	
IC 695	11h 28m 53.0s	-11° 48' 52"	14.9	Galaxy	0.006x0.001	Crater	
IC 733	11h 46m 53.9s	-08° 15' 21"	14.9	Galaxy	0.005x0.001	Crater	
NGC 3711-2	11h 30m 20.7s	-11° 10' 24"	15.0	Galaxy	0.002x0.002	Crater	3711-2
IC 715-1	11h 37m 49.3s	-08° 28' 31"	15.0	Galaxy	0.005x0.003	Crater	IC 715-1
IC 715-2	11h 37m 49.8s	-08° 28' 43"	15.0	Galaxy	0.003x0.002	Crater	IC 715-2
IC 702	11h 31m 49.7s	-05° 01' 18"	15.2	Galaxy	0.005x0.002	Leo	
NGC 3965	11h 55m 18.3s	-10° 57' 60"	15.7	Galaxy	0.004x0.002	Crater	
NGC 4493-2	12h 32m 06.3s	+00° 30' 27"	15.7	Galaxy	0.003x0.002	Virgo	4493-2
NGC 4428-2	12h 28m 25.9s	-08° 15' 52"	15.8	Galaxy	0.001x0.001	Virgo	4428-2

7.127 Main objects visible on chart 126

Table 133: Main objects visible on chart 126

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4594	12h 40m 55.5s	-11° 43' 16"	8.0	Galaxy	0.071x0.035	Virgo	M104, Sombrero galaxy
NGC 4697	12h 49m 31.7s	-05° 53' 53"	9.2	Galaxy	0.06x0.039	Virgo	CALDWELL 52
NGC 4699	12h 49m 58.3s	-08° 45' 42"	9.5	Galaxy	0.031x0.023	Virgo	
NGC 4753	12h 53m 17.6s	-01° 17' 51"	10.0	Galaxy	0.05x0.023	Virgo	
NGC 4546	12h 36m 25.1s	-03° 53' 31"	10.3	Galaxy	0.027x0.013	Virgo	
NGC 4517	12h 33m 41.0s	+00° 00' 59"	10.4	Galaxy	0.087x0.012	Virgo	
NGC 4666	12h 46m 03.6s	-00° 33' 40"	10.7	Galaxy	0.037x0.011	Virgo	
NGC 4958	13h 06m 45.2s	-08° 06' 58"	10.7	Galaxy	0.032x0.011	Virgo	
IC 4593	12h 40m 35.0s	-05° 26' 33"	10.9	Galaxy	0.032x0.024	Virgo	
NGC 4487	12h 32m 00.1s	-08° 09' 10"	11.0	Galaxy	0.033x0.023	Virgo	
NGC 4691	12h 49m 09.1s	-03° 25' 50"	11.1	Galaxy	0.022x0.020	Virgo	
NGC 4775	12h 54m 41.9s	-06° 43' 13"	11.1	Galaxy	0.018x0.017	Virgo	
NGC 4781	12h 55m 20.0s	-10° 38' 00"	11.1	Galaxy	0.028x0.011	Virgo	

Table 133: Main objects visible on chart 126 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4818	12h 57m 45.1s	-08° 37' 20"	11.1	Galaxy	0.035x0.012	Virgo	
NGC 4941	13h 05m 09.0s	-05° 38' 51"	11.1	Galaxy	0.032x0.022	Virgo	
NGC 4995	13h 10m 37.0s	-07° 55' 43"	11.1	Galaxy	0.02x0.014	Virgo	
NGC 4742	12h 52m 44.4s	-10° 33' 08"	11.3	Galaxy	0.021x0.012	Virgo	
NGC 4939	13h 05m 10.9s	-10° 26' 10"	11.3	Galaxy	0.045x0.023	Virgo	
NGC 4981	13h 09m 44.9s	-06° 52' 23"	11.3	Galaxy	0.023x0.015	Virgo	
NGC 4684	12h 48m 13.2s	-02° 49' 30"	11.4	Galaxy	0.023x0.009	Virgo	
NGC 4760	12h 54m 03.6s	-10° 35' 32"	11.4	Galaxy	0.016x0.015	Virgo	
NGC 4804	12h 56m 46.2s	-12° 09' 07"	11.4	Galaxy	0.02x0.013	Corvus	
NGC 5077	13h 20m 28.8s	-12° 45' 03"	11.4	Galaxy	0.018x0.013	Virgo	
NGC 4602	12h 41m 32.5s	-05° 13' 52"	11.5	Galaxy	0.028x0.01	Virgo	
IC 4731	12h 51m 57.0s	-06° 29' 25"	11.5	Galaxy	0.055x0.035	Virgo	
NGC 4592	12h 40m 14.0s	-00° 37' 48"	11.6	Galaxy	0.048x0.012	Virgo	
NGC 4783	12h 55m 33.0s	-12° 39' 19"	11.6	Galaxy	0.019x0.010	Corvus	
NGC 4632	12h 43m 27.7s	-00° 10' 44"	11.7	Galaxy	0.025x0.01	Virgo	
NGC 4705	12h 50m 20.7s	-05° 17' 35"	11.7	Galaxy	0.025x0.008	Virgo	
NGC 4782	12h 55m 32.4s	-12° 39' 59"	11.7	Galaxy	0.015x0.014	Corvus	
NGC 4786	12h 55m 28.3s	-06° 57' 23"	11.7	Galaxy	0.013x0.010	Virgo	
NGC 4933	13h 04m 53.4s	-11° 35' 38"	11.7	Galaxy	0.016x0.009	Virgo	
NGC 4454	12h 29m 46.1s	-02° 02' 18"	11.9	Galaxy	0.019x0.017	Virgo	
NGC 4700	12h 50m 04.2s	-11° 30' 34"	11.9	Galaxy	0.026x0.006	Virgo	
NGC 4951	13h 06m 03.6s	-06° 35' 25"	11.9	Galaxy	0.031x0.013	Virgo	
NGC 4597	12h 41m 08.1s	-05° 53' 57"	12.0	Galaxy	0.034x0.015	Virgo	
NGC 4904	13h 01m 53.9s	-00° 07' 25"	12.0	Galaxy	0.018x0.012	Virgo	
NGC 5079	13h 20m 35.1s	-12° 47' 38"	12.0	Galaxy	0.012x0.006	Virgo	
NGC 5254	13h 40m 35.4s	-11° 35' 06"	12.0	Galaxy	0.026x0.012	Virgo	
NGC 4915	13h 02m 24.0s	-04° 38' 34"	12.1	Galaxy	0.013x0.010	Virgo	
NGC 4653	12h 44m 46.4s	-00° 39' 34"	12.2	Galaxy	0.025x0.022	Virgo	
NGC 4682	12h 48m 11.7s	-10° 09' 43"	12.2	Galaxy	0.020x0.01	Virgo	
NGC 5015	13h 13m 18.7s	-04° 25' 56"	12.3	Galaxy	0.015x0.012	Virgo	
NGC 5211	13h 34m 00.8s	-01° 07' 40"	12.3	Galaxy	0.017x0.013	Virgo	
NGC 5258	13h 40m 53.0s	+00° 44' 27"	12.3	Galaxy	0.011x0.007	Virgo	
NGC 4790	12h 55m 48.3s	-10° 20' 42"	12.4	Galaxy	0.012x0.007	Virgo	
NGC 5088	13h 21m 17.4s	-12° 39' 59"	12.4	Galaxy	0.022x0.005	Virgo	
NGC 5232	13h 37m 05.0s	-08° 35' 21"	12.4	Galaxy	0.012x0.011	Virgo	
NGC 5257	13h 40m 48.0s	+00° 44' 58"	12.4	Galaxy	0.013x0.006	Virgo	
NGC 4517A	12h 33m 23.4s	+00° 17' 28"	12.5	Galaxy	0.033x0.021	Virgo	4517A
NGC 4658	12h 45m 33.9s	-10° 10' 58"	12.5	Galaxy	0.017x0.007	Virgo	
NGC 4739	12h 52m 33.3s	-08° 30' 26"	12.5	Galaxy	0.011x0.01	Virgo	
NGC 4778	12h 54m 02.0s	-09° 18' 05"	12.5	Galaxy	0.014x0.009	Virgo	
NGC 4928	13h 03m 56.8s	-08° 10' 52"	12.5	Galaxy	0.009x0.007	Virgo	
NGC 4428-1	12h 28m 23.9s	-08° 16' 03"	12.6	Galaxy	0.014x0.005	Virgo	4428-1
NGC 4671	12h 46m 43.5s	-07° 10' 04"	12.6	Galaxy	0.010x0.009	Virgo	
IC 4996	13h 10m 27.1s	+00° 45' 43"	12.6	Galaxy	0.015x0.011	Virgo	
NGC 5146	13h 27m 34.7s	-12° 24' 59"	12.6	Galaxy	0.015x0.010	Virgo	
NGC 5203	13h 33m 10.2s	-08° 52' 43"	12.6	Galaxy	0.015x0.009	Virgo	

Table 133: Main objects visible on chart 126 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4404	12h 27m 11.8s	-07° 46' 47"	12.7	Galaxy	0.01x0.008	Virgo	
NGC 4433	12h 28m 34.3s	-08° 22' 43"	12.7	Galaxy	0.018x0.007	Virgo	
NGC 4770	12h 54m 28.5s	-09° 38' 19"	12.7	Galaxy	0.012x0.006	Virgo	
NGC 4773-1	12h 54m 32.1s	-08° 44' 09"	12.7	Galaxy	0.010x0.008	Virgo	4773-1
NGC 5183	13h 31m 01.7s	-01° 48' 47"	12.7	Galaxy	0.015x0.006	Virgo	
NGC 4403	12h 27m 08.5s	-07° 47' 03"	12.8	Galaxy	0.013x0.004	Virgo	
NGC 4680	12h 47m 51.1s	-11° 44' 04"	12.8	Galaxy	0.0125x0.01	Virgo	
NGC 4731A	12h 52m 09.1s	-06° 39' 27"	12.8	Galaxy	0.010x0.009	Virgo	4731A
IC 5184	13h 31m 07.0s	-01° 45' 22"	12.8	Galaxy	0.016x0.01	Virgo	
NGC 4642	12h 44m 13.0s	-00° 44' 36"	12.9	Galaxy	0.015x0.004	Virgo	
NGC 4690	12h 48m 51.0s	-01° 45' 15"	12.9	Galaxy	0.01x0.006	Virgo	
NGC 4716	12h 51m 29.3s	-09° 32' 55"	12.9	Galaxy	0.009x0.005	Virgo	
NGC 4878	13h 01m 16.1s	-06° 12' 02"	12.9	Galaxy	0.010x0.009	Virgo	
NGC 5241	13h 37m 36.7s	-08° 29' 35"	12.9	Galaxy	0.009x0.004	Virgo	
IC 4216	13h 17m 58.7s	-10° 51' 51"	12.9	Galaxy	0.015x0.006	Virgo	
IC 892	13h 32m 41.6s	-02° 48' 17"	12.9	Galaxy	0.012x0.008	Virgo	
NGC 4541	12h 36m 06.1s	-00° 19' 12"	13.0	Galaxy	0.013x0.005	Virgo	
NGC 4759A	12h 54m 00.8s	-09° 17' 50"	13.0	Galaxy	0.015x0.014	Virgo	4759A
NGC 4843	12h 58m 56.6s	-03° 43' 06"	13.0	Galaxy	0.017x0.004	Virgo	
NGC 4942	13h 05m 15.3s	-07° 44' 42"	13.0	Galaxy	0.013x0.010	Virgo	
NGC 5119	13h 24m 57.5s	-12° 22' 11"	13.0	Galaxy	0.010x0.003	Virgo	
IC 849	13h 08m 34.2s	-01° 02' 18"	13.0	Galaxy	0.013x0.010	Virgo	
NGC 4668	12h 46m 27.2s	-00° 38' 04"	13.1	Galaxy	0.011x0.006	Virgo	
NGC 4674	12h 46m 59.4s	-08° 45' 12"	13.1	Galaxy	0.013x0.004	Virgo	
NGC 4708	12h 50m 38.0s	-11° 11' 29"	13.1	Galaxy	0.01x0.0075	Virgo	
NGC 4777	12h 54m 54.7s	-08° 52' 22"	13.1	Galaxy	0.015x0.006	Virgo	
NGC 4813	12h 57m 32.1s	-06° 54' 55"	13.1	Galaxy	0.010x0.004	Virgo	
NGC 4925	13h 03m 03.5s	-07° 48' 25"	13.1	Galaxy	0.008x0.005	Virgo	
NGC 5072	13h 20m 09.8s	-12° 38' 02"	13.1	Galaxy	0.008x0.005	Virgo	
IC 903	13h 39m 21.5s	-00° 19' 07"	13.1	Galaxy	0.015x0.006	Virgo	
NGC 4418	12h 27m 50.0s	-00° 58' 38"	13.2	Galaxy	0.012x0.005	Virgo	
NGC 4504	12h 33m 13.2s	-07° 39' 45"	13.2	Galaxy	0.026x0.018	Virgo	
NGC 4629	12h 43m 28.2s	-01° 26' 57"	13.2	Galaxy	0.009x0.006	Virgo	
NGC 4703	12h 50m 15.1s	-09° 12' 22"	13.2	Galaxy	0.025x0.005	Virgo	
NGC 4890	13h 01m 34.8s	-04° 42' 02"	13.2	Galaxy	0.007x0.005	Virgo	
NGC 4948	13h 05m 52.1s	-08° 02' 33"	13.2	Galaxy	0.016x0.005	Virgo	
IC 3826	12h 51m 36.0s	-09° 07' 43"	13.2	Galaxy	0.015x0.006	Virgo	
IC 4720	12h 51m 38.3s	-04° 15' 13"	13.3	Galaxy	0.007x0.004	Virgo	
NGC 4822	12h 58m 00.1s	-10° 51' 33"	13.3	Galaxy	0.01x0.005	Virgo	
NGC 4989	13h 10m 12.0s	-05° 29' 31"	13.3	Galaxy	0.013x0.007	Virgo	
NGC 5066	13h 19m 25.2s	-10° 19' 42"	13.3	Galaxy	0.005x0.004	Virgo	
NGC 4524	12h 34m 50.5s	-12° 07' 35"	13.4	Galaxy	0.010x0.006	Corvus	
NGC 4626	12h 43m 21.3s	-07° 08' 35"	13.4	Galaxy	0.011x0.004	Virgo	
IC 4718	12h 51m 28.3s	-05° 22' 47"	13.4	Galaxy	0.015x0.005	Virgo	
NGC 4780	12h 55m 01.4s	-08° 43' 06"	13.4	Galaxy	0.015x0.012	Virgo	
NGC 4888	13h 01m 32.2s	-06° 10' 20"	13.4	Galaxy	0.008x0.003	Virgo	

Table 133: Main objects visible on chart 126 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5122	13h 25m 11.9s	-10° 44' 52"	13.4	Galaxy	0.007x0.002	Virgo	
NGC 5130	13h 25m 24.1s	-10° 18' 13"	13.4	Galaxy	0.007x0.004	Virgo	
IC 3883	12h 56m 09.7s	-08° 13' 03"	13.4	Galaxy	0.007x0.003	Virgo	
IC 4229	13h 23m 21.9s	-02° 30' 42"	13.4	Galaxy	0.008x0.006	Virgo	
NGC 4628	12h 43m 21.2s	-07° 04' 09"	13.5	Galaxy	0.014x0.004	Virgo	
IC 4663	12h 45m 43.2s	-10° 17' 47"	13.5	Galaxy	0.009x0.006	Virgo	
NGC 4678-2	12h 50m 36.8s	-04° 40' 41"	13.5	Galaxy	0.007x0.004	Virgo	4678-2
NGC 4920	13h 03m 00.9s	-11° 28' 29"	13.5	Galaxy	0.008x0.005	Virgo	
NGC 4948A	13h 06m 02.1s	-08° 15' 24"	13.5	Galaxy	0.012x0.010	Virgo	4948A
IC 3859	12h 55m 16.2s	-09° 12' 53"	13.5	Galaxy	0.008x0.002	Virgo	
NGC 4484	12h 29m 48.7s	-11° 45' 04"	13.6	Galaxy	0.012x0.012	Virgo	
IC 4784	12h 55m 33.4s	-10° 42' 36"	13.6	Galaxy	0.015x0.003	Virgo	
IC 4794	12h 56m 07.1s	-12° 42' 23"	13.6	Galaxy	0.014x0.005	Corvus	
IC 804	12h 42m 11.5s	-05° 06' 28"	13.6	Galaxy	0.008x0.005	Virgo	
IC 812	12h 45m 46.6s	-04° 31' 58"	13.6	Galaxy	0.006x0.004	Virgo	
IC 855	13h 11m 32.8s	-04° 34' 51"	13.6	Galaxy	0.009x0.005	Virgo	
IC 904	13h 39m 27.5s	+00° 26' 58"	13.6	Galaxy	0.01x0.005	Virgo	
IC 4757	12h 53m 46.3s	-10° 24' 30"	13.7	Galaxy	0.012x0.003	Virgo	
NGC 5095	13h 21m 32.5s	-02° 22' 59"	13.7	Galaxy	0.01x0.003	Virgo	
IC 5104	13h 22m 18.2s	+00° 14' 56"	13.7	Galaxy	0.01x0.003	Virgo	
NGC 5133	13h 25m 48.9s	-04° 10' 31"	13.7	Galaxy	0.008x0.005	Virgo	
IC 4209	13h 11m 18.7s	-07° 15' 59"	13.7	Galaxy	0.011x0.004	Virgo	
IC 4218	13h 17m 59.1s	-02° 21' 23"	13.7	Galaxy	0.010x0.002	Virgo	
NGC 4422	12h 28m 07.7s	-05° 55' 47"	13.8	Galaxy	0.010x0.010	Virgo	
NGC 4604	12h 41m 40.7s	-05° 24' 05"	13.8	Galaxy	0.008x0.003	Virgo	
IC 4761	12h 54m 06.0s	-09° 17' 42"	13.8	Galaxy	0.006x0.002	Virgo	
IC 3908	12h 57m 36.4s	-07° 39' 28"	13.8	Galaxy	0.015x0.005	Virgo	
IC 4071	13h 03m 00.2s	-07° 41' 58"	13.8	Galaxy	0.006x0.004	Virgo	
IC 4212	13h 12m 59.1s	-07° 05' 20"	13.8	Galaxy	0.025x0.02	Virgo	
IC 4975	13h 08m 46.3s	-05° 06' 48"	13.9	Galaxy	0.009x0.005	Virgo	
NGC 4990	13h 10m 13.3s	-05° 22' 05"	13.9	Galaxy	0.008x0.006	Virgo	
NGC 4520	12h 34m 45.7s	-07° 28' 26"	14.0	Galaxy	0.009x0.005	Virgo	
IC 4885	13h 01m 29.9s	-06° 56' 59"	14.0	Galaxy	0.004x0.003	Virgo	
IC 908	13h 42m 15.1s	-04° 26' 06"	14.0	Galaxy	0.007x0.005	Virgo	
NGC 4493-1	12h 32m 03.6s	+00° 30' 54"	14.1	Galaxy	0.008x0.006	Virgo	4493-1
NGC 5192	13h 31m 47.3s	-01° 52' 17"	14.1	Galaxy	0.005x0.002	Virgo	
IC 3812	12h 50m 49.8s	-06° 48' 54"	14.1	Galaxy	0.009x0.004	Virgo	
IC 893	13h 32m 43.2s	-02° 42' 13"	14.1	Galaxy	0.009x0.002	Virgo	
IC 4717	12h 51m 30.7s	-09° 33' 38"	14.2	Galaxy	0.011x0.004	Virgo	
IC 4792	12h 56m 00.2s	-12° 35' 38"	14.2	Galaxy	0.005x0.002	Corvus	
NGC 5196	13h 32m 15.2s	-01° 42' 24"	14.2	Galaxy	0.006x0.005	Virgo	
IC 4173	13h 04m 51.2s	-11° 36' 05"	14.2	Galaxy	0.005x0.004	Virgo	
NGC 4678-1	12h 50m 38.1s	-04° 40' 39"	14.3	Galaxy	0.008x0.004	Virgo	4678-1
IC 850	13h 08m 45.7s	-00° 57' 50"	14.3	Galaxy	0.007x0.001	Virgo	
IC 891	13h 30m 55.1s	+00° 12' 48"	14.3	Galaxy	0.004x0.004	Virgo	
IC 899	13h 35m 56.1s	-08° 10' 58"	14.3	Galaxy	0.004x0.004	Virgo	

Table 133: Main objects visible on chart 126 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4766	12h 54m 04.6s	-10° 28' 34"	14.4	Galaxy	0.008x0.002	Virgo	
NGC 4918	13h 02m 46.6s	-04° 35' 50"	14.4	Galaxy	0.009x0.004	Virgo	
IC 5202	13h 32m 56.1s	-01° 47' 27"	14.5	Galaxy	0.010x0.002	Virgo	
IC 833	12h 57m 34.3s	-06° 49' 50"	14.5	Galaxy	0.002x0.001	Virgo	
IC 865	13h 18m 31.6s	-05° 55' 40"	14.5	Galaxy	0.004x0.002	Virgo	
NGC 5036	13h 15m 38.7s	-04° 16' 23"	14.6	Galaxy	0.005x0.004	Virgo	
NGC 5097	13h 21m 56.8s	-12° 33' 56"	14.6	Galaxy	0.004x0.002	Virgo	
IC 4224	13h 20m 00.4s	-02° 36' 36"	14.6	Galaxy	0.007x0.005	Virgo	
IC 825	12h 51m 15.0s	-05° 27' 39"	14.7	Galaxy	0.005x0.002	Virgo	
IC 828	12h 53m 11.7s	-08° 13' 49"	14.7	Galaxy	0.006x0.002	Virgo	
NGC 4780A	12h 54m 59.3s	-08° 45' 03"	14.8	Galaxy	0.005x0.002	Virgo	4780A
NGC 4773-2	12h 54m 32.0s	-08° 44' 34"	14.9	Galaxy	0.003x0.003	Virgo	4773-2
IC 814	12h 46m 30.1s	-08° 11' 24"	15.0	Galaxy	0.005x0.002	Virgo	
IC 4764	12h 54m 03.0s	-09° 21' 18"	15.1	Galaxy	0.002x0.001	Virgo	
IC 5197	13h 32m 20.6s	-01° 47' 05"	15.1	Galaxy	0.005x0.002	Virgo	
NGC 4933C	13h 04m 57.9s	-11° 35' 14"	15.3	Galaxy	0.004x0.003	Virgo	
IC 886	13h 24m 53.4s	-04° 29' 18"	15.3	Galaxy	0.002x0.002	Virgo	
NGC 5039	13h 15m 47.9s	-04° 15' 10"	15.4	Galaxy	0.005x0.002	Virgo	
NGC 4493-2	12h 32m 06.3s	+00° 30' 27"	15.7	Galaxy	0.003x0.002	Virgo	4493-2
NGC 4428-2	12h 28m 25.9s	-08° 15' 52"	15.8	Galaxy	0.001x0.001	Virgo	4428-2

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Table 134: Main objects visible on chart 127

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5634	14h 30m 34.2s	-06° 03' 19"	9.5	Globular cluster	0.045x0.045	Virgo	
NGC 5713	14h 41m 06.7s	-00° 21' 60"	11.2	Galaxy	0.024x0.020	Virgo	
NGC 5334	13h 53m 50.1s	-01° 12' 07"	11.3	Galaxy	0.035x0.025	Virgo	
NGC 5427	14h 04m 22.7s	-06° 07' 00"	11.4	Galaxy	0.024x0.018	Virgo	
NGC 5493	14h 12m 25.9s	-05° 07' 41"	11.4	Galaxy	0.014x0.012	Virgo	
NGC 5584	14h 23m 19.3s	-00° 28' 10"	11.4	Galaxy	0.028x0.022	Virgo	
NGC 5750	14h 47m 06.3s	-00° 17' 54"	11.6	Galaxy	0.026x0.012	Virgo	
NGC 5324	13h 53m 02.4s	-06° 08' 47"	11.7	Galaxy	0.019x0.017	Virgo	
NGC 5691	14h 38m 48.9s	-00° 28' 31"	11.8	Galaxy	0.015x0.011	Virgo	
NGC 5506	14h 14m 10.9s	-03° 17' 26"	11.9	Galaxy	0.022x0.006	Virgo	
NGC 5254	13h 40m 35.4s	-11° 35' 06"	12.0	Galaxy	0.026x0.012	Virgo	
NGC 5426	14h 04m 21.6s	-06° 09' 17"	12.1	Galaxy	0.025x0.014	Virgo	
NGC 5496	14h 12m 33.4s	-01° 14' 32"	12.1	Galaxy	0.039x0.007	Virgo	
NGC 5306	13h 50m 08.0s	-07° 18' 44"	12.2	Galaxy	0.010x0.008	Virgo	
NGC 5719	14h 41m 51.9s	-00° 23' 39"	12.2	Galaxy	0.026x0.01	Virgo	
NGC 5729	14h 43m 04.7s	-09° 05' 09"	12.2	Galaxy	0.021x0.005	Libra	
NGC 5211	13h 34m 00.8s	-01° 07' 40"	12.3	Galaxy	0.017x0.013	Virgo	
NGC 5258	13h 40m 53.0s	+00° 44' 27"	12.3	Galaxy	0.011x0.007	Virgo	
NGC 5534	14h 18m 37.4s	-07° 29' 58"	12.3	Galaxy	0.014x0.010	Virgo	

Table 134: Main objects visible on chart 127 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5232	13h 37m 05.0s	-08° 35' 21"	12.4	Galaxy	0.012x0.011	Virgo	
NGC 5257	13h 40m 48.0s	+00° 44' 58"	12.4	Galaxy	0.013x0.006	Virgo	
NGC 5345	13h 55m 09.8s	-01° 31' 26"	12.4	Galaxy	0.013x0.012	Virgo	
NGC 5468	14h 07m 31.6s	-05° 32' 18"	12.5	Galaxy	0.02x0.019	Virgo	
NGC 5507	14h 14m 15.9s	-03° 13' 55"	12.5	Galaxy	0.013x0.007	Virgo	
NGC 5203	13h 33m 10.2s	-08° 52' 43"	12.6	Galaxy	0.015x0.009	Virgo	
NGC 5327	13h 52m 59.9s	-02° 17' 41"	12.6	Galaxy	0.015x0.013	Virgo	
IC 947	13h 53m 31.0s	+00° 43' 47"	12.6	Galaxy	0.014x0.009	Virgo	
NGC 5705	14h 40m 45.4s	-00° 47' 42"	12.7	Galaxy	0.025x0.015	Virgo	
NGC 5476	14h 09m 05.1s	-06° 10' 37"	12.8	Galaxy	0.0125x0.01	Virgo	
NGC 5604	14h 25m 39.0s	-03° 17' 34"	12.8	Galaxy	0.015x0.008	Virgo	
IC 971	14h 04m 50.3s	-10° 13' 32"	12.8	Galaxy	0.019x0.010	Virgo	
IC 998-1	14h 20m 55.6s	-04° 32' 03"	12.8	Galaxy	0.011x0.005	Virgo	IC 998-1
NGC 5241	13h 37m 36.7s	-08° 29' 35"	12.9	Galaxy	0.009x0.004	Virgo	
NGC 5343	13h 55m 08.6s	-07° 40' 35"	12.9	Galaxy	0.0125x0.01	Virgo	
NGC 5400	14h 01m 33.2s	-02° 56' 39"	12.9	Galaxy	0.012x0.007	Virgo	
IC 892	13h 32m 41.6s	-02° 48' 17"	12.9	Galaxy	0.012x0.008	Virgo	
NGC 5742	14h 46m 35.5s	-11° 53' 05"	13.0	Galaxy	0.010x0.004	Libra	
IC 976	14h 09m 38.9s	-01° 14' 49"	13.0	Galaxy	0.012x0.005	Virgo	
IC 903	13h 39m 21.5s	-00° 19' 07"	13.1	Galaxy	0.015x0.006	Virgo	
NGC 5369	13h 57m 34.2s	-05° 33' 26"	13.4	Galaxy	0.007x0.006	Virgo	
NGC 5392	14h 00m 20.9s	-03° 17' 45"	13.4	Galaxy	0.01x0.006	Virgo	
NGC 5618	14h 28m 07.7s	-02° 20' 34"	13.4	Galaxy	0.013x0.01	Virgo	
IC 920	13h 46m 22.5s	-12° 39' 50"	13.5	Galaxy	0.004x0.004	Virgo	
NGC 5478	14h 09m 04.2s	-01° 47' 13"	13.6	Galaxy	0.009x0.006	Virgo	
NGC 5741	14h 46m 50.3s	-11° 59' 19"	13.6	Galaxy	0.009x0.009	Libra	
IC 904	13h 39m 27.5s	+00° 26' 58"	13.6	Galaxy	0.01x0.005	Virgo	
IC 968-1	14h 01m 32.5s	-02° 59' 43"	13.6	Galaxy	0.006x0.004	Virgo	IC 968-1
NGC 5366	13h 57m 20.3s	-00° 20' 06"	13.7	Galaxy	0.005x0.005	Virgo	
NGC 5442	14h 05m 40.7s	-09° 47' 54"	13.7	Galaxy	0.01x0.004	Virgo	
NGC 5680	14h 36m 40.0s	-00° 05' 28"	13.7	Galaxy	0.007x0.005	Virgo	
IC 981	14h 11m 24.3s	-04° 15' 22"	13.9	Galaxy	0.005x0.002	Virgo	
IC 985	14h 12m 29.1s	-03° 18' 14"	13.9	Galaxy	0.004x0.002	Virgo	
IC 992	14h 19m 10.0s	+00° 48' 29"	13.9	Galaxy	0.010x0.006	Virgo	
NGC 5472	14h 07m 51.5s	-05° 32' 42"	14.0	Galaxy	0.01x0.0025	Virgo	
NGC 5733	14h 43m 41.3s	-00° 25' 38"	14.0	Galaxy	0.008x0.003	Virgo	
IC 908	13h 42m 15.1s	-04° 26' 06"	14.0	Galaxy	0.007x0.005	Virgo	
IC 5339	13h 54m 57.0s	-08° 01' 07"	14.1	Galaxy	0.014x0.012	Virgo	
IC 4358	14h 04m 31.7s	-10° 14' 11"	14.1	Galaxy	0.010x0.002	Virgo	
IC 4364	14h 05m 17.4s	-10° 04' 43"	14.1	Galaxy	0.005x0.005	Virgo	
IC 4368	14h 05m 43.9s	-10° 02' 50"	14.1	Galaxy	0.006x0.003	Virgo	
IC 893	13h 32m 43.2s	-02° 42' 13"	14.1	Galaxy	0.009x0.002	Virgo	
NGC 5196	13h 32m 15.2s	-01° 42' 24"	14.2	Galaxy	0.006x0.005	Virgo	
IC 997	14h 20m 21.5s	-04° 34' 20"	14.2	Galaxy	0.011x0.004	Virgo	
IC 899	13h 35m 56.1s	-08° 10' 58"	14.3	Galaxy	0.004x0.004	Virgo	
IC 5202	13h 32m 56.1s	-01° 47' 27"	14.5	Galaxy	0.010x0.002	Virgo	

Table 134: Main objects visible on chart 127 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4354	13h 59m 28.8s	-12° 41' 31"	14.5	Galaxy	0.009x0.002	Virgo	
IC 977	14h 09m 38.1s	-03° 05' 14"	14.5	Galaxy	0.005x0.005	Virgo	
IC 980	14h 11m 19.3s	-07° 25' 35"	14.5	Galaxy	0.004x0.004	Virgo	
IC 978	14h 09m 54.0s	-03° 03' 30"	14.6	Galaxy	0.005x0.002	Virgo	
IC 998-2	14h 20m 56.4s	-04° 32' 05"	14.7	Galaxy	0.003x0.003	Virgo	IC 998-2
IC 4361	14h 05m 05.0s	-09° 51' 13"	14.8	Galaxy	0.005x0.002	Virgo	
IC 924	13h 46m 35.4s	-12° 32' 42"	15.0	Galaxy	0.005x0.002	Virgo	
IC 927	13h 46m 50.0s	-12° 33' 13"	15.0	Galaxy	0.005x0.003	Virgo	
IC 969	14h 02m 42.4s	-04° 15' 58"	15.0	Galaxy	0.002x0.001	Virgo	
IC 5197	13h 32m 20.6s	-01° 47' 05"	15.1	Galaxy	0.005x0.002	Virgo	
IC 4360	14h 05m 19.2s	-11° 30' 37"	15.2	Galaxy	0.005x0.002	Virgo	
IC 4363	14h 05m 09.8s	-09° 43' 38"	15.2	Galaxy	0.004x0.003	Virgo	
IC 4372	14h 06m 43.8s	-10° 59' 06"	15.2	Galaxy	0.005x0.001	Virgo	
IC 968-2	14h 01m 33.9s	-02° 59' 33"	15.2	Galaxy	0.004x0.002	Virgo	IC 968-2

7.129 Main objects visible on chart 128

Table 135: Main objects visible on chart 128

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5713	14h 41m 06.7s	-00° 21' 60"	11.2	Galaxy	0.024x0.020	Virgo	
NGC 5812	15h 01m 53.3s	-07° 31' 41"	11.2	Galaxy	0.019x0.016	Libra	
NGC 5792	14h 59m 18.3s	-01° 09' 41"	11.3	Galaxy	0.056x0.014	Libra	
NGC 5750	14h 47m 06.3s	-00° 17' 54"	11.6	Galaxy	0.026x0.012	Virgo	
NGC 5861	15h 10m 15.1s	-11° 23' 24"	11.6	Galaxy	0.025x0.014	Libra	
NGC 5691	14h 38m 48.9s	-00° 28' 31"	11.8	Galaxy	0.015x0.011	Virgo	
NGC 5885	15h 16m 02.8s	-10° 09' 06"	11.8	Galaxy	0.029x0.025	Libra	
NGC 5869	15h 10m 44.6s	+00° 24' 10"	11.9	Galaxy	0.019x0.013	Virgo	
NGC 5719	14h 41m 51.9s	-00° 23' 39"	12.2	Galaxy	0.026x0.01	Virgo	
NGC 5729	14h 43m 04.7s	-09° 05' 09"	12.2	Galaxy	0.021x0.005	Libra	
NGC 5937	15h 31m 42.5s	-02° 53' 23"	12.3	Galaxy	0.015x0.009	Serpens Caput	
NGC 5858	15h 09m 48.0s	-11° 16' 34"	12.4	Galaxy	0.012x0.005	Libra	
NGC 5768	14h 53m 04.0s	-02° 36' 12"	12.5	Galaxy	0.015x0.011	Libra	
NGC 5872	15h 11m 54.6s	-11° 32' 48"	12.6	Galaxy	0.012x0.007	Libra	
NGC 5705	14h 40m 45.4s	-00° 47' 42"	12.7	Galaxy	0.025x0.015	Virgo	
NGC 5742	14h 46m 35.5s	-11° 53' 05"	13.0	Galaxy	0.010x0.004	Libra	
NGC 5917	15h 22m 30.3s	-07° 26' 28"	13.0	Galaxy	0.013x0.007	Libra	
NGC 5913	15h 21m 51.7s	-02° 38' 32"	13.2	Galaxy	0.013x0.005	Serpens Caput	
IC 1125	15h 34m 01.6s	-01° 41' 17"	13.3	Galaxy	0.014x0.008	Serpens Caput	
NGC 5865	15h 10m 44.3s	+00° 27' 46"	13.4	Galaxy	0.009x0.008	Virgo	
IC 1060	14h 52m 44.7s	-07° 18' 19"	13.4	Galaxy	0.011x0.006	Libra	
IC 1091	15h 09m 12.2s	-11° 12' 31"	13.4	Galaxy	0.008x0.005	Libra	
NGC 5741	14h 46m 50.3s	-11° 59' 19"	13.6	Galaxy	0.009x0.009	Libra	
IC 1128	15h 38m 48.8s	-01° 47' 34"	13.6	Galaxy	0.009x0.007	Serpens Caput	
NGC 5891	15h 17m 12.3s	-11° 33' 34"	13.8	Galaxy	0.006x0.004	Libra	

Table 135: Main objects visible on chart 128 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1080	14h 58m 57.1s	-06° 47' 39"	13.8	Galaxy	0.011x0.007	Libra	
NGC 5733	14h 43m 41.3s	-00° 25' 38"	14.0	Galaxy	0.008x0.003	Virgo	
IC 1059	14h 51m 38.1s	-00° 56' 56"	14.0	Galaxy	0.006x0.005	Libra	
IC 1084	15h 02m 12.4s	-07° 32' 45"	14.2	Galaxy	0.005x0.003	Libra	
IC 1136	15h 48m 30.2s	-01° 35' 57"	14.3	Galaxy	0.004x0.004	Serpens Caput	
NGC 5973	15h 41m 14.0s	-08° 39' 29"	14.4	Galaxy	0.007x0.002	Libra	
IC 1119-1	15h 26m 41.3s	-03° 43' 15"	14.5	Galaxy	0.005x0.003	Serpens Caput	IC 1119-1
IC 1119-2	15h 26m 40.7s	-03° 42' 56"	15.5	Galaxy	0.002x0.002	Serpens Caput	IC 1119-2

7.130 Main objects visible on chart 129

Table 136: Main objects visible on chart 129

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6218	16h 48m 10.6s	-01° 58' 42"	6.1	Globular cluster	0.133x0.133	Ophiuchus	M12
NGC 6254	16h 58m 05.9s	-04° 07' 33"	6.6	Globular cluster	0.166x0.166	Ophiuchus	M10
NGC 6118	16h 22m 44.9s	-02° 19' 30"	11.7	Galaxy	0.039x0.015	Serpens Caput	
NGC 6070	16h 10m 53.7s	+00° 39' 50"	11.8	Galaxy	0.03x0.015	Serpens Caput	
NGC 6010	15h 55m 14.1s	+00° 29' 28"	12.6	Galaxy	0.016x0.004	Serpens Caput	
NGC 6172	16h 23m 06.1s	-01° 33' 20"	12.8	Galaxy	0.006x0.006	Serpens Caput	
NGC 6100	16h 17m 47.3s	+00° 47' 52"	13.0	Galaxy	0.015x0.009	Serpens Caput	
NGC 6033	16h 05m 24.0s	-02° 10' 07"	13.7	Galaxy	0.009x0.008	Serpens Caput	
NGC 6220	16h 48m 08.7s	-00° 18' 22"	13.7	Galaxy	0.014x0.007	Ophiuchus	
IC 1136	15h 48m 30.2s	-01° 35' 57"	14.3	Galaxy	0.004x0.004	Serpens Caput	
NGC 6070A	16h 11m 04.2s	+00° 43' 08"	14.6	Galaxy	0.005x0.003	Serpens Caput	6070A
IC 4627	16h 55m 07.1s	-07° 39' 51"	14.7	Galaxy	0.006x0.002	Ophiuchus	
NGC 6070B	16h 11m 07.1s	+00° 44' 15"	14.8	Galaxy	0.003x0.003	Serpens Caput	6070B

7.131 Main objects visible on chart 130

Table 137: Main objects visible on chart 130

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel186	18h 01m 30.1s	+02° 56' 02"	3.0	Open cluster	2.0x2.0	Ophiuchus	
NGC 6218	16h 48m 10.6s	-01° 58' 42"	6.1	Globular cluster	0.133x0.133	Ophiuchus	M12
NGC 6254	16h 58m 05.9s	-04° 07' 33"	6.6	Globular cluster	0.166x0.166	Ophiuchus	M10
NGC 6402	17h 38m 32.8s	-03° 15' 17"	7.6	Globular cluster	0.091x0.091	Ophiuchus	M14
NGC 6539	18h 05m 48.4s	-07° 34' 59"	8.9	Globular cluster	0.065x0.065	Serpens Cauda	
NGC 6535	18h 04m 46.2s	-00° 17' 40"	9.3	Globular cluster	0.028x0.028	Serpens Cauda	
NGC 6366	17h 28m 41.8s	-05° 05' 24"	9.5	Globular cluster	0.108x0.108	Ophiuchus	
NGC 6517	18h 02m 49.7s	-08° 57' 26"	10.1	Globular cluster	0.033x0.033	Ophiuchus	
IC 1257	17h 28m 06.7s	-07° 06' 28"	13.1	Globular cluster	0.041x0.041	Ophiuchus	
IC 4627	16h 55m 07.1s	-07° 39' 51"	14.7	Galaxy	0.006x0.002	Ophiuchus	

7.132 Main objects visible on chart 131

Table 138: Main objects visible on chart 131

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel186	18h 01m 30.1s	+02° 56' 02"	3.0	Open cluster	2.0x2.0	Ophiuchus	
NGC 6705	18h 52m 02.9s	-06° 14' 52"	5.8	Open cluster	0.091x0.091	Scutum	M11, Wild Duck cluster
NGC 6604	18h 19m 06.5s	-12° 12' 31"	6.5	Open cluster	0.05x0.05	Serpens Cauda	
NGC 6664	18h 37m 29.4s	-08° 10' 17"	7.8	Open cluster	0.1x0.1	Scutum	
NGC 6694	18h 46m 14.2s	-09° 21' 54"	8.0	Open cluster	0.066x0.066	Scutum	M26
NGC 6712	18h 54m 03.2s	-08° 40' 56"	8.1	Globular cluster	0.081x0.081	Scutum	
NGC 6539	18h 05m 48.4s	-07° 34' 59"	8.9	Globular cluster	0.065x0.065	Serpens Cauda	
NGC 6649	18h 34m 28.0s	-10° 23' 15"	8.9	Open cluster	0.05x0.05	Scutum	
NGC 6625	18h 24m 13.2s	-12° 00' 10"	9.0	Open cluster	0.325x0.325	Scutum	
NGC 6704	18h 51m 43.3s	-05° 10' 58"	9.2	Open cluster	0.05x0.05	Scutum	
NGC 6535	18h 04m 46.2s	-00° 17' 40"	9.3	Globular cluster	0.028x0.028	Serpens Cauda	
NGC 6683	18h 43m 10.6s	-06° 11' 38"	9.4	Open cluster	0.025x0.025	Scutum	
NGC 6517	18h 02m 49.7s	-08° 57' 26"	10.1	Globular cluster	0.033x0.033	Ophiuchus	
IC 1276	18h 11m 44.1s	-07° 12' 22"	10.3	Globular cluster	0.066x0.066	Serpens Cauda	
NGC 6741	19h 03m 32.5s	-00° 25' 18"	11.5	Planetary Nebula	0.001x0.001	Aquila	
NGC 6631	18h 28m 09.9s	-12° 00' 52"	11.7	Open cluster	0.058x0.058	Scutum	
NGC 6751	19h 06m 53.3s	-05° 57' 47"	11.9	Planetary Nebula	0.003x0.003	Aquila	
IC 1295	18h 55m 36.1s	-08° 48' 09"	12.5	Planetary Nebula	0.012x0.012	Scutum	

7.133 Main objects visible on chart 132

Table 139: Main objects visible on chart 132

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6814	19h 43m 39.8s	-10° 16' 51"	11.2	Galaxy	0.025x0.023	Aquila	
NGC 6741	19h 03m 32.5s	-00° 25' 18"	11.5	Planetary Nebula	0.001x0.001	Aquila	
NGC 6751	19h 06m 53.3s	-05° 57' 47"	11.9	Planetary Nebula	0.003x0.003	Aquila	
IC 4846	19h 17m 27.3s	-09° 00' 36"	11.9	Planetary Nebula	0.001x0.001	Aquila	
NGC 6785	19h 19m 20.9s	-01° 33' 43"	12.3	Planetary Nebula	0.005x0.005	Aquila	
NGC 6835	19h 55m 32.8s	-12° 31' 09"	12.5	Galaxy	0.02x0.005	Sagittarius	
NGC 6772	19h 15m 32.8s	-02° 40' 26"	12.7	Planetary Nebula	0.011x0.011	Aquila	
NGC 6836	19h 55m 40.4s	-12° 38' 24"	12.9	Galaxy	0.014x0.012	Sagittarius	
NGC 6821	19h 45m 22.1s	-06° 47' 25"	13.1	Galaxy	0.010x0.009	Aquila	
NGC 6865	20h 06m 55.0s	-08° 59' 17"	15.0	Galaxy	0.006x0.005	Aquila	

7.134 Main objects visible on chart 133

Table 140: Main objects visible on chart 133

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7009	21h 05m 09.5s	-11° 17' 27"	8.0	Planetary Nebula	0.008x0.004	Aquarius	CALDWELL 55, Saturn nebula

Table 140: Main objects visible on chart 133 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6981	20h 54m 27.1s	-12° 28' 03"	9.2	Globular cluster	0.055x0.055	Aquarius	M72
NGC 6962	20h 48m 14.1s	+00° 23' 20"	12.1	Galaxy	0.024x0.018	Aquarius	
NGC 6915	20h 28m 42.4s	-03° 00' 59"	12.2	Galaxy	0.012x0.007	Aquila	
NGC 6926	20h 34m 01.9s	-01° 57' 60"	12.4	Galaxy	0.016x0.011	Aquila	
NGC 6941	20h 37m 20.3s	-04° 33' 20"	12.8	Galaxy	0.016x0.011	Aquila	
NGC 7001	21h 02m 03.1s	-00° 07' 24"	12.9	Galaxy	0.011x0.009	Aquarius	
NGC 6964	20h 48m 19.5s	+00° 22' 06"	13.0	Galaxy	0.014x0.010	Aquarius	CALDWELL 12
NGC 7010	21h 05m 38.4s	-12° 15' 55"	13.0	Galaxy	0.015x0.008	Aquarius	
NGC 7051	21h 20m 49.0s	-08° 42' 20"	13.0	Galaxy	0.011x0.009	Aquarius	
NGC 6898	20h 22m 07.6s	-12° 18' 03"	13.1	Galaxy	0.01x0.005	Capricornus	
NGC 6967	20h 48m 29.2s	+00° 28' 45"	13.1	Galaxy	0.007x0.005	Aquarius	
NGC 6977	20h 53m 26.7s	-05° 40' 38"	13.2	Galaxy	0.010x0.007	Aquarius	
NGC 6968	20h 49m 30.4s	-08° 17' 32"	13.3	Galaxy	0.012x0.009	Aquarius	
NGC 6978	20h 53m 32.5s	-05° 38' 33"	13.3	Galaxy	0.012x0.005	Aquarius	
NGC 6929	20h 34m 17.6s	-01° 58' 28"	13.4	Galaxy	0.006x0.005	Aquila	
NGC 6945	20h 39m 57.4s	-04° 54' 29"	13.4	Galaxy	0.013x0.006	Aquarius	
NGC 7047	21h 17m 23.0s	-00° 45' 02"	13.4	Galaxy	0.01x0.005	Aquarius	
NGC 6900	20h 22m 31.3s	-02° 30' 41"	13.5	Galaxy	0.008x0.006	Aquila	
NGC 6922	20h 30m 48.9s	-02° 07' 50"	13.5	Galaxy	0.010x0.008	Aquila	
NGC 6931	20h 34m 40.5s	-11° 18' 23"	13.5	Galaxy	0.008x0.003	Capricornus	
IC 1324	20h 33m 10.6s	-08° 59' 37"	13.5	Galaxy	0.012x0.011	Capricornus	
IC 5050	20h 46m 12.1s	-05° 33' 24"	13.5	Galaxy	0.010x0.007	Aquarius	
IC 5090	21h 12m 26.5s	-01° 57' 27"	13.5	Galaxy	0.01x0.004	Aquarius	
NGC 6959	20h 48m 02.4s	+00° 29' 50"	13.7	Galaxy	0.005x0.002	Aquarius	
NGC 6961	20h 48m 05.6s	+00° 25' 51"	13.7	Galaxy	0.005x0.004	Aquarius	
IC 1331	20h 48m 47.3s	-09° 55' 42"	13.7	Galaxy	0.015x0.005	Aquarius	
NGC 6897	20h 22m 00.9s	-12° 11' 49"	13.8	Galaxy	0.007x0.004	Capricornus	
NGC 6985	20h 46m 01.9s	-11° 02' 16"	13.8	Galaxy	0.012x0.006	Aquarius	
IC 1317	20h 24m 10.6s	+00° 43' 25"	13.8	Galaxy	0.005x0.005	Aquila	
IC 1371	21h 21m 12.3s	-04° 47' 57"	13.8	Galaxy	0.007x0.005	Aquarius	
NGC 6965	20h 48m 15.7s	+00° 33' 04"	14.0	Galaxy	0.005x0.003	Aquarius	
NGC 6976	20h 53m 23.0s	-05° 42' 10"	14.0	Galaxy	0.006x0.005	Aquarius	
IC 1327	20h 36m 36.6s	+00° 03' 28"	14.0	Galaxy	0.007x0.006	Aquila	
IC 1357	21h 06m 55.7s	-10° 38' 35"	14.3	Galaxy	0.010x0.005	Aquarius	
NGC 6985A	20h 46m 00.3s	-11° 02' 31"	14.7	Galaxy	0.004x0.002	Aquarius	6985A
IC 1372	21h 21m 14.0s	-05° 31' 40"	14.7	Galaxy	0.006x0.003	Aquarius	
NGC 6865	20h 06m 55.0s	-08° 59' 17"	15.0	Galaxy	0.006x0.005	Aquila	
IC 5089	21h 11m 50.8s	-03° 47' 17"	15.2	Galaxy	0.005x0.002	Aquarius	

7.135 Main objects visible on chart 134

Table 141: Main objects visible on chart 134

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7089	21h 34m 22.8s	-00° 44' 32"	6.6	Globular cluster	0.133x0.133	Aquarius	M2

Table 141: Main objects visible on chart 134 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7257	22h 23m 32.6s	-04° 01' 46"	12.7	Galaxy	0.015x0.011	Aquarius	
NGC 7051	21h 20m 49.0s	-08° 42' 20"	13.0	Galaxy	0.011x0.009	Aquarius	
NGC 7065A	21h 27m 55.0s	-06° 56' 32"	13.1	Galaxy	0.008x0.007	Aquarius	7065A
NGC 7105	21h 42m 39.2s	-10° 33' 09"	13.3	Galaxy	0.008x0.004	Capricornus	
NGC 7198	22h 06m 09.6s	-00° 33' 35"	13.3	Galaxy	0.012x0.008	Aquarius	
NGC 7047	21h 17m 23.0s	-00° 45' 02"	13.4	Galaxy	0.01x0.005	Aquarius	
NGC 7065	21h 27m 39.4s	-06° 54' 58"	13.4	Galaxy	0.009x0.007	Aquarius	NGC 7065A
NGC 7069	21h 29m 01.6s	-01° 34' 02"	13.4	Galaxy	0.010x0.006	Aquarius	
NGC 7121	21h 45m 48.8s	-03° 32' 11"	13.4	Galaxy	0.009x0.005	Aquarius	
NGC 7266	22h 24m 55.0s	-03° 58' 53"	13.4	Galaxy	0.007x0.005	Aquarius	
IC 1411	21h 56m 56.2s	-01° 25' 50"	13.4	Galaxy	0.007x0.004	Aquarius	
NGC 7073	21h 30m 24.3s	-11° 24' 33"	13.5	Galaxy	0.007x0.006	Capricornus	
NGC 7189	22h 04m 11.1s	+00° 39' 32"	13.5	Galaxy	0.008x0.005	Aquarius	
IC 5090	21h 12m 26.5s	-01° 57' 27"	13.5	Galaxy	0.01x0.004	Aquarius	
NGC 7170	22h 02m 22.8s	-05° 20' 42"	13.8	Galaxy	0.01x0.006	Aquarius	
NGC 7239	22h 15m 57.6s	-04° 57' 46"	13.8	Galaxy	0.009x0.005	Aquarius	
IC 1371	21h 21m 12.3s	-04° 47' 57"	13.8	Galaxy	0.007x0.005	Aquarius	
NGC 7215	22h 09m 29.7s	+00° 36' 03"	13.9	Galaxy	0.009x0.003	Aquarius	
NGC 7120	21h 45m 30.1s	-06° 26' 23"	14.0	Galaxy	0.006x0.003	Aquarius	
NGC 7181	22h 02m 39.1s	-01° 52' 22"	14.0	Galaxy	0.008x0.006	Aquarius	
IC 1404	21h 51m 53.7s	-09° 10' 53"	14.0	Galaxy	0.006x0.006	Capricornus	
NGC 7108	21h 42m 50.6s	-06° 37' 33"	14.1	Galaxy	0.011x0.007	Aquarius	
IC 1388	21h 30m 47.6s	-00° 33' 04"	14.2	Galaxy	0.003x0.001	Aquarius	
NGC 7211	22h 07m 18.8s	-08° 00' 04"	14.3	Galaxy	0.008x0.005	Aquarius	
NGC 7182	22h 02m 47.4s	-02° 06' 32"	14.4	Galaxy	0.007x0.003	Aquarius	
IC 1383	21h 28m 35.1s	-01° 01' 24"	14.5	Galaxy	0.003x0.001	Aquarius	
IC 1387	21h 30m 30.1s	-01° 16' 16"	14.5	Galaxy	0.003x0.002	Aquarius	
IC 1390	21h 33m 20.7s	-01° 46' 54"	14.5	Galaxy	0.005x0.005	Aquarius	
IC 1397	21h 44m 58.7s	-04° 48' 04"	14.5	Galaxy	0.005x0.002	Aquarius	
IC 1381	21h 28m 29.3s	-01° 06' 33"	14.6	Galaxy	0.006x0.004	Aquarius	
IC 1372	21h 21m 14.0s	-05° 31' 40"	14.7	Galaxy	0.006x0.003	Aquarius	
IC 1384	21h 28m 48.7s	-01° 17' 22"	14.7	Galaxy	0.005x0.004	Aquarius	
IC 1391	21h 35m 55.9s	-00° 25' 50"	14.7	Galaxy	0.001x0.001	Aquarius	
IC 1433	22h 13m 08.3s	-12° 40' 32"	14.7	Galaxy	0.005x0.004	Aquarius	
IC 1421	22h 04m 01.3s	-09° 53' 25"	14.8	Galaxy	0.003x0.002	Aquarius	
IC 1436	22h 14m 48.6s	-10° 06' 06"	14.8	Galaxy	0.005x0.005	Aquarius	
IC 1410	21h 56m 58.1s	-02° 48' 49"	14.9	Galaxy	0.004x0.002	Aquarius	
IC 5126	21h 41m 25.5s	-06° 15' 49"	14.9	Galaxy	0.004x0.004	Aquarius	
IC 1385	21h 29m 46.7s	-00° 59' 25"	15.0	Galaxy	0.003x0.003	Aquarius	
IC 1409	21h 54m 16.5s	-07° 24' 52"	15.2	Galaxy	0.004x0.002	Aquarius	
IC 1413-2	21h 59m 22.8s	-03° 00' 54"	15.2	Galaxy	0.005x0.001	Aquarius	IC 1413-2
IC 1419	22h 03m 56.2s	-09° 49' 59"	15.2	Galaxy	0.003x0.001	Aquarius	
IC 5089	21h 11m 50.8s	-03° 47' 17"	15.2	Galaxy	0.005x0.002	Aquarius	
IC 1413-1	21h 59m 21.3s	-03° 02' 17"	15.7	Galaxy	0.007x0.001	Aquarius	IC 1413-1
IC 1403	21h 51m 25.0s	-02° 37' 51"	15.8	Galaxy	0.004x0.002	Aquarius	

7.136 Main objects visible on chart 135

Table 142: Main objects visible on chart 135

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7606	23h 20m 00.8s	-08° 23' 16"	10.8	Galaxy	0.045x0.017	Aquarius	
NGC 7585	23h 18m 57.0s	-04° 33' 06"	11.4	Galaxy	0.019x0.016	Aquarius	
NGC 7371	22h 47m 00.4s	-10° 54' 20"	11.5	Galaxy	0.016x0.016	Aquarius	
NGC 7443	23h 01m 05.4s	-12° 42' 39"	11.6	Galaxy	0.011x0.004	Aquarius	
NGC 7391	22h 51m 31.5s	-01° 26' 56"	11.9	Galaxy	0.014x0.012	Aquarius	
NGC 7600	23h 19m 49.7s	-07° 28' 53"	12.0	Galaxy	0.020x0.008	Aquarius	
NGC 7416	22h 56m 37.6s	-05° 23' 55"	12.4	Galaxy	0.026x0.005	Aquarius	
NGC 7309	22h 35m 17.5s	-10° 15' 46"	12.5	Galaxy	0.016x0.014	Aquarius	
NGC 7428	22h 58m 15.0s	-00° 57' 09"	12.5	Galaxy	0.02x0.011	Pisces	
NGC 7364	22h 45m 19.6s	-00° 04' 03"	12.6	Galaxy	0.015x0.009	Aquarius	
NGC 7257	22h 23m 32.6s	-04° 01' 46"	12.7	Galaxy	0.015x0.011	Aquarius	
NGC 7378	22h 48m 44.4s	-11° 43' 17"	12.7	Galaxy	0.012x0.007	Aquarius	
NGC 7556	23h 16m 39.9s	-02° 16' 59"	12.7	Galaxy	0.020x0.013	Pisces	
IC 1447	22h 30m 56.0s	-05° 01' 36"	12.8	Galaxy	0.012x0.006	Aquarius	
NGC 7351	22h 42m 22.9s	-04° 20' 59"	12.9	Galaxy	0.015x0.008	Aquarius	
NGC 7393	22h 52m 34.2s	-05° 27' 41"	12.9	Galaxy	0.016x0.007	Aquarius	
NGC 7444	23h 01m 05.6s	-12° 44' 14"	12.9	Galaxy	0.014x0.005	Aquarius	
NGC 7506	23h 12m 36.5s	-02° 03' 42"	12.9	Galaxy	0.014x0.009	Pisces	
NGC 7576	23h 18m 18.4s	-04° 37' 45"	12.9	Galaxy	0.010x0.007	Aquarius	
NGC 7288	22h 29m 10.7s	-02° 47' 32"	13.0	Galaxy	0.019x0.012	Aquarius	
NGC 7603	23h 19m 51.7s	+00° 20' 34"	13.2	Galaxy	0.013x0.008	Pisces	
NGC 7566	23h 17m 32.9s	-02° 13' 55"	13.3	Galaxy	0.011x0.005	Pisces	
NGC 7646	23h 25m 03.0s	-11° 45' 41"	13.3	Galaxy	0.007x0.005	Aquarius	
NGC 7665	23h 28m 10.7s	-09° 17' 14"	13.3	Galaxy	0.005x0.005	Aquarius	
IC 1492	23h 31m 31.5s	-02° 56' 24"	13.3	Galaxy	0.008x0.006	Pisces	
NGC 7266	22h 24m 55.0s	-03° 58' 53"	13.4	Galaxy	0.007x0.005	Aquarius	
IC 1466	23h 04m 34.6s	-02° 40' 42"	13.4	Galaxy	0.004x0.003	Pisces	
IC 1496	23h 31m 48.9s	-02° 50' 04"	13.4	Galaxy	0.014x0.011	Pisces	
IC 5304	23h 19m 48.6s	-10° 09' 37"	13.4	Galaxy	0.011x0.007	Aquarius	
NGC 7592	23h 19m 17.7s	-04° 19' 04"	13.5	Galaxy	0.009x0.007	Aquarius	
NGC 7406	22h 54m 52.5s	-06° 28' 58"	13.6	Galaxy	0.009x0.005	Aquarius	
NGC 7684	23h 31m 27.3s	+00° 10' 51"	13.6	Galaxy	0.012x0.003	Pisces	
IC 1471	23h 09m 41.5s	-12° 32' 29"	13.6	Galaxy	0.006x0.003	Aquarius	
NGC 7344	22h 40m 32.0s	-04° 03' 53"	13.7	Galaxy	0.012x0.006	Aquarius	
NGC 7399	22h 53m 35.8s	-09° 10' 17"	13.7	Galaxy	0.007x0.003	Aquarius	
IC 1479	23h 19m 42.4s	-10° 17' 60"	13.7	Galaxy	0.009x0.008	Aquarius	
IC 1498	23h 32m 49.1s	-04° 54' 25"	13.7	Galaxy	0.015x0.005	Aquarius	
NGC 7239	22h 15m 57.6s	-04° 57' 46"	13.8	Galaxy	0.009x0.005	Aquarius	
NGC 7441	22h 57m 37.6s	-07° 16' 60"	13.8	Galaxy	0.010x0.006	Aquarius	
NGC 7491	23h 09m 01.9s	-05° 52' 07"	13.8	Galaxy	0.008x0.005	Aquarius	
NGC 7532	23h 15m 17.8s	-02° 37' 46"	13.8	Galaxy	0.011x0.005	Pisces	
NGC 7534	23h 15m 22.1s	-02° 36' 04"	13.8	Galaxy	0.008x0.005	Pisces	
NGC 7521	23h 14m 30.8s	-01° 37' 56"	13.9	Galaxy	0.005x0.004	Pisces	
NGC 7667	23h 25m 18.5s	-00° 00' 34"	13.9	Galaxy	0.013x0.009	Pisces	

Table 142: Main objects visible on chart 135 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7589	23h 19m 10.9s	+00° 21' 37"	14.1	Galaxy	0.009x0.005	Pisces	
NGC 7425	22h 58m 12.2s	-10° 51' 12"	14.2	Galaxy	0.007x0.005	Aquarius	
NGC 7596	23h 18m 07.9s	-06° 48' 47"	14.2	Galaxy	0.008x0.004	Aquarius	
IC 1451	22h 47m 04.1s	-10° 16' 31"	14.2	Galaxy	0.004x0.004	Aquarius	
IC 1467	23h 05m 45.3s	-03° 08' 01"	14.2	Galaxy	0.006x0.002	Pisces	
IC 1468	23h 06m 03.0s	-03° 06' 28"	14.2	Galaxy	0.009x0.004	Pisces	
IC 1489	23h 27m 28.2s	-12° 25' 02"	14.2	Galaxy	0.003x0.001	Aquarius	
NGC 7517	23h 14m 09.3s	-02° 00' 07"	14.4	Galaxy	0.005x0.002	Pisces	
NGC 7530	23h 15m 07.3s	-02° 40' 50"	14.6	Galaxy	0.007x0.004	Pisces	
IC 1464A	23h 04m 07.3s	-08° 53' 29"	14.6	Galaxy	0.005x0.003	Aquarius	IC 1464A
NGC 7554	23h 16m 36.8s	-02° 16' 47"	14.9	Galaxy	0.003x0.003	Pisces	
IC 1464B	23h 04m 08.3s	-08° 53' 42"	14.9	Galaxy	0.004x0.002	Aquarius	IC 1464B
NGC 7556A	23h 16m 39.2s	-02° 17' 15"	15.0	Galaxy	0.002x0.001	Pisces	7556A
IC 1449	22h 36m 03.7s	-08° 40' 19"	15.0	Galaxy	0.004x0.003	Aquarius	
IC 1456	22h 56m 15.0s	-12° 38' 08"	15.0	Galaxy	0.005x0.001	Aquarius	
NGC 7434	22h 59m 16.9s	-01° 05' 12"	15.1	Galaxy	0.005x0.002	Pisces	
NGC 7524	23h 14m 42.0s	-01° 37' 56"	15.1	Galaxy	0.006x0.002	Pisces	
NGC 7533	23h 15m 17.5s	-01° 56' 06"	15.1	Galaxy	0.005x0.002	Pisces	
NGC 7544	23h 15m 52.4s	-02° 06' 02"	15.1	Galaxy	0.006x0.001	Pisces	
NGC 7546	23h 16m 01.0s	-02° 13' 38"	15.1	Galaxy	0.009x0.007	Pisces	
IC 1446	22h 30m 00.1s	-01° 05' 30"	15.1	Galaxy	0.005x0.002	Aquarius	
IC 1494	23h 31m 42.1s	-12° 37' 29"	15.1	Galaxy	0.004x0.001	Aquarius	
IC 5278	23h 01m 12.1s	-08° 04' 54"	15.2	Galaxy	0.01x0.003	Aquarius	

7.137 Main objects visible on chart 136

Table 143: Main objects visible on chart 136

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 457	00h 14m 58.7s	-23° 04' 53"	10.6	Galaxy	0.070x0.049	Cetus	CALDWELL 13, Owl cluster
NGC 7727	23h 40m 49.5s	-12° 11' 35"	10.6	Galaxy	0.039x0.029	Aquarius	
NGC 7723	23h 39m 52.8s	-12° 51' 41"	11.2	Galaxy	0.029x0.018	Aquarius	
NGC 1712	00h 38m 15.4s	-19° 50' 08"	12.2	Galaxy	0.017x0.015	Cetus	
NGC 598	00h 16m 20.0s	-21° 20' 41"	12.4	Galaxy	0.021x0.010	Cetus	M33, Triangulum galaxy
NGC 7709	23h 36m 23.3s	-16° 36' 21"	12.6	Galaxy	0.019x0.005	Aquarius	
NGC 7717	23h 38m 39.6s	-15° 01' 08"	12.8	Galaxy	0.011x0.01	Aquarius	
IC 1562	00h 39m 27.3s	-24° 10' 30"	12.8	Galaxy	0.013x0.012	Cetus	
NGC 2099	00h 39m 57.5s	-18° 30' 35"	12.9	Galaxy	0.009x0.009	Cetus	M37
NGC 7724	23h 40m 02.8s	-12° 07' 28"	12.9	Galaxy	0.012x0.008	Aquarius	
NGC 7736	23h 43m 21.7s	-19° 21' 09"	12.9	Galaxy	0.014x0.012	Aquarius	
NGC 7759	23h 49m 50.3s	-16° 26' 27"	13.0	Galaxy	0.010x0.007	Aquarius	
IC 5321	23h 27m 16.5s	-17° 51' 27"	13.0	Galaxy	0.010x0.006	Aquarius	
NGC 7761	23h 52m 24.4s	-13° 16' 51"	13.1	Galaxy	0.01x0.01	Aquarius	
NGC 7821	00h 06m 11.7s	-16° 22' 34"	13.1	Galaxy	0.011x0.004	Cetus	
NGC 6231	00h 18m 00.2s	-13° 23' 11"	13.2	Galaxy	0.009x0.006	Cetus	CALDWELL 76

Table 143: Main objects visible on chart 136 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1778	00h 38m 28.0s	-22° 27' 01"	13.3	Galaxy	0.018x0.004	Cetus	
NGC 1798	00h 38m 40.4s	-17° 45' 04"	13.3	Galaxy	0.007x0.005	Cetus	
NGC 7646	23h 25m 03.0s	-11° 45' 41"	13.3	Galaxy	0.007x0.005	Aquarius	
IC 1495	23h 31m 43.6s	-13° 23' 09"	13.3	Galaxy	0.011x0.008	Aquarius	
NGC 1727	00h 38m 07.3s	-22° 29' 16"	13.4	Galaxy	0.016x0.002	Cetus	
NGC 1027	00h 25m 31.2s	-13° 51' 23"	13.5	Galaxy	0.008x0.005	Cetus	
NGC 6633	00h 19m 59.4s	-22° 50' 12"	13.5	Galaxy	0.01x0.005	Cetus	
NGC 7656	23h 25m 28.1s	-18° 57' 36"	13.5	Galaxy	0.01x0.009	Aquarius	
IC 1529	00h 06m 08.3s	-11° 24' 07"	13.6	Galaxy	0.01x0.009	Cetus	
IC 5343	23h 40m 18.6s	-22° 23' 51"	13.6	Galaxy	0.006x0.005	Aquarius	
NGC 1672	00h 36m 16.6s	-23° 16' 33"	13.7	Galaxy	0.008x0.005	Cetus	
NGC 7380	00h 19m 33.7s	-15° 13' 18"	13.7	Galaxy	0.014x0.01	Cetus	
IC 5345	23h 40m 28.5s	-22° 18' 49"	13.7	Galaxy	0.006x0.005	Aquarius	
NGC 1425	00h 32m 01.9s	-22° 31' 13"	13.8	Galaxy	0.009x0.005	Cetus	
NGC 1444	00h 32m 14.7s	-22° 32' 49"	13.8	Galaxy	0.006x0.006	Cetus	
IC 1520	23h 58m 49.9s	-13° 56' 19"	13.8	Galaxy	0.005x0.005	Cetus	
IC 20	00h 29m 34.3s	-12° 54' 37"	13.8	Galaxy	0.005x0.005	Cetus	
NGC 6530	00h 19m 53.2s	-22° 46' 49"	13.9	Galaxy	0.008x0.006	Cetus	
NGC 7776	23h 55m 12.0s	-13° 29' 10"	13.9	Galaxy	0.007x0.002	Aquarius	
NGC 7828	00h 07m 22.3s	-13° 18' 56"	13.9	Galaxy	0.008x0.004	Cetus	
NGC 7829	00h 07m 24.3s	-13° 19' 15"	13.9	Galaxy	0.009x0.005	Cetus	
NGC 1545	00h 35m 13.9s	-12° 33' 24"	14.0	Galaxy	0.009x0.007	Cetus	
NGC 1684	00h 37m 32.3s	-22° 29' 41"	14.0	Galaxy	0.01x0.0025	Cetus	
NGC 7730	23h 41m 41.9s	-20° 24' 32"	14.0	Galaxy	0.005x0.005	Aquarius	
IC 23	00h 31m 45.3s	-12° 37' 14"	14.0	Galaxy	0.005x0.005	Cetus	
IC 38	00h 39m 33.0s	-15° 19' 13"	14.0	Galaxy	0.007x0.005	Cetus	
NGC 3532	00h 12m 05.5s	-11° 55' 14"	14.1	Galaxy	0.005x0.004	Cetus	CALDWELL 91
NGC 7758	23h 49m 50.9s	-21° 55' 27"	14.1	Galaxy	0.005x0.004	Aquarius	
IC 1491	23h 30m 20.8s	-16° 13' 00"	14.1	Galaxy	0.004x0.002	Aquarius	
IC 1561	00h 39m 25.9s	-24° 14' 29"	14.1	Galaxy	0.01x0.004	Cetus	
IC 19	00h 29m 34.1s	-11° 32' 27"	14.1	Galaxy	0.006x0.004	Cetus	
NGC 7719-1	23h 38m 58.9s	-22° 52' 30"	14.2	Galaxy	0.007x0.005	Aquarius	7719-1
NGC 7813	00h 05m 04.5s	-11° 53' 01"	14.2	Galaxy	0.006x0.002	Cetus	
IC 1489	23h 27m 28.2s	-12° 25' 02"	14.2	Galaxy	0.003x0.001	Aquarius	
NGC 1662	00h 36m 43.2s	-13° 30' 42"	14.3	Galaxy	0.007x0.002	Cetus	
NGC 7763	23h 51m 11.3s	-16° 29' 23"	14.3	Galaxy	0.005x0.003	Aquarius	
IC 1434	00h 32m 09.5s	-22° 27' 39"	14.4	Galaxy	0.008x0.001	Cetus	
NGC 1778	00h 12m 01.7s	-12° 00' 28"	14.4	Galaxy	0.017x0.006	Cetus	
IC 9	00h 20m 39.0s	-14° 01' 18"	14.4	Galaxy	0.003x0.002	Cetus	
NGC 7754	23h 50m 06.9s	-16° 30' 02"	14.5	Galaxy	0.005x0.002	Aquarius	
IC 1509	23h 48m 12.3s	-15° 12' 26"	14.5	Galaxy	0.011x0.001	Aquarius	
IC 36	00h 38m 43.9s	-15° 20' 31"	14.5	Galaxy	0.005x0.005	Cetus	
NGC 7807	00h 01m 21.9s	-18° 44' 30"	14.6	Galaxy	0.005x0.004	Cetus	
IC 16	00h 29m 02.4s	-12° 59' 41"	14.6	Galaxy	0.004x0.002	Cetus	
IC 18	00h 29m 29.7s	-11° 29' 13"	14.6	Galaxy	0.009x0.005	Cetus	
IC 2	00h 11m 55.9s	-12° 43' 20"	14.7	Galaxy	0.006x0.001	Cetus	

Table 143: Main objects visible on chart 136 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7789	00h 20m 56.1s	-22° 25' 57"	14.8	Galaxy	0.003x0.003	Cetus	
NGC 7759A	23h 49m 52.5s	-16° 26' 26"	14.8	Galaxy	0.005x0.001	Aquarius	7759A
IC 27	00h 34m 00.7s	-13° 16' 19"	14.8	Galaxy	0.005x0.005	Cetus	
IC 5310	23h 21m 44.7s	-22° 03' 00"	14.8	Galaxy	0.004x0.004	Aquarius	
IC 28	00h 34m 03.1s	-13° 21' 24"	14.9	Galaxy	0.005x0.004	Cetus	
IC 37	00h 39m 28.4s	-15° 15' 35"	14.9	Galaxy	0.006x0.003	Cetus	
NGC 135	00h 32m 40.5s	-13° 14' 19"	15.1	Galaxy	0.004x0.004	Cetus	IC 26
IC 1494	23h 31m 42.1s	-12° 37' 29"	15.1	Galaxy	0.004x0.001	Aquarius	
NGC 7754A	23h 50m 02.1s	-16° 28' 45"	15.5	Galaxy	0.003x0.001	Aquarius	7754A

7.138 Main objects visible on chart 137

Table 144: Main objects visible on chart 137

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2477	00h 48m 01.8s	-20° 39' 43"	9.1	Galaxy	0.16x0.045	Cetus	CALDWELL 71
NGC 2100	00h 41m 29.1s	-13° 46' 26"	10.9	Galaxy	0.041x0.027	Cetus	
NGC 246	00h 47m 57.6s	-11° 46' 24"	10.9	Planetary Nebula	0.034x0.034	Cetus	CALDWELL 56, Skull nebula
NGC 578	01h 31m 20.4s	-22° 34' 27"	10.9	Galaxy	0.04x0.025	Cetus	
IC 2553	00h 48m 41.6s	-11° 22' 13"	11.9	Galaxy	0.025x0.022	Cetus	
NGC 1712	00h 38m 15.4s	-19° 50' 08"	12.2	Galaxy	0.017x0.015	Cetus	
NGC 6866	01h 49m 46.5s	-23° 42' 33"	12.2	Galaxy	0.014x0.011	Fornax	
NGC 1782	00h 40m 02.7s	-14° 04' 25"	12.6	Galaxy	0.017x0.007	Cetus	
IC 1562	00h 39m 27.3s	-24° 10' 30"	12.8	Galaxy	0.013x0.012	Cetus	
IC 51	00h 47m 18.4s	-13° 20' 36"	12.8	Galaxy	0.011x0.010	Cetus	
NGC 2099	00h 39m 57.5s	-18° 30' 35"	12.9	Galaxy	0.009x0.009	Cetus	M37
NGC 2447	00h 46m 40.5s	-15° 29' 57"	12.9	Galaxy	0.01x0.008	Cetus	M93
IC 1610	01h 02m 36.3s	-15° 28' 16"	12.9	Galaxy	0.011x0.008	Cetus	
NGC 1871	00h 40m 24.5s	-14° 33' 28"	13.2	Galaxy	0.010x0.004	Cetus	
NGC 2168	00h 42m 20.8s	-20° 56' 48"	13.2	Galaxy	0.016x0.005	Cetus	M35
235A	00h 43m 46.1s	-23° 26' 34"	13.2	Galaxy	0.010x0.005	Cetus	235A
IC 93	01h 19m 55.1s	-16° 58' 01"	13.2	Galaxy	0.010x0.005	Cetus	
NGC 1778	00h 38m 28.0s	-22° 27' 01"	13.3	Galaxy	0.018x0.004	Cetus	
NGC 1798	00h 38m 40.4s	-17° 45' 04"	13.3	Galaxy	0.007x0.005	Cetus	
NGC 2323	00h 43m 39.1s	-23° 27' 48"	13.3	Galaxy	0.007x0.006	Cetus	M50
NGC 1727	00h 38m 07.3s	-22° 29' 16"	13.4	Galaxy	0.016x0.002	Cetus	
NGC 4872	01h 22m 47.9s	-16° 16' 34"	13.4	Galaxy	0.009x0.005	Cetus	
NGC 5999	01h 33m 47.0s	-12° 05' 56"	13.4	Galaxy	0.011x0.010	Cetus	
NGC 6823	01h 49m 56.8s	-14° 53' 08"	13.4	Galaxy	0.011x0.009	Cetus	
235B	00h 43m 47.2s	-23° 26' 49"	13.5	Galaxy	0.003x0.003	Cetus	235B
NGC 5395	01h 26m 14.2s	-18° 04' 16"	13.5	Galaxy	0.013x0.010	Cetus	
NGC 5946	01h 33m 49.5s	-16° 26' 36"	13.5	Galaxy	0.011x0.005	Cetus	
IC 78	01h 09m 40.9s	-15° 44' 57"	13.5	Galaxy	0.014x0.005	Cetus	
NGC 5546	01h 28m 01.2s	-22° 37' 57"	13.6	Galaxy	0.007x0.004	Cetus	
IC 141	01h 33m 44.5s	-14° 43' 22"	13.6	Galaxy	0.010x0.008	Cetus	

Table 144: Main objects visible on chart 137 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1667	01h 19m 35.1s	-16° 57' 22"	13.6	Galaxy	0.008x0.007	Cetus	
IC 1670A	01h 19m 41.6s	-16° 42' 34"	13.6	Galaxy	0.015x0.003	Cetus	IC 1670A
IC 1670B	01h 19m 45.7s	-16° 42' 32"	13.6	Galaxy	0.011x0.003	Cetus	IC 1670B
NGC 1672	00h 36m 16.6s	-23° 16' 33"	13.7	Galaxy	0.008x0.005	Cetus	
NGC 2075	00h 40m 35.0s	-14° 08' 16"	13.7	Galaxy	0.007x0.003	Cetus	
IC 1574	00h 43m 57.5s	-22° 08' 52"	13.7	Galaxy	0.017x0.006	Cetus	
IC 1601	00h 56m 27.4s	-24° 03' 22"	13.7	Galaxy	0.007x0.003	Cetus	
IC 1622	01h 08m 29.7s	-17° 26' 34"	13.7	Galaxy	0.005x0.004	Cetus	
NGC 1425	00h 32m 01.9s	-22° 31' 13"	13.8	Galaxy	0.009x0.005	Cetus	
NGC 1444	00h 32m 14.7s	-22° 32' 49"	13.8	Galaxy	0.006x0.006	Cetus	
NGC 3201	00h 59m 39.4s	-20° 44' 36"	13.8	Galaxy	0.006x0.004	Cetus	CALDWELL 79
NGC 3699	01h 06m 02.0s	-17° 39' 47"	13.8	Galaxy	0.008x0.006	Cetus	NGC 3690B
554A	01h 28m 01.1s	-22° 37' 50"	13.8	Galaxy	0.002x0.002	Cetus	554A
IC 82	01h 09m 59.1s	-15° 54' 17"	13.8	Galaxy	0.006x0.005	Cetus	
NGC 3330	00h 59m 44.8s	-16° 22' 19"	13.9	Galaxy	0.013x0.007	Cetus	
NGC 4781	01h 21m 00.9s	-22° 17' 02"	13.9	Galaxy	0.007x0.005	Cetus	
IC 160	01h 47m 22.3s	-13° 09' 28"	13.9	Galaxy	0.010x0.006	Cetus	
IC 1623A	01h 08m 39.9s	-17° 24' 39"	13.9	Galaxy	0.007x0.005	Cetus	IC 1623A
NGC 1545	00h 35m 13.9s	-12° 33' 24"	14.0	Galaxy	0.009x0.007	Cetus	
NGC 1684	00h 37m 32.3s	-22° 29' 41"	14.0	Galaxy	0.01x0.0025	Cetus	
NGC 3351	01h 00m 12.9s	-18° 08' 14"	14.0	Galaxy	0.009x0.002	Cetus	M95
NGC 4179	01h 11m 58.4s	-18° 03' 12"	14.0	Galaxy	0.005x0.004	Cetus	
NGC 6553	01h 42m 48.0s	-12° 59' 32"	14.0	Galaxy	0.011x0.007	Cetus	
IC 38	00h 39m 33.0s	-15° 19' 13"	14.0	Galaxy	0.007x0.005	Cetus	
NGC 2835	00h 54m 07.2s	-13° 03' 57"	14.1	Galaxy	0.013x0.008	Cetus	
NGC 2867	00h 54m 24.4s	-13° 00' 53"	14.1	Galaxy	0.010x0.007	Cetus	CALDWELL 90
NGC 5557	01h 28m 03.3s	-22° 40' 07"	14.1	Galaxy	0.005x0.005	Cetus	
NGC 5897	01h 33m 33.2s	-11° 57' 01"	14.1	Galaxy	0.009x0.007	Cetus	
IC 129	01h 32m 24.5s	-12° 33' 42"	14.1	Galaxy	0.011x0.007	Cetus	
IC 1561	00h 39m 25.9s	-24° 14' 29"	14.1	Galaxy	0.01x0.004	Cetus	
IC 80A	01h 09m 44.5s	-15° 18' 39"	14.1	Galaxy	0.004x0.002	Cetus	IC 80A
NGC 5834	01h 30m 36.4s	-18° 14' 49"	14.2	Galaxy	0.005x0.005	Cetus	
NGC 6902	01h 48m 40.1s	-16° 37' 56"	14.2	Galaxy	0.01x0.006	Cetus	
IC 108	01h 25m 32.4s	-12° 32' 32"	14.2	Galaxy	0.007x0.001	Cetus	
IC 130	01h 32m 21.4s	-15° 29' 56"	14.2	Galaxy	0.004x0.004	Cetus	
IC 79	01h 09m 43.0s	-15° 51' 10"	14.2	Galaxy	0.007x0.005	Cetus	
NGC 1662	00h 36m 43.2s	-13° 30' 42"	14.3	Galaxy	0.007x0.002	Cetus	
NGC 2632	00h 49m 42.6s	-13° 00' 34"	14.3	Galaxy	0.005x0.002	Cetus	M44, Praesepe
NGC 3031	00h 55m 48.2s	-16° 33' 28"	14.3	Galaxy	0.005x0.002	Cetus	M81, Bode's nebulae
NGC 6673	01h 45m 47.5s	-22° 49' 46"	14.3	Galaxy	0.005x0.004	Cetus	
IC 149	01h 43m 17.9s	-16° 12' 35"	14.3	Galaxy	0.009x0.002	Cetus	
IC 1587	00h 49m 36.3s	-23° 27' 50"	14.3	Galaxy	0.011x0.003	Cetus	
IC 56	00h 52m 24.1s	-12° 44' 48"	14.3	Galaxy	0.005x0.005	Cetus	
IC 1434	00h 32m 09.5s	-22° 27' 39"	14.4	Galaxy	0.008x0.001	Cetus	
NGC 2841	00h 54m 18.2s	-13° 03' 39"	14.4	Galaxy	0.005x0.004	Cetus	
NGC 6482	01h 39m 31.9s	-17° 44' 24"	14.4	Galaxy	0.005x0.003	Cetus	

Table 144: Main objects visible on chart 137 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 58	00h 55m 56.4s	-13° 34' 49"	14.4	Galaxy	0.006x0.003	Cetus	
NGC 2301	00h 43m 20.4s	-23° 31' 50"	14.5	Galaxy	0.009x0.001	Cetus	
NGC 5408	01h 28m 00.9s	-19° 56' 37"	14.5	Galaxy	0.007x0.003	Cetus	
NGC 5566	01h 28m 04.1s	-22° 36' 15"	14.5	Galaxy	0.003x0.002	Cetus	
IC 147	01h 40m 52.1s	-14° 46' 19"	14.5	Galaxy	0.007x0.005	Cetus	
IC 1623B	01h 08m 41.2s	-17° 24' 39"	14.5	Galaxy	0.005x0.005	Cetus	IC 1623B
IC 36	00h 38m 43.9s	-15° 20' 31"	14.5	Galaxy	0.005x0.005	Cetus	
IC 60	00h 56m 58.2s	-13° 15' 37"	14.5	Galaxy	0.004x0.003	Cetus	
NGC 5938	01h 33m 13.9s	-12° 15' 44"	14.6	Galaxy	0.01x0.001	Cetus	
NGC 6352	01h 39m 09.0s	-22° 50' 16"	14.6	Galaxy	0.004x0.004	Cetus	CALDWELL 81
IC 128	01h 32m 17.2s	-12° 31' 56"	14.6	Galaxy	0.007x0.005	Cetus	
NGC 2768	00h 52m 59.6s	-22° 34' 58"	14.7	Galaxy	0.008x0.003	Cetus	
NGC 2859	00h 54m 23.8s	-13° 03' 46"	14.7	Galaxy	0.005x0.003	Cetus	
333B	00h 59m 44.4s	-16° 22' 30"	14.7	Galaxy	0.002x0.001	Cetus	333B
NGC 3368	00h 58m 56.3s	-18° 17' 20"	14.7	Galaxy	0.005x0.001	Cetus	M96
NGC 3631	01h 07m 09.0s	-16° 26' 46"	14.7	Galaxy	0.005x0.004	Cetus	
NGC 3675	01h 06m 42.8s	-12° 01' 56"	14.7	Galaxy	0.007x0.004	Cetus	
IC 41	00h 40m 34.6s	-14° 04' 31"	14.7	Galaxy	0.003x0.003	Cetus	
IC 86	01h 14m 21.5s	-16° 08' 46"	14.7	Galaxy	0.005x0.002	Cetus	
IC 99	01h 23m 20.7s	-12° 51' 32"	14.7	Galaxy	0.004x0.004	Cetus	
IC 1599	00h 55m 25.6s	-23° 23' 50"	14.8	Galaxy	0.009x0.001	Cetus	
IC 1600	00h 55m 57.0s	-23° 25' 38"	14.8	Galaxy	0.006x0.003	Cetus	
IC 27	00h 34m 00.7s	-13° 16' 19"	14.8	Galaxy	0.005x0.005	Cetus	
IC 42	00h 42m 00.1s	-15° 19' 47"	14.8	Galaxy	0.005x0.003	Cetus	
IC 98	01h 21m 48.3s	-12° 30' 37"	14.8	Galaxy	0.005x0.005	Cetus	
IC 144	01h 38m 33.8s	-13° 13' 23"	14.9	Galaxy	0.005x0.005	Cetus	
IC 1588	00h 51m 50.7s	-23° 27' 39"	14.9	Galaxy	0.005x0.002	Cetus	
IC 28	00h 34m 03.1s	-13° 21' 24"	14.9	Galaxy	0.005x0.004	Cetus	
IC 37	00h 39m 28.4s	-15° 15' 35"	14.9	Galaxy	0.006x0.003	Cetus	
IC 77	01h 09m 37.1s	-15° 19' 31"	14.9	Galaxy	0.004x0.003	Cetus	
IC 122	01h 29m 06.1s	-14° 44' 46"	15.0	Galaxy	0.004x0.001	Cetus	
NGC 135	00h 32m 40.5s	-13° 14' 19"	15.1	Galaxy	0.004x0.004	Cetus	IC 26
NGC 3773	01h 07m 27.9s	-20° 14' 08"	15.1	Galaxy	0.006x0.001	Cetus	
NGC 6015	01h 33m 59.8s	-12° 06' 59"	15.1	Galaxy	0.003x0.003	Cetus	
IC 1582	00h 47m 10.0s	-24° 10' 54"	15.1	Galaxy	0.009x0.002	Cetus	
IC 1714	01h 33m 46.3s	-12° 55' 58"	15.2	Galaxy	0.004x0.004	Cetus	
IC 169	01h 51m 32.1s	-12° 35' 26"	15.3	Galaxy	0.004x0.002	Cetus	
IC 47	00h 43m 49.2s	-13° 38' 31"	15.3	Galaxy	0.004x0.002	Cetus	
IC 125	01h 30m 11.5s	-13° 11' 13"	15.4	Galaxy	0.004x0.004	Cetus	
NGC 3432	00h 59m 16.6s	-23° 07' 39"	15.5	Galaxy	0.005x0.002	Cetus	
IC 80B	01h 09m 43.3s	-15° 18' 29"	15.5	Galaxy	0.002x0.002	Cetus	IC 80B
IC 95	01h 20m 11.3s	-12° 28' 46"	15.5	Galaxy	0.003x0.003	Cetus	
IC 56A	00h 52m 45.3s	-12° 40' 10"	15.7	Galaxy	0.003x0.002	Cetus	IC 56A
IC 1573	00h 43m 03.6s	-23° 29' 37"	16.0	Galaxy	0.01x8.333	Cetus	

7.139 Main objects visible on chart 138

Table 145: Main objects visible on chart 138

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7209	01h 53m 53.0s	-13° 39' 02"	10.2	Galaxy	0.039x0.02	Cetus	
NGC 908	02h 23m 54.5s	-21° 09' 08"	10.2	Galaxy	0.050x0.022	Cetus	
NGC 1187	03h 03m 25.7s	-22° 47' 50"	10.8	Galaxy	0.035x0.026	Eridanus	
NGC 1172	03h 02m 26.8s	-14° 45' 59"	11.9	Galaxy	0.019x0.014	Eridanus	
NGC 1179	03h 03m 28.0s	-18° 49' 40"	12.0	Galaxy	0.039x0.031	Eridanus	
NGC 922	02h 25m 52.3s	-24° 42' 30"	12.1	Galaxy	0.016x0.013	Fornax	
NGC 6866	01h 49m 46.5s	-23° 42' 33"	12.2	Galaxy	0.014x0.011	Fornax	
NGC 1045	02h 41m 21.4s	-11° 12' 05"	12.4	Galaxy	0.013x0.01	Cetus	
NGC 1145	02h 55m 23.2s	-18° 33' 48"	12.4	Galaxy	0.026x0.004	Eridanus	
NGC 1114	02h 49m 57.4s	-16° 55' 12"	12.5	Galaxy	0.015x0.006	Eridanus	
NGC 1162	02h 59m 47.5s	-12° 19' 38"	12.5	Galaxy	0.011x0.011	Eridanus	
NGC 7234	01h 54m 35.9s	-23° 40' 09"	12.5	Galaxy	0.012x0.010	Cetus	
NGC 899	02h 22m 43.1s	-20° 44' 30"	12.5	Galaxy	0.015x0.010	Cetus	
NGC 967	02h 33m 03.6s	-17° 08' 15"	12.5	Galaxy	0.013x0.008	Cetus	
NGC 1098	02h 45m 43.9s	-17° 35' 03"	12.6	Galaxy	0.014x0.010	Eridanus	
NGC 1125	02h 52m 30.8s	-16° 34' 39"	12.6	Galaxy	0.015x0.007	Eridanus	
NGC 873	02h 17m 24.9s	-11° 15' 57"	12.6	Galaxy	0.013x0.010	Cetus	
NGC 907	02h 23m 51.7s	-20° 37' 49"	12.6	Galaxy	0.015x0.005	Cetus	
NGC 947	02h 29m 23.6s	-18° 57' 45"	12.6	Galaxy	0.017x0.009	Cetus	
NGC 1076	02h 44m 20.3s	-14° 40' 46"	12.7	Galaxy	0.016x0.009	Cetus	
NGC 887	02h 20m 24.0s	-15° 59' 13"	12.7	Galaxy	0.016x0.013	Cetus	
NGC 1103	02h 48m 57.4s	-13° 53' 06"	12.9	Galaxy	0.018x0.005	Eridanus	
IC 270	02h 56m 35.2s	-14° 08' 08"	12.9	Galaxy	0.014x0.012	Eridanus	
NGC 1100	02h 46m 26.2s	-17° 36' 49"	13.0	Galaxy	0.014x0.006	Eridanus	
NGC 1099	02h 46m 08.1s	-17° 38' 01"	13.1	Galaxy	0.015x0.005	Eridanus	
NGC 7731	01h 59m 44.8s	-11° 25' 42"	13.1	Galaxy	0.011x0.006	Cetus	
IC 276	02h 59m 31.6s	-15° 37' 56"	13.1	Galaxy	0.016x0.004	Eridanus	
NGC 1118	02h 50m 50.6s	-12° 05' 24"	13.2	Galaxy	0.018x0.005	Eridanus	
IC 966	02h 32m 37.1s	-19° 48' 10"	13.2	Galaxy	0.008x0.007	Cetus	
NGC 1081	02h 45m 56.3s	-15° 30' 44"	13.3	Galaxy	0.013x0.005	Eridanus	
NGC 6823	01h 49m 56.8s	-14° 53' 08"	13.4	Galaxy	0.011x0.009	Cetus	
NGC 836	02h 11m 14.9s	-21° 58' 14"	13.4	Galaxy	0.01x0.0075	Cetus	
IC 223	02h 22m 51.1s	-20° 39' 52"	13.4	Galaxy	0.01x0.005	Cetus	
NGC 1089	02h 47m 01.1s	-14° 59' 55"	13.5	Galaxy	0.007x0.006	Eridanus	
NGC 808	02h 04m 46.5s	-23° 13' 35"	13.5	Galaxy	0.01x0.005	Cetus	
NGC 1120	02h 49m 55.2s	-14° 23' 46"	13.6	Galaxy	0.010x0.006	Eridanus	
IC 217	02h 17m 03.1s	-11° 50' 33"	13.6	Galaxy	0.018x0.004	Cetus	
858-1	02h 13m 20.1s	-22° 23' 15"	13.7	Galaxy	0.010x0.009	Cetus	858-1
NGC 872	02h 16m 16.3s	-17° 41' 56"	13.7	Galaxy	0.012x0.004	Cetus	
IC 1853	02h 48m 55.6s	-13° 55' 08"	13.7	Galaxy	0.009x0.003	Eridanus	
NGC 1119	02h 49m 07.1s	-17° 54' 50"	13.8	Galaxy	0.004x0.003	Eridanus	
NGC 1163	03h 01m 12.1s	-17° 04' 56"	13.8	Galaxy	0.018x0.002	Eridanus	
NGC 814	02h 11m 29.3s	-15° 41' 21"	13.8	Galaxy	0.011x0.005	Cetus	
NGC 878	02h 18m 43.7s	-23° 18' 07"	13.8	Galaxy	0.006x0.004	Cetus	

Table 145: Main objects visible on chart 138 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 271	02h 56m 51.2s	-11° 56' 11"	13.8	Galaxy	0.007x0.005	Eridanus	
IC 160	01h 47m 22.3s	-13° 09' 28"	13.9	Galaxy	0.010x0.006	Cetus	
IC 250	02h 41m 45.9s	-13° 14' 14"	13.9	Galaxy	0.007x0.005	Cetus	
IC 253	02h 42m 56.9s	-14° 58' 16"	13.9	Galaxy	0.007x0.005	Cetus	
NGC 1013	02h 38m 42.6s	-11° 25' 46"	14.0	Galaxy	0.006x0.005	Cetus	
NGC 1034	02h 39m 04.9s	-15° 43' 55"	14.0	Galaxy	0.006x0.005	Cetus	
NGC 1092	02h 46m 19.8s	-17° 28' 03"	14.0	Galaxy	0.007x0.006	Eridanus	
NGC 7155	01h 54m 05.1s	-12° 47' 07"	14.0	Galaxy	0.006x0.003	Cetus	
NGC 837	02h 11m 06.1s	-22° 20' 49"	14.0	Galaxy	0.007x0.003	Cetus	
IC 902	02h 23m 13.0s	-16° 35' 51"	14.0	Galaxy	0.005x0.004	Cetus	
IC 944	02h 27m 33.2s	-14° 26' 08"	14.0	Galaxy	0.009x0.003	Cetus	
IC 989	02h 34m 36.9s	-16° 25' 59"	14.0	Galaxy	0.006x0.005	Cetus	
IC 1866	02h 55m 43.6s	-15° 34' 50"	14.0	Galaxy	0.009x0.005	Eridanus	
IC 247	02h 41m 00.8s	-11° 39' 24"	14.0	Galaxy	0.01x0.008	Cetus	
IC 251	02h 42m 05.0s	-14° 52' 54"	14.0	Galaxy	0.005x0.005	Cetus	
IC 1065	02h 42m 57.3s	-15° 00' 56"	14.1	Galaxy	0.006x0.005	Cetus	
IC 1091	02h 46m 12.6s	-17° 27' 30"	14.1	Galaxy	0.007x0.005	Eridanus	
NGC 1150	02h 57m 52.1s	-14° 58' 37"	14.1	Galaxy	0.007x0.005	Eridanus	
NGC 6996	01h 51m 36.6s	-11° 56' 49"	14.1	Galaxy	0.013x0.002	Cetus	
NGC 965	02h 33m 15.4s	-18° 33' 42"	14.1	Galaxy	0.008x0.006	Cetus	
IC 272	02h 56m 57.4s	-14° 06' 54"	14.1	Galaxy	0.008x0.005	Eridanus	
NGC 6902	01h 48m 40.1s	-16° 37' 56"	14.2	Galaxy	0.01x0.006	Cetus	
IC 874	02h 16m 51.7s	-23° 13' 22"	14.2	Galaxy	0.007x0.004	Cetus	
NGC 929	02h 28m 10.4s	-12° 00' 26"	14.2	Galaxy	0.008x0.005	Cetus	
IC 1741	01h 52m 48.6s	-16° 41' 57"	14.2	Galaxy	0.006x0.003	Cetus	
NGC 1074	02h 44m 26.8s	-16° 13' 17"	14.3	Galaxy	0.016x0.010	Cetus	
IC 1075	02h 44m 24.3s	-16° 07' 32"	14.3	Galaxy	0.006x0.005	Cetus	
IC 1105	02h 44m 32.8s	-15° 37' 49"	14.3	Galaxy	0.005x0.005	Cetus	
NGC 6673	01h 45m 47.5s	-22° 49' 46"	14.3	Galaxy	0.005x0.004	Cetus	
NGC 7252	01h 53m 27.3s	-16° 25' 45"	14.3	Galaxy	0.006x0.004	Cetus	Atoms for peace galaxy
IC 849	02h 11m 01.2s	-22° 14' 19"	14.3	Galaxy	0.004x0.002	Cetus	
NGC 921	02h 27m 24.8s	-15° 46' 02"	14.3	Galaxy	0.011x0.005	Cetus	
IC 224	02h 25m 37.4s	-12° 28' 59"	14.3	Galaxy	0.004x0.003	Cetus	
IC 245	02h 39m 45.8s	-14° 13' 45"	14.3	Galaxy	0.009x0.002	Cetus	
NGC 1083	02h 46m 31.7s	-15° 16' 56"	14.4	Galaxy	0.013x0.002	Eridanus	
IC 269	02h 56m 17.6s	-13° 59' 39"	14.4	Galaxy	0.009x0.001	Eridanus	
IC 1102	02h 48m 01.6s	-22° 08' 03"	14.5	Galaxy	0.006x0.005	Eridanus	
NGC 7562	01h 55m 20.9s	-16° 37' 11"	14.5	Galaxy	0.006x0.004	Cetus	
IC 220	02h 20m 04.1s	-12° 41' 57"	14.5	Galaxy	0.007x0.002	Cetus	
NGC 1139	02h 53m 37.8s	-14° 27' 21"	14.6	Galaxy	0.01x0.006	Eridanus	
NGC 7341	01h 54m 20.6s	-16° 54' 27"	14.6	Galaxy	0.005x0.004	Cetus	
IC 951	02h 29m 46.3s	-22° 16' 10"	14.6	Galaxy	0.008x0.005	Cetus	
IC 268	02h 56m 18.1s	-14° 01' 52"	14.6	Galaxy	0.008x0.005	Eridanus	
IC 892	02h 21m 41.4s	-23° 01' 55"	14.7	Galaxy	0.005x0.003	Cetus	
IC 252-1	02h 42m 36.2s	-14° 46' 18"	14.7	Galaxy	0.005x0.003	Cetus	IC 252-1
NGC 1157	02h 58m 57.4s	-15° 02' 48"	14.8	Galaxy	0.005x0.002	Eridanus	

Table 145: Main objects visible on chart 138 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1158	02h 58m 02.4s	-14° 19' 24"	14.8	Galaxy	0.007x0.005	Eridanus	
NGC 1180	03h 02m 41.8s	-14° 57' 36"	14.9	Galaxy	0.005x0.004	Eridanus	
IC 1151	02h 57m 55.5s	-14° 56' 30"	15.0	Galaxy	0.003x0.002	Eridanus	
IC 1758	01h 57m 44.4s	-16° 27' 15"	15.0	Galaxy	0.005x0.001	Cetus	
IC 254	02h 42m 55.9s	-15° 01' 52"	15.2	Galaxy	0.003x0.002	Cetus	
IC 169	01h 51m 32.1s	-12° 35' 26"	15.3	Galaxy	0.004x0.002	Cetus	
IC 1181	03h 02m 33.5s	-14° 58' 57"	15.4	Galaxy	0.006x0.001	Eridanus	
IC 1745	01h 53m 50.9s	-16° 34' 52"	15.4	Galaxy	0.004x0.002	Cetus	
IC 815	02h 11m 31.1s	-15° 43' 43"	15.5	Galaxy	0.003x0.001	Cetus	
858-2	02h 13m 23.6s	-22° 23' 08"	15.7	Galaxy	0.002x8.333	Cetus	858-2
IC 252-2	02h 42m 36.2s	-14° 46' 09"	15.7	Galaxy	0.002x0.001	Cetus	IC 252-2

7.140 Main objects visible on chart 139

Table 146: Main objects visible on chart 139

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1395	03h 39m 16.6s	-22° 58' 10"	9.6	Galaxy	0.041x0.037	Eridanus	
NGC 1535	04h 15m 06.3s	-12° 41' 40"	9.6	Planetary Nebula	0.007x0.007	Eridanus	
NGC 1407	03h 41m 00.5s	-18° 31' 23"	9.7	Galaxy	0.038x0.035	Eridanus	
NGC 1232	03h 10m 34.0s	-20° 30' 41"	9.9	Galaxy	0.061x0.054	Eridanus	
NGC 1332	03h 27m 05.0s	-21° 16' 20"	10.3	Galaxy	0.037x0.011	Eridanus	
NGC 1300	03h 20m 29.6s	-19° 20' 49"	10.4	Galaxy	0.051x0.034	Eridanus	
NGC 1187	03h 03m 25.7s	-22° 47' 50"	10.8	Galaxy	0.035x0.026	Eridanus	
NGC 1385	03h 38m 15.0s	-24° 26' 40"	10.9	Galaxy	0.03x0.018	Fornax	
NGC 1400	03h 40m 19.4s	-18° 37' 50"	11.0	Galaxy	0.020x0.017	Eridanus	
NGC 1199	03h 04m 28.9s	-15° 32' 37"	11.4	Galaxy	0.019x0.014	Eridanus	
NGC 1421	03h 43m 20.0s	-13° 25' 53"	11.4	Galaxy	0.028x0.006	Eridanus	
NGC 1426	03h 43m 36.6s	-22° 03' 05"	11.4	Galaxy	0.021x0.013	Eridanus	
NGC 1439	03h 45m 37.1s	-21° 51' 53"	11.4	Galaxy	0.02x0.018	Eridanus	
NGC 1521	04h 09m 05.9s	-21° 00' 18"	11.4	Galaxy	0.022x0.013	Eridanus	
NGC 1209	03h 06m 53.4s	-15° 32' 32"	11.5	Galaxy	0.018x0.009	Eridanus	
NGC 1309	03h 22m 56.5s	-15° 20' 11"	11.5	Galaxy	0.019x0.018	Eridanus	
NGC 1325	03h 25m 13.5s	-21° 28' 49"	11.5	Galaxy	0.04x0.013	Eridanus	
NGC 1353	03h 32m 51.2s	-20° 45' 31"	11.5	Galaxy	0.028x0.011	Eridanus	
NGC 1357	03h 34m 07.8s	-13° 36' 17"	11.5	Galaxy	0.026x0.02	Eridanus	
NGC 1440	03h 45m 51.7s	-18° 12' 39"	11.6	Galaxy	0.018x0.013	Eridanus	
IC 1953	03h 34m 29.6s	-21° 25' 08"	11.7	Galaxy	0.024x0.017	Eridanus	
IC 1297	03h 20m 03.0s	-19° 02' 08"	11.8	Galaxy	0.019x0.015	Eridanus	
NGC 1452	03h 46m 10.9s	-18° 34' 40"	11.8	Galaxy	0.023x0.012	Eridanus	
NGC 1461	03h 49m 16.5s	-16° 20' 19"	11.8	Galaxy	0.025x0.007	Eridanus	
NGC 1518	04h 07m 36.1s	-21° 07' 56"	11.8	Galaxy	0.024x0.011	Eridanus	
NGC 1172	03h 02m 26.8s	-14° 45' 59"	11.9	Galaxy	0.019x0.014	Eridanus	
NGC 1415	03h 41m 44.0s	-22° 30' 26"	11.9	Galaxy	0.03x0.014	Eridanus	
NGC 1179	03h 03m 28.0s	-18° 49' 40"	12.0	Galaxy	0.039x0.031	Eridanus	

Table 146: Main objects visible on chart 139 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1200	03h 04m 46.2s	-11° 55' 19"	12.0	Galaxy	0.024x0.019	Eridanus	
NGC 1393	03h 39m 27.2s	-18° 22' 15"	12.0	Galaxy	0.014x0.010	Eridanus	
NGC 1359	03h 34m 36.3s	-19° 25' 53"	12.2	Galaxy	0.020x0.012	Eridanus	
NGC 1482	03h 55m 26.6s	-20° 26' 60"	12.2	Galaxy	0.02x0.011	Eridanus	
NGC 1354	03h 33m 19.3s	-15° 09' 39"	12.3	Galaxy	0.019x0.006	Eridanus	
NGC 1401	03h 40m 08.9s	-22° 40' 01"	12.3	Galaxy	0.02x0.005	Eridanus	
NGC 1145	02h 55m 23.2s	-18° 33' 48"	12.4	Galaxy	0.026x0.004	Eridanus	
IC 1438	03h 46m 04.0s	-22° 56' 48"	12.4	Galaxy	0.016x0.007	Eridanus	
NGC 1162	02h 59m 47.5s	-12° 19' 38"	12.5	Galaxy	0.011x0.011	Eridanus	
NGC 1377	03h 37m 26.9s	-20° 50' 34"	12.5	Galaxy	0.015x0.007	Eridanus	
NGC 1383	03h 38m 28.1s	-18° 16' 53"	12.5	Galaxy	0.015x0.006	Eridanus	
NGC 1315	03h 23m 54.6s	-21° 18' 41"	12.6	Galaxy	0.013x0.011	Eridanus	
NGC 1370	03h 36m 02.5s	-20° 18' 51"	12.6	Galaxy	0.012x0.008	Eridanus	
NGC 1325A	03h 25m 36.4s	-21° 16' 25"	12.7	Galaxy	0.017x0.015	Eridanus	1325A
NGC 1329	03h 26m 51.9s	-17° 31' 46"	12.7	Galaxy	0.011x0.01	Eridanus	
NGC 1403	03h 39m 58.1s	-22° 19' 53"	12.7	Galaxy	0.007x0.005	Eridanus	
IC 1898	03h 11m 08.4s	-22° 20' 11"	12.7	Galaxy	0.03x0.005	Eridanus	
IC 1952	03h 34m 13.5s	-23° 39' 11"	12.7	Galaxy	0.021x0.005	Eridanus	
NGC 1362	03h 34m 41.2s	-20° 13' 22"	12.8	Galaxy	0.01x0.009	Eridanus	
NGC 1394	03h 39m 55.6s	-18° 14' 04"	12.8	Galaxy	0.010x0.003	Eridanus	
NGC 1319	03h 24m 44.5s	-21° 27' 51"	12.9	Galaxy	0.010x0.005	Eridanus	
NGC 1338	03h 29m 45.7s	-12° 05' 31"	12.9	Galaxy	0.011x0.010	Eridanus	
NGC 1416	03h 41m 49.9s	-22° 39' 44"	12.9	Galaxy	0.01x0.01	Eridanus	
NGC 1519	04h 08m 56.0s	-17° 08' 45"	12.9	Galaxy	0.017x0.005	Eridanus	
IC 1892	03h 09m 15.1s	-22° 59' 15"	12.9	Galaxy	0.015x0.009	Eridanus	
IC 270	02h 56m 35.2s	-14° 08' 08"	12.9	Galaxy	0.014x0.012	Eridanus	
IC 1928	03h 28m 17.0s	-21° 29' 53"	13.1	Galaxy	0.013x0.003	Eridanus	
IC 276	02h 59m 31.6s	-15° 37' 56"	13.1	Galaxy	0.016x0.004	Eridanus	
NGC 1196	03h 04m 26.9s	-12° 00' 22"	13.2	Galaxy	0.011x0.011	Eridanus	
NGC 1258	03h 14m 53.6s	-21° 42' 30"	13.2	Galaxy	0.010x0.007	Eridanus	
NGC 1347-1	03h 30m 29.3s	-22° 13' 05"	13.2	Galaxy	0.012x0.010	Eridanus	1347-1
NGC 1422	03h 42m 18.8s	-21° 37' 27"	13.2	Galaxy	0.019x0.005	Eridanus	
IC 343	03h 40m 55.9s	-18° 23' 12"	13.2	Galaxy	0.013x0.006	Eridanus	
NGC 1204	03h 05m 31.5s	-12° 16' 21"	13.3	Galaxy	0.01x0.0025	Eridanus	
NGC 1228	03h 08m 59.6s	-22° 51' 16"	13.3	Galaxy	0.013x0.007	Eridanus	
NGC 1352	03h 32m 21.5s	-19° 13' 03"	13.3	Galaxy	0.008x0.005	Eridanus	
IC 1301	03h 21m 24.5s	-18° 39' 06"	13.4	Galaxy	0.018x0.004	Eridanus	
NGC 1331	03h 27m 16.2s	-21° 17' 36"	13.4	Galaxy	0.007x0.005	Eridanus	
NGC 1391	03h 39m 41.7s	-18° 17' 48"	13.4	Galaxy	0.01x0.004	Eridanus	
IC 340	03h 40m 19.7s	-13° 03' 27"	13.5	Galaxy	0.012x0.005	Eridanus	
IC 1256	03h 14m 46.2s	-21° 55' 12"	13.6	Galaxy	0.009x0.003	Eridanus	
NGC 1402	03h 40m 19.2s	-18° 28' 10"	13.6	Galaxy	0.006x0.005	Eridanus	
NGC 1390	03h 38m 40.8s	-18° 56' 58"	13.7	Galaxy	0.011x0.005	Eridanus	
NGC 1509	04h 04m 46.3s	-11° 07' 49"	13.7	Galaxy	0.007x0.005	Eridanus	
IC 291	03h 08m 18.0s	-12° 31' 07"	13.7	Galaxy	0.011x0.005	Eridanus	
NGC 1163	03h 01m 12.1s	-17° 04' 56"	13.8	Galaxy	0.018x0.002	Eridanus	

Table 146: Main objects visible on chart 139 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1188	03h 04m 34.0s	-15° 24' 55"	13.8	Galaxy	0.008x0.004	Eridanus	
NGC 1189	03h 04m 14.7s	-15° 33' 12"	13.8	Galaxy	0.014x0.012	Eridanus	
NGC 1203A	03h 06m 04.9s	-14° 18' 42"	13.8	Galaxy	0.005x0.005	Eridanus	1203A
NGC 1345	03h 30m 20.7s	-17° 43' 05"	13.8	Galaxy	0.012x0.009	Eridanus	
NGC 1388	03h 39m 01.8s	-15° 50' 29"	13.8	Galaxy	0.005x0.005	Eridanus	
IC 1471	03h 52m 14.1s	-15° 20' 57"	13.8	Galaxy	0.006x0.005	Eridanus	
IC 1481	03h 55m 16.6s	-20° 22' 29"	13.8	Galaxy	0.008x0.005	Eridanus	
NGC 1489	03h 58m 26.2s	-19° 09' 59"	13.8	Galaxy	0.011x0.005	Eridanus	
IC 271	02h 56m 51.2s	-11° 56' 11"	13.8	Galaxy	0.007x0.005	Eridanus	
IC 345	03h 41m 57.9s	-18° 15' 27"	13.8	Galaxy	0.006x0.005	Eridanus	
IC 350	03h 45m 27.8s	-11° 44' 43"	13.8	Galaxy	0.01x0.006	Eridanus	
IC 318	03h 21m 34.4s	-14° 30' 15"	13.9	Galaxy	0.007x0.002	Eridanus	
NGC 1414	03h 41m 44.5s	-21° 39' 23"	14.0	Galaxy	0.012x0.002	Eridanus	
IC 317	03h 19m 46.6s	-12° 40' 30"	14.0	Galaxy	0.007x0.005	Eridanus	
NGC 1150	02h 57m 52.1s	-14° 58' 37"	14.1	Galaxy	0.007x0.005	Eridanus	
NGC 1229	03h 08m 58.7s	-22° 53' 33"	14.1	Galaxy	0.011x0.007	Eridanus	
IC 1263	03h 16m 30.0s	-15° 01' 57"	14.1	Galaxy	0.005x0.005	Eridanus	
IC 1405	03h 41m 08.9s	-15° 28' 25"	14.1	Galaxy	0.012x0.004	Eridanus	
IC 1962	03h 36m 25.1s	-21° 13' 59"	14.1	Galaxy	0.022x0.004	Eridanus	
IC 272	02h 56m 57.4s	-14° 06' 54"	14.1	Galaxy	0.008x0.005	Eridanus	
IC 328	03h 32m 01.4s	-14° 34' 38"	14.1	Galaxy	0.004x0.003	Eridanus	
NGC 1190	03h 04m 16.5s	-15° 35' 33"	14.2	Galaxy	0.007x0.002	Eridanus	
IC 1231	03h 07m 19.8s	-15° 30' 02"	14.2	Galaxy	0.006x0.006	Eridanus	
IC 1262	03h 16m 23.8s	-15° 48' 51"	14.2	Galaxy	0.007x0.005	Eridanus	
IC 1296	03h 19m 40.8s	-12° 59' 51"	14.2	Galaxy	0.009x0.007	Eridanus	
IC 1368	03h 35m 48.7s	-15° 35' 47"	14.2	Galaxy	0.010x0.005	Eridanus	
NGC 1486	03h 57m 05.9s	-21° 46' 10"	14.2	Galaxy	0.007x0.004	Eridanus	
IC 285	03h 04m 57.9s	-11° 56' 44"	14.2	Galaxy	0.009x0.001	Eridanus	
IC 326	03h 31m 26.9s	-14° 21' 52"	14.2	Galaxy	0.010x0.007	Eridanus	
IC 1295	03h 20m 54.0s	-13° 56' 01"	14.3	Galaxy	0.007x0.004	Eridanus	
NGC 1372	03h 37m 49.5s	-15° 49' 24"	14.3	Galaxy	0.005x0.005	Eridanus	
NGC 1413	03h 41m 01.3s	-15° 33' 11"	14.3	Galaxy	0.008x0.006	Eridanus	
NGC 1191	03h 04m 21.3s	-15° 36' 57"	14.4	Galaxy	0.005x0.004	Eridanus	
NGC 1230	03h 09m 04.2s	-22° 54' 57"	14.4	Galaxy	0.005x0.001	Eridanus	
IC 2045	04h 15m 26.3s	-13° 07' 50"	14.4	Galaxy	0.008x0.005	Eridanus	
IC 269	02h 56m 17.6s	-13° 59' 39"	14.4	Galaxy	0.009x0.001	Eridanus	
NGC 1195	03h 04m 24.4s	-11° 58' 10"	14.5	Galaxy	0.005x0.004	Eridanus	
IC 268	02h 56m 18.1s	-14° 01' 52"	14.6	Galaxy	0.008x0.005	Eridanus	
NGC 1232A	03h 10m 50.5s	-20° 31' 55"	14.7	Galaxy	0.007x0.005	Eridanus	1232A
IC 287	03h 05m 49.4s	-12° 00' 03"	14.7	Galaxy	0.006x0.003	Eridanus	
IC 327	03h 32m 00.5s	-14° 37' 54"	14.7	Galaxy	0.005x0.003	Eridanus	
NGC 1157	02h 58m 57.4s	-15° 02' 48"	14.8	Galaxy	0.005x0.002	Eridanus	
IC 1158	02h 58m 02.4s	-14° 19' 24"	14.8	Galaxy	0.007x0.005	Eridanus	
NGC 1192	03h 04m 25.1s	-15° 36' 33"	14.8	Galaxy	0.005x0.002	Eridanus	
NGC 1290	03h 20m 15.9s	-13° 55' 29"	14.8	Galaxy	0.004x0.003	Eridanus	
IC 1975	03h 39m 53.4s	-15° 26' 31"	14.8	Galaxy	0.002x0.002	Eridanus	

Table 146: Main objects visible on chart 139 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 299	03h 11m 53.7s	-13° 02' 31"	14.8	Galaxy	0.003x0.003	Eridanus	
IC 306	03h 13m 51.8s	-11° 38' 57"	14.8	Galaxy	0.004x0.002	Eridanus	
NGC 1180	03h 02m 41.8s	-14° 57' 36"	14.9	Galaxy	0.005x0.004	Eridanus	
IC 1151	02h 57m 55.5s	-14° 56' 30"	15.0	Galaxy	0.003x0.002	Eridanus	
NGC 1203B	03h 06m 05.0s	-14° 18' 29"	15.0	Galaxy	0.002x0.002	Eridanus	1203B
NGC 1347-2	03h 30m 28.7s	-22° 13' 47"	15.2	Galaxy	0.002x0.001	Eridanus	1347-2
IC 303	03h 13m 32.5s	-11° 37' 22"	15.2	Galaxy	0.003x0.002	Eridanus	
IC 321	03h 25m 19.8s	-14° 55' 23"	15.2	Galaxy	0.005x0.005	Eridanus	
IC 1181	03h 02m 33.5s	-14° 58' 57"	15.4	Galaxy	0.006x0.001	Eridanus	

7.141 Main objects visible on chart 140

Table 147: Main objects visible on chart 140

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1904	05h 24m 55.1s	-24° 30' 29"	7.7	Globular cluster	0.08x0.08	Lepus	M79
NGC 1535	04h 15m 06.3s	-12° 41' 40"	9.6	Planetary Nebula	0.007x0.007	Eridanus	
NGC 1832	05h 12m 51.7s	-15° 40' 06"	11.3	Galaxy	0.021x0.014	Lepus	
NGC 1521	04h 09m 05.9s	-21° 00' 18"	11.4	Galaxy	0.022x0.013	Eridanus	
NGC 1640	04h 43m 01.4s	-20° 24' 06"	11.7	Galaxy	0.022x0.019	Eridanus	
NGC 1784	05h 06m 17.5s	-11° 50' 52"	11.7	Galaxy	0.034x0.021	Lepus	
NGC 1518	04h 07m 36.1s	-21° 07' 56"	11.8	Galaxy	0.024x0.011	Eridanus	
NGC 1888	05h 23m 24.9s	-11° 29' 03"	11.9	Galaxy	0.025x0.006	Lepus	
NGC 1730	05h 00m 20.5s	-15° 47' 51"	12.3	Galaxy	0.019x0.008	Lepus	
NGC 1781	05h 08m 42.8s	-18° 10' 03"	12.6	Galaxy	0.010x0.009	Lepus	
NGC 1650	04h 46m 00.3s	-15° 50' 17"	12.7	Galaxy	0.019x0.010	Eridanus	
NGC 1710	04h 58m 05.8s	-15° 15' 43"	12.7	Galaxy	0.010x0.008	Lepus	
NGC 1886	05h 22m 33.1s	-23° 47' 37"	12.7	Galaxy	0.025x0.003	Lepus	
NGC 1519	04h 08m 56.0s	-17° 08' 45"	12.9	Galaxy	0.017x0.005	Eridanus	
NGC 1738	05h 02m 34.2s	-18° 07' 57"	12.9	Galaxy	0.010x0.005	Lepus	
NGC 1692	04h 56m 10.4s	-20° 32' 36"	13.0	Galaxy	0.010x0.01	Eridanus	
IC 2104	04h 57m 07.7s	-15° 46' 14"	13.0	Galaxy	0.020x0.009	Lepus	
NGC 1716	04h 58m 60.0s	-20° 20' 13"	13.1	Galaxy	0.011x0.01	Lepus	
NGC 1889	05h 23m 25.8s	-11° 28' 51"	13.1	Galaxy	0.005x0.003	Lepus	
IC 362	04h 17m 33.1s	-12° 09' 22"	13.2	Galaxy	0.014x0.009	Eridanus	
NGC 1631	04h 39m 11.0s	-20° 36' 56"	13.3	Galaxy	0.012x0.007	Eridanus	
NGC 1821	05h 12m 35.0s	-15° 06' 49"	13.3	Galaxy	0.01x0.006	Lepus	
IC 416	05h 24m 44.4s	-17° 14' 41"	13.3	Galaxy	0.011x0.005	Lepus	
NGC 1547	04h 18m 00.7s	-17° 48' 51"	13.4	Galaxy	0.010x0.005	Eridanus	
IC 367	04h 21m 30.6s	-14° 44' 19"	13.4	Galaxy	0.011x0.005	Eridanus	
NGC 1739	05h 02m 35.0s	-18° 08' 32"	13.5	Galaxy	0.011x0.006	Lepus	
IC 407	05h 18m 31.4s	-15° 30' 18"	13.5	Galaxy	0.018x0.004	Lepus	
IC 1906	05h 25m 35.7s	-15° 55' 39"	13.6	Galaxy	0.007x0.004	Lepus	
IC 2119	05h 07m 37.6s	-20° 19' 23"	13.6	Galaxy	0.009x0.005	Lepus	
NGC 1583	04h 29m 09.0s	-17° 33' 26"	13.7	Galaxy	0.005x0.005	Eridanus	

Table 147: Main objects visible on chart 140 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1686	04h 53m 43.7s	-15° 19' 04"	13.7	Galaxy	0.014x0.002	Eridanus	
NGC 1780	05h 07m 07.8s	-19° 26' 38"	13.7	Galaxy	0.007x0.004	Lepus	
IC 368	04h 23m 33.2s	-12° 34' 25"	13.7	Galaxy	0.007x0.006	Eridanus	
NGC 1561	04h 23m 50.1s	-15° 48' 15"	13.8	Galaxy	0.009x0.006	Eridanus	
NGC 1597	04h 32m 04.3s	-11° 15' 08"	13.9	Galaxy	0.007x0.005	Eridanus	
IC 377	04h 32m 06.9s	-12° 25' 02"	13.9	Galaxy	0.007x0.007	Eridanus	
NGC 1565	04h 24m 12.8s	-15° 42' 14"	14.0	Galaxy	0.007x0.006	Eridanus	
IC 1584	04h 28m 58.6s	-17° 29' 06"	14.0	Galaxy	0.005x0.005	Eridanus	
NGC 1630-1	04h 38m 03.1s	-18° 52' 00"	14.0	Galaxy	0.005x0.004	Eridanus	1630-1
IC 375	04h 31m 53.4s	-12° 56' 09"	14.0	Galaxy	0.007x0.005	Eridanus	
IC 393	04h 48m 40.7s	-15° 29' 40"	14.0	Galaxy	0.005x0.005	Eridanus	
IC 2063	04h 23m 29.4s	-15° 37' 12"	14.2	Galaxy	0.005x0.002	Eridanus	
IC 1562	04h 22m 36.8s	-15° 42' 50"	14.3	Galaxy	0.005x0.005	Eridanus	
IC 369	04h 24m 19.0s	-11° 44' 55"	14.3	Galaxy	0.004x0.004	Eridanus	
IC 2045	04h 15m 26.3s	-13° 07' 50"	14.4	Galaxy	0.008x0.005	Eridanus	
IC 380	04h 32m 31.5s	-12° 53' 23"	14.5	Galaxy	0.005x0.003	Eridanus	
IC 1564	04h 23m 50.1s	-15° 41' 52"	14.6	Galaxy	0.005x0.004	Eridanus	
IC 378	04h 32m 18.4s	-12° 15' 42"	14.6	Galaxy	0.005x0.003	Eridanus	
IC 376	04h 32m 04.1s	-12° 23' 43"	14.7	Galaxy	0.005x0.003	Eridanus	
IC 2064	04h 24m 15.9s	-15° 38' 40"	14.8	Galaxy	0.003x0.003	Eridanus	
IC 1563	04h 23m 43.1s	-15° 41' 30"	15.0	Galaxy	0.005x0.002	Eridanus	
IC 415	05h 22m 10.3s	-15° 31' 32"	15.0	Galaxy	0.005x0.003	Lepus	
NGC 1538	04h 15m 46.3s	-13° 08' 50"	15.1	Galaxy	0.005x0.004	Eridanus	
IC 400	05h 04m 34.3s	-15° 47' 43"	15.2	Galaxy	0.008x0.001	Lepus	
IC 1623A	04h 36m 22.1s	-13° 31' 14"	15.6	Galaxy	0.006x0.004	Eridanus	IC 1623A

7.142 Main objects visible on chart 141

Table 148: Main objects visible on chart 141

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1904	05h 24m 55.1s	-24° 30' 29"	7.7	Globular cluster	0.08x0.08	Lepus	M79
NGC 2204	06h 16m 20.2s	-18° 40' 19"	8.6	Open cluster	0.083x0.083	Canis Major	
IC 418	05h 28m 18.3s	-12° 40' 58"	9.3	Planetary Nebula	0.001x0.001	Lepus	
IC 2165	06h 22m 32.5s	-12° 59' 47"	10.5	Planetary Nebula	0.003x0.003	Canis Major	
NGC 1964	05h 34m 07.5s	-21° 56' 02"	10.8	Galaxy	0.046x0.015	Lepus	
NGC 2207	06h 17m 07.8s	-21° 22' 48"	10.9	Galaxy	0.032x0.018	Canis Major	
NGC 2196	06h 12m 55.3s	-21° 48' 42"	11.0	Galaxy	0.023x0.018	Lepus	
NGC 2223	06h 25m 21.1s	-22° 50' 58"	11.5	Galaxy	0.025x0.021	Canis Major	
NGC 2139	06h 01m 52.8s	-23° 40' 24"	11.6	Galaxy	0.02x0.015	Lepus	
IC 2163	06h 17m 14.0s	-21° 23' 02"	11.7	Galaxy	0.025x0.01	Canis Major	
IC 1954	05h 33m 37.7s	-14° 03' 02"	11.8	Galaxy	0.035x0.016	Lepus	
NGC 1888	05h 23m 24.9s	-11° 29' 03"	11.9	Galaxy	0.025x0.006	Lepus	
NGC 1979	05h 34m 46.2s	-23° 17' 57"	11.9	Galaxy	0.015x0.015	Lepus	
IC 438	05h 53m 47.6s	-17° 52' 23"	11.9	Galaxy	0.023x0.018	Lepus	

Table 148: Main objects visible on chart 141 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2089	05h 48m 39.0s	-17° 35' 52"	12.0	Galaxy	0.015x0.01	Lepus	
NGC 2106	05h 51m 32.2s	-21° 33' 47"	12.1	Galaxy	0.022x0.011	Lepus	
NGC 2124	05h 58m 38.9s	-20° 05' 03"	12.2	Galaxy	0.022x0.007	Lepus	
NGC 2179	06h 08m 47.9s	-21° 44' 59"	12.3	Galaxy	0.009x0.007	Lepus	
IC 1993	05h 36m 13.1s	-17° 48' 16"	12.4	Galaxy	0.012x0.011	Lepus	
NGC 2073	05h 46m 39.5s	-21° 59' 35"	12.5	Galaxy	0.012x0.011	Lepus	
NGC 2227	06h 26m 43.6s	-22° 00' 58"	12.5	Galaxy	0.0175x0.01	Canis Major	
IC 2143	05h 47m 39.6s	-18° 43' 13"	12.5	Galaxy	0.016x0.006	Lepus	
IC 2152	05h 58m 38.4s	-23° 10' 47"	12.6	Galaxy	0.014x0.01	Lepus	
NGC 1886	05h 22m 33.1s	-23° 47' 37"	12.7	Galaxy	0.025x0.003	Lepus	
NGC 2211	06h 19m 17.5s	-18° 32' 46"	12.7	Galaxy	0.011x0.005	Canis Major	
NGC 2216	06h 22m 16.3s	-22° 05' 48"	12.8	Galaxy	0.011x0.009	Canis Major	
NGC 2076	05h 47m 35.5s	-16° 46' 38"	13.0	Galaxy	0.018x0.010	Lepus	
IC 2137	05h 35m 06.4s	-23° 31' 20"	13.0	Galaxy	0.01x0.006	Lepus	
NGC 1889	05h 23m 25.8s	-11° 28' 51"	13.1	Galaxy	0.005x0.003	Lepus	
IC 2130	05h 32m 35.4s	-23° 08' 00"	13.1	Galaxy	0.015x0.007	Lepus	
IC 433	05h 41m 21.5s	-11° 39' 25"	13.2	Galaxy	0.005x0.005	Lepus	
IC 2132	05h 33m 18.0s	-13° 54' 53"	13.3	Galaxy	0.012x0.006	Lepus	
IC 2151	05h 53m 24.4s	-17° 47' 04"	13.3	Galaxy	0.012x0.007	Lepus	
IC 416	05h 24m 44.4s	-17° 14' 41"	13.3	Galaxy	0.011x0.005	Lepus	
IC 422	05h 33m 06.5s	-17° 12' 43"	13.3	Galaxy	0.005x0.005	Lepus	
NGC 2212	06h 19m 23.0s	-18° 31' 42"	13.4	Galaxy	0.012x0.006	Canis Major	
IC 1906	05h 25m 35.7s	-15° 55' 39"	13.6	Galaxy	0.007x0.004	Lepus	
IC 441	06h 03m 32.7s	-12° 30' 04"	13.7	Galaxy	0.011x0.01	Lepus	
NGC 1957	05h 33m 44.4s	-14° 07' 15"	13.9	Galaxy	0.009x0.006	Lepus	
IC 437	05h 52m 27.3s	-12° 33' 39"	14.5	Galaxy	0.007x0.003	Lepus	
IC 415	05h 22m 10.3s	-15° 31' 32"	15.0	Galaxy	0.005x0.003	Lepus	

7.143 Main objects visible on chart 142

Table 149: Main objects visible on chart 142

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2422	07h 37m 24.7s	-14° 31' 15"	4.4	Open cluster	0.208x0.208	Puppis	M47
NGC 2287	06h 46m 46.4s	-20° 46' 37"	4.5	Open cluster	0.325x0.325	Canis Major	M41
NGC 2437	07h 42m 36.4s	-14° 51' 12"	6.1	Open cluster	0.166x0.166	Puppis	M46
NGC 2447	07h 45m 15.8s	-23° 54' 03"	6.2	Open cluster	0.083x0.083	Puppis	M93
NGC 2423	07h 37m 56.6s	-13° 54' 46"	6.7	Open cluster	0.1x0.1	Puppis	
NGC 2360	07h 18m 32.1s	-15° 40' 30"	7.2	Open cluster	0.116x0.116	Canis Major	CALDWELL 58
NGC 2409	07h 32m 25.2s	-17° 13' 44"	7.3	Open cluster	0.020x0.020	Puppis	
NGC 2384	07h 25m 56.7s	-21° 03' 30"	7.4	Open cluster	0.041x0.041	Canis Major	
NGC 2396	07h 28m 50.7s	-11° 45' 16"	7.4	Open cluster	0.083x0.083	Puppis	
NGC 2345	07h 09m 08.7s	-13° 13' 24"	7.7	Open cluster	0.1x0.1	Canis Major	
NGC 2367	07h 20m 52.3s	-21° 54' 58"	7.9	Open cluster	0.041x0.041	Canis Major	
NGC 2414	07h 34m 02.0s	-15° 29' 37"	7.9	Open cluster	0.05x0.05	Puppis	

Table 149: Main objects visible on chart 142 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2374	07h 24m 46.1s	-13° 17' 58"	8.0	Open cluster	0.1x0.1	Canis Major	
NGC 2421	07h 36m 59.1s	-20° 39' 10"	8.3	Open cluster	0.066x0.066	Puppis	
NGC 2383	07h 25m 26.7s	-20° 59' 02"	8.4	Open cluster	0.041x0.041	Canis Major	
Mel71	07h 38m 08.7s	-12° 08' 29"	8.9	Open cluster	0.066x0.066	Puppis	
NGC 2440	07h 42m 43.6s	-18° 15' 05"	9.4	Planetary Nebula	0.011x0.011	Puppis	
NGC 2432	07h 41m 40.8s	-19° 07' 10"	10.2	Open cluster	0.058x0.058	Puppis	
NGC 2455	07h 49m 47.0s	-21° 20' 52"	10.2	Open cluster	0.125x0.125	Puppis	
NGC 2438	07h 42m 40.2s	-14° 46' 41"	10.8	Planetary Nebula	0.010x0.010	Puppis	
NGC 2283	06h 46m 40.2s	-18° 13' 49"	11.5	Galaxy	0.03x0.0225	Canis Major	
NGC 2428	07h 40m 10.9s	-16° 34' 14"	12.0	Open cluster	0.108x0.108	Puppis	
NGC 2271	06h 43m 38.0s	-23° 29' 41"	12.1	Galaxy	0.017x0.011	Canis Major	
NGC 2401	07h 30m 14.1s	-14° 00' 18"	12.6	Open cluster	0.016x0.016	Puppis	
NGC 2318	07h 00m 16.7s	-13° 43' 25"	13.6	Open cluster	0.0x0.0	Canis Major	
NGC 2358	07h 17m 44.7s	-17° 08' 59"	13.7	Open cluster	0.066x0.066	Canis Major	
NGC 2425	07h 39m 07.1s	-14° 55' 11"	14.0	Open cluster	0.041x0.041	Puppis	

7.144 Main objects visible on chart 143

Table 150: Main objects visible on chart 143

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2447	07h 45m 15.8s	-23° 54' 03"	6.2	Open cluster	0.083x0.083	Puppis	M93
NGC 2539	08h 11m 27.6s	-12° 52' 29"	6.5	Open cluster	0.125x0.125	Puppis	
NGC 2482	07h 55m 57.9s	-24° 18' 24"	7.3	Open cluster	0.083x0.083	Puppis	
NGC 2509	08h 01m 36.0s	-19° 06' 04"	9.3	Open cluster	0.1x0.1	Puppis	
NGC 2479	07h 55m 54.6s	-17° 45' 22"	9.6	Open cluster	0.091x0.091	Puppis	
NGC 2455	07h 49m 47.0s	-21° 20' 52"	10.2	Open cluster	0.125x0.125	Puppis	
NGC 2613	08h 34m 10.2s	-23° 02' 06"	10.3	Galaxy	0.054x0.011	Pyxis	
NGC 2525	08h 06m 29.2s	-11° 28' 48"	11.6	Galaxy	0.025x0.016	Puppis	
NGC 2517	08h 03m 37.8s	-12° 22' 07"	11.8	Galaxy	0.011x0.008	Puppis	
IC 2367	08h 24m 58.7s	-18° 50' 06"	11.9	Galaxy	0.021x0.015	Puppis	
NGC 2665	08h 46m 49.8s	-19° 22' 12"	12.2	Galaxy	0.016x0.012	Hydra	
NGC 2564	08h 19m 17.4s	-21° 52' 24"	12.4	Galaxy	0.01x0.006	Puppis	
IC 500	08h 13m 29.1s	-16° 06' 22"	12.5	Galaxy	0.010x0.004	Puppis	
NGC 2578	08h 22m 14.9s	-13° 22' 34"	12.6	Galaxy	0.018x0.010	Puppis	
NGC 2610	08h 34m 13.3s	-16° 12' 39"	12.7	Planetary Nebula	0.005x0.005	Hydra	
NGC 2612	08h 34m 41.0s	-13° 14' 12"	12.7	Galaxy	0.023x0.005	Hydra	
NGC 2662	08h 46m 22.5s	-15° 11' 15"	12.8	Galaxy	0.01x0.009	Hydra	
IC 513	08h 33m 56.2s	-12° 25' 02"	13.0	Galaxy	0.009x0.005	Hydra	
IC 2375	08h 27m 10.4s	-13° 21' 47"	13.1	Galaxy	0.015x0.003	Puppis	
IC 2501	07h 59m 20.0s	-14° 24' 14"	13.4	Galaxy	0.011x0.008	Puppis	
IC 2377	08h 27m 16.8s	-13° 22' 01"	13.4	Galaxy	0.005x0.003	Puppis	
IC 2379	08h 27m 18.5s	-13° 21' 12"	13.7	Galaxy	0.008x0.005	Puppis	
IC 524	08h 59m 02.2s	-19° 15' 43"	13.9	Galaxy	0.008x0.005	Hydra	
IC 2403	08h 46m 59.7s	-15° 25' 24"	14.7	Galaxy	0.005x0.002	Hydra	

Table 150: Main objects visible on chart 143 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2674	08h 50m 04.0s	-14° 21' 40"	14.9	Galaxy	0.005x0.002	Hydra	

7.145 Main objects visible on chart 144

Table 151: Main objects visible on chart 144

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2784	09h 13m 07.5s	-24° 14' 50"	10.2	Galaxy	0.045x0.018	Hydra	
NGC 2835	09h 18m 41.5s	-22° 25' 54"	10.5	Galaxy	0.055x0.036	Hydra	
NGC 2986	09h 45m 06.0s	-21° 21' 41"	10.8	Galaxy	0.026x0.021	Hydra	
NGC 3091	10h 01m 05.2s	-19° 43' 25"	11.1	Galaxy	0.025x0.015	Hydra	
NGC 2811	09h 17m 01.9s	-16° 23' 18"	11.3	Galaxy	0.020x0.007	Hydra	
NGC 2935	09h 37m 34.5s	-21° 12' 33"	11.3	Galaxy	0.030x0.023	Hydra	
IC 2482	09h 27m 51.4s	-12° 11' 14"	11.5	Galaxy	0.019x0.013	Hydra	
NGC 2781	09h 12m 18.6s	-14° 53' 30"	11.6	Galaxy	0.025x0.012	Hydra	
NGC 2907	09h 32m 27.6s	-16° 48' 49"	11.6	Galaxy	0.016x0.01	Hydra	
NGC 2855	09h 22m 19.6s	-11° 59' 15"	11.7	Galaxy	0.020x0.018	Hydra	
NGC 2865	09h 24m 19.1s	-23° 14' 21"	11.7	Galaxy	0.020x0.015	Hydra	
NGC 2889	09h 28m 04.8s	-11° 43' 20"	11.7	Galaxy	0.019x0.015	Hydra	
NGC 3145	10h 11m 02.8s	-12° 31' 24"	11.7	Galaxy	0.025x0.013	Hydra	
NGC 2848	09h 21m 00.6s	-16° 36' 09"	11.8	Galaxy	0.020x0.012	Hydra	
NGC 2983	09h 44m 31.4s	-20° 33' 38"	11.8	Galaxy	0.020x0.011	Hydra	
NGC 2815	09h 17m 08.0s	-23° 42' 35"	11.9	Galaxy	0.029x0.009	Hydra	
NGC 2763	09h 07m 39.8s	-15° 34' 20"	12.0	Galaxy	0.019x0.016	Hydra	
NGC 2921	09h 35m 21.0s	-21° 00' 02"	12.0	Galaxy	0.024x0.009	Hydra	
NGC 2924	09h 36m 02.1s	-16° 28' 45"	12.0	Galaxy	0.010x0.01	Hydra	
NGC 3081	10h 00m 19.8s	-22° 54' 46"	12.0	Galaxy	0.018x0.015	Hydra	
NGC 2945	09h 38m 30.7s	-22° 06' 58"	12.1	Galaxy	0.013x0.01	Hydra	
NGC 2947	09h 36m 58.0s	-12° 31' 04"	12.1	Galaxy	0.012x0.011	Hydra	
NGC 2902	09h 31m 44.6s	-14° 48' 55"	12.2	Galaxy	0.013x0.010	Hydra	
NGC 2992	09h 46m 33.9s	-14° 24' 38"	12.2	Galaxy	0.030x0.007	Hydra	
NGC 3052	09h 55m 19.1s	-18° 43' 28"	12.2	Galaxy	0.017x0.010	Hydra	
NGC 3124	10h 07m 31.4s	-19° 18' 36"	12.2	Galaxy	0.024x0.020	Hydra	
NGC 2884	09h 27m 16.8s	-11° 38' 03"	12.6	Galaxy	0.017x0.008	Hydra	
NGC 2993	09h 46m 40.2s	-14° 27' 09"	12.6	Galaxy	0.010x0.007	Hydra	
NGC 2996	09h 47m 20.3s	-21° 39' 18"	12.7	Galaxy	0.012x0.010	Hydra	
NGC 3072	09h 58m 14.9s	-19° 26' 28"	12.8	Galaxy	0.015x0.005	Hydra	
NGC 3171	10h 16m 28.2s	-20° 44' 15"	12.8	Galaxy	0.013x0.009	Hydra	
NGC 3025	09h 50m 19.2s	-21° 49' 33"	12.9	Galaxy	0.0125x0.01	Hydra	
NGC 3028	09h 50m 45.1s	-19° 16' 09"	12.9	Galaxy	0.007x0.006	Hydra	
IC 2437	09h 06m 22.7s	-19° 16' 48"	12.9	Galaxy	0.015x0.009	Hydra	
IC 2541	10h 06m 39.7s	-17° 31' 23"	12.9	Galaxy	0.010x0.004	Hydra	
NGC 2772	09h 08m 30.0s	-23° 41' 34"	13.0	Galaxy	0.012x0.004	Pyxis	
NGC 2989	09h 46m 16.1s	-18° 27' 29"	13.0	Galaxy	0.014x0.007	Hydra	
NGC 3045	09h 54m 08.8s	-18° 43' 45"	13.0	Galaxy	0.011x0.005	Hydra	

Table 151: Main objects visible on chart 144 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3146	10h 12m 01.0s	-20° 57' 36"	13.0	Galaxy	0.008x0.007	Hydra	
NGC 2920	09h 35m 01.9s	-20° 56' 24"	13.1	Galaxy	0.007x0.005	Hydra	
IC 537	09h 26m 14.5s	-12° 28' 10"	13.1	Galaxy	0.01x0.009	Hydra	
NGC 2881-1	09h 26m 46.9s	-12° 04' 27"	13.2	Galaxy	0.009x0.007	Hydra	2881-1
NGC 3085	10h 00m 20.2s	-19° 34' 46"	13.2	Galaxy	0.01x0.003	Hydra	
NGC 2851	09h 21m 21.1s	-16° 34' 20"	13.3	Galaxy	0.010x0.004	Hydra	
NGC 2881-2	09h 26m 45.9s	-12° 04' 16"	13.3	Galaxy	0.006x0.005	Hydra	2881-2
NGC 3030	09h 51m 03.1s	-12° 18' 38"	13.3	Galaxy	0.008x0.007	Hydra	
NGC 3076	09h 58m 29.0s	-18° 15' 53"	13.3	Galaxy	0.008x0.007	Hydra	
NGC 2758	09h 06m 20.7s	-19° 06' 56"	13.4	Galaxy	0.015x0.004	Hydra	
IC 546	09h 35m 41.4s	-16° 27' 55"	13.4	Galaxy	0.009x0.005	Hydra	
NGC 3058	09h 54m 28.7s	-12° 34' 04"	13.5	Galaxy	0.010x0.005	Hydra	
NGC 3128	10h 06m 53.4s	-16° 12' 39"	13.5	Galaxy	0.013x0.005	Hydra	
NGC 3139	10h 10m 58.1s	-11° 52' 00"	13.5	Galaxy	0.012x0.010	Hydra	
IC 542	09h 31m 58.1s	-13° 15' 40"	13.7	Galaxy	0.01x0.003	Hydra	
NGC 3096	10h 01m 24.2s	-19° 44' 57"	13.8	Galaxy	0.008x0.006	Hydra	
NGC 3127	10h 07m 16.8s	-16° 12' 52"	13.8	Galaxy	0.01x0.001	Hydra	
IC 524	08h 59m 02.2s	-19° 15' 43"	13.9	Galaxy	0.008x0.005	Hydra	
IC 579	09h 57m 31.7s	-13° 51' 38"	13.9	Galaxy	0.010x0.003	Hydra	
NGC 3140	10h 10m 19.8s	-16° 42' 60"	14.0	Galaxy	0.007x0.006	Hydra	
NGC 2754	09h 06m 00.8s	-19° 09' 26"	14.1	Galaxy	0.006x0.004	Hydra	
IC 2956	09h 40m 07.5s	-19° 10' 59"	14.2	Galaxy	0.007x0.002	Hydra	
NGC 3176	10h 15m 43.6s	-20° 06' 09"	14.2	Galaxy	0.005x0.004	Hydra	
NGC 3143	10h 10m 56.8s	-12° 40' 15"	14.3	Galaxy	0.007x0.005	Hydra	
NGC 2890	09h 27m 21.3s	-14° 36' 27"	14.5	Galaxy	0.006x0.004	Hydra	
NGC 3133	10h 08m 05.6s	-12° 03' 13"	14.5	Galaxy	0.005x0.003	Hydra	
NGC 2975	09h 42m 07.3s	-16° 45' 23"	14.8	Galaxy	0.006x0.005	Hydra	
NGC 3058A	09h 54m 27.7s	-12° 33' 54"	14.8	Galaxy	0.002x0.001	Hydra	3058A
NGC 3138	10h 10m 09.6s	-12° 02' 46"	14.8	Galaxy	0.01x0.003	Hydra	
IC 3112	10h 04m 49.9s	-20° 52' 12"	15.2	Galaxy	0.008x0.001	Hydra	
IC 3141	10h 10m 11.8s	-16° 44' 31"	15.4	Galaxy	0.003x0.001	Hydra	

7.146 Main objects visible on chart 145

Table 152: Main objects visible on chart 145

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3242	10h 25m 38.2s	-18° 44' 01"	7.7	Planetary Nebula	0.008x0.008	Hydra	CALDWELL 59, Ghost of Jupiter
NGC 3511	11h 04m 16.6s	-23° 11' 01"	11.0	Galaxy	0.05x0.0175	Crater	
NGC 3513	11h 04m 38.7s	-23° 20' 29"	11.5	Galaxy	0.024x0.02	Crater	
NGC 3145	10h 11m 02.8s	-12° 31' 24"	11.7	Galaxy	0.025x0.013	Hydra	
NGC 3450	10h 48m 56.0s	-20° 56' 39"	11.8	Galaxy	0.021x0.019	Hydra	
NGC 3411	10h 51m 19.8s	-12° 56' 26"	11.9	Galaxy	0.017x0.017	Hydra	
NGC 3497	11h 08m 11.5s	-19° 34' 08"	11.9	Galaxy	0.021x0.012	Crater	
NGC 3528	11h 08m 11.5s	-19° 34' 08"	11.9	Galaxy	0.021x0.012	Crater	

Table 152: Main objects visible on chart 145 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3200	10h 19m 28.4s	-18° 04' 22"	12.0	Galaxy	0.035x0.010	Hydra	
IC 2627	11h 10m 46.6s	-23° 49' 28"	12.0	Galaxy	0.021x0.017	Crater	
NGC 3571	11h 12m 24.1s	-18° 23' 17"	12.1	Galaxy	0.025x0.007	Crater	
NGC 3124	10h 07m 31.4s	-19° 18' 36"	12.2	Galaxy	0.024x0.020	Hydra	
NGC 3663	11h 24m 54.4s	-12° 23' 44"	12.3	Galaxy	0.016x0.011	Crater	
NGC 3508	11h 03m 53.3s	-16° 23' 09"	12.4	Galaxy	0.009x0.007	Crater	
IC 2594	10h 36m 55.7s	-24° 24' 59"	12.4	Galaxy	0.011x0.011	Hydra	
NGC 3233	10h 22m 48.8s	-22° 21' 33"	12.5	Galaxy	0.015x0.007	Hydra	
NGC 3456	10h 54m 56.7s	-16° 07' 25"	12.6	Galaxy	0.014x0.01	Crater	
NGC 3464	10h 55m 32.6s	-21° 09' 45"	12.6	Galaxy	0.020x0.014	Hydra	
NGC 3178	10h 17m 01.8s	-15° 52' 53"	12.7	Galaxy	0.011x0.005	Hydra	
NGC 3597	11h 15m 35.3s	-23° 49' 32"	12.7	Galaxy	0.015x0.011	Crater	
NGC 3171	10h 16m 28.2s	-20° 44' 15"	12.8	Galaxy	0.013x0.009	Hydra	
NGC 3361	10h 45m 22.9s	-11° 18' 11"	12.8	Galaxy	0.017x0.006	Sextans	
NGC 3383	10h 48m 11.2s	-24° 31' 59"	12.8	Galaxy	0.011x0.009	Hydra	
NGC 3514	11h 04m 53.3s	-18° 52' 40"	12.8	Galaxy	0.009x0.007	Crater	
NGC 3282	10h 33m 13.5s	-22° 23' 42"	12.9	Galaxy	0.015x0.005	Hydra	
NGC 3453	10h 54m 33.0s	-21° 53' 22"	12.9	Galaxy	0.009x0.005	Hydra	
NGC 3146	10h 12m 01.0s	-20° 57' 36"	13.0	Galaxy	0.008x0.007	Hydra	
IC 3322A	10h 39m 44.1s	-11° 44' 35"	13.0	Galaxy	0.020x0.01	Hydra	IC 3322A
NGC 3479	10h 59m 49.1s	-15° 03' 28"	13.0	Galaxy	0.015x0.010	Crater	
NGC 3667	11h 25m 11.3s	-13° 57' 21"	13.0	Galaxy	0.012x0.009	Crater	
IC 625	10h 43m 29.7s	-24° 01' 47"	13.0	Galaxy	0.019x0.004	Hydra	
NGC 3240	10h 25m 22.4s	-21° 52' 59"	13.1	Galaxy	0.009x0.008	Hydra	
NGC 3335	10h 40m 25.8s	-24° 00' 58"	13.1	Galaxy	0.009x0.007	Hydra	
NGC 3469	10h 57m 51.3s	-14° 23' 48"	13.1	Galaxy	0.014x0.01	Crater	
NGC 3529	11h 08m 12.6s	-19° 39' 13"	13.1	Galaxy	0.008x0.006	Crater	
NGC 3661	11h 24m 32.7s	-13° 55' 47"	13.1	Galaxy	0.013x0.005	Crater	
NGC 3331	10h 41m 00.7s	-23° 54' 53"	13.2	Galaxy	0.01x0.0075	Hydra	
NGC 3404	10h 51m 11.6s	-12° 12' 13"	13.2	Galaxy	0.017x0.004	Hydra	
NGC 3591	11h 14m 57.4s	-14° 11' 06"	13.3	Galaxy	0.010x0.007	Crater	
NGC 3459	10h 55m 37.7s	-17° 08' 16"	13.4	Galaxy	0.013x0.004	Crater	
NGC 3546	11h 10m 40.8s	-13° 28' 41"	13.4	Galaxy	0.013x0.007	Crater	
IC 2589	10h 33m 12.1s	-24° 07' 49"	13.4	Galaxy	0.007x0.005	Hydra	
NGC 3139	10h 10m 58.1s	-11° 52' 00"	13.5	Galaxy	0.012x0.010	Hydra	
IC 3290	10h 36m 10.2s	-17° 22' 13"	13.5	Galaxy	0.008x0.004	Hydra	
NGC 3667B	11h 25m 15.7s	-13° 57' 18"	13.5	Galaxy	0.011x0.005	Crater	3667B
IC 2623	11h 04m 44.1s	-20° 11' 25"	13.5	Galaxy	0.006x0.004	Crater	
NGC 3431	10h 52m 08.2s	-17° 06' 15"	13.6	Galaxy	0.010x0.002	Crater	
NGC 3676	11h 26m 32.1s	-11° 14' 18"	13.6	Galaxy	0.006x0.005	Crater	
NGC 3360	10h 45m 10.0s	-11° 20' 14"	13.7	Galaxy	0.01x0.0075	Sextans	
NGC 3421	10h 51m 51.4s	-12° 32' 37"	13.7	Galaxy	0.015x0.012	Hydra	
IC 2668	11h 16m 26.3s	-14° 16' 11"	13.7	Galaxy	0.010x0.006	Crater	
NGC 3420	10h 51m 02.7s	-17° 20' 19"	13.8	Galaxy	0.010x0.009	Hydra	
NGC 3520	11h 08m 02.3s	-18° 07' 20"	13.8	Galaxy	0.010x0.008	Crater	
NGC 3296	10h 33m 38.6s	-12° 48' 35"	13.9	Galaxy	0.005x0.005	Hydra	

Table 152: Main objects visible on chart 145 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3140	10h 10m 19.8s	-16° 42' 60"	14.0	Galaxy	0.007x0.006	Hydra	
NGC 3452	10h 55m 08.1s	-11° 30' 04"	14.0	Galaxy	0.009x0.002	Crater	
NGC 3409	10h 51m 13.4s	-17° 08' 25"	14.1	Galaxy	0.01x0.001	Hydra	
NGC 3422	10h 52m 11.2s	-12° 29' 52"	14.1	Galaxy	0.010x0.002	Crater	
IC 654	10h 54m 44.3s	-11° 49' 18"	14.1	Galaxy	0.01x0.005	Crater	
IC 681	11h 19m 26.3s	-12° 14' 20"	14.1	Galaxy	0.007x0.003	Crater	
NGC 3176	10h 15m 43.6s	-20° 06' 09"	14.2	Galaxy	0.005x0.004	Hydra	
NGC 3143	10h 10m 56.8s	-12° 40' 15"	14.3	Galaxy	0.007x0.005	Hydra	
NGC 3565	11h 08m 41.2s	-20° 07' 12"	14.3	Galaxy	0.005x0.004	Crater	
NGC 3297	10h 34m 05.1s	-12° 45' 51"	14.5	Galaxy	0.006x0.004	Hydra	
IC 665	11h 01m 23.7s	-13° 57' 47"	14.5	Galaxy	0.006x0.003	Crater	
IC 672	11h 08m 57.4s	-12° 34' 55"	14.6	Galaxy	0.004x0.001	Crater	
NGC 3280A	10h 33m 37.1s	-12° 43' 47"	14.7	Galaxy	0.005x0.004	Hydra	3280A
IC 650	10h 51m 34.1s	-13° 32' 15"	14.7	Galaxy	0.006x0.005	Hydra	
NGC 3138	10h 10m 09.6s	-12° 02' 46"	14.8	Galaxy	0.01x0.003	Hydra	
IC 679	11h 17m 30.7s	-14° 04' 11"	14.8	Galaxy	0.007x0.005	Crater	
NGC 3280B	10h 33m 38.9s	-12° 43' 47"	15.0	Galaxy	0.004x0.002	Hydra	3280B
NGC 3280C	10h 33m 39.7s	-12° 43' 37"	15.0	Galaxy	0.003x0.003	Hydra	
IC 2593	10h 37m 09.3s	-12° 49' 08"	15.0	Galaxy	0.003x0.002	Hydra	
IC 647	10h 51m 28.1s	-12° 56' 59"	15.0	Galaxy	0.002x0.001	Hydra	
IC 3141	10h 10m 11.8s	-16° 44' 31"	15.4	Galaxy	0.003x0.001	Hydra	

7.147 Main objects visible on chart 146

Table 153: Main objects visible on chart 146

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4038	12h 02m 48.2s	-18° 57' 53"	10.3	Galaxy	0.028x0.014	Corvus	CALDWELL 60, Antennae
NGC 4039	12h 02m 49.2s	-18° 59' 09"	10.3	Galaxy	0.027x0.014	Corvus	CALDWELL 61
NGC 3887	11h 47m 59.6s	-16° 57' 14"	10.6	Galaxy	0.029x0.022	Crater	
NGC 3962	11h 55m 35.0s	-14° 04' 30"	10.7	Galaxy	0.021x0.018	Crater	
NGC 4361	12h 25m 27.0s	-18° 53' 02"	10.9	Planetary Nebula	0.017x0.017	Corvus	
NGC 3981	11h 57m 02.2s	-19° 59' 51"	11.0	Galaxy	0.044x0.020	Crater	
NGC 4027	12h 00m 25.9s	-19° 21' 58"	11.1	Galaxy	0.0275x0.02	Corvus	
NGC 4024	11h 59m 26.8s	-18° 26' 49"	11.7	Galaxy	0.015x0.013	Corvus	
NGC 4033	12h 01m 30.1s	-17° 56' 37"	11.7	Galaxy	0.02x0.01	Corvus	
NGC 3957	11h 54m 56.6s	-19° 40' 09"	11.8	Galaxy	0.024x0.005	Crater	
NGC 3955	11h 54m 52.3s	-23° 15' 53"	12.0	Galaxy	0.025x0.008	Crater	
NGC 3956	11h 54m 56.0s	-20° 40' 01"	12.0	Galaxy	0.027x0.008	Crater	
NGC 4094	12h 06m 49.4s	-14° 37' 35"	12.0	Galaxy	0.034x0.012	Corvus	
NGC 4462	12h 30m 17.7s	-23° 15' 57"	12.0	Galaxy	0.025x0.009	Corvus	
NGC 4050	12h 03m 49.4s	-16° 28' 28"	12.2	Galaxy	0.025x0.016	Corvus	
NGC 3663	11h 24m 54.4s	-12° 23' 44"	12.3	Galaxy	0.016x0.011	Crater	
NGC 3715	11h 32m 26.8s	-14° 19' 50"	12.5	Galaxy	0.011x0.007	Crater	
NGC 4177	12h 13m 36.9s	-14° 06' 50"	12.5	Galaxy	0.014x0.01	Corvus	

Table 153: Main objects visible on chart 146 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4263	12h 20m 38.0s	-12° 19' 31"	12.6	Galaxy	0.01x0.005	Corvus	
NGC 3693	11h 29m 06.1s	-13° 17' 36"	12.7	Galaxy	0.028x0.005	Crater	
NGC 3823-1	11h 43m 10.0s	-13° 57' 60"	12.7	Galaxy	0.012x0.010	Crater	3823-1
IC 3831	11h 44m 13.6s	-12° 58' 41"	12.7	Galaxy	0.022x0.005	Crater	
NGC 3704	11h 30m 59.3s	-11° 38' 43"	12.9	Galaxy	0.013x0.011	Crater	
NGC 3836	11h 44m 24.6s	-16° 53' 51"	12.9	Galaxy	0.011x0.010	Crater	
NGC 3969	11h 56m 04.3s	-19° 01' 39"	12.9	Galaxy	0.011x0.007	Crater	
NGC 3667	11h 25m 11.3s	-13° 57' 21"	13.0	Galaxy	0.012x0.009	Crater	
NGC 3661	11h 24m 32.7s	-13° 55' 47"	13.1	Galaxy	0.013x0.005	Crater	
NGC 4114	12h 08m 07.8s	-14° 17' 06"	13.1	Galaxy	0.015x0.006	Corvus	
NGC 3942	11h 52m 25.2s	-11° 31' 30"	13.2	Galaxy	0.012x0.007	Crater	
NGC 3777	11h 37m 01.6s	-12° 40' 08"	13.4	Galaxy	0.009x0.005	Crater	
NGC 3970	11h 56m 23.4s	-12° 09' 42"	13.4	Galaxy	0.01x0.004	Crater	
NGC 3974	11h 56m 35.4s	-12° 07' 39"	13.4	Galaxy	0.01x0.009	Crater	
NGC 4035	12h 01m 24.6s	-16° 02' 58"	13.4	Galaxy	0.009x0.008	Corvus	
NGC 4524	12h 34m 50.5s	-12° 07' 35"	13.4	Galaxy	0.010x0.006	Corvus	
IC 786	12h 24m 06.8s	-13° 18' 14"	13.4	Galaxy	0.008x0.007	Corvus	
NGC 3667B	11h 25m 15.7s	-13° 57' 18"	13.5	Galaxy	0.011x0.005	Crater	3667B
IC 4329	12h 24m 16.6s	-12° 39' 28"	13.5	Galaxy	0.009x0.005	Corvus	
NGC 3676	11h 26m 32.1s	-11° 14' 18"	13.6	Galaxy	0.006x0.005	Crater	
NGC 4201	12h 15m 37.6s	-11° 40' 60"	13.6	Galaxy	0.007x0.006	Virgo	
NGC 4279	12h 21m 20.7s	-11° 45' 57"	13.6	Galaxy	0.009x0.005	Virgo	
NGC 4484	12h 29m 48.7s	-11° 45' 04"	13.6	Galaxy	0.012x0.012	Virgo	
NGC 4188	12h 15m 03.1s	-12° 41' 10"	13.7	Galaxy	0.005x0.005	Corvus	
IC 2856	11h 29m 10.9s	-12° 59' 23"	13.7	Galaxy	0.006x0.002	Crater	
IC 2889	11h 31m 23.5s	-13° 11' 28"	13.8	Galaxy	0.010x0.006	Crater	
NGC 3734	11h 35m 35.3s	-14° 10' 51"	13.9	Galaxy	0.010x0.008	Crater	
IC 706	11h 34m 07.3s	-13° 26' 15"	13.9	Galaxy	0.010x0.001	Crater	
NGC 3711-1	11h 30m 20.2s	-11° 10' 45"	14.0	Galaxy	0.007x0.003	Crater	3711-1
NGC 4225	12h 17m 34.0s	-12° 25' 37"	14.0	Galaxy	0.005x0.004	Corvus	
IC 766	12h 11m 49.2s	-12° 45' 17"	14.0	Galaxy	0.010x0.002	Corvus	
IC 785	12h 23m 57.9s	-13° 19' 22"	14.0	Galaxy	0.007x0.002	Corvus	
NGC 3696	11h 29m 38.6s	-11° 22' 57"	14.1	Galaxy	0.008x0.006	Crater	
IC 3727-1	11h 34m 35.6s	-13° 58' 40"	14.1	Galaxy	0.007x0.005	Crater	IC 3727-1
NGC 4285	12h 21m 35.6s	-11° 44' 31"	14.1	Galaxy	0.007x0.004	Virgo	
NGC 3472	11h 58m 23.4s	-19° 43' 27"	14.3	Galaxy	0.006x0.005	Corvus	
NGC 4027A	12h 00m 24.7s	-19° 25' 56"	14.5	Galaxy	0.007x0.005	Corvus	4027A
IC 743	11h 54m 17.5s	-13° 21' 54"	14.5	Galaxy	0.01x0.003	Crater	
NGC 3707	11h 31m 06.2s	-11° 38' 32"	14.7	Galaxy	0.005x0.003	Crater	
NGC 3823-2	11h 43m 13.8s	-13° 57' 42"	14.7	Galaxy	0.002x0.001	Crater	3823-2
IC 761	12h 06m 49.1s	-12° 46' 23"	14.8	Galaxy	0.005x0.001	Corvus	
IC 695	11h 28m 53.0s	-11° 48' 52"	14.9	Galaxy	0.006x0.001	Crater	
NGC 3711-2	11h 30m 20.7s	-11° 10' 24"	15.0	Galaxy	0.002x0.002	Crater	3711-2

7.148 Main objects visible on chart 147

Table 154: Main objects visible on chart 147

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4594	12h 40m 55.5s	-11° 43' 16"	8.0	Galaxy	0.071x0.035	Virgo	M104, Sombrero galaxy
NGC 5068	13h 19m 53.0s	-21° 07' 56"	10.0	Galaxy	0.060x0.053	Virgo	
NGC 5247	13h 39m 01.5s	-17° 58' 33"	10.0	Galaxy	0.045x0.040	Virgo	
NGC 4856	13h 00m 18.1s	-15° 08' 21"	10.5	Galaxy	0.035x0.01	Virgo	
NGC 5084	13h 21m 15.4s	-21° 55' 18"	10.5	Galaxy	0.077x0.014	Virgo	
NGC 5018	13h 13m 58.9s	-19° 36' 52"	10.8	Galaxy	0.028x0.021	Virgo	
NGC 5044	13h 16m 21.6s	-16° 28' 45"	10.8	Galaxy	0.025x0.025	Virgo	
NGC 4902	13h 01m 56.6s	-14° 36' 38"	10.9	Galaxy	0.024x0.021	Virgo	
NGC 5054	13h 17m 56.0s	-16° 43' 45"	10.9	Galaxy	0.042x0.023	Virgo	
NGC 5170	13h 30m 47.2s	-18° 03' 28"	11.1	Galaxy	0.068x0.008	Virgo	
NGC 4984	13h 09m 54.4s	-15° 36' 41"	11.3	Galaxy	0.03x0.020	Virgo	
NGC 5134	13h 26m 17.3s	-21° 13' 41"	11.3	Galaxy	0.023x0.014	Virgo	
NGC 4804	12h 56m 46.2s	-12° 09' 07"	11.4	Galaxy	0.02x0.013	Corvus	
NGC 5077	13h 20m 28.8s	-12° 45' 03"	11.4	Galaxy	0.018x0.013	Virgo	
NGC 5087	13h 21m 23.4s	-20° 42' 18"	11.4	Galaxy	0.022x0.018	Virgo	
NGC 4783	12h 55m 33.0s	-12° 39' 19"	11.6	Galaxy	0.019x0.010	Corvus	
NGC 4782	12h 55m 32.4s	-12° 39' 59"	11.7	Galaxy	0.015x0.014	Corvus	
NGC 4825	12h 58m 09.0s	-13° 45' 41"	11.7	Galaxy	0.016x0.009	Virgo	
NGC 4933	13h 04m 53.4s	-11° 35' 38"	11.7	Galaxy	0.016x0.009	Virgo	
NGC 5085	13h 21m 16.6s	-24° 32' 04"	11.7	Galaxy	0.029x0.025	Hydra	
NGC 4727	12h 51m 53.9s	-14° 25' 51"	11.8	Galaxy	0.013x0.01	Corvus	
NGC 4897	13h 01m 49.8s	-13° 32' 44"	11.8	Galaxy	0.022x0.019	Virgo	
NGC 5042	13h 16m 29.6s	-24° 04' 43"	11.8	Galaxy	0.035x0.018	Hydra	
IC 5105	13h 22m 46.3s	-13° 18' 04"	11.8	Galaxy	0.016x0.012	Virgo	
NGC 4700	12h 50m 04.2s	-11° 30' 34"	11.9	Galaxy	0.026x0.006	Virgo	
NGC 4899	13h 01m 53.4s	-14° 02' 31"	11.9	Galaxy	0.021x0.011	Virgo	
NGC 4462	12h 30m 17.7s	-23° 15' 57"	12.0	Galaxy	0.025x0.009	Corvus	
NGC 5079	13h 20m 35.1s	-12° 47' 38"	12.0	Galaxy	0.012x0.006	Virgo	
NGC 5254	13h 40m 35.4s	-11° 35' 06"	12.0	Galaxy	0.026x0.012	Virgo	
NGC 4830	12h 58m 25.4s	-19° 47' 17"	12.1	Galaxy	0.018x0.011	Virgo	
NGC 4970	13h 08m 32.1s	-24° 06' 17"	12.2	Galaxy	0.015x0.008	Hydra	
NGC 5037	13h 15m 57.1s	-16° 41' 05"	12.2	Galaxy	0.016x0.005	Virgo	
NGC 5028	13h 14m 42.9s	-13° 08' 13"	12.3	Galaxy	0.013x0.007	Virgo	
IC 4237	13h 25m 31.3s	-21° 13' 49"	12.3	Galaxy	0.020x0.012	Virgo	
IC 4756	12h 53m 49.1s	-15° 30' 36"	12.4	Galaxy	0.014x0.010	Corvus	
NGC 4763	12h 54m 24.2s	-17° 06' 12"	12.4	Galaxy	0.01x0.006	Corvus	
NGC 4877	13h 01m 23.5s	-15° 22' 46"	12.4	Galaxy	0.018x0.008	Virgo	
NGC 4993	13h 10m 46.1s	-23° 28' 46"	12.4	Galaxy	0.010x0.009	Hydra	
NGC 5006	13h 12m 43.7s	-19° 21' 24"	12.4	Galaxy	0.016x0.014	Virgo	
NGC 5088	13h 21m 17.4s	-12° 39' 59"	12.4	Galaxy	0.022x0.005	Virgo	
IC 4197	13h 09m 02.8s	-23° 53' 34"	12.4	Galaxy	0.011x0.007	Hydra	
NGC 5017	13h 13m 52.0s	-16° 51' 38"	12.6	Galaxy	0.015x0.010	Virgo	
IC 5047	13h 16m 46.1s	-16° 36' 47"	12.6	Galaxy	0.022x0.004	Virgo	
NGC 5073	13h 20m 18.3s	-14° 56' 26"	12.6	Galaxy	0.028x0.005	Virgo	
NGC 5146	13h 27m 34.7s	-12° 24' 59"	12.6	Galaxy	0.015x0.010	Virgo	
IC 3831	12h 52m 15.3s	-14° 40' 16"	12.6	Galaxy	0.011x0.007	Corvus	

Table 154: Main objects visible on chart 147 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 3927	12h 59m 08.3s	-22° 58' 23"	12.6	Galaxy	0.009x0.007	Hydra	
IC 4280	13h 33m 53.0s	-24° 17' 56"	12.6	Galaxy	0.009x0.007	Hydra	
NGC 4714	12h 51m 15.8s	-13° 25' 20"	12.7	Galaxy	0.013x0.01	Corvus	
NGC 4724	12h 51m 50.3s	-14° 25' 48"	12.7	Galaxy	0.007x0.005	Corvus	
IC 5030	13h 14m 51.7s	-16° 35' 10"	12.7	Galaxy	0.014x0.01	Virgo	
NGC 5076	13h 20m 27.6s	-12° 50' 05"	12.7	Galaxy	0.010x0.005	Virgo	
IC 4180	13h 07m 55.0s	-24° 00' 47"	12.7	Galaxy	0.007x0.005	Hydra	
NGC 4680	12h 47m 51.1s	-11° 44' 04"	12.8	Galaxy	0.0125x0.01	Virgo	
NGC 4722	12h 52m 28.9s	-13° 25' 40"	12.8	Galaxy	0.015x0.005	Corvus	
NGC 4924	13h 03m 10.0s	-15° 03' 56"	12.8	Galaxy	0.015x0.010	Virgo	
NGC 4968	13h 08m 04.4s	-23° 46' 22"	12.8	Galaxy	0.015x0.007	Hydra	
NGC 5035	13h 15m 46.8s	-16° 35' 13"	12.8	Galaxy	0.011x0.009	Virgo	
NGC 5260	13h 41m 19.7s	-23° 56' 56"	12.8	Galaxy	0.013x0.011	Hydra	
NGC 4855	13h 00m 15.2s	-13° 19' 39"	12.9	Galaxy	0.014x0.010	Virgo	
IC 4997	13h 10m 49.1s	-16° 36' 39"	12.9	Galaxy	0.011x0.007	Virgo	
NGC 5022	13h 14m 28.8s	-19° 38' 33"	12.9	Galaxy	0.020x0.003	Virgo	
NGC 5031	13h 15m 00.7s	-16° 13' 03"	12.9	Galaxy	0.014x0.003	Virgo	
IC 4221	13h 19m 27.9s	-14° 42' 14"	12.9	Galaxy	0.010x0.006	Virgo	
NGC 4838	12h 58m 52.9s	-13° 09' 26"	13.0	Galaxy	0.013x0.011	Virgo	
NGC 5049	13h 16m 57.0s	-16° 29' 31"	13.0	Galaxy	0.015x0.005	Virgo	
NGC 5094	13h 21m 44.3s	-14° 10' 29"	13.0	Galaxy	0.009x0.006	Virgo	
NGC 5119	13h 24m 57.5s	-12° 22' 11"	13.0	Galaxy	0.010x0.003	Virgo	
NGC 4708	12h 50m 38.0s	-11° 11' 29"	13.1	Galaxy	0.01x0.0075	Virgo	
NGC 5072	13h 20m 09.8s	-12° 38' 02"	13.1	Galaxy	0.008x0.005	Virgo	
IC 863	13h 18m 10.0s	-17° 20' 57"	13.2	Galaxy	0.01x0.0075	Virgo	
NGC 5010	13h 13m 23.8s	-15° 53' 34"	13.3	Galaxy	0.010x0.005	Virgo	
NGC 5111	13h 23m 53.7s	-13° 03' 28"	13.3	Galaxy	0.016x0.014	Virgo	
IC 807	12h 43m 09.2s	-17° 30' 08"	13.3	Galaxy	0.005x0.005	Corvus	
NGC 4524	12h 34m 50.5s	-12° 07' 35"	13.4	Galaxy	0.010x0.006	Corvus	
IC 4836	12h 58m 30.9s	-12° 50' 26"	13.4	Galaxy	0.011x0.009	Virgo	
IC 3838	12h 51m 48.5s	-14° 35' 22"	13.4	Galaxy	0.006x0.005	Corvus	
NGC 4920	13h 03m 00.9s	-11° 28' 29"	13.5	Galaxy	0.008x0.005	Virgo	
IC 5038	13h 15m 59.6s	-16° 02' 48"	13.5	Galaxy	0.012x0.002	Virgo	
IC 5046	13h 16m 42.7s	-16° 25' 17"	13.5	Galaxy	0.006x0.005	Virgo	
IC 920	13h 46m 22.5s	-12° 39' 50"	13.5	Galaxy	0.004x0.004	Virgo	
IC 4794	12h 56m 07.1s	-12° 42' 23"	13.6	Galaxy	0.014x0.005	Corvus	
IC 4887	13h 01m 36.3s	-14° 45' 48"	13.6	Galaxy	0.009x0.005	Virgo	
NGC 4748-1	12h 53m 09.3s	-13° 30' 40"	13.7	Galaxy	0.107x0.006	Corvus	4748-1
NGC 4863	13h 00m 39.4s	-14° 07' 34"	13.7	Galaxy	0.015x0.003	Virgo	
IC 3799	12h 49m 56.2s	-14° 29' 47"	13.7	Galaxy	0.02x0.0025	Corvus	
IC 3834	12h 52m 29.0s	-14° 19' 07"	13.7	Galaxy	0.006x0.003	Corvus	
IC 829	12h 53m 24.2s	-15° 36' 56"	13.7	Galaxy	0.005x0.005	Corvus	
NGC 4820	12h 57m 57.3s	-13° 48' 57"	13.9	Galaxy	0.008x0.001	Virgo	
IC 4220	13h 18m 51.7s	-13° 41' 60"	13.9	Galaxy	0.006x0.005	Virgo	
NGC 4748-2	12h 53m 09.6s	-13° 30' 30"	14.1	Galaxy	0.108x0.004	Corvus	4748-2
IC 915	13h 44m 26.0s	-17° 25' 20"	14.1	Galaxy	0.004x0.004	Virgo	

Table 154: Main objects visible on chart 147 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4792	12h 56m 00.2s	-12° 35' 38"	14.2	Galaxy	0.005x0.002	Corvus	
IC 4862	13h 00m 27.7s	-14° 13' 43"	14.2	Galaxy	0.009x0.006	Virgo	
IC 4173	13h 04m 51.2s	-11° 36' 05"	14.2	Galaxy	0.005x0.004	Virgo	
IC 4847	12h 59m 25.7s	-13° 14' 17"	14.3	Galaxy	0.005x0.004	Virgo	
NGC 5099	13h 22m 16.8s	-13° 08' 08"	14.3	Galaxy	0.005x0.005	Virgo	
IC 4177	13h 07m 26.0s	-13° 40' 01"	14.3	Galaxy	0.007x0.003	Virgo	
IC 806	12h 43m 05.1s	-17° 26' 54"	14.4	Galaxy	0.005x0.005	Corvus	
IC 4723	12h 51m 59.6s	-13° 20' 04"	14.5	Galaxy	0.009x0.005	Corvus	
IC 3822	12h 51m 19.3s	-14° 25' 13"	14.5	Galaxy	0.01x8.333	Corvus	
NGC 5097	13h 21m 56.8s	-12° 33' 56"	14.6	Galaxy	0.004x0.002	Virgo	
IC 3824	12h 51m 27.2s	-14° 31' 23"	14.6	Galaxy	0.004x0.002	Corvus	
IC 4217	13h 18m 10.4s	-13° 15' 00"	14.6	Galaxy	0.005x0.003	Virgo	
IC 4823-1	12h 58m 22.4s	-13° 47' 43"	14.7	Galaxy	0.005x0.001	Virgo	IC 4823-1
IC 890	13h 29m 23.4s	-16° 11' 05"	14.7	Galaxy	0.007x0.002	Virgo	
IC 4726	12h 51m 42.7s	-14° 21' 56"	14.8	Galaxy	0.01x0.001	Corvus	
IC 4829	12h 58m 21.3s	-13° 50' 03"	14.8	Galaxy	0.003x0.002	Virgo	
IC 924	13h 46m 35.4s	-12° 32' 42"	15.0	Galaxy	0.005x0.002	Virgo	
IC 927	13h 46m 50.0s	-12° 33' 13"	15.0	Galaxy	0.005x0.003	Virgo	
IC 3825	12h 51m 33.7s	-14° 34' 50"	15.2	Galaxy	0.002x0.001	Corvus	
NGC 4933C	13h 04m 57.9s	-11° 35' 14"	15.3	Galaxy	0.004x0.003	Virgo	
IC 4235	13h 24m 50.2s	-12° 50' 11"	15.3	Galaxy	0.006x0.001	Virgo	
IC 3819	12h 51m 13.0s	-14° 28' 40"	15.4	Galaxy	0.002x0.001	Corvus	

7.149 Main objects visible on chart 148

Table 155: Main objects visible on chart 148

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5728	14h 43m 24.2s	-17° 19' 41"	11.4	Galaxy	0.026x0.015	Libra	
NGC 5796	15h 00m 24.4s	-16° 41' 40"	11.6	Galaxy	0.020x0.015	Libra	
NGC 5791	14h 59m 47.3s	-19° 20' 17"	11.7	Galaxy	0.020x0.010	Libra	
NGC 5757	14h 48m 47.2s	-19° 09' 08"	11.9	Galaxy	0.017x0.014	Libra	
NGC 5595	14h 25m 12.9s	-16° 48' 12"	12.0	Galaxy	0.02x0.010	Libra	
NGC 5597	14h 25m 27.0s	-16° 50' 39"	12.0	Galaxy	0.017x0.015	Libra	
NGC 5605	14h 26m 06.2s	-13° 14' 39"	12.3	Galaxy	0.012x0.010	Libra	
NGC 5756	14h 48m 33.3s	-14° 55' 40"	12.3	Galaxy	0.023x0.010	Libra	
NGC 5761	14h 50m 09.6s	-20° 26' 58"	12.4	Galaxy	0.011x0.010	Libra	
NGC 5716	14h 42m 05.8s	-17° 33' 11"	12.6	Galaxy	0.015x0.010	Libra	
NGC 5734	14h 46m 10.5s	-20° 56' 44"	12.6	Galaxy	0.012x0.008	Libra	
IC 1055	14h 48m 24.9s	-13° 47' 26"	12.6	Galaxy	0.016x0.005	Libra	
IC 1077	14h 58m 22.8s	-19° 17' 10"	12.6	Galaxy	0.011x0.009	Libra	
NGC 5726	14h 43m 56.4s	-18° 31' 12"	12.7	Galaxy	0.010x0.008	Libra	
NGC 5743	14h 46m 12.3s	-20° 59' 18"	12.9	Galaxy	0.011x0.004	Libra	
IC 4468	14h 39m 28.5s	-22° 26' 39"	12.9	Galaxy	0.018x0.005	Libra	
NGC 5742	14h 46m 35.5s	-11° 53' 05"	13.0	Galaxy	0.010x0.004	Libra	

Table 155: Main objects visible on chart 148 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5781	14h 57m 41.7s	-17° 18' 57"	13.0	Galaxy	0.011x0.006	Libra	
NGC 5420	14h 04m 58.4s	-14° 42' 11"	13.1	Galaxy	0.014x0.005	Virgo	
IC 991	14h 18m 47.3s	-13° 57' 20"	13.1	Galaxy	0.012x0.007	Virgo	
NGC 5793	15h 00m 25.2s	-16° 45' 51"	13.2	Galaxy	0.014x0.005	Libra	
NGC 5766	14h 54m 11.3s	-21° 27' 58"	13.3	Galaxy	0.009x0.005	Libra	
NGC 5810	15h 03m 43.4s	-17° 56' 17"	13.3	Galaxy	0.01x0.006	Libra	
NGC 5510	14h 14m 36.8s	-18° 04' 04"	13.4	Galaxy	0.011x0.01	Virgo	
NGC 5745-1	14h 46m 01.1s	-14° 01' 19"	13.4	Galaxy	0.014x0.01	Libra	5745-1
NGC 5809	15h 01m 51.9s	-14° 14' 09"	13.4	Galaxy	0.011x0.005	Libra	
NGC 5744	14h 47m 39.1s	-18° 35' 17"	13.5	Galaxy	0.008x0.005	Libra	
IC 920	13h 46m 22.5s	-12° 39' 50"	13.5	Galaxy	0.004x0.004	Virgo	
NGC 5664	14h 34m 43.0s	-14° 41' 52"	13.6	Galaxy	0.006x0.002	Libra	
NGC 5741	14h 46m 50.3s	-11° 59' 19"	13.6	Galaxy	0.009x0.009	Libra	
IC 4501	14h 48m 27.4s	-22° 28' 49"	13.6	Galaxy	0.008x0.005	Libra	
IC 1081	14h 59m 56.3s	-19° 18' 37"	13.7	Galaxy	0.011x0.004	Libra	
IC 972	14h 05m 25.2s	-17° 18' 47"	13.9	Planetary Nebula	0.007x0.007	Virgo	
IC 915	13h 44m 26.0s	-17° 25' 20"	14.1	Galaxy	0.004x0.004	Virgo	
NGC 5663	14h 34m 56.0s	-16° 39' 32"	14.2	Galaxy	0.011x0.010	Libra	
NGC 5802	15h 01m 29.5s	-13° 59' 20"	14.2	Galaxy	0.007x0.004	Libra	
NGC 5817	15h 00m 41.1s	-16° 15' 05"	14.2	Galaxy	0.007x0.005	Libra	
NGC 5815	15h 01m 29.6s	-16° 54' 16"	14.3	Galaxy	0.006x0.003	Libra	
IC 4476	14h 40m 51.7s	-16° 19' 17"	14.3	Galaxy	0.005x0.003	Libra	
NGC 5555	14h 19m 48.2s	-19° 13' 17"	14.5	Galaxy	0.008x0.003	Virgo	
NGC 5745-2	14h 46m 00.4s	-14° 01' 27"	14.5	Galaxy	0.002x0.002	Libra	5745-2
IC 4354	13h 59m 28.8s	-12° 41' 31"	14.5	Galaxy	0.009x0.002	Virgo	
NGC 5801	15h 01m 25.5s	-13° 58' 27"	14.7	Galaxy	0.005x0.004	Libra	
NGC 5803	15h 01m 34.0s	-13° 57' 52"	14.8	Galaxy	0.005x0.004	Libra	
NGC 5816	15h 01m 05.1s	-16° 09' 51"	14.8	Galaxy	0.004x0.002	Libra	
IC 924	13h 46m 35.4s	-12° 32' 42"	15.0	Galaxy	0.005x0.002	Virgo	
IC 927	13h 46m 50.0s	-12° 33' 13"	15.0	Galaxy	0.005x0.003	Virgo	
IC 4360	14h 05m 19.2s	-11° 30' 37"	15.2	Galaxy	0.005x0.002	Virgo	
NGC 5745	14h 45m 56.4s	-14° 02' 25"	15.5	Galaxy	0.001x0.001	Libra	5745-3

7.150 Main objects visible on chart 149

Table 156: Main objects visible on chart 149

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6093	16h 18m 07.1s	-23° 01' 04"	7.3	Globular cluster	0.083x0.083	Scorpius	M80
NGC 5897	15h 18m 26.9s	-21° 04' 29"	8.4	Globular cluster	0.091x0.091	Libra	
NGC 5903	15h 19m 40.1s	-24° 07' 59"	11.2	Galaxy	0.022x0.017	Libra	
NGC 5898	15h 19m 17.2s	-24° 09' 44"	11.4	Galaxy	0.022x0.021	Libra	
NGC 5878	15h 14m 45.7s	-14° 20' 12"	11.5	Galaxy	0.029x0.011	Libra	
NGC 5796	15h 00m 24.4s	-16° 41' 40"	11.6	Galaxy	0.020x0.015	Libra	
NGC 5861	15h 10m 15.1s	-11° 23' 24"	11.6	Galaxy	0.025x0.014	Libra	

Table 156: Main objects visible on chart 149 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5791	14h 59m 47.3s	-19° 20' 17"	11.7	Galaxy	0.020x0.010	Libra	
NGC 5892	15h 14m 48.5s	-15° 31' 50"	11.7	Galaxy	0.03x0.024	Libra	
IC 4538	15h 22m 15.1s	-23° 43' 20"	12.1	Galaxy	0.021x0.016	Libra	
NGC 5915	15h 22m 32.7s	-13° 09' 19"	12.3	Galaxy	0.013x0.009	Libra	
NGC 5858	15h 09m 48.0s	-11° 16' 34"	12.4	Galaxy	0.012x0.005	Libra	
NGC 5872	15h 11m 54.6s	-11° 32' 48"	12.6	Galaxy	0.012x0.007	Libra	
IC 1077	14h 58m 22.8s	-19° 17' 10"	12.6	Galaxy	0.011x0.009	Libra	
NGC 5890	15h 18m 52.3s	-17° 39' 13"	12.7	Galaxy	0.010x0.008	Libra	
NGC 5863	15h 11m 49.6s	-18° 29' 54"	12.9	Galaxy	0.011x0.01	Libra	
NGC 5781	14h 57m 41.7s	-17° 18' 57"	13.0	Galaxy	0.011x0.006	Libra	
IC 4536	15h 14m 18.6s	-18° 12' 14"	13.0	Galaxy	0.018x0.015	Libra	
NGC 5793	15h 00m 25.2s	-16° 45' 51"	13.2	Galaxy	0.014x0.005	Libra	
NGC 5916	15h 22m 37.5s	-13° 13' 58"	13.2	Galaxy	0.023x0.007	Libra	
NGC 5810	15h 03m 43.4s	-17° 56' 17"	13.3	Galaxy	0.01x0.006	Libra	
NGC 5809	15h 01m 51.9s	-14° 14' 09"	13.4	Galaxy	0.011x0.005	Libra	
NGC 5959	15h 38m 23.5s	-16° 39' 16"	13.4	Galaxy	0.016x0.014	Libra	
IC 1091	15h 09m 12.2s	-11° 12' 31"	13.4	Galaxy	0.008x0.005	Libra	
NGC 5883	15h 16m 10.2s	-14° 40' 56"	13.6	Galaxy	0.007x0.004	Libra	
NGC 5995	15h 49m 25.2s	-13° 48' 41"	13.6	Galaxy	0.007x0.005	Libra	
IC 1081	14h 59m 56.3s	-19° 18' 37"	13.7	Galaxy	0.011x0.004	Libra	
NGC 5891	15h 17m 12.3s	-11° 33' 34"	13.8	Galaxy	0.006x0.004	Libra	
NGC 5849	15h 07m 50.5s	-14° 38' 23"	13.9	Galaxy	0.007x0.006	Libra	
NGC 5978	15h 43m 27.1s	-13° 17' 25"	14.0	Galaxy	0.006x0.005	Libra	
IC 4596	16h 17m 08.0s	-22° 40' 06"	14.0	Galaxy	0.012x0.004	Scorpius	
NGC 5880	15h 16m 01.1s	-14° 38' 39"	14.1	Galaxy	0.005x0.005	Libra	
NGC 5802	15h 01m 29.5s	-13° 59' 20"	14.2	Galaxy	0.007x0.004	Libra	
NGC 5817	15h 00m 41.1s	-16° 15' 05"	14.2	Galaxy	0.007x0.005	Libra	
NGC 5815	15h 01m 29.6s	-16° 54' 16"	14.3	Galaxy	0.006x0.003	Libra	
NGC 5916A	15h 22m 13.4s	-13° 09' 53"	14.4	Galaxy	0.009x0.002	Libra	5916A
NGC 5801	15h 01m 25.5s	-13° 58' 27"	14.7	Galaxy	0.005x0.004	Libra	
NGC 5803	15h 01m 34.0s	-13° 57' 52"	14.8	Galaxy	0.005x0.004	Libra	
NGC 5816	15h 01m 05.1s	-16° 09' 51"	14.8	Galaxy	0.004x0.002	Libra	
IC 4600	16h 17m 09.8s	-22° 49' 36"	15.5	Galaxy	0.003x0.003	Scorpius	

7.151 Main objects visible on chart 150

Table 157: Main objects visible on chart 150

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6093	16h 18m 07.1s	-23° 01' 04"	7.3	Globular cluster	0.083x0.083	Scorpius	M80
NGC 6171	16h 33m 32.4s	-13° 05' 25"	7.8	Globular cluster	0.108x0.108	Ophiuchus	M107
NGC 6333	17h 20m 15.1s	-18° 32' 00"	7.8	Globular cluster	0.1x0.1	Ophiuchus	M9
NGC 6356	17h 24m 38.0s	-17° 49' 41"	8.2	Globular cluster	0.083x0.083	Ophiuchus	
NGC 6235	16h 54m 30.2s	-22° 12' 19"	8.9	Globular cluster	0.041x0.041	Ophiuchus	
NGC 6284	17h 05m 34.9s	-24° 47' 17"	8.9	Globular cluster	0.051x0.051	Ophiuchus	

Table 157: Main objects visible on chart 150 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6287	17h 06m 14.5s	-22° 43' 52"	9.3	Globular cluster	0.04x0.04	Ophiuchus	
NGC 6342	17h 22m 14.0s	-19° 36' 12"	9.5	Globular cluster	0.036x0.036	Ophiuchus	
NGC 6325	17h 19m 05.0s	-23° 46' 60"	10.2	Globular cluster	0.034x0.034	Ophiuchus	
IC 4634	17h 02m 38.3s	-21° 51' 02"	10.9	Planetary Nebula	0.003x0.003	Ophiuchus	
NGC 6309	17h 15m 05.1s	-12° 55' 48"	11.5	Planetary Nebula	0.002x0.002	Ophiuchus	Box nebula
IC 4596	16h 17m 08.0s	-22° 40' 06"	14.0	Galaxy	0.012x0.004	Scorpius	
IC 4600	16h 17m 09.8s	-22° 49' 36"	15.5	Galaxy	0.003x0.003	Scorpius	

7.152 Main objects visible on chart 151

Table 158: Main objects visible on chart 151

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6530	18h 05m 36.2s	-24° 21' 22"	4.6	Open cluster	0.125x0.125	Sagittarius	
IC 4725	18h 32m 48.6s	-19° 06' 21"	4.6	Open cluster	0.216x0.216	Sagittarius	M25
IC 4715	18h 19m 51.4s	-18° 32' 30"	5.0	Open cluster	0.75x0.75	Sagittarius	M24, Sagittarius Star Cloud
NGC 6656	18h 37m 30.1s	-23° 53' 12"	5.2	Globular cluster	0.266x0.266	Sagittarius	M22
NGC 6494	17h 57m 59.6s	-19° 00' 46"	5.5	Open cluster	0.208x0.208	Sagittarius	M23
NGC 6531	18h 05m 18.6s	-22° 29' 52"	5.9	Open cluster	0.133x0.133	Sagittarius	M21
NGC 6605	18h 17m 25.8s	-14° 59' 33"	6.0	Open cluster	0.241x0.241	Serpens Cauda	
NGC 6611	18h 19m 46.2s	-13° 47' 24"	6.0	Open cluster	0.066x0.066	Serpens Cauda	M16
NGC 6604	18h 19m 06.5s	-12° 12' 31"	6.5	Open cluster	0.05x0.05	Serpens Cauda	
Cr367	18h 11m 06.0s	-23° 59' 43"	6.5	Open cluster	0.416x0.25	Sagittarius	
NGC 6613	18h 21m 00.7s	-17° 05' 34"	6.9	Open cluster	0.058x0.058	Sagittarius	M18
NGC 6401	17h 39m 42.9s	-23° 55' 03"	7.4	Globular cluster	0.04x0.04	Ophiuchus	
NGC 6333	17h 20m 15.1s	-18° 32' 00"	7.8	Globular cluster	0.1x0.1	Ophiuchus	M9
NGC 6546	18h 08m 27.7s	-23° 17' 36"	8.0	Open cluster	0.125x0.125	Sagittarius	
NGC 6356	17h 24m 38.0s	-17° 49' 41"	8.2	Globular cluster	0.083x0.083	Ophiuchus	
NGC 6469	17h 54m 01.7s	-22° 18' 53"	8.2	Open cluster	0.066x0.066	Sagittarius	
NGC 6645	18h 33m 40.4s	-16° 52' 10"	8.5	Open cluster	0.125x0.125	Sagittarius	
Tr33	18h 25m 45.9s	-19° 42' 20"	8.5	Open cluster	0.045x0.045	Sagittarius	
NGC 6568	18h 13m 48.8s	-21° 34' 39"	8.6	Open cluster	0.1x0.1	Sagittarius	
NGC 6642	18h 32m 60.0s	-23° 27' 42"	8.9	Globular cluster	0.048x0.048	Sagittarius	
NGC 6625	18h 24m 13.2s	-12° 00' 10"	9.0	Open cluster	0.325x0.325	Scutum	
NGC 6440	17h 49m 56.9s	-20° 21' 49"	9.3	Globular cluster	0.036x0.036	Sagittarius	
NGC 6342	17h 22m 14.0s	-19° 36' 12"	9.5	Globular cluster	0.036x0.036	Ophiuchus	
NGC 6583	18h 16m 53.9s	-22° 07' 49"	10.0	Open cluster	0.041x0.041	Sagittarius	
NGC 6639	18h 31m 58.7s	-13° 09' 25"	10.0	Open cluster	0.041x0.041	Scutum	
NGC 6325	17h 19m 05.0s	-23° 46' 60"	10.2	Globular cluster	0.034x0.034	Ophiuchus	
NGC 6567	18h 14m 48.8s	-19° 04' 10"	11.0	Planetary Nebula	0.001x0.001	Sagittarius	
NGC 6596	18h 18m 35.5s	-16° 38' 32"	11.0	Open cluster	0.083x0.083	Sagittarius	
NGC 6603	18h 19m 27.3s	-18° 23' 54"	11.1	Open cluster	0.033x0.033	Sagittarius	
NGC 6445	17h 50m 19.2s	-20° 00' 48"	11.2	Planetary Nebula	0.006x0.006	Sagittarius	Little Gem nebula
NGC 6629	18h 26m 48.0s	-23° 11' 27"	11.3	Planetary Nebula	0.002x0.002	Sagittarius	
NGC 6369	17h 30m 26.3s	-23° 46' 20"	11.4	Planetary Nebula	0.005x0.005	Ophiuchus	

Table 158: Main objects visible on chart 151 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6537	18h 06m 17.0s	-19° 50' 23"	11.6	Planetary Nebula	0.001x0.001	Sagittarius	
NGC 6631	18h 28m 09.9s	-12° 00' 52"	11.7	Open cluster	0.058x0.058	Scutum	
IC 4670	17h 56m 11.9s	-21° 44' 46"	12.0	Planetary Nebula	6.666x6.666	Sagittarius	
IC 4732	18h 34m 59.9s	-22° 37' 45"	12.1	Planetary Nebula	0.001x0.001	Sagittarius	
NGC 6439	17h 49m 22.3s	-16° 29' 02"	12.6	Planetary Nebula	0.001x0.001	Sagittarius	
NGC 6578	18h 17m 20.8s	-20° 26' 34"	12.9	Planetary Nebula	0.001x0.001	Sagittarius	
NGC 6514	18h 03m 47.5s	-22° 58' 13"	-	Nebula	0.166x0.166	Sagittarius	M20, Trifid nebula
NGC 6523	18h 04m 48.3s	-24° 22' 41"	-	Nebula	0.375x0.25	Sagittarius	M8, Lagoon nebula
NGC 6618	18h 21m 49.3s	-16° 09' 45"	-	Nebula	0.166x0.125	Sagittarius	M17, Omega nebula

7.153 Main objects visible on chart 152

Table 159: Main objects visible on chart 152

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4725	18h 32m 48.6s	-19° 06' 21"	4.6	Open cluster	0.216x0.216	Sagittarius	M25
NGC 6656	18h 37m 30.1s	-23° 53' 12"	5.2	Globular cluster	0.266x0.266	Sagittarius	M22
NGC 6716	18h 55m 37.8s	-19° 53' 04"	7.5	Open cluster	0.083x0.083	Sagittarius	
NGC 6717	18h 56m 11.3s	-22° 40' 34"	8.4	Globular cluster	0.045x0.045	Sagittarius	
NGC 6645	18h 33m 40.4s	-16° 52' 10"	8.5	Open cluster	0.125x0.125	Sagittarius	
NGC 6822	19h 45m 57.6s	-14° 45' 43"	8.7	Galaxy	0.128x0.118	Sagittarius	CALDWELL 57, Barnard's galaxy
NGC 6642	18h 32m 60.0s	-23° 27' 42"	8.9	Globular cluster	0.048x0.048	Sagittarius	
NGC 6818	19h 44m 58.6s	-14° 06' 30"	9.3	Planetary Nebula	0.006x0.006	Sagittarius	
NGC 6774	19h 17m 20.0s	-16° 17' 31"	11.0	Open cluster	0.166x0.166	Sagittarius	
IC 4732	18h 34m 59.9s	-22° 37' 45"	12.1	Planetary Nebula	0.001x0.001	Sagittarius	
IC 1308	19h 46m 06.2s	-14° 40' 37"	14.0	Galpart	0.005x0.005	Sagittarius	

7.154 Main objects visible on chart 153

Table 160: Main objects visible on chart 153

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6864	20h 07m 08.4s	-21° 52' 06"	8.6	Globular cluster	0.056x0.056	Sagittarius	M75
NGC 6822	19h 45m 57.6s	-14° 45' 43"	8.7	Galaxy	0.128x0.118	Sagittarius	CALDWELL 57, Barnard's galaxy
NGC 6981	20h 54m 27.1s	-12° 28' 03"	9.2	Globular cluster	0.055x0.055	Aquarius	M72
NGC 6818	19h 44m 58.6s	-14° 06' 30"	9.3	Planetary Nebula	0.006x0.006	Sagittarius	
NGC 6907	20h 26m 10.9s	-24° 44' 59"	11.2	Galaxy	0.028x0.021	Capricornus	
NGC 6903	20h 24m 47.1s	-19° 16' 01"	11.9	Galaxy	0.012x0.012	Capricornus	
NGC 6835	19h 55m 32.8s	-12° 31' 09"	12.5	Galaxy	0.02x0.005	Sagittarius	
IC 5078	21h 03m 31.6s	-16° 44' 48"	12.7	Galaxy	0.034x0.006	Capricornus	
NGC 6836	19h 55m 40.4s	-12° 38' 24"	12.9	Galaxy	0.014x0.012	Sagittarius	
NGC 6898	20h 22m 07.6s	-12° 18' 03"	13.1	Galaxy	0.01x0.005	Capricornus	
NGC 6912	20h 27m 53.9s	-18° 33' 27"	13.2	Galaxy	0.011x0.009	Capricornus	

Table 160: Main objects visible on chart 153 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1339	20h 58m 56.4s	-17° 52' 19"	13.2	Galaxy	0.011x0.006	Capricornus	
NGC 6931	20h 34m 40.5s	-11° 18' 23"	13.5	Galaxy	0.008x0.003	Capricornus	
NGC 6986	20h 57m 31.7s	-18° 29' 46"	13.5	Galaxy	0.008x0.005	Capricornus	
IC 1332	20h 52m 50.9s	-13° 38' 34"	13.5	Galaxy	0.007x0.005	Aquarius	
IC 1333	20h 53m 17.6s	-16° 13' 02"	13.6	Galaxy	0.012x0.006	Capricornus	
IC 1344	21h 02m 15.9s	-13° 18' 32"	13.7	Galaxy	0.008x0.003	Aquarius	
NGC 6897	20h 22m 00.9s	-12° 11' 49"	13.8	Galaxy	0.007x0.004	Capricornus	
IC 1319	20h 27m 03.0s	-18° 26' 40"	13.8	Galaxy	0.006x0.004	Capricornus	
IC 1337	20h 57m 53.1s	-16° 30' 54"	13.8	Galaxy	0.006x0.005	Capricornus	
IC 1342	21h 01m 25.2s	-14° 25' 26"	13.9	Galaxy	0.006x0.002	Aquarius	
IC 1308	19h 46m 06.2s	-14° 40' 37"	14.0	Galpart	0.005x0.005	Sagittarius	
IC 1330	20h 47m 14.6s	-13° 57' 22"	14.0	Galaxy	0.01x0.003	Aquarius	
IC 1313	20h 19m 45.0s	-16° 53' 20"	14.1	Galaxy	0.017x0.015	Capricornus	
IC 1322	20h 31m 08.9s	-15° 09' 60"	14.1	Galaxy	0.007x0.003	Capricornus	
IC 1328	20h 42m 58.9s	-19° 34' 04"	14.1	Galaxy	0.006x0.003	Capricornus	
IC 1346	21h 02m 36.6s	-13° 53' 20"	14.1	Galaxy	0.01x0.005	Aquarius	
IC 1309	20h 04m 03.1s	-17° 10' 52"	14.2	Galaxy	0.007x0.005	Sagittarius	
IC 1336	20h 56m 06.0s	-17° 58' 09"	14.3	Galaxy	0.006x0.004	Capricornus	
IC 1341	21h 01m 16.2s	-13° 54' 17"	14.3	Galaxy	0.004x0.002	Aquarius	
IC 1348	21h 02m 43.2s	-13° 17' 07"	14.3	Galaxy	0.006x0.003	Aquarius	
IC 1355	21h 02m 57.6s	-13° 06' 03"	14.3	Galaxy	0.003x0.003	Aquarius	
IC 1321	20h 29m 12.7s	-18° 13' 53"	14.4	Galaxy	0.009x0.006	Capricornus	
IC 1347	21h 02m 43.6s	-13° 14' 28"	14.4	Galaxy	0.006x0.005	Aquarius	
NGC 6908	20h 26m 13.3s	-24° 44' 36"	14.6	Galaxy	0.002x8.333	Capricornus	
IC 1345	21h 02m 21.5s	-13° 19' 34"	14.6	Galaxy	0.004x0.004	Aquarius	
IC 1356	21h 03m 53.1s	-15° 44' 24"	14.6	Galaxy	0.009x0.006	Capricornus	
IC 1335	20h 54m 06.5s	-16° 15' 58"	14.7	Galaxy	0.004x0.004	Capricornus	
IC 1349	21h 02m 49.7s	-13° 11' 36"	14.7	Galaxy	0.005x0.002	Aquarius	
IC 1351	21h 02m 51.6s	-13° 07' 47"	14.7	Galaxy	0.004x0.001	Aquarius	
IC 1338	20h 57m 58.1s	-16° 25' 20"	14.9	Galaxy	0.005x0.003	Capricornus	
IC 1343	21h 02m 00.7s	-15° 19' 56"	14.9	Galaxy	0.008x0.004	Capricornus	
IC 1354	21h 02m 51.7s	-13° 46' 50"	15.2	Galaxy	0.005x0.003	Aquarius	
IC 1352	21h 02m 54.1s	-13° 18' 46"	15.7	Galaxy	0.002x8.333	Aquarius	
IC 1353	21h 02m 55.6s	-13° 12' 03"	15.7	Galaxy	0.002x0.001	Aquarius	

7.155 Main objects visible on chart 154

Table 161: Main objects visible on chart 154

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7099	21h 41m 23.2s	-23° 05' 47"	6.9	Globular cluster	0.1x0.1	Capricornus	M30
NGC 7009	21h 05m 09.5s	-11° 17' 27"	8.0	Planetary Nebula	0.008x0.004	Aquarius	CALDWELL 55, Saturn nebula
NGC 7184	22h 03m 39.7s	-20° 43' 30"	10.9	Galaxy	0.049x0.010	Aquarius	
IC 1438	22h 17m 28.4s	-21° 20' 26"	11.9	Galaxy	0.02x0.0175	Aquarius	
NGC 7183	22h 03m 20.6s	-18° 49' 41"	12.0	Galaxy	0.031x0.009	Aquarius	

Table 161: Main objects visible on chart 154 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7218	22h 11m 10.1s	-16° 34' 18"	12.0	Galaxy	0.021x0.009	Aquarius	
NGC 7171	22h 02m 00.0s	-13° 10' 57"	12.2	Galaxy	0.021x0.012	Aquarius	
NGC 7167	22h 01m 31.6s	-24° 32' 46"	12.5	Galaxy	0.014x0.010	Aquarius	
NGC 7180	22h 03m 18.3s	-20° 27' 37"	12.6	Galaxy	0.012x0.005	Aquarius	
NGC 7185	22h 03m 56.3s	-20° 23' 02"	12.6	Galaxy	0.019x0.012	Aquarius	
IC 5078	21h 03m 31.6s	-16° 44' 48"	12.7	Galaxy	0.034x0.006	Capricornus	
NGC 7010	21h 05m 38.4s	-12° 15' 55"	13.0	Galaxy	0.015x0.008	Aquarius	
IC 1386	21h 30m 38.4s	-21° 06' 58"	13.1	Galaxy	0.012x0.009	Capricornus	
IC 1435	22h 14m 25.8s	-22° 00' 24"	13.1	Galaxy	0.008x0.005	Aquarius	
NGC 7188	22h 04m 28.7s	-20° 13' 47"	13.2	Galaxy	0.013x0.006	Aquarius	
IC 1339	20h 58m 56.4s	-17° 52' 19"	13.2	Galaxy	0.011x0.006	Capricornus	
IC 5088	21h 10m 28.9s	-22° 48' 15"	13.2	Galaxy	0.01x0.009	Capricornus	
NGC 6986	20h 57m 31.7s	-18° 29' 46"	13.5	Galaxy	0.008x0.005	Capricornus	
NGC 7073	21h 30m 24.3s	-11° 24' 33"	13.5	Galaxy	0.007x0.006	Capricornus	
NGC 7220	22h 12m 30.9s	-22° 51' 50"	13.5	Galaxy	0.007x0.005	Aquarius	
IC 1412	21h 59m 17.6s	-17° 05' 25"	13.5	Galaxy	0.007x0.003	Capricornus	
NGC 7030	21h 12m 14.7s	-20° 24' 44"	13.7	Galaxy	0.007x0.005	Capricornus	
NGC 7165	22h 00m 25.0s	-16° 25' 34"	13.7	Galaxy	0.007x0.006	Aquarius	
IC 1344	21h 02m 15.9s	-13° 18' 32"	13.7	Galaxy	0.008x0.003	Aquarius	
IC 1417	22h 01m 19.8s	-13° 03' 36"	13.7	Galaxy	0.010x0.003	Aquarius	
IC 1337	20h 57m 53.1s	-16° 30' 54"	13.8	Galaxy	0.006x0.005	Capricornus	
IC 5178	22h 13m 33.1s	-22° 51' 54"	13.8	Galaxy	0.009x0.006	Aquarius	
NGC 7131	21h 48m 34.4s	-13° 05' 53"	13.9	Galaxy	0.014x0.008	Capricornus	
IC 1342	21h 01m 25.2s	-14° 25' 26"	13.9	Galaxy	0.006x0.002	Aquarius	
IC 1408	21h 54m 07.2s	-13° 15' 40"	13.9	Galaxy	0.008x0.003	Capricornus	
NGC 7230	22h 15m 11.7s	-16° 59' 05"	14.1	Galaxy	0.007x0.007	Aquarius	
IC 1346	21h 02m 36.6s	-13° 53' 20"	14.1	Galaxy	0.01x0.005	Aquarius	
NGC 7019	21h 07m 28.6s	-24° 20' 23"	14.2	Galaxy	0.005x0.002	Capricornus	
NGC 7035A	21h 11m 47.7s	-23° 03' 40"	14.2	Galaxy	0.008x0.005	Capricornus	7035A
NGC 7103	21h 40m 52.3s	-22° 23' 28"	14.2	Galaxy	0.011x0.01	Capricornus	
NGC 7104	21h 41m 04.2s	-22° 20' 32"	14.2	Galaxy	0.005x0.005	Capricornus	
IC 1431	22h 08m 37.6s	-13° 25' 29"	14.2	Galaxy	0.006x0.005	Aquarius	
IC 1336	20h 56m 06.0s	-17° 58' 09"	14.3	Galaxy	0.006x0.004	Capricornus	
IC 1341	21h 01m 16.2s	-13° 54' 17"	14.3	Galaxy	0.004x0.002	Aquarius	
IC 1348	21h 02m 43.2s	-13° 17' 07"	14.3	Galaxy	0.006x0.003	Aquarius	
IC 1355	21h 02m 57.6s	-13° 06' 03"	14.3	Galaxy	0.003x0.003	Aquarius	
IC 1347	21h 02m 43.6s	-13° 14' 28"	14.4	Galaxy	0.006x0.005	Aquarius	
IC 5122	21h 40m 46.8s	-22° 19' 26"	14.4	Galaxy	0.005x0.002	Capricornus	
IC 1389	21h 33m 08.0s	-17° 56' 20"	14.5	Galaxy	0.005x0.004	Capricornus	
NGC 7035B	21h 11m 49.5s	-23° 03' 47"	14.6	Galaxy	0.005x0.003	Capricornus	7035B
IC 1345	21h 02m 21.5s	-13° 19' 34"	14.6	Galaxy	0.004x0.004	Aquarius	
IC 1356	21h 03m 53.1s	-15° 44' 24"	14.6	Galaxy	0.009x0.006	Capricornus	
IC 1393	21h 41m 15.1s	-22° 19' 44"	14.6	Galaxy	0.005x0.003	Capricornus	
IC 1349	21h 02m 49.7s	-13° 11' 36"	14.7	Galaxy	0.005x0.002	Aquarius	
IC 1351	21h 02m 51.6s	-13° 07' 47"	14.7	Galaxy	0.004x0.001	Aquarius	
IC 1433	22h 13m 08.3s	-12° 40' 32"	14.7	Galaxy	0.005x0.004	Aquarius	

Table 161: Main objects visible on chart 154 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1338	20h 57m 58.1s	-16° 25' 20"	14.9	Galaxy	0.005x0.003	Capricornus	
IC 1343	21h 02m 00.7s	-15° 19' 56"	14.9	Galaxy	0.008x0.004	Capricornus	
IC 1430	22h 08m 27.8s	-13° 29' 32"	15.0	Galaxy	0.003x0.003	Aquarius	
IC 1354	21h 02m 51.7s	-13° 46' 50"	15.2	Galaxy	0.005x0.003	Aquarius	
IC 1358	21h 07m 29.8s	-16° 07' 50"	15.2	Galaxy	0.003x0.001	Capricornus	
IC 5124	21h 40m 56.2s	-22° 20' 40"	15.5	Galaxy	0.003x8.333	Capricornus	
IC 1352	21h 02m 54.1s	-13° 18' 46"	15.7	Galaxy	0.002x8.333	Aquarius	
IC 1353	21h 02m 55.6s	-13° 12' 03"	15.7	Galaxy	0.002x0.001	Aquarius	

7.156 Main objects visible on chart 155

Table 162: Main objects visible on chart 155

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7293	22h 30m 37.2s	-20° 44' 38"	7.3	Planetary Nebula	0.146x0.146	Aquarius	CALDWELL 63, Helix nebula
NGC 7377	22h 48m 45.8s	-22° 12' 58"	11.1	Galaxy	0.025x0.020	Aquarius	
NGC 7492	23h 09m 23.5s	-15° 30' 47"	11.2	Globular cluster	0.035x0.035	Aquarius	
NGC 7252	22h 21m 44.8s	-24° 35' 14"	11.4	Galaxy	0.017x0.014	Aquarius	Atoms for peace galaxy
NGC 7443	23h 01m 05.4s	-12° 42' 39"	11.6	Galaxy	0.011x0.004	Aquarius	
NGC 7285	22h 29m 37.4s	-24° 44' 53"	11.9	Galaxy	0.017x0.012	Aquarius	
NGC 7392	22h 52m 46.6s	-20° 30' 46"	11.9	Galaxy	0.018x0.011	Aquarius	
IC 1438	22h 17m 28.4s	-21° 20' 26"	11.9	Galaxy	0.02x0.0175	Aquarius	
NGC 7218	22h 11m 10.1s	-16° 34' 18"	12.0	Galaxy	0.021x0.009	Aquarius	
NGC 7284	22h 29m 35.5s	-24° 45' 07"	12.1	Galaxy	0.019x0.013	Aquarius	
NGC 7302	22h 33m 21.5s	-14° 01' 40"	12.3	Galaxy	0.015x0.009	Aquarius	
NGC 7341	22h 40m 04.4s	-22° 34' 20"	12.3	Galaxy	0.02x0.008	Aquarius	
NGC 7359	22h 45m 46.6s	-23° 35' 35"	12.5	Galaxy	0.02x0.005	Aquarius	
IC 1443	22h 20m 02.8s	-20° 50' 57"	12.5	Galaxy	0.006x0.005	Aquarius	
NGC 7247	22h 18m 41.0s	-23° 38' 24"	12.6	Galaxy	0.011x0.006	Aquarius	
NGC 7251	22h 21m 25.4s	-15° 40' 55"	12.6	Galaxy	0.015x0.014	Aquarius	
NGC 7378	22h 48m 44.4s	-11° 43' 17"	12.7	Galaxy	0.012x0.007	Aquarius	
IC 1445	22h 26m 28.5s	-17° 09' 06"	12.7	Galaxy	0.013x0.010	Aquarius	
NGC 7300	22h 31m 57.5s	-13° 54' 37"	12.9	Galaxy	0.017x0.008	Aquarius	
NGC 7365	22h 46m 08.1s	-19° 51' 24"	12.9	Galaxy	0.012x0.008	Aquarius	
NGC 7444	23h 01m 05.6s	-12° 44' 14"	12.9	Galaxy	0.014x0.005	Aquarius	
IC 5210	22h 23m 29.8s	-18° 46' 40"	13.0	Galaxy	0.01x0.009	Aquarius	
IC 5321	23h 27m 16.5s	-17° 51' 27"	13.0	Galaxy	0.010x0.006	Aquarius	
NGC 7450	23h 01m 44.4s	-12° 49' 15"	13.1	Galaxy	0.015x0.015	Aquarius	
IC 1435	22h 14m 25.8s	-22° 00' 24"	13.1	Galaxy	0.008x0.005	Aquarius	
NGC 7256	22h 23m 35.3s	-21° 38' 36"	13.2	Galaxy	0.010x0.005	Aquarius	
NGC 7520	23h 13m 50.6s	-23° 22' 15"	13.2	Galaxy	0.010x0.006	Aquarius	
IC 5261	22h 55m 23.0s	-20° 16' 02"	13.2	Galaxy	0.012x0.010	Aquarius	
NGC 7646	23h 25m 03.0s	-11° 45' 41"	13.3	Galaxy	0.007x0.005	Aquarius	
NGC 7301	22h 31m 33.0s	-17° 28' 51"	13.4	Galaxy	0.008x0.004	Aquarius	
NGC 7220	22h 12m 30.9s	-22° 51' 50"	13.5	Galaxy	0.007x0.005	Aquarius	

Table 162: Main objects visible on chart 155 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7656	23h 25m 28.1s	-18° 57' 36"	13.5	Galaxy	0.01x0.009	Aquarius	
IC 5211	22h 23m 41.6s	-18° 47' 18"	13.5	Galaxy	0.008x0.005	Aquarius	
IC 1471	23h 09m 41.5s	-12° 32' 29"	13.6	Galaxy	0.006x0.003	Aquarius	
NGC 7269	22h 26m 44.4s	-13° 04' 30"	13.7	Galaxy	0.008x0.005	Aquarius	
NGC 7298	22h 31m 48.2s	-14° 05' 45"	13.7	Galaxy	0.010x0.009	Aquarius	
NGC 7308	22h 35m 29.3s	-12° 50' 25"	13.7	Galaxy	0.01x0.0075	Aquarius	
NGC 7573	23h 17m 23.5s	-22° 03' 20"	13.7	Galaxy	0.010x0.009	Aquarius	
IC 1439	22h 17m 39.7s	-21° 23' 43"	13.7	Galaxy	0.010x0.007	Aquarius	
NGC 7310	22h 35m 35.8s	-22° 23' 30"	13.8	Galaxy	0.007x0.005	Aquarius	
IC 5178	22h 13m 33.1s	-22° 51' 54"	13.8	Galaxy	0.009x0.006	Aquarius	
IC 1440	22h 17m 31.5s	-15° 55' 34"	13.9	Galaxy	0.01x0.0025	Aquarius	
NGC 7230	22h 15m 11.7s	-16° 59' 05"	14.1	Galaxy	0.007x0.007	Aquarius	
NGC 7255	22h 24m 06.1s	-15° 26' 59"	14.1	Galaxy	0.010x0.003	Aquarius	
NGC 7381	22h 51m 06.0s	-19° 37' 45"	14.2	Galaxy	0.005x0.004	Aquarius	
IC 1431	22h 08m 37.6s	-13° 25' 29"	14.2	Galaxy	0.006x0.005	Aquarius	
IC 1489	23h 27m 28.2s	-12° 25' 02"	14.2	Galaxy	0.003x0.001	Aquarius	
NGC 7349	22h 42m 13.3s	-21° 42' 08"	14.3	Galaxy	0.008x0.004	Aquarius	
IC 1453	22h 47m 51.5s	-13° 21' 15"	14.3	Galaxy	0.005x0.005	Aquarius	
NGC 7498	23h 10m 53.7s	-24° 19' 36"	14.4	Galaxy	0.007x0.003	Aquarius	
NGC 7246	22h 18m 40.8s	-15° 28' 46"	14.5	Galaxy	0.012x0.006	Aquarius	
NGC 7494	23h 09m 56.1s	-24° 16' 17"	14.6	Galaxy	0.006x0.005	Aquarius	
IC 1433	22h 13m 08.3s	-12° 40' 32"	14.7	Galaxy	0.005x0.004	Aquarius	
IC 5310	23h 21m 44.7s	-22° 03' 00"	14.8	Galaxy	0.004x0.004	Aquarius	
NGC 7287A	22h 29m 48.0s	-22° 06' 35"	15.0	Galaxy	0.002x0.001	Aquarius	7287A
IC 1430	22h 08m 27.8s	-13° 29' 32"	15.0	Galaxy	0.003x0.003	Aquarius	
IC 1456	22h 56m 15.0s	-12° 38' 08"	15.0	Galaxy	0.005x0.001	Aquarius	
IC 1469	23h 07m 25.2s	-13° 26' 20"	15.0	Galaxy	0.004x0.002	Aquarius	

7.157 Main objects visible on chart 156

Table 163: Main objects visible on chart 156

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7793	23h 58m 44.7s	-32° 29' 29"	9.1	Galaxy	0.077x0.052	Sculptor	
NGC 1342	00h 31m 15.0s	-33° 08' 44"	10.4	Galaxy	0.07x0.015	Sculptor	
IC 5332	23h 35m 24.7s	-36° 00' 06"	10.5	Galaxy	0.074x0.068	Sculptor	
NGC 457	00h 14m 58.7s	-23° 04' 53"	10.6	Galaxy	0.070x0.049	Cetus	CALDWELL 13, Owl cluster
NGC 1502	00h 35m 09.1s	-27° 42' 21"	11.4	Galaxy	0.032x0.015	Sculptor	
NGC 2451	00h 10m 50.9s	-24° 51' 52"	11.6	Galaxy	0.048x0.010	Sculptor	
NGC 7755	23h 48m 48.0s	-30° 25' 25"	11.9	Galaxy	0.031x0.023	Sculptor	
NGC 1487	00h 35m 08.5s	-31° 41' 13"	12.2	Galaxy	0.016x0.006	Sculptor	
IC 1558	00h 36m 40.7s	-25° 16' 32"	12.2	Galaxy	0.0275x0.02	Sculptor	
IC 1531	00h 10m 30.2s	-32° 10' 36"	12.4	Galaxy	0.015x0.011	Sculptor	
NGC 104	00h 09m 29.0s	-33° 45' 28"	12.5	Galaxy	0.02x0.01	Sculptor	CALDWELL 106, 47 Tucanae
IC 5358-1	23h 48m 41.1s	-28° 02' 29"	12.5	Galaxy	0.021x0.009	Sculptor	IC 5358-1

Table 163: Main objects visible on chart 156 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1016	00h 24m 48.2s	-32° 26' 12"	12.8	Galaxy	0.017x0.016	Sculptor	
NGC 7749	23h 46m 43.7s	-29° 25' 04"	12.8	Galaxy	0.013x0.009	Sculptor	
IC 1562	00h 39m 27.3s	-24° 10' 30"	12.8	Galaxy	0.013x0.012	Cetus	
IC 5362	23h 52m 32.6s	-28° 15' 54"	12.8	Galaxy	0.010x0.010	Sculptor	
NGC 1747	00h 37m 51.9s	-29° 22' 44"	12.9	Galaxy	0.011x0.005	Sculptor	
NGC 7645	23h 24m 44.9s	-29° 17' 21"	12.9	Galaxy	0.0125x0.01	Sculptor	
IC 5353	23h 48m 24.6s	-28° 00' 32"	13.0	Galaxy	0.012x0.008	Sculptor	
NGC 1156	00h 27m 39.5s	-33° 34' 36"	13.1	Galaxy	0.015x0.007	Sculptor	
NGC 1316	00h 30m 31.4s	-33° 09' 39"	13.2	Galaxy	0.015x0.005	Sculptor	Fornax A
NGC 7812	00h 03m 49.3s	-34° 08' 08"	13.2	Galaxy	0.009x0.005	Sculptor	
IC 5364-1	23h 57m 20.7s	-28° 55' 24"	13.3	Galaxy	0.005x0.005	Sculptor	IC 5364-1
IC 5350	23h 48m 10.7s	-27° 51' 29"	13.5	Galaxy	0.007x0.007	Sculptor	
NGC 7636	23h 23m 30.6s	-29° 10' 55"	13.6	Galaxy	0.007x0.005	Sculptor	
IC 1553	00h 33m 33.7s	-25° 30' 35"	13.6	Galaxy	0.01x0.0025	Sculptor	
NGC 1672	00h 36m 16.6s	-23° 16' 33"	13.7	Galaxy	0.008x0.005	Cetus	
IC 1555	00h 35m 26.0s	-29° 55' 06"	13.7	Galaxy	0.010x0.007	Sculptor	
NGC 7092	00h 09m 15.5s	-29° 48' 58"	13.9	Galaxy	0.018x0.004	Sculptor	M39
IC 5326	23h 30m 32.3s	-28° 43' 55"	13.9	Galaxy	0.008x0.003	Sculptor	
IC 5354-1	23h 48m 24.4s	-28° 02' 09"	14.0	Galaxy	0.005x0.002	Sculptor	IC 5354-1
IC 1561	00h 39m 25.9s	-24° 14' 29"	14.1	Galaxy	0.01x0.004	Cetus	
IC 5349	23h 47m 18.9s	-27° 54' 18"	14.2	Galaxy	0.007x0.001	Sculptor	
IC 5358-2	23h 48m 39.3s	-28° 02' 37"	14.5	Galaxy	0.003x0.001	Sculptor	IC 5358-2
IC 5354-2	23h 48m 25.7s	-28° 02' 01"	15.1	Galaxy	0.002x0.001	Sculptor	IC 5354-2
IC 5364-2	23h 57m 19.5s	-28° 55' 24"	15.6	Galaxy	0.005x0.003	Sculptor	IC 5364-2

7.158 Main objects visible on chart 157

Table 164: Main objects visible on chart 157

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2539	00h 48m 26.1s	-25° 11' 22"	7.2	Galaxy	0.241x0.056	Sculptor	
NGC 288	00h 53m 38.1s	-26° 29' 60"	8.1	Globular cluster	0.108x0.108	Sculptor	
NGC 6134	01h 35m 08.3s	-29° 19' 37"	10.1	Galaxy	0.045x0.035	Sculptor	
NGC 1342	00h 31m 15.0s	-33° 08' 44"	10.4	Galaxy	0.07x0.015	Sculptor	
PGC3589	01h 00m 45.2s	-33° 36' 12"	10.5	Galaxy	0.625x0.625	Sculptor	Sculptor dwarf
NGC 289	00h 53m 34.1s	-31° 06' 29"	11.0	Galaxy	0.0425x0.03	Sculptor	
NGC 1502	00h 35m 09.1s	-27° 42' 21"	11.4	Galaxy	0.032x0.015	Sculptor	
NGC 4395	01h 14m 37.8s	-31° 39' 08"	11.5	Galaxy	0.020x0.012	Sculptor	
NGC 2547	00h 48m 19.8s	-31° 19' 26"	11.7	Galaxy	0.021x0.014	Sculptor	
NGC 1487	00h 35m 08.5s	-31° 41' 13"	12.2	Galaxy	0.016x0.006	Sculptor	
NGC 6866	01h 49m 46.5s	-23° 42' 33"	12.2	Galaxy	0.014x0.011	Fornax	
NGC 7492	01h 56m 29.5s	-29° 50' 05"	12.2	Galaxy	0.015x0.011	Fornax	
IC 1558	00h 36m 40.7s	-25° 16' 32"	12.2	Galaxy	0.0275x0.02	Sculptor	
NGC 6425	01h 39m 55.7s	-29° 49' 28"	12.3	Galaxy	0.016x0.009	Sculptor	
IC 1608	01h 00m 15.3s	-34° 13' 58"	12.4	Galaxy	0.016x0.007	Sculptor	

Table 164: Main objects visible on chart 157 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1657	01h 14m 57.2s	-32° 33' 20"	12.4	Galaxy	0.02x0.005	Sculptor	
NGC 4914	01h 22m 09.9s	-33° 58' 11"	12.5	Galaxy	0.011x0.008	Sculptor	
NGC 6231	01h 35m 54.7s	-36° 23' 54"	12.5	Galaxy	0.016x0.012	Sculptor	CALDWELL 76
IC 1628	01h 09m 39.0s	-28° 29' 12"	12.5	Galaxy	0.009x0.009	Sculptor	
IC 418	01h 11m 26.7s	-30° 07' 32"	12.6	Galaxy	0.016x0.014	Sculptor	
NGC 5687	01h 28m 45.8s	-35° 37' 29"	12.6	Galaxy	0.018x0.010	Sculptor	
IC 1616	01h 05m 47.9s	-27° 19' 58"	12.6	Galaxy	0.013x0.011	Sculptor	
IC 1719	01h 38m 24.5s	-33° 49' 59"	12.6	Galaxy	0.013x0.01	Sculptor	
IC 1729	01h 48m 45.0s	-26° 48' 10"	12.6	Galaxy	0.013x0.007	Fornax	
NGC 4414	01h 14m 41.7s	-31° 41' 38"	12.7	Galaxy	0.011x0.009	Sculptor	
IC 1562	00h 39m 27.3s	-24° 10' 30"	12.8	Galaxy	0.013x0.012	Cetus	
IC 1637	01h 11m 52.2s	-30° 20' 36"	12.8	Galaxy	0.014x0.010	Sculptor	
IC 1734	01h 50m 05.0s	-32° 39' 16"	12.8	Galaxy	0.013x0.011	Fornax	
NGC 1747	00h 37m 51.9s	-29° 22' 44"	12.9	Galaxy	0.011x0.005	Sculptor	
NGC 6121	01h 34m 45.9s	-36° 24' 04"	12.9	Galaxy	0.012x0.007	Sculptor	M4
IC 1720	01h 41m 11.1s	-28° 49' 24"	12.9	Galaxy	0.012x0.009	Sculptor	
IC 1724	01h 43m 57.7s	-34° 09' 07"	12.9	Galaxy	0.010x0.004	Sculptor	
NGC 4096	01h 10m 23.3s	-35° 42' 36"	13.0	Galaxy	0.010x0.009	Sculptor	
526B	01h 24m 46.2s	-34° 58' 32"	13.0	Galaxy	0.006x0.003	Sculptor	526B
NGC 5272	01h 24m 47.3s	-35° 01' 18"	13.0	Galaxy	0.013x0.002	Sculptor	M3
NGC 1156	00h 27m 39.5s	-33° 34' 36"	13.1	Galaxy	0.015x0.007	Sculptor	
NGC 3780	01h 07m 03.4s	-30° 04' 55"	13.1	Galaxy	0.012x0.009	Sculptor	
NGC 1316	00h 30m 31.4s	-33° 09' 39"	13.2	Galaxy	0.015x0.005	Sculptor	Fornax A
235A	00h 43m 46.1s	-23° 26' 34"	13.2	Galaxy	0.010x0.005	Cetus	235A
NGC 5970	01h 33m 04.0s	-33° 24' 17"	13.2	Galaxy	0.011x0.010	Sculptor	
NGC 6962	01h 50m 18.8s	-34° 48' 58"	13.2	Galaxy	0.014x0.005	Fornax	
NGC 2323	00h 43m 39.1s	-23° 27' 48"	13.3	Galaxy	0.007x0.006	Cetus	M50
NGC 4618	01h 18m 10.3s	-33° 44' 48"	13.3	Galaxy	0.01x0.0075	Sculptor	
NGC 5749	01h 29m 51.9s	-35° 30' 21"	13.3	Galaxy	0.009x0.005	Sculptor	
NGC 6193	01h 35m 39.9s	-36° 23' 52"	13.3	Galaxy	0.012x0.008	Sculptor	CALDWELL 82
IC 1728	01h 48m 32.5s	-33° 30' 45"	13.3	Galaxy	0.010x0.006	Fornax	
NGC 3147	00h 57m 44.0s	-31° 51' 57"	13.4	Galaxy	0.007x0.006	Sculptor	
NGC 3655	01h 05m 09.2s	-35° 01' 34"	13.4	Galaxy	0.008x0.005	Sculptor	
NGC 4153	01h 10m 55.7s	-35° 23' 41"	13.4	Galaxy	0.012x0.006	Sculptor	
526A	01h 24m 43.6s	-34° 58' 19"	13.4	Galaxy	0.01x0.005	Sculptor	526A
235B	00h 43m 47.2s	-23° 26' 49"	13.5	Galaxy	0.003x0.003	Cetus	235B
IC 423	01h 12m 13.3s	-29° 08' 21"	13.5	Galaxy	0.008x0.003	Sculptor	423
NGC 6891	01h 50m 41.1s	-27° 22' 39"	13.5	Galaxy	0.008x0.005	Fornax	
NGC 3344	00h 59m 40.8s	-35° 01' 07"	13.6	Galaxy	0.01x0.005	Sculptor	
IC 1553	00h 33m 33.7s	-25° 30' 35"	13.6	Galaxy	0.01x0.0025	Sculptor	
NGC 1672	00h 36m 16.6s	-23° 16' 33"	13.7	Galaxy	0.008x0.005	Cetus	
IC 1555	00h 35m 26.0s	-29° 55' 06"	13.7	Galaxy	0.010x0.007	Sculptor	
IC 1601	00h 56m 27.4s	-24° 03' 22"	13.7	Galaxy	0.007x0.003	Cetus	
491A	01h 20m 54.8s	-33° 48' 23"	13.8	Galaxy	0.015x0.006	Sculptor	491A
NGC 7274	01h 54m 36.4s	-35° 46' 04"	13.9	Galaxy	0.009x0.005	Fornax	
IC 1722	01h 43m 50.9s	-34° 05' 52"	13.9	Galaxy	0.012x0.004	Sculptor	

Table 164: Main objects visible on chart 157 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4278	01h 13m 09.9s	-31° 57' 57"	14.0	Galaxy	0.008x0.005	Sculptor	
NGC 6981	01h 50m 31.2s	-34° 44' 33"	14.0	Galaxy	0.007x0.006	Fornax	M72
NGC 6397	01h 39m 48.6s	-29° 50' 03"	14.1	Galaxy	0.008x0.001	Sculptor	CALDWELL 86
IC 1561	00h 39m 25.9s	-24° 14' 29"	14.1	Galaxy	0.01x0.004	Cetus	
IC 1579	00h 46m 25.2s	-26° 27' 58"	14.1	Galaxy	0.007x0.005	Sculptor	
IC 1739	01h 51m 17.1s	-33° 58' 01"	14.1	Galaxy	0.006x0.004	Fornax	
527A	01h 24m 48.4s	-35° 02' 04"	14.3	Galaxy	0.005x8.333	Sculptor	527A
IC 1587	00h 49m 36.3s	-23° 27' 50"	14.3	Galaxy	0.011x0.003	Cetus	
NGC 2301	00h 43m 20.4s	-23° 31' 50"	14.5	Galaxy	0.009x0.001	Cetus	
IC 1578	00h 45m 19.0s	-24° 58' 41"	14.5	Galaxy	0.006x0.002	Sculptor	
IC 1576	00h 45m 07.0s	-25° 00' 39"	14.7	Galaxy	0.005x0.003	Sculptor	
IC 1599	00h 55m 25.6s	-23° 23' 50"	14.8	Galaxy	0.009x0.001	Cetus	
IC 1600	00h 55m 57.0s	-23° 25' 38"	14.8	Galaxy	0.006x0.003	Cetus	
IC 1588	00h 51m 50.7s	-23° 27' 39"	14.9	Galaxy	0.005x0.002	Cetus	
IC 1582	00h 47m 10.0s	-24° 10' 54"	15.1	Galaxy	0.009x0.002	Cetus	
IC 1581	00h 46m 39.4s	-25° 49' 17"	15.4	Galaxy	0.007x0.001	Sculptor	
IC 1573	00h 43m 03.6s	-23° 29' 37"	16.0	Galaxy	0.01x8.333	Cetus	

7.159 Main objects visible on chart 158

Table 165: Main objects visible on chart 158

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1097	02h 47m 05.5s	-30° 12' 03"	9.5	Galaxy	0.078x0.055	Fornax	CALDWELL 67
NGC 1201	03h 04m 54.8s	-25° 59' 58"	10.7	Galaxy	0.03x0.0175	Fornax	
NGC 1079	02h 44m 31.1s	-28° 55' 38"	11.5	Galaxy	0.045x0.025	Fornax	
IC 1788	02h 16m 37.4s	-31° 07' 05"	11.6	Galaxy	0.021x0.009	Fornax	
IC 1864	02h 54m 23.5s	-34° 07' 31"	11.6	Galaxy	0.01x0.005	Fornax	
NGC 897	02h 21m 52.5s	-33° 38' 21"	11.8	Galaxy	0.017x0.010	Fornax	
NGC 922	02h 25m 52.3s	-24° 42' 30"	12.1	Galaxy	0.016x0.013	Fornax	
NGC 6866	01h 49m 46.5s	-23° 42' 33"	12.2	Galaxy	0.014x0.011	Fornax	
NGC 7492	01h 56m 29.5s	-29° 50' 05"	12.2	Galaxy	0.015x0.011	Fornax	
NGC 6425	01h 39m 55.7s	-29° 49' 28"	12.3	Galaxy	0.016x0.009	Sculptor	
NGC 964	02h 31m 50.3s	-35° 57' 20"	12.4	Galaxy	0.017x0.004	Fornax	
NGC 7234	01h 54m 35.9s	-23° 40' 09"	12.5	Galaxy	0.012x0.010	Cetus	
IC 1783	02h 10m 53.0s	-32° 51' 19"	12.5	Galaxy	0.016x0.006	Fornax	
NGC 7755	01h 59m 22.0s	-26° 12' 25"	12.6	Galaxy	0.014x0.01	Fornax	
IC 1719	01h 38m 24.5s	-33° 49' 59"	12.6	Galaxy	0.013x0.01	Sculptor	
IC 1729	01h 48m 45.0s	-26° 48' 10"	12.6	Galaxy	0.013x0.007	Fornax	
NGC 1165	02h 59m 32.4s	-32° 01' 42"	12.7	Galaxy	0.020x0.007	Fornax	
NGC 857	02h 13m 24.1s	-31° 51' 38"	12.7	Galaxy	0.012x0.010	Fornax	
IC 1860	02h 50m 19.2s	-31° 06' 57"	12.7	Galaxy	0.018x0.014	Fornax	
NGC 823	02h 08m 09.3s	-25° 21' 24"	12.8	Galaxy	0.014x0.010	Fornax	
IC 1734	01h 50m 05.0s	-32° 39' 16"	12.8	Galaxy	0.013x0.011	Fornax	
IC 1816	02h 32m 35.3s	-36° 35' 36"	12.8	Galaxy	0.011x0.01	Fornax	

Table 165: Main objects visible on chart 158 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1826	02h 39m 51.1s	-27° 21' 58"	12.8	Galaxy	0.014x0.011	Fornax	
NGC 1049	02h 40m 32.9s	-34° 10' 54"	12.9	Globular cluster	0.01x0.01	Fornax	
NGC 854	02h 12m 16.5s	-35° 45' 05"	12.9	Galaxy	0.015x0.005	Fornax	
IC 1720	01h 41m 11.1s	-28° 49' 24"	12.9	Galaxy	0.012x0.009	Sculptor	
IC 1724	01h 43m 57.7s	-34° 09' 07"	12.9	Galaxy	0.010x0.004	Sculptor	
IC 1759	01h 58m 43.2s	-32° 54' 00"	12.9	Galaxy	0.012x0.011	Fornax	
IC 1768	02h 01m 39.5s	-24° 56' 24"	13.0	Galaxy	0.005x0.005	Fornax	
NGC 1097A	02h 46m 56.0s	-30° 09' 13"	13.1	Galaxy	0.006x0.004	Fornax	1097A
NGC 824	02h 07m 39.2s	-36° 22' 05"	13.1	Galaxy	0.011x0.01	Fornax	
IC 1833	02h 42m 25.6s	-28° 05' 44"	13.1	Galaxy	0.012x0.006	Fornax	
IC 1858	02h 49m 53.9s	-31° 12' 56"	13.1	Galaxy	0.014x0.004	Fornax	
NGC 6962	01h 50m 18.8s	-34° 48' 58"	13.2	Galaxy	0.014x0.005	Fornax	
IC 1813	02h 31m 34.9s	-34° 08' 33"	13.2	Galaxy	0.01x0.006	Fornax	
IC 1728	01h 48m 32.5s	-33° 30' 45"	13.3	Galaxy	0.010x0.006	Fornax	
IC 1859	02h 49m 49.4s	-31° 05' 54"	13.3	Galaxy	0.01x0.006	Fornax	
IC 1862	02h 52m 43.4s	-33° 16' 01"	13.3	Galaxy	0.025x0.002	Fornax	
IC 1811	02h 31m 23.3s	-34° 11' 08"	13.4	Galaxy	0.010x0.007	Fornax	
NGC 6891	01h 50m 41.1s	-27° 22' 39"	13.5	Galaxy	0.008x0.005	Fornax	
NGC 808	02h 04m 46.5s	-23° 13' 35"	13.5	Galaxy	0.01x0.005	Cetus	
IC 1762	01h 58m 36.2s	-33° 09' 09"	13.5	Galaxy	0.015x0.003	Fornax	
NGC 878	02h 18m 43.7s	-23° 18' 07"	13.8	Galaxy	0.006x0.004	Cetus	
IC 1763	02h 00m 00.5s	-27° 43' 28"	13.8	Galaxy	0.008x0.006	Fornax	
NGC 7274	01h 54m 36.4s	-35° 46' 04"	13.9	Galaxy	0.009x0.005	Fornax	
IC 1722	01h 43m 50.9s	-34° 05' 52"	13.9	Galaxy	0.012x0.004	Sculptor	
NGC 1124	02h 52m 23.5s	-25° 37' 41"	14.0	Galaxy	0.008x0.006	Fornax	
NGC 6981	01h 50m 31.2s	-34° 44' 33"	14.0	Galaxy	0.007x0.006	Fornax	M72
NGC 6397	01h 39m 48.6s	-29° 50' 03"	14.1	Galaxy	0.008x0.001	Sculptor	CALDWELL 86
IC 1739	01h 51m 17.1s	-33° 58' 01"	14.1	Galaxy	0.006x0.004	Fornax	
IC 1876	03h 05m 18.6s	-27° 23' 26"	14.1	Galaxy	0.009x0.008	Fornax	
IC 1885	03h 07m 24.3s	-32° 47' 44"	14.1	Galaxy	0.011x0.004	Fornax	
IC 874	02h 16m 51.7s	-23° 13' 22"	14.2	Galaxy	0.007x0.004	Cetus	
IC 1769	02h 01m 42.6s	-31° 50' 03"	14.7	Galaxy	0.006x0.001	Fornax	

7.160 Main objects visible on chart 159

Table 166: Main objects visible on chart 159

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1360	03h 34m 00.6s	-25° 48' 41"	9.4	Planetary Nebula	0.053x0.053	Fornax	
NGC 1365	03h 34m 18.0s	-36° 04' 52"	9.6	Galaxy	0.091x0.051	Fornax	
NGC 1399	03h 39m 10.3s	-35° 23' 31"	9.6	Galaxy	0.057x0.054	Fornax	
NGC 1398	03h 39m 37.6s	-26° 16' 46"	9.7	Galaxy	0.06x0.043	Fornax	
NGC 1380	03h 37m 09.2s	-34° 54' 60"	9.9	Galaxy	0.033x0.02	Fornax	
NGC 1532	04h 12m 45.3s	-32° 49' 40"	9.9	Galaxy	0.096x0.028	Eridanus	
NGC 1404	03h 39m 33.0s	-35° 32' 06"	10.0	Galaxy	0.027x0.025	Eridanus	

Table 166: Main objects visible on chart 159 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1350	03h 31m 50.5s	-33° 34' 00"	10.3	Galaxy	0.049x0.025	Fornax	
NGC 1344	03h 29m 03.4s	-31° 00' 24"	10.4	Galaxy	0.04x0.025	Fornax	
NGC 1326	03h 24m 37.9s	-36° 24' 04"	10.5	Galaxy	0.032x0.024	Fornax	
NGC 1425	03h 42m 55.5s	-29° 50' 15"	10.6	Galaxy	0.048x0.020	Fornax	
NGC 1537	04h 14m 22.8s	-31° 36' 03"	10.6	Galaxy	0.032x0.021	Eridanus	
NGC 1201	03h 04m 54.8s	-25° 59' 58"	10.7	Galaxy	0.03x0.0175	Fornax	
NGC 1302	03h 20m 37.4s	-25° 59' 46"	10.7	Galaxy	0.032x0.030	Fornax	
NGC 1371	03h 35m 47.5s	-24° 52' 27"	10.7	Galaxy	0.046x0.032	Fornax	
NGC 1387	03h 37m 38.6s	-35° 26' 51"	10.7	Galaxy	0.023x0.021	Fornax	
NGC 1255	03h 14m 18.7s	-25° 39' 29"	10.9	Galaxy	0.035x0.022	Fornax	
NGC 1379	03h 36m 45.3s	-35° 22' 55"	10.9	Galaxy	0.02x0.019	Fornax	
NGC 1385	03h 38m 15.0s	-24° 26' 40"	10.9	Galaxy	0.03x0.018	Fornax	
NGC 1427	03h 43m 00.5s	-35° 20' 11"	10.9	Galaxy	0.031x0.021	Fornax	
NGC 1366	03h 34m 37.3s	-31° 08' 02"	11.1	Galaxy	0.017x0.007	Fornax	
NGC 1374	03h 35m 58.2s	-35° 10' 00"	11.1	Galaxy	0.0225x0.02	Fornax	
NGC 1386	03h 37m 27.5s	-35° 56' 25"	11.2	Galaxy	0.028x0.010	Eridanus	
IC 2006	03h 55m 08.8s	-35° 54' 55"	11.3	Galaxy	0.015x0.013	Eridanus	
NGC 1381	03h 37m 13.4s	-35° 14' 12"	11.5	Galaxy	0.021x0.006	Fornax	
NGC 1389	03h 37m 53.0s	-35° 41' 14"	11.5	Galaxy	0.019x0.01	Eridanus	
NGC 1339	03h 28m 49.9s	-32° 13' 26"	11.6	Galaxy	0.012x0.009	Fornax	
NGC 1351	03h 31m 16.9s	-34° 47' 34"	11.6	Galaxy	0.023x0.014	Fornax	
IC 1864	02h 54m 23.5s	-34° 07' 31"	11.6	Galaxy	0.01x0.005	Fornax	
NGC 1436	03h 44m 18.1s	-35° 47' 53"	11.7	Galaxy	0.025x0.016	Eridanus	
IC 1993	03h 47m 46.7s	-33° 39' 21"	11.7	Galaxy	0.020x0.018	Fornax	
NGC 1406	03h 40m 06.4s	-31° 15' 53"	11.8	Galaxy	0.032x0.005	Fornax	
NGC 1531	04h 12m 40.6s	-32° 48' 20"	11.9	Galaxy	0.01x0.0075	Eridanus	
NGC 1288	03h 17m 56.9s	-32° 30' 40"	12.1	Galaxy	0.019x0.015	Fornax	
IC 1963	03h 36m 13.2s	-34° 23' 16"	12.1	Galaxy	0.021x0.005	Fornax	
NGC 1292	03h 19m 00.6s	-27° 32' 44"	12.2	Galaxy	0.025x0.011	Fornax	
NGC 1336	03h 27m 13.8s	-35° 39' 05"	12.3	Galaxy	0.017x0.012	Fornax	
NGC 1375	03h 35m 58.4s	-35° 12' 24"	12.4	Galaxy	0.019x0.007	Fornax	
NGC 1380A	03h 37m 29.2s	-34° 40' 52"	12.4	Galaxy	0.02x0.005	Fornax	1380A
NGC 1412	03h 41m 14.7s	-26° 48' 17"	12.5	Galaxy	0.015x0.005	Fornax	
NGC 1460	03h 46m 54.0s	-36° 38' 30"	12.6	Galaxy	0.011x0.008	Eridanus	
NGC 1165	02h 59m 32.4s	-32° 01' 42"	12.7	Galaxy	0.020x0.007	Fornax	
NGC 1210	03h 07m 32.2s	-25° 38' 52"	12.7	Galaxy	0.008x0.007	Fornax	
IC 1952	03h 34m 13.5s	-23° 39' 11"	12.7	Galaxy	0.021x0.005	Eridanus	
IC 1369	03h 37m 26.2s	-36° 11' 49"	12.8	Galaxy	0.012x0.011	Eridanus	
NGC 1427A	03h 40m 50.4s	-35° 33' 58"	12.8	Galaxy	0.019x0.012	Eridanus	1427A
NGC 1306	03h 21m 49.5s	-25° 26' 54"	12.9	Galaxy	0.006x0.006	Fornax	
NGC 1382	03h 37m 50.6s	-35° 08' 14"	12.9	Galaxy	0.012x0.010	Fornax	
NGC 1428	03h 43m 04.3s	-35° 05' 51"	12.9	Galaxy	0.009x0.005	Fornax	
IC 1459	03h 47m 43.7s	-25° 27' 60"	12.9	Galaxy	0.014x0.009	Fornax	
IC 2059	04h 21m 08.1s	-31° 40' 57"	12.9	Galaxy	0.010x0.003	Eridanus	
IC 1919	03h 26m 45.3s	-32° 49' 57"	13.0	Galaxy	0.010x0.008	Fornax	
IC 2008	03h 56m 06.9s	-28° 06' 26"	13.0	Galaxy	0.010x0.006	Eridanus	

Table 166: Main objects visible on chart 159 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1437B	03h 46m 35.2s	-36° 18' 12"	13.1	Galaxy	0.021x0.006	Eridanus	1437B
IC 2040	04h 13m 41.2s	-32° 30' 32"	13.1	Galaxy	0.011x0.006	Eridanus	
NGC 1326A	03h 25m 50.0s	-36° 18' 07"	13.2	Galaxy	0.015x0.014	Fornax	1326A
NGC 1326B	03h 26m 01.1s	-36° 19' 19"	13.3	Galaxy	0.03x0.009	Fornax	1326B
NGC 1373	03h 35m 40.8s	-35° 06' 43"	13.3	Galaxy	0.01x0.0075	Fornax	
IC 1862	02h 52m 43.4s	-33° 16' 01"	13.3	Galaxy	0.025x0.002	Fornax	
IC 1895	03h 10m 23.2s	-25° 11' 08"	13.3	Galaxy	0.012x0.009	Fornax	
NGC 1351A	03h 29m 30.5s	-35° 06' 59"	13.4	Galaxy	0.021x0.004	Fornax	1351A
NGC 1437A	03h 43m 42.9s	-36° 13' 00"	13.4	Galaxy	0.015x0.012	Eridanus	1437A
IC 1899	03h 12m 59.9s	-25° 14' 17"	13.4	Galaxy	0.009x0.002	Fornax	
IC 1904	03h 15m 45.5s	-30° 38' 33"	13.4	Galaxy	0.011x0.005	Fornax	
IC 1492	03h 58m 53.7s	-35° 23' 43"	13.5	Galaxy	0.007x0.005	Eridanus	
IC 1906	03h 16m 48.6s	-34° 17' 40"	13.5	Galaxy	0.01x0.003	Fornax	
IC 1909	03h 18m 03.2s	-33° 37' 30"	13.5	Galaxy	0.01x0.005	Fornax	
IC 1913	03h 20m 18.1s	-32° 24' 02"	13.6	Galaxy	0.015x0.002	Fornax	
NGC 1540A	04h 15m 53.8s	-28° 26' 07"	13.7	Galaxy	0.006x0.004	Eridanus	1540A
NGC 1396	03h 38m 47.9s	-35° 22' 54"	13.8	Galaxy	0.005x0.003	Fornax	
NGC 1540	04h 15m 54.1s	-28° 26' 19"	13.9	Galaxy	0.009x0.005	Eridanus	NGC 1540A
IC 2041	04h 13m 16.4s	-32° 46' 21"	14.0	Galaxy	0.009x0.005	Eridanus	
IC 1876	03h 05m 18.6s	-27° 23' 26"	14.1	Galaxy	0.009x0.008	Fornax	
IC 1885	03h 07m 24.3s	-32° 47' 44"	14.1	Galaxy	0.011x0.004	Fornax	
IC 1327	03h 26m 09.5s	-25° 37' 01"	14.5	Galaxy	0.008x0.002	Fornax	

7.161 Main objects visible on chart 160

Table 167: Main objects visible on chart 160

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1904	05h 24m 55.1s	-24° 30' 29"	7.7	Globular cluster	0.08x0.08	Lepus	M79
NGC 1532	04h 12m 45.3s	-32° 49' 40"	9.9	Galaxy	0.096x0.028	Eridanus	
NGC 1537	04h 14m 22.8s	-31° 36' 03"	10.6	Galaxy	0.032x0.021	Eridanus	
NGC 1744	05h 00m 41.6s	-25° 59' 49"	11.1	Galaxy	0.061x0.029	Lepus	
NGC 1679	04h 50m 36.5s	-31° 56' 14"	11.6	Galaxy	0.022x0.016	Caelum	
NGC 1531	04h 12m 40.6s	-32° 48' 20"	11.9	Galaxy	0.01x0.0075	Eridanus	
NGC 1963	05h 32m 48.6s	-36° 22' 07"	12.0	Open cluster	0.116x0.116	Columba	
IC 408	05h 20m 29.0s	-25° 02' 50"	12.3	Galaxy	0.015x0.009	Lepus	
NGC 1800	05h 07m 06.2s	-31° 55' 53"	12.6	Galaxy	0.016x0.009	Columba	
IC 1812	05h 09m 35.0s	-29° 13' 47"	12.6	Galaxy	0.01x0.0075	Columba	
NGC 1886	05h 22m 33.1s	-23° 47' 37"	12.7	Galaxy	0.025x0.003	Lepus	
NGC 1701	04h 56m 33.2s	-29° 51' 22"	12.8	Galaxy	0.01x0.0075	Caelum	
NGC 1879	05h 20m 28.6s	-32° 07' 31"	12.8	Galaxy	0.020x0.014	Columba	
NGC 1591	04h 30m 14.9s	-26° 40' 28"	12.9	Galaxy	0.01x0.006	Eridanus	
IC 2059	04h 21m 08.1s	-31° 40' 57"	12.9	Galaxy	0.010x0.003	Eridanus	
IC 2106	04h 57m 16.6s	-28° 28' 36"	13.0	Galaxy	0.014x0.007	Caelum	
IC 411	05h 21m 02.6s	-25° 18' 26"	13.0	Galaxy	0.01x0.0075	Lepus	

Table 167: Main objects visible on chart 160 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2040	04h 13m 41.2s	-32° 30' 32"	13.1	Galaxy	0.011x0.006	Eridanus	
IC 2125	05h 25m 11.3s	-27° 00' 02"	13.3	Galaxy	0.008x0.005	Lepus	
NGC 1592	04h 30m 24.5s	-27° 22' 11"	13.6	Galaxy	0.014x0.008	Eridanus	
IC 1811	05h 09m 24.7s	-29° 15' 15"	13.6	Galaxy	0.014x0.003	Columba	
NGC 1540A	04h 15m 53.8s	-28° 26' 07"	13.7	Galaxy	0.006x0.004	Eridanus	1540A
NGC 1540	04h 15m 54.1s	-28° 26' 19"	13.9	Galaxy	0.009x0.005	Eridanus	NGC 1540A
IC 1687	04h 52m 01.0s	-33° 54' 35"	13.9	Galaxy	0.010x0.004	Caelum	
IC 2041	04h 13m 16.4s	-32° 46' 21"	14.0	Galaxy	0.009x0.005	Eridanus	

7.162 Main objects visible on chart 161

Table 168: Main objects visible on chart 161

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1904	05h 24m 55.1s	-24° 30' 29"	7.7	Globular cluster	0.08x0.08	Lepus	M79
NGC 2243	06h 30m 15.3s	-31° 17' 40"	9.4	Open cluster	0.069x0.069	Canis Major	
NGC 2217	06h 22m 22.8s	-27° 14' 38"	10.7	Galaxy	0.039x0.035	Canis Major	
NGC 2090	05h 47m 40.6s	-34° 14' 43"	11.2	Galaxy	0.040x0.02	Columba	
NGC 2272	06h 43m 24.3s	-27° 28' 42"	11.5	Galaxy	0.02x0.013	Canis Major	
NGC 2139	06h 01m 52.8s	-23° 40' 24"	11.6	Galaxy	0.02x0.015	Lepus	
NGC 2188	06h 10m 48.8s	-34° 06' 35"	11.7	Galaxy	0.035x0.009	Columba	
NGC 1979	05h 34m 46.2s	-23° 17' 57"	11.9	Galaxy	0.015x0.015	Lepus	
NGC 2263	06h 39m 13.2s	-24° 51' 56"	11.9	Galaxy	0.021x0.016	Canis Major	
NGC 1963	05h 32m 48.6s	-36° 22' 07"	12.0	Open cluster	0.116x0.116	Columba	
IC 2158	06h 06m 00.5s	-27° 51' 34"	12.1	Galaxy	0.014x0.010	Columba	
NGC 2206	06h 16m 43.0s	-26° 46' 21"	12.2	Galaxy	0.02x0.010	Canis Major	
IC 408	05h 20m 29.0s	-25° 02' 50"	12.3	Galaxy	0.015x0.009	Lepus	
NGC 2267	06h 41m 32.0s	-32° 30' 01"	12.5	Galaxy	0.014x0.010	Canis Major	
IC 2136	05h 33m 50.9s	-36° 23' 16"	12.5	Galaxy	0.023x0.005	Columba	
IC 2152	05h 58m 38.4s	-23° 10' 47"	12.6	Galaxy	0.014x0.01	Lepus	
NGC 1886	05h 22m 33.1s	-23° 47' 37"	12.7	Galaxy	0.025x0.003	Lepus	
NGC 2049	05h 43m 56.6s	-30° 04' 15"	12.7	Galaxy	0.016x0.008	Columba	
NGC 1879	05h 20m 28.6s	-32° 07' 31"	12.8	Galaxy	0.020x0.014	Columba	
NGC 1989	05h 35m 04.5s	-30° 47' 22"	12.9	Galaxy	0.011x0.009	Columba	
IC 2137	05h 35m 06.4s	-23° 31' 20"	13.0	Galaxy	0.01x0.006	Lepus	
IC 411	05h 21m 02.6s	-25° 18' 26"	13.0	Galaxy	0.01x0.0075	Lepus	
IC 2130	05h 32m 35.4s	-23° 08' 00"	13.1	Galaxy	0.015x0.007	Lepus	
IC 2125	05h 25m 11.3s	-27° 00' 02"	13.3	Galaxy	0.008x0.005	Lepus	
NGC 1992	05h 35m 12.8s	-30° 53' 10"	13.5	Galaxy	0.009x0.005	Columba	
NGC 2255	06h 34m 37.4s	-34° 49' 36"	13.5	Galaxy	0.012x0.005	Columba	
IC 2153	06h 00m 44.0s	-33° 55' 11"	13.5	Galaxy	0.009x0.006	Columba	
NGC 2131	05h 59m 30.5s	-26° 39' 10"	14.0	Galaxy	0.009x0.004	Lepus	

7.163 Main objects visible on chart 162

Table 169: Main objects visible on chart 162

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2362	07h 19m 26.2s	-24° 59' 17"	3.8	Open cluster	0.05x0.05	Canis Major	CALDWELL 64, Tau Canis Majoris Cluster
NGC 2447	07h 45m 15.8s	-23° 54' 03"	6.2	Open cluster	0.083x0.083	Puppis	M93
NGC 2354	07h 14m 54.4s	-25° 43' 19"	6.5	Open cluster	0.15x0.15	Canis Major	
NGC 2439	07h 41m 27.3s	-31° 44' 07"	6.9	Open cluster	0.075x0.075	Puppis	
NGC 2489	07h 56m 59.1s	-30° 06' 47"	7.9	Open cluster	0.041x0.041	Puppis	
NGC 2453	07h 48m 18.4s	-27° 14' 25"	8.3	Open cluster	0.033x0.033	Puppis	
NGC 2298	06h 49m 37.5s	-36° 01' 34"	9.3	Globular cluster	0.041x0.041	Puppis	
NGC 2243	06h 30m 15.3s	-31° 17' 40"	9.4	Open cluster	0.069x0.069	Canis Major	
NGC 2280	06h 45m 31.9s	-27° 39' 31"	10.3	Galaxy	0.052x0.025	Canis Major	
NGC 2292	06h 48m 22.9s	-26° 46' 02"	11.0	Galaxy	0.033x0.029	Canis Major	
NGC 2293	06h 48m 26.3s	-26° 46' 32"	11.2	Galaxy	0.033x0.026	Canis Major	
NGC 2382	07h 24m 38.1s	-27° 33' 53"	11.2	Galaxy	0.017x0.016	Canis Major	
NGC 2325	07h 03m 22.9s	-28° 43' 30"	11.3	Galaxy	0.025x0.012	Canis Major	
NGC 2272	06h 43m 24.3s	-27° 28' 42"	11.5	Galaxy	0.02x0.013	Canis Major	
NGC 2263	06h 39m 13.2s	-24° 51' 56"	11.9	Galaxy	0.021x0.016	Canis Major	
IC 456	07h 00m 59.3s	-30° 11' 21"	11.9	Galaxy	0.017x0.010	Canis Major	
NGC 2452	07h 48m 10.5s	-27° 22' 50"	12.0	Planetary Nebula	0.004x0.004	Puppis	
NGC 2271	06h 43m 38.0s	-23° 29' 41"	12.1	Galaxy	0.017x0.011	Canis Major	
NGC 2267	06h 41m 32.0s	-32° 30' 01"	12.5	Galaxy	0.014x0.010	Canis Major	
NGC 2295	06h 48m 06.7s	-26° 45' 25"	12.5	Galaxy	0.017x0.005	Canis Major	
NGC 2255	06h 34m 37.4s	-34° 49' 36"	13.5	Galaxy	0.012x0.005	Columba	

7.164 Main objects visible on chart 163

Table 170: Main objects visible on chart 163

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2447	07h 45m 15.8s	-23° 54' 03"	6.2	Open cluster	0.083x0.083	Puppis	M93
NGC 2527	08h 05m 42.5s	-28° 11' 54"	6.5	Open cluster	0.083x0.083	Puppis	
NGC 2439	07h 41m 27.3s	-31° 44' 07"	6.9	Open cluster	0.075x0.075	Puppis	
NGC 2571	08h 19m 40.4s	-29° 48' 23"	7.0	Open cluster	0.058x0.058	Puppis	
NGC 2482	07h 55m 57.9s	-24° 18' 24"	7.3	Open cluster	0.083x0.083	Puppis	
NGC 2567	08h 19m 15.6s	-30° 41' 50"	7.4	Open cluster	0.091x0.091	Puppis	
NGC 2579	08h 21m 33.7s	-36° 16' 27"	7.5	Open cluster	0.158x0.158	Puppis	
NGC 2483	07h 56m 23.2s	-27° 56' 37"	7.6	Open cluster	0.075x0.075	Puppis	
NGC 2533	08h 07m 47.6s	-29° 55' 10"	7.6	Open cluster	0.05x0.05	Puppis	
NGC 2489	07h 56m 59.1s	-30° 06' 47"	7.9	Open cluster	0.041x0.041	Puppis	
NGC 2453	07h 48m 18.4s	-27° 14' 25"	8.3	Open cluster	0.033x0.033	Puppis	
NGC 2627	08h 37m 59.6s	-30° 01' 07"	8.4	Open cluster	0.075x0.075	Pyxis	
Tr9	07h 56m 27.1s	-25° 55' 55"	9.1	Open cluster	0.058x0.058	Puppis	
NGC 2587	08h 24m 08.3s	-29° 34' 03"	9.2	Open cluster	0.083x0.083	Puppis	

Table 170: Main objects visible on chart 163 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2658	08h 44m 11.0s	-32° 43' 18"	9.2	Open cluster	0.083x0.083	Pyxis	
NGC 2580	08h 22m 11.9s	-30° 20' 59"	9.7	Open cluster	0.066x0.066	Puppis	
NGC 2663	08h 45m 51.6s	-33° 51' 40"	10.6	Galaxy	0.029x0.02	Pyxis	
NGC 2559	08h 17m 51.1s	-27° 30' 49"	10.9	Galaxy	0.025x0.011	Puppis	
NGC 2566	08h 19m 31.4s	-25° 33' 28"	11.0	Galaxy	0.024x0.014	Puppis	
NGC 2635	08h 39m 08.4s	-34° 50' 08"	11.2	Open cluster	0.025x0.025	Pyxis	
IC 2311	08h 19m 31.9s	-25° 25' 38"	11.5	Galaxy	0.010x0.010	Puppis	
NGC 2588	08h 23m 52.2s	-33° 02' 01"	11.8	Open cluster	0.016x0.016	Puppis	
NGC 2452	07h 48m 10.5s	-27° 22' 50"	12.0	Planetary Nebula	0.004x0.004	Puppis	
NGC 2717	08h 57m 48.5s	-24° 44' 38"	12.3	Galaxy	0.017x0.012	Pyxis	

7.165 Main objects visible on chart 164

Table 171: Main objects visible on chart 164

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
Mel96	09h 16m 53.6s	-36° 42' 07"	8.2	Open cluster	0.066x0.066	Pyxis	
NGC 2997	09h 46m 25.9s	-31° 16' 27"	9.5	Galaxy	0.074x0.056	Antlia	
NGC 3109	10h 03m 56.2s	-26° 14' 45"	9.9	Galaxy	0.159x0.030	Hydra	
NGC 2784	09h 13m 07.5s	-24° 14' 50"	10.2	Galaxy	0.045x0.018	Hydra	
NGC 3087	09h 59m 55.7s	-34° 18' 44"	10.5	Galaxy	0.016x0.016	Antlia	
NGC 3223	10h 22m 23.3s	-34° 21' 29"	11.0	Galaxy	0.034x0.022	Antlia	
NGC 3224	10h 22m 29.5s	-34° 47' 14"	11.0	Galaxy	0.015x0.012	Antlia	
NGC 3078	09h 59m 13.7s	-27° 00' 46"	11.1	Galaxy	0.022x0.019	Hydra	
NGC 3100	10h 01m 28.8s	-31° 45' 04"	11.1	Galaxy	0.026x0.014	Antlia	
IC 2469	09h 23m 47.1s	-32° 31' 39"	11.1	Galaxy	0.039x0.008	Pyxis	
NGC 2818	09h 16m 53.6s	-36° 42' 07"	11.2	Planetary Nebula	0.011x0.011	Pyxis	
NGC 3175	10h 15m 31.8s	-28° 57' 40"	11.2	Galaxy	0.042x0.010	Antlia	
NGC 3137	10h 09m 56.5s	-29° 09' 09"	11.5	Galaxy	0.051x0.018	Antlia	
NGC 3038	09h 52m 02.4s	-32° 50' 19"	11.6	Galaxy	0.020x0.011	Antlia	
NGC 2865	09h 24m 19.1s	-23° 14' 21"	11.7	Galaxy	0.020x0.015	Hydra	
NGC 3056	09h 55m 21.3s	-28° 23' 02"	11.7	Galaxy	0.015x0.009	Antlia	
NGC 3095	10h 00m 53.7s	-31° 38' 25"	11.7	Galaxy	0.03x0.016	Antlia	
IC 2560	10h 17m 07.0s	-33° 39' 13"	11.7	Galaxy	0.025x0.016	Antlia	
NGC 3051	09h 54m 47.3s	-27° 22' 18"	11.8	Galaxy	0.017x0.015	Antlia	
NGC 3054	09h 55m 18.0s	-25° 47' 21"	11.8	Galaxy	0.031x0.02	Hydra	
NGC 3108	10h 03m 17.2s	-31° 45' 48"	11.8	Galaxy	0.020x0.015	Antlia	
NGC 2815	09h 17m 08.0s	-23° 42' 35"	11.9	Galaxy	0.029x0.009	Hydra	
NGC 3001	09h 47m 06.1s	-30° 31' 14"	11.9	Galaxy	0.024x0.016	Antlia	
IC 2531	10h 00m 44.2s	-29° 42' 17"	12.0	Galaxy	0.057x0.005	Antlia	
IC 2533	10h 01m 19.6s	-31° 19' 55"	12.0	Galaxy	0.015x0.010	Antlia	
IC 2511	09h 50m 11.2s	-32° 55' 25"	12.1	Galaxy	0.024x0.005	Antlia	
IC 2537	10h 04m 41.1s	-27° 39' 33"	12.1	Galaxy	0.020x0.014	Antlia	
NGC 3089	10h 00m 25.5s	-28° 25' 04"	12.2	Galaxy	0.015x0.008	Antlia	
IC 2522	09h 55m 56.1s	-33° 13' 22"	12.2	Galaxy	0.023x0.015	Antlia	

Table 171: Main objects visible on chart 164 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2717	08h 57m 48.5s	-24° 44' 38"	12.3	Galaxy	0.017x0.012	Pyxis	
NGC 2904	09h 31m 03.7s	-30° 27' 53"	12.3	Galaxy	0.01x0.006	Antlia	
NGC 3084	09h 59m 55.3s	-27° 12' 54"	12.3	Galaxy	0.015x0.013	Antlia	
NGC 3082	09h 59m 41.2s	-30° 26' 39"	12.5	Galaxy	0.015x0.005	Antlia	
NGC 3113	10h 05m 15.1s	-28° 31' 57"	12.5	Galaxy	0.027x0.009	Antlia	
IC 2510	09h 48m 30.4s	-32° 55' 19"	12.5	Galaxy	0.010x0.005	Antlia	
IC 2514	09h 50m 47.6s	-32° 58' 07"	12.5	Galaxy	0.025x0.005	Antlia	
IC 2534	10h 02m 17.1s	-34° 11' 59"	12.5	Galaxy	0.008x0.005	Antlia	
IC 2552	10h 11m 33.8s	-34° 56' 01"	12.5	Galaxy	0.013x0.012	Antlia	
NGC 2888	09h 27m 07.0s	-28° 06' 53"	12.6	Galaxy	0.012x0.009	Pyxis	
NGC 2891	09h 27m 45.1s	-24° 51' 42"	12.6	Galaxy	0.012x0.011	Pyxis	
IC 2526	09h 57m 50.5s	-32° 20' 35"	12.6	Galaxy	0.017x0.005	Antlia	
IC 2507	09h 45m 20.7s	-31° 52' 26"	12.7	Galaxy	0.014x0.006	Antlia	
NGC 3120	10h 06m 10.3s	-34° 18' 32"	12.8	Galaxy	0.015x0.01	Antlia	
NGC 3173	10h 15m 24.8s	-27° 46' 60"	12.8	Galaxy	0.017x0.014	Antlia	
NGC 2772	09h 08m 30.0s	-23° 41' 34"	13.0	Galaxy	0.012x0.004	Pyxis	
NGC 3037	09h 52m 13.0s	-27° 05' 45"	13.0	Galaxy	0.010x0.009	Hydra	
NGC 3125	10h 07m 22.0s	-30° 01' 26"	13.0	Galaxy	0.009x0.005	Antlia	
IC 2523	09h 55m 56.6s	-33° 17' 49"	13.0	Galaxy	0.010x0.006	Antlia	
NGC 2821	09h 17m 35.2s	-26° 53' 34"	13.1	Galaxy	0.016x0.004	Pyxis	
IC 2532	10h 00m 52.6s	-34° 18' 55"	13.1	Galaxy	0.011x0.008	Antlia	
IC 2539	10h 05m 04.3s	-31° 27' 01"	13.1	Galaxy	0.015x0.004	Antlia	
IC 2548	10h 08m 42.3s	-35° 19' 06"	13.1	Galaxy	0.015x0.014	Antlia	
NGC 3157	10h 12m 31.0s	-31° 43' 56"	13.2	Galaxy	0.020x0.004	Antlia	
IC 2559	10h 15m 33.5s	-34° 08' 55"	13.4	Galaxy	0.014x0.005	Antlia	
IC 2536	10h 04m 17.5s	-34° 02' 16"	13.6	Galaxy	0.015x0.003	Antlia	
IC 2538	10h 04m 43.9s	-34° 53' 42"	13.7	Galaxy	0.012x0.006	Antlia	
IC 2556	10h 13m 25.3s	-34° 49' 04"	13.7	Galaxy	0.016x0.008	Antlia	
IC 2558	10h 15m 32.5s	-34° 25' 37"	13.7	Galaxy	0.01x0.005	Antlia	
NGC 2883	09h 26m 03.6s	-34° 10' 50"	14.4	Galaxy	0.018x0.006	Pyxis	
IC 2517	09h 53m 37.6s	-33° 49' 38"	14.4	Galaxy	0.005x0.004	Antlia	
IC 2546	10h 07m 52.9s	-33° 21' 01"	14.8	Galaxy	0.006x0.005	Antlia	
IC 2570	10h 22m 23.0s	-33° 42' 52"	14.9	Galaxy	0.006x0.004	Antlia	
IC 2563	10h 19m 40.7s	-32° 41' 14"	15.0	Galaxy	0.009x0.004	Antlia	

7.166 Main objects visible on chart 165

Table 172: Main objects visible on chart 165

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3621	11h 19m 08.4s	-32° 54' 35"	9.7	Galaxy	0.102x0.056	Hydra	
NGC 3585	11h 14m 10.2s	-26° 51' 11"	9.9	Galaxy	0.038x0.020	Hydra	
NGC 3223	10h 22m 23.3s	-34° 21' 29"	11.0	Galaxy	0.034x0.022	Antlia	
NGC 3224	10h 22m 29.5s	-34° 47' 14"	11.0	Galaxy	0.015x0.012	Antlia	
NGC 3511	11h 04m 16.6s	-23° 11' 01"	11.0	Galaxy	0.05x0.0175	Crater	

Table 172: Main objects visible on chart 165 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3175	10h 15m 31.8s	-28° 57' 40"	11.2	Galaxy	0.042x0.010	Antlia	
NGC 3717	11h 32m 25.6s	-30° 24' 28"	11.2	Galaxy	0.051x0.008	Hydra	
NGC 3347	10h 43m 36.1s	-36° 26' 53"	11.3	Galaxy	0.028x0.017	Antlia	
NGC 3313	10h 38m 16.9s	-25° 24' 46"	11.4	Galaxy	0.032x0.026	Hydra	
NGC 3358	10h 44m 22.6s	-36° 30' 20"	11.4	Galaxy	0.026x0.015	Antlia	
NGC 3137	10h 09m 56.5s	-29° 09' 09"	11.5	Galaxy	0.051x0.018	Antlia	
NGC 3258	10h 29m 42.1s	-35° 41' 51"	11.5	Galaxy	0.024x0.020	Antlia	
NGC 3268	10h 30m 49.1s	-35° 25' 06"	11.5	Galaxy	0.025x0.020	Antlia	
NGC 3513	11h 04m 38.7s	-23° 20' 29"	11.5	Galaxy	0.024x0.02	Crater	
NGC 3673	11h 26m 06.2s	-26° 50' 09"	11.5	Galaxy	0.030x0.02	Hydra	
NGC 3309	10h 37m 26.6s	-27° 36' 40"	11.6	Galaxy	0.015x0.013	Hydra	
NGC 3281	10h 32m 41.3s	-34° 56' 51"	11.7	Galaxy	0.026x0.013	Antlia	
NGC 3311	10h 37m 33.6s	-27° 37' 20"	11.7	Galaxy	0.019x0.017	Hydra	
NGC 3449	10h 53m 44.7s	-33° 01' 26"	11.7	Galaxy	0.027x0.008	Antlia	
IC 2560	10h 17m 07.0s	-33° 39' 13"	11.7	Galaxy	0.025x0.016	Antlia	
NGC 3108	10h 03m 17.2s	-31° 45' 48"	11.8	Galaxy	0.020x0.015	Antlia	
NGC 3271	10h 31m 15.4s	-35° 27' 10"	11.8	Galaxy	0.027x0.015	Antlia	
IC 2597	10h 38m 38.3s	-27° 10' 29"	11.8	Galaxy	0.0125x0.01	Hydra	
NGC 3308	10h 37m 13.2s	-27° 31' 51"	11.9	Galaxy	0.014x0.010	Hydra	
NGC 3312	10h 37m 53.2s	-27° 39' 34"	11.9	Galaxy	0.0275x0.01	Hydra	
NGC 3390	10h 48m 55.1s	-31° 37' 43"	11.9	Galaxy	0.029x0.005	Hydra	
NGC 3483	10h 59m 52.0s	-28° 34' 28"	12.0	Galaxy	0.015x0.01	Hydra	
IC 2627	11h 10m 46.6s	-23° 49' 28"	12.0	Galaxy	0.021x0.017	Crater	
NGC 3203	10h 20m 23.8s	-26° 47' 23"	12.1	Galaxy	0.023x0.005	Hydra	
NGC 3285	10h 34m 26.6s	-27° 32' 52"	12.1	Galaxy	0.022x0.012	Hydra	
IC 2537	10h 04m 41.1s	-27° 39' 33"	12.1	Galaxy	0.020x0.014	Antlia	
NGC 3241	10h 25m 06.2s	-32° 34' 30"	12.2	Galaxy	0.02x0.013	Antlia	
NGC 3269	10h 30m 45.9s	-35° 18' 60"	12.2	Galaxy	0.02x0.009	Antlia	
NGC 3336	10h 41m 07.9s	-27° 52' 17"	12.2	Galaxy	0.016x0.013	Hydra	
NGC 3393	10h 49m 15.3s	-25° 15' 26"	12.2	Galaxy	0.015x0.012	Hydra	
IC 2764	11h 27m 58.4s	-29° 04' 47"	12.2	Galaxy	0.014x0.012	Hydra	
NGC 3302	10h 36m 37.3s	-32° 27' 07"	12.3	Galaxy	0.013x0.01	Antlia	
NGC 3606	11h 17m 07.9s	-33° 55' 33"	12.3	Galaxy	0.012x0.011	Hydra	
IC 2587	10h 31m 48.6s	-34° 39' 20"	12.3	Galaxy	0.016x0.012	Antlia	
NGC 3267	10h 30m 37.3s	-35° 24' 55"	12.4	Galaxy	0.014x0.008	Antlia	
IC 2594	10h 36m 55.7s	-24° 24' 59"	12.4	Galaxy	0.011x0.011	Hydra	
NGC 3113	10h 05m 15.1s	-28° 31' 57"	12.5	Galaxy	0.027x0.009	Antlia	
NGC 3273	10h 31m 17.8s	-35° 42' 14"	12.5	Galaxy	0.013x0.005	Antlia	
NGC 3289	10h 34m 56.4s	-35° 24' 59"	12.5	Galaxy	0.018x0.005	Antlia	
IC 2534	10h 02m 17.1s	-34° 11' 59"	12.5	Galaxy	0.008x0.005	Antlia	
IC 2552	10h 11m 33.8s	-34° 56' 01"	12.5	Galaxy	0.013x0.012	Antlia	
IC 2580	10h 29m 07.3s	-31° 36' 37"	12.5	Galaxy	0.015x0.014	Antlia	
IC 2586	10h 31m 52.7s	-28° 48' 35"	12.5	Galaxy	0.007x0.004	Hydra	
NGC 3260	10h 29m 54.8s	-35° 41' 18"	12.6	Galaxy	0.01x0.0075	Antlia	
NGC 3208	10h 20m 31.8s	-25° 54' 19"	12.7	Galaxy	0.015x0.013	Hydra	
NGC 3305	10h 37m 02.7s	-27° 15' 21"	12.7	Galaxy	0.009x0.009	Hydra	

Table 172: Main objects visible on chart 165 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3316-1	10h 38m 28.1s	-27° 41' 17"	12.7	Galaxy	0.011x0.01	Hydra	3316-1
NGC 3597	11h 15m 35.3s	-23° 49' 32"	12.7	Galaxy	0.015x0.011	Crater	
IC 2584	10h 30m 40.3s	-35° 00' 15"	12.7	Galaxy	0.012x0.002	Antlia	
IC 2588	10h 32m 40.2s	-30° 28' 37"	12.7	Galaxy	0.011x0.01	Antlia	
NGC 3120	10h 06m 10.3s	-34° 18' 32"	12.8	Galaxy	0.015x0.01	Antlia	
NGC 3173	10h 15m 24.8s	-27° 46' 60"	12.8	Galaxy	0.017x0.014	Antlia	
NGC 3347A	10h 41m 09.8s	-36° 30' 24"	12.8	Galaxy	0.016x0.006	Antlia	3347A
NGC 3383	10h 48m 11.2s	-24° 31' 59"	12.8	Galaxy	0.011x0.009	Hydra	
NGC 3463	10h 56m 05.4s	-26° 14' 12"	12.8	Galaxy	0.012x0.005	Hydra	
NGC 3617	11h 18m 44.0s	-26° 13' 57"	12.8	Galaxy	0.015x0.010	Hydra	
NGC 3249	10h 27m 10.7s	-35° 03' 21"	12.9	Galaxy	0.013x0.010	Antlia	
IC 2582	10h 30m 01.1s	-30° 26' 07"	12.9	Galaxy	0.011x0.010	Antlia	
NGC 3125	10h 07m 22.0s	-30° 01' 26"	13.0	Galaxy	0.009x0.005	Antlia	
IC 2913	11h 32m 44.9s	-30° 30' 36"	13.0	Galaxy	0.006x0.006	Hydra	
IC 625	10h 43m 29.7s	-24° 01' 47"	13.0	Galaxy	0.019x0.004	Hydra	
NGC 3257	10h 29m 35.7s	-35° 45' 02"	13.1	Galaxy	0.008x0.007	Antlia	
NGC 3285B	10h 35m 27.5s	-27° 44' 48"	13.1	Galaxy	0.0125x0.01	Hydra	3285B
NGC 3314A	10h 38m 03.6s	-27° 46' 38"	13.1	Galaxy	0.012x0.004	Hydra	3314A
NGC 3335	10h 40m 25.8s	-24° 00' 58"	13.1	Galaxy	0.009x0.007	Hydra	
IC 2539	10h 05m 04.3s	-31° 27' 01"	13.1	Galaxy	0.015x0.004	Antlia	
IC 2548	10h 08m 42.3s	-35° 19' 06"	13.1	Galaxy	0.015x0.014	Antlia	
NGC 3157	10h 12m 31.0s	-31° 43' 56"	13.2	Galaxy	0.020x0.004	Antlia	
NGC 3258A	10h 29m 07.8s	-35° 32' 50"	13.2	Galaxy	0.009x0.004	Antlia	3258A
NGC 3258D	10h 32m 44.6s	-35° 30' 12"	13.2	Galaxy	0.013x0.007	Antlia	
NGC 3331	10h 41m 00.7s	-23° 54' 53"	13.2	Galaxy	0.01x0.0075	Hydra	
NGC 3333	10h 40m 39.1s	-36° 07' 49"	13.2	Galaxy	0.017x0.003	Antlia	
NGC 3354	10h 43m 52.3s	-36° 27' 27"	13.2	Galaxy	0.005x0.005	Antlia	
NGC 3281C	10h 33m 48.5s	-34° 58' 46"	13.3	Galaxy	0.011x0.002	Antlia	
NGC 3315	10h 38m 10.2s	-27° 17' 08"	13.3	Galaxy	0.009x0.008	Hydra	
NGC 3281A	10h 32m 47.3s	-35° 17' 30"	13.4	Galaxy	0.01x0.008	Antlia	3281A
IC 2559	10h 15m 33.5s	-34° 08' 55"	13.4	Galaxy	0.014x0.005	Antlia	
IC 2589	10h 33m 12.1s	-24° 07' 49"	13.4	Galaxy	0.007x0.005	Hydra	
NGC 3307	10h 37m 08.1s	-27° 37' 21"	13.5	Galaxy	0.007x0.002	Hydra	
NGC 3281B	10h 32m 41.0s	-35° 17' 54"	13.6	Galaxy	0.005x0.005	Antlia	3281B
NGC 3369	10h 47m 36.5s	-25° 20' 22"	13.6	Galaxy	0.011x0.006	Hydra	
IC 2536	10h 04m 17.5s	-34° 02' 16"	13.6	Galaxy	0.015x0.003	Antlia	
NGC 3258C	10h 32m 13.1s	-35° 18' 46"	13.7	Galaxy	0.009x0.006	Antlia	
IC 2538	10h 04m 43.9s	-34° 53' 42"	13.7	Galaxy	0.012x0.006	Antlia	
IC 2556	10h 13m 25.3s	-34° 49' 04"	13.7	Galaxy	0.016x0.008	Antlia	
IC 2558	10h 15m 32.5s	-34° 25' 37"	13.7	Galaxy	0.01x0.005	Antlia	
NGC 3285A	10h 33m 39.4s	-27° 36' 54"	13.8	Galaxy	0.01x0.006	Hydra	3285A
NGC 3281D	10h 35m 08.3s	-34° 29' 47"	14.0	Galaxy	0.016x0.003	Antlia	
IC 2576	10h 26m 48.1s	-32° 59' 44"	14.0	Galaxy	0.006x0.005	Antlia	
NGC 3347C	10h 41m 43.2s	-36° 22' 59"	14.1	Galaxy	0.011x0.009	Antlia	
NGC 3258B	10h 31m 13.9s	-35° 39' 23"	14.2	Galaxy	0.008x0.002	Antlia	3258B
IC 2578	10h 28m 11.7s	-33° 58' 14"	14.2	Galaxy	0.012x0.002	Antlia	

Table 172: Main objects visible on chart 165 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3314B	10h 38m 00.5s	-27° 45' 05"	14.3	Galaxy	0.003x0.002	Hydra	3314B
IC 2573	10h 24m 18.6s	-35° 32' 53"	14.5	Galaxy	0.012x0.003	Antlia	
NGC 3258E	10h 33m 13.9s	-35° 05' 28"	14.6	Galaxy	0.012x0.002	Antlia	
IC 2546	10h 07m 52.9s	-33° 21' 01"	14.8	Galaxy	0.006x0.005	Antlia	
IC 2570	10h 22m 23.0s	-33° 42' 52"	14.9	Galaxy	0.006x0.004	Antlia	
IC 2563	10h 19m 40.7s	-32° 41' 14"	15.0	Galaxy	0.009x0.004	Antlia	
IC 2575	10h 26m 13.2s	-32° 43' 41"	15.1	Galaxy	0.005x0.004	Antlia	
NGC 3316-2	10h 38m 28.9s	-27° 41' 37"	15.2	Galaxy	0.002x0.001	Hydra	3316-2

7.167 Main objects visible on chart 166

Table 173: Main objects visible on chart 166

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4590	12h 40m 25.5s	-26° 50' 27"	7.3	Globular cluster	0.091x0.091	Hydra	M68
NGC 3621	11h 19m 08.4s	-32° 54' 35"	9.7	Galaxy	0.102x0.056	Hydra	
NGC 3923	11h 51m 56.5s	-28° 54' 22"	9.8	Galaxy	0.049x0.032	Hydra	
NGC 4105	12h 07m 36.4s	-29° 51' 37"	10.7	Galaxy	0.023x0.017	Hydra	
NGC 3885	11h 47m 41.1s	-28° 01' 20"	10.9	Galaxy	0.02x0.008	Hydra	
NGC 3904	11h 50m 07.9s	-29° 22' 37"	10.9	Galaxy	0.022x0.016	Hydra	
NGC 3717	11h 32m 25.6s	-30° 24' 28"	11.2	Galaxy	0.051x0.008	Hydra	
NGC 3706	11h 30m 37.2s	-36° 29' 27"	11.4	Galaxy	0.025x0.015	Centaurus	
NGC 4106	12h 07m 41.3s	-29° 52' 07"	11.4	Galaxy	0.013x0.010	Hydra	
NGC 3673	11h 26m 06.2s	-26° 50' 09"	11.5	Galaxy	0.030x0.02	Hydra	
IC 3253	12h 24m 42.1s	-34° 43' 16"	11.6	Galaxy	0.022x0.009	Centaurus	
NGC 4304	12h 23m 09.6s	-33° 35' 04"	11.7	Galaxy	0.025x0.02	Hydra	
NGC 3955	11h 54m 52.3s	-23° 15' 53"	12.0	Galaxy	0.025x0.008	Crater	
NGC 4462	12h 30m 17.7s	-23° 15' 57"	12.0	Galaxy	0.025x0.009	Corvus	
NGC 3936	11h 53m 15.4s	-27° 00' 22"	12.1	Galaxy	0.032x0.005	Hydra	
NGC 4087	12h 06m 31.0s	-26° 37' 21"	12.1	Galaxy	0.017x0.014	Hydra	
IC 2764	11h 27m 58.4s	-29° 04' 47"	12.2	Galaxy	0.014x0.012	Hydra	
IC 2995	12h 06m 42.7s	-28° 02' 31"	12.2	Galaxy	0.025x0.006	Hydra	
IC 3010	12h 08m 53.2s	-30° 26' 23"	12.2	Galaxy	0.015x0.015	Hydra	
IC 3015	12h 09m 56.1s	-31° 37' 10"	12.2	Galaxy	0.024x0.005	Hydra	
IC 764	12h 11m 10.0s	-29° 50' 13"	12.2	Galaxy	0.04x0.011	Hydra	
NGC 3606	11h 17m 07.9s	-33° 55' 33"	12.3	Galaxy	0.012x0.011	Hydra	
IC 3152	12h 20m 32.3s	-26° 14' 40"	12.5	Galaxy	0.015x0.01	Hydra	
IC 760	12h 06m 49.2s	-29° 23' 35"	12.5	Galaxy	0.014x0.004	Hydra	
NGC 3617	11h 18m 44.0s	-26° 13' 57"	12.8	Galaxy	0.015x0.010	Hydra	
NGC 4574	12h 38m 41.7s	-35° 37' 01"	13.0	Galaxy	0.015x0.009	Centaurus	
IC 2913	11h 32m 44.9s	-30° 30' 36"	13.0	Galaxy	0.006x0.006	Hydra	
IC 3005	12h 08m 10.1s	-30° 07' 35"	13.0	Galaxy	0.019x0.003	Hydra	
IC 3289	12h 25m 54.1s	-26° 07' 48"	13.0	Galaxy	0.008x0.008	Hydra	
NGC 4456	12h 28m 49.3s	-30° 11' 50"	13.3	Galaxy	0.01x0.005	Hydra	
IC 2996	12h 06m 44.2s	-30° 04' 20"	13.5	Galaxy	0.013x0.003	Hydra	

7.168 Main objects visible on chart 167

Table 174: Main objects visible on chart 167

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4590	12h 40m 25.5s	-26° 50' 27"	7.3	Globular cluster	0.091x0.091	Hydra	M68
NGC 5236	13h 38m 01.3s	-29° 57' 31"	7.5	Galaxy	0.107x0.095	Hydra	M83
NGC 5102	13h 22m 58.7s	-36° 43' 32"	9.6	Galaxy	0.071x0.022	Centaurus	
NGC 5061	13h 19m 04.7s	-26° 55' 54"	10.4	Galaxy	0.029x0.025	Hydra	
NGC 5253	13h 40m 57.5s	-31° 43' 57"	10.4	Galaxy	0.041x0.015	Centaurus	
IC 4296	13h 37m 40.8s	-34° 03' 26"	10.6	Galaxy	0.023x0.023	Centaurus	
NGC 4936	13h 05m 16.3s	-30° 37' 22"	10.7	Galaxy	0.022x0.019	Centaurus	
NGC 5101	13h 22m 45.7s	-27° 31' 29"	10.7	Galaxy	0.045x0.038	Hydra	
NGC 5078	13h 20m 49.4s	-27° 30' 14"	11.0	Galaxy	0.033x0.015	Hydra	
NGC 5062-1	13h 19m 24.7s	-35° 33' 12"	11.2	Galaxy	0.019x0.005	Centaurus	5062-1
NGC 5161	13h 30m 15.1s	-33° 16' 01"	11.2	Galaxy	0.046x0.019	Centaurus	
IC 4329	13h 50m 07.1s	-30° 23' 06"	11.3	Galaxy	0.026x0.015	Centaurus	
IC 4214	13h 18m 43.1s	-32° 11' 45"	11.4	Galaxy	0.023x0.015	Centaurus	
NGC 5193	13h 32m 55.0s	-33° 19' 37"	11.6	Galaxy	0.012x0.012	Centaurus	
IC 5328	13h 53m 55.0s	-28° 34' 38"	11.6	Galaxy	0.015x0.01	Hydra	
NGC 5085	13h 21m 16.6s	-24° 32' 04"	11.7	Galaxy	0.029x0.025	Hydra	
NGC 5042	13h 16m 29.6s	-24° 04' 43"	11.8	Galaxy	0.035x0.018	Hydra	
NGC 5140	13h 27m 23.0s	-33° 57' 42"	11.8	Galaxy	0.017x0.014	Centaurus	
IC 5150	13h 28m 36.9s	-29° 39' 19"	11.8	Galaxy	0.010x0.008	Hydra	
NGC 5153	13h 28m 54.8s	-29° 42' 38"	11.8	Galaxy	0.016x0.011	Hydra	
NGC 5292	13h 48m 41.9s	-31° 01' 43"	11.8	Galaxy	0.015x0.013	Centaurus	
NGC 4947	13h 06m 20.4s	-35° 25' 59"	11.9	Galaxy	0.02x0.01	Centaurus	
NGC 4462	12h 30m 17.7s	-23° 15' 57"	12.0	Galaxy	0.025x0.009	Corvus	
NGC 5220	13h 36m 58.6s	-33° 32' 45"	12.0	Galaxy	0.02x0.005	Centaurus	
NGC 5264	13h 42m 37.9s	-30° 00' 09"	12.0	Galaxy	0.021x0.012	Hydra	
NGC 5124	13h 25m 50.7s	-30° 24' 05"	12.1	Galaxy	0.018x0.005	Centaurus	
NGC 5135	13h 26m 44.4s	-29° 55' 37"	12.1	Galaxy	0.021x0.015	Hydra	
NGC 5188	13h 32m 29.8s	-34° 53' 14"	12.1	Galaxy	0.025x0.009	Centaurus	
NGC 5302	13h 49m 51.7s	-30° 36' 03"	12.1	Galaxy	0.014x0.008	Centaurus	
NGC 4955	13h 07m 04.1s	-29° 51' 02"	12.2	Galaxy	0.015x0.010	Hydra	
NGC 4965	13h 08m 08.3s	-28° 19' 27"	12.2	Galaxy	0.02x0.016	Hydra	
NGC 4970	13h 08m 32.1s	-24° 06' 17"	12.2	Galaxy	0.015x0.008	Hydra	
IC 4310	13h 39m 57.3s	-25° 56' 11"	12.2	Galaxy	0.018x0.006	Hydra	
IC 5063	13h 19m 26.8s	-35° 26' 51"	12.3	Galaxy	0.019x0.015	Centaurus	
IC 3986	13h 02m 31.6s	-32° 23' 17"	12.3	Galaxy	0.013x0.01	Centaurus	
NGC 4993	13h 10m 46.1s	-23° 28' 46"	12.4	Galaxy	0.010x0.009	Hydra	
NGC 5114	13h 25m 02.5s	-32° 26' 14"	12.4	Galaxy	0.015x0.008	Centaurus	
IC 5152	13h 28m 52.0s	-29° 42' 43"	12.4	Galaxy	0.017x0.005	Hydra	
NGC 5182	13h 31m 42.0s	-28° 14' 34"	12.4	Galaxy	0.015x0.010	Hydra	
IC 4197	13h 09m 02.8s	-23° 53' 34"	12.4	Galaxy	0.011x0.007	Hydra	
IC 4831	12h 58m 35.1s	-27° 23' 20"	12.5	Galaxy	0.014x0.007	Hydra	
NGC 5304	13h 51m 03.4s	-30° 40' 03"	12.5	Galaxy	0.012x0.008	Centaurus	
IC 4293	13h 37m 02.3s	-25° 58' 25"	12.5	Galaxy	0.012x0.007	Hydra	
IC 3813	12h 51m 00.2s	-26° 01' 04"	12.6	Galaxy	0.010x0.007	Hydra	

Table 174: Main objects visible on chart 167 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4280	13h 33m 53.0s	-24° 17' 56"	12.6	Galaxy	0.009x0.007	Hydra	
IC 4299	13h 37m 49.6s	-34° 09' 26"	12.6	Galaxy	0.015x0.007	Centaurus	
IC 4180	13h 07m 55.0s	-24° 00' 47"	12.7	Galaxy	0.007x0.005	Hydra	
IC 874	13h 20m 00.1s	-27° 43' 21"	12.7	Galaxy	0.01x0.008	Hydra	
IC 4806	12h 57m 11.1s	-29° 35' 60"	12.8	Galaxy	0.01x0.008	Hydra	
NGC 4968	13h 08m 04.4s	-23° 46' 22"	12.8	Galaxy	0.015x0.007	Hydra	
NGC 5048	13h 17m 07.9s	-28° 30' 21"	12.8	Galaxy	0.012x0.006	Hydra	
NGC 5260	13h 41m 19.7s	-23° 56' 56"	12.8	Galaxy	0.013x0.011	Hydra	
IC 844	13h 04m 17.5s	-30° 37' 02"	12.8	Galaxy	0.013x0.003	Centaurus	
NGC 4903	13h 02m 21.9s	-31° 01' 54"	12.9	Galaxy	0.013x0.010	Centaurus	
NGC 4980	13h 10m 09.4s	-28° 44' 14"	12.9	Galaxy	0.013x0.005	Hydra	
NGC 5215B	13h 36m 11.5s	-33° 34' 32"	12.9	Galaxy	0.01x0.004	Centaurus	5215B
IC 3829	12h 52m 30.7s	-27° 52' 51"	12.9	Galaxy	0.015x0.009	Hydra	
NGC 4574	12h 38m 41.7s	-35° 37' 01"	13.0	Galaxy	0.015x0.009	Centaurus	
NGC 5193A	13h 32m 50.6s	-33° 19' 55"	13.0	Galaxy	0.007x0.002	Centaurus	5193A
IC 4219	13h 19m 30.2s	-31° 43' 32"	13.0	Galaxy	0.009x0.008	Centaurus	
IC 4329A	13h 50m 21.1s	-30° 23' 56"	13.0	Galaxy	0.011x0.003	Centaurus	IC 4329A
NGC 5126	13h 25m 53.9s	-30° 25' 37"	13.1	Galaxy	0.011x0.003	Centaurus	
NGC 5298	13h 49m 38.1s	-30° 31' 06"	13.1	Galaxy	0.011x0.005	Centaurus	
IC 4252	13h 28m 28.0s	-27° 25' 03"	13.1	Galaxy	0.010x0.005	Hydra	
NGC 5215A	13h 36m 08.4s	-33° 34' 22"	13.2	Galaxy	0.005x0.003	Centaurus	5215A
IC 4248	13h 27m 47.6s	-29° 58' 26"	13.2	Galaxy	0.009x0.006	Hydra	
IC 4255	13h 29m 00.1s	-27° 26' 48"	13.2	Galaxy	0.007x0.005	Hydra	
IC 4289	13h 35m 48.1s	-27° 13' 06"	13.2	Galaxy	0.008x0.006	Hydra	
IC 4298	13h 37m 35.0s	-26° 38' 44"	13.2	Galaxy	0.012x0.005	Hydra	
IC 4319	13h 44m 27.8s	-29° 53' 36"	13.2	Galaxy	0.012x0.004	Hydra	
IC 4320	13h 45m 04.5s	-27° 19' 18"	13.2	Galaxy	0.007x0.007	Hydra	
IC 879	13h 20m 39.9s	-27° 31' 24"	13.2	Galaxy	0.011x0.01	Hydra	
NGC 4456	12h 28m 49.3s	-30° 11' 50"	13.3	Galaxy	0.01x0.005	Hydra	
NGC 4905	13h 02m 29.8s	-30° 57' 51"	13.3	Galaxy	0.015x0.009	Centaurus	
NGC 5051	13h 17m 19.6s	-28° 22' 51"	13.3	Galaxy	0.011x0.005	Hydra	
IC 4231	13h 24m 12.8s	-26° 23' 38"	13.3	Galaxy	0.014x0.003	Hydra	
IC 4290	13h 36m 20.2s	-28° 06' 49"	13.3	Galaxy	0.013x0.010	Hydra	
IC 4326	13h 49m 23.1s	-29° 42' 56"	13.5	Galaxy	0.006x0.005	Hydra	
IC 4232	13h 24m 21.8s	-26° 12' 10"	13.6	Galaxy	0.009x0.003	Hydra	
IC 4275	13h 32m 51.9s	-29° 49' 28"	13.6	Galaxy	0.007x0.004	Hydra	
IC 4281	13h 33m 38.7s	-27° 15' 40"	13.6	Galaxy	0.011x0.007	Hydra	
IC 4288	13h 35m 30.7s	-27° 23' 46"	13.6	Galaxy	0.01x0.005	Hydra	
NGC 5330	13h 54m 00.8s	-28° 33' 31"	13.7	Galaxy	0.005x0.004	Hydra	
IC 4249	13h 28m 06.4s	-28° 02' 59"	13.7	Galaxy	0.011x0.003	Hydra	
IC 4261	13h 30m 47.9s	-28° 05' 56"	13.7	Galaxy	0.008x0.005	Hydra	
IC 4318	13h 44m 23.9s	-29° 03' 31"	13.7	Galaxy	0.009x0.008	Hydra	
IC 4247	13h 27m 45.0s	-30° 27' 18"	13.8	Galaxy	0.010x0.004	Centaurus	
IC 4325	13h 48m 41.0s	-29° 31' 25"	13.8	Galaxy	0.009x0.003	Hydra	
IC 4330	13h 48m 16.1s	-28° 25' 17"	13.8	Galaxy	0.01x0.005	Hydra	
NGC 5108	13h 24m 19.5s	-32° 26' 08"	13.9	Galaxy	0.01x0.0025	Centaurus	

Table 174: Main objects visible on chart 167 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4270	13h 31m 48.9s	-25° 25' 34"	13.9	Galaxy	0.006x0.006	Hydra	
IC 4327	13h 49m 45.7s	-30° 18' 26"	13.9	Galaxy	0.008x0.004	Centaurus	
IC 4328	13h 50m 04.5s	-30° 01' 34"	13.9	Galaxy	0.007x0.005	Hydra	
IC 4251	13h 28m 24.5s	-29° 32' 15"	14.0	Galaxy	0.006x0.005	Hydra	
IC 4253	13h 28m 32.3s	-27° 57' 56"	14.0	Galaxy	0.011x0.005	Hydra	
IC 4324	13h 46m 28.8s	-30° 19' 01"	14.0	Galaxy	0.006x0.004	Centaurus	
NGC 5291-1	13h 48m 26.1s	-30° 29' 40"	14.1	Galaxy	0.01x0.006	Centaurus	5291-1
IC 4245	13h 26m 58.8s	-26° 46' 14"	14.1	Galaxy	0.008x0.004	Hydra	
IC 4315	13h 41m 03.3s	-25° 33' 57"	14.1	Galaxy	0.013x0.002	Hydra	
IC 4243	13h 26m 51.2s	-27° 43' 11"	14.2	Galaxy	0.005x0.005	Hydra	
IC 4259	13h 30m 28.9s	-30° 13' 36"	14.2	Galaxy	0.008x0.004	Hydra	
IC 4321	13h 45m 32.6s	-30° 13' 47"	14.2	Galaxy	0.006x0.005	Centaurus	
IC 4292	13h 36m 47.2s	-27° 45' 59"	14.3	Galaxy	0.005x0.004	Hydra	
IC 4295	13h 37m 35.3s	-29° 10' 49"	14.3	Galaxy	0.008x0.003	Hydra	
IC 4267	13h 31m 36.0s	-26° 20' 55"	14.4	Galaxy	0.010x0.004	Hydra	
IC 4316	13h 41m 19.5s	-28° 58' 57"	14.4	Galaxy	0.008x0.005	Hydra	
NGC 4947A	13h 05m 20.8s	-35° 19' 28"	14.5	Galaxy	0.014x0.005	Centaurus	4947A
NGC 5062-2	13h 19m 20.3s	-35° 32' 23"	14.5	Galaxy	0.004x0.004	Centaurus	5062-2
IC 4264	13h 31m 17.8s	-28° 01' 16"	14.5	Galaxy	0.014x0.003	Hydra	
IC 4273	13h 32m 30.4s	-28° 59' 10"	14.5	Galaxy	0.006x0.005	Hydra	
IC 4276	13h 33m 06.5s	-28° 14' 55"	14.5	Galaxy	0.011x0.001	Hydra	
IC 4303	13h 38m 19.0s	-28° 44' 56"	14.5	Galaxy	0.008x0.004	Hydra	
NGC 5291-2	13h 48m 24.9s	-30° 30' 24"	14.7	Galaxy	0.006x0.003	Centaurus	5291-2
IC 4246	13h 27m 00.0s	-26° 46' 15"	14.7	Galaxy	0.005x0.003	Hydra	
IC 4265	13h 31m 22.7s	-25° 51' 29"	14.7	Galaxy	0.006x0.004	Hydra	
IC 4279	13h 33m 31.1s	-27° 13' 10"	14.7	Galaxy	0.007x0.003	Hydra	
IC 4309	13h 39m 51.1s	-29° 45' 14"	14.7	Galaxy	0.005x0.004	Hydra	
IC 4254	13h 28m 45.3s	-27° 18' 53"	14.8	Galaxy	0.005x0.004	Hydra	
IC 4260	13h 30m 40.7s	-28° 21' 31"	14.8	Galaxy	0.010x0.001	Hydra	
IC 4262	13h 31m 23.5s	-28° 21' 47"	14.8	Galaxy	0.01x0.0025	Hydra	
IC 4272	13h 32m 17.2s	-30° 02' 56"	14.8	Galaxy	0.008x0.001	Hydra	
IC 4294	13h 37m 31.9s	-28° 52' 22"	14.8	Galaxy	0.006x0.003	Hydra	
IC 4286	13h 34m 36.1s	-27° 43' 26"	15.1	Galaxy	0.003x0.003	Hydra	
IC 4323	13h 46m 07.8s	-28° 44' 29"	15.1	Galaxy	0.012x8.333	Hydra	

7.169 Main objects visible on chart 168

Table 175: Main objects visible on chart 168

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5834	15h 05m 05.2s	-33° 08' 12"	9.1	Globular cluster	0.061x0.061	Lupus	
NGC 5694	14h 40m 39.6s	-26° 36' 52"	10.2	Globular cluster	0.035x0.035	Hydra	CALDWELL 66
NGC 5253	13h 40m 57.5s	-31° 43' 57"	10.4	Galaxy	0.041x0.015	Centaurus	
IC 4296	13h 37m 40.8s	-34° 03' 26"	10.6	Galaxy	0.023x0.023	Centaurus	
NGC 5419	14h 04m 42.4s	-34° 03' 51"	10.8	Galaxy	0.034x0.027	Centaurus	

Table 175: Main objects visible on chart 168 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4329	13h 50m 07.1s	-30° 23' 06"	11.3	Galaxy	0.026x0.015	Centaurus	
IC 5328	13h 53m 55.0s	-28° 34' 38"	11.6	Galaxy	0.015x0.01	Hydra	
NGC 5397	14h 02m 14.1s	-34° 01' 55"	11.6	Galaxy	0.011x0.008	Centaurus	
NGC 5488	14h 09m 06.7s	-33° 23' 58"	11.7	Galaxy	0.028x0.008	Centaurus	
IC 4351	13h 58m 55.8s	-29° 24' 10"	11.7	Galaxy	0.049x0.007	Hydra	
IC 4451	14h 35m 43.4s	-36° 21' 51"	11.7	Galaxy	0.015x0.009	Centaurus	
NGC 5292	13h 48m 41.9s	-31° 01' 43"	11.8	Galaxy	0.015x0.013	Centaurus	
NGC 5494	14h 13m 26.9s	-30° 43' 43"	11.8	Galaxy	0.019x0.017	Centaurus	
NGC 5556	14h 21m 37.1s	-29° 19' 24"	11.8	Galaxy	0.034x0.027	Hydra	
IC 4430	14h 30m 24.3s	-33° 32' 04"	11.9	Galaxy	0.019x0.010	Centaurus	
NGC 5264	13h 42m 37.9s	-30° 00' 09"	12.0	Galaxy	0.021x0.012	Hydra	
NGC 5357	13h 57m 01.6s	-30° 25' 45"	12.0	Galaxy	0.013x0.011	Centaurus	
NGC 5302	13h 49m 51.7s	-30° 36' 03"	12.1	Galaxy	0.014x0.008	Centaurus	
NGC 5398	14h 02m 25.0s	-33° 08' 58"	12.2	Galaxy	0.023x0.014	Centaurus	
IC 4453	14h 35m 31.8s	-27° 35' 46"	12.2	Galaxy	0.018x0.008	Hydra	
IC 4352	13h 59m 28.7s	-34° 36' 16"	12.4	Galaxy	0.015x0.005	Centaurus	
IC 4374	14h 08m 31.7s	-27° 06' 11"	12.4	Galaxy	0.013x0.01	Hydra	
NGC 5304	13h 51m 03.4s	-30° 40' 03"	12.5	Galaxy	0.012x0.008	Centaurus	
NGC 5495	14h 13m 25.6s	-27° 11' 30"	12.6	Galaxy	0.0125x0.01	Hydra	
IC 4299	13h 37m 49.6s	-34° 09' 26"	12.6	Galaxy	0.015x0.007	Centaurus	
IC 4350	13h 58m 14.8s	-25° 19' 59"	12.6	Galaxy	0.013x0.007	Hydra	
IC 4366	14h 06m 15.0s	-33° 50' 47"	12.6	Galaxy	0.013x0.010	Centaurus	
NGC 5592	14h 24m 58.0s	-28° 46' 09"	12.8	Galaxy	0.012x0.006	Hydra	
NGC 5626	14h 30m 52.8s	-29° 49' 44"	12.9	Galaxy	0.01x0.008	Hydra	
NGC 5393	14h 01m 34.0s	-28° 57' 42"	13.0	Galaxy	0.007x0.005	Hydra	
NGC 5464	14h 08m 06.8s	-30° 06' 08"	13.0	Galaxy	0.010x0.006	Hydra	
IC 4329A	13h 50m 21.1s	-30° 23' 56"	13.0	Galaxy	0.011x0.003	Centaurus	IC 4329A
NGC 5298	13h 49m 38.1s	-30° 31' 06"	13.1	Galaxy	0.011x0.005	Centaurus	
IC 4319	13h 44m 27.8s	-29° 53' 36"	13.2	Galaxy	0.012x0.004	Hydra	
IC 4320	13h 45m 04.5s	-27° 19' 18"	13.2	Galaxy	0.007x0.007	Hydra	
IC 4326	13h 49m 23.1s	-29° 42' 56"	13.5	Galaxy	0.006x0.005	Hydra	
IC 4378	14h 13m 13.8s	-34° 20' 56"	13.5	Galaxy	0.006x0.004	Centaurus	
IC 4388	14h 17m 07.2s	-31° 50' 11"	13.6	Galaxy	0.009x0.008	Centaurus	
IC 4393	14h 18m 52.9s	-31° 25' 51"	13.6	Galaxy	0.02x0.0025	Centaurus	
NGC 5330	13h 54m 00.8s	-28° 33' 31"	13.7	Galaxy	0.005x0.004	Hydra	
IC 4318	13h 44m 23.9s	-29° 03' 31"	13.7	Galaxy	0.009x0.008	Hydra	
IC 4391	14h 17m 30.7s	-31° 46' 04"	13.7	Galaxy	0.007x0.005	Centaurus	
IC 4325	13h 48m 41.0s	-29° 31' 25"	13.8	Galaxy	0.009x0.003	Hydra	
IC 4330	13h 48m 16.1s	-28° 25' 17"	13.8	Galaxy	0.01x0.005	Hydra	
IC 4327	13h 49m 45.7s	-30° 18' 26"	13.9	Galaxy	0.008x0.004	Centaurus	
IC 4328	13h 50m 04.5s	-30° 01' 34"	13.9	Galaxy	0.007x0.005	Hydra	
IC 4324	13h 46m 28.8s	-30° 19' 01"	14.0	Galaxy	0.006x0.004	Centaurus	
NGC 5291-1	13h 48m 26.1s	-30° 29' 40"	14.1	Galaxy	0.01x0.006	Centaurus	5291-1
IC 4321	13h 45m 32.6s	-30° 13' 47"	14.2	Galaxy	0.006x0.005	Centaurus	
IC 4316	13h 41m 19.5s	-28° 58' 57"	14.4	Galaxy	0.008x0.005	Hydra	
NGC 5291-2	13h 48m 24.9s	-30° 30' 24"	14.7	Galaxy	0.006x0.003	Centaurus	5291-2

Table 175: Main objects visible on chart 168 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4309	13h 39m 51.1s	-29° 45' 14"	14.7	Galaxy	0.005x0.004	Hydra	
IC 4379	14h 13m 14.4s	-34° 21' 18"	14.7	Galaxy	0.01x0.001	Centaurus	
IC 4323	13h 46m 07.8s	-28° 44' 29"	15.1	Galaxy	0.012x8.333	Hydra	

7.170 Main objects visible on chart 169

Table 176: Main objects visible on chart 169

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6093	16h 18m 07.1s	-23° 01' 04"	7.3	Globular cluster	0.083x0.083	Scorpius	M80
NGC 5834	15h 05m 05.2s	-33° 08' 12"	9.1	Globular cluster	0.061x0.061	Lupus	
NGC 5903	15h 19m 40.1s	-24° 07' 59"	11.2	Galaxy	0.022x0.017	Libra	
NGC 5898	15h 19m 17.2s	-24° 09' 44"	11.4	Galaxy	0.022x0.021	Libra	
NGC 6072	16h 14m 09.3s	-36° 16' 28"	11.7	Planetary Nebula	0.013x0.013	Scorpius	
NGC 6000	15h 50m 56.2s	-29° 26' 26"	11.9	Galaxy	0.015x0.013	Scorpius	
IC 4538	15h 22m 15.1s	-23° 43' 20"	12.1	Galaxy	0.021x0.016	Libra	
NGC 5843	15h 08m 36.1s	-36° 23' 48"	12.2	Galaxy	0.015x0.009	Lupus	
NGC 5968	15h 41m 04.0s	-30° 36' 37"	12.2	Galaxy	0.017x0.015	Lupus	
NGC 6026	16h 02m 30.8s	-34° 35' 35"	12.9	Planetary Nebula	0.005x0.005	Lupus	
IC 4597	16h 18m 49.9s	-34° 24' 33"	13.7	Galaxy	0.01x0.008	Scorpius	
IC 4598	16h 19m 21.9s	-31° 29' 03"	13.8	Galaxy	0.012x0.003	Scorpius	
IC 4600	16h 17m 09.8s	-22° 49' 36"	15.5	Galaxy	0.003x0.003	Scorpius	

7.171 Main objects visible on chart 170

Table 177: Main objects visible on chart 170

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6121	16h 24m 41.8s	-26° 33' 56"	5.4	Globular cluster	0.3x0.3	Scorpius	M4
NGC 6266	17h 02m 21.5s	-30° 08' 13"	6.4	Globular cluster	0.125x0.125	Ophiuchus	M62
NGC 6273	17h 03m 44.6s	-26° 17' 32"	6.8	Globular cluster	0.141x0.141	Ophiuchus	M19
NGC 6093	16h 18m 07.1s	-23° 01' 04"	7.3	Globular cluster	0.083x0.083	Scorpius	M80
NGC 6316	17h 17m 45.4s	-28° 09' 29"	8.1	Globular cluster	0.045x0.045	Ophiuchus	
NGC 6293	17h 11m 17.5s	-26° 36' 09"	8.3	Globular cluster	0.068x0.068	Ophiuchus	
NGC 6304	17h 15m 41.2s	-29° 28' 52"	8.3	Globular cluster	0.066x0.066	Ophiuchus	
NGC 6355	17h 25m 05.7s	-26° 22' 07"	8.6	Globular cluster	0.035x0.035	Ophiuchus	
NGC 6284	17h 05m 34.9s	-24° 47' 17"	8.9	Globular cluster	0.051x0.051	Ophiuchus	
NGC 6144	16h 28m 20.3s	-26° 03' 48"	9.0	Globular cluster	0.061x0.061	Scorpius	
Tr26	17h 29m 44.8s	-29° 30' 48"	9.2	Open cluster	0.083x0.083	Ophiuchus	
NGC 6325	17h 19m 05.0s	-23° 46' 60"	10.2	Globular cluster	0.034x0.034	Ophiuchus	
NGC 6072	16h 14m 09.3s	-36° 16' 28"	11.7	Planetary Nebula	0.013x0.013	Scorpius	
NGC 6026	16h 02m 30.8s	-34° 35' 35"	12.9	Planetary Nebula	0.005x0.005	Lupus	
IC 4597	16h 18m 49.9s	-34° 24' 33"	13.7	Galaxy	0.01x0.008	Scorpius	

Table 177: Main objects visible on chart 170 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4598	16h 19m 21.9s	-31° 29' 03"	13.8	Galaxy	0.012x0.003	Scorpius	

7.172 Main objects visible on chart 171

Table 178: Main objects visible on chart 171

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6475	17h 55m 02.1s	-34° 47' 45"	3.3	Open cluster	0.625x0.625	Scorpius	M7, Ptolemy's cluster
NGC 6405	17h 41m 30.5s	-32° 16' 00"	4.2	Open cluster	0.275x0.275	Scorpius	M6
NGC 6530	18h 05m 36.2s	-24° 21' 22"	4.6	Open cluster	0.125x0.125	Sagittarius	
NGC 6656	18h 37m 30.1s	-23° 53' 12"	5.2	Globular cluster	0.266x0.266	Sagittarius	M22
NGC 6383	17h 35m 52.8s	-32° 35' 33"	5.5	Open cluster	0.166x0.166	Scorpius	
NGC 6416	17h 45m 30.5s	-32° 22' 04"	5.7	Open cluster	0.125x0.125	Scorpius	
Cr367	18h 11m 06.0s	-23° 59' 43"	6.5	Open cluster	0.416x0.25	Sagittarius	
NGC 6626	18h 25m 39.3s	-24° 51' 31"	6.9	Globular cluster	0.115x0.115	Sagittarius	M28
NGC 6425	17h 48m 10.1s	-31° 32' 08"	7.2	Open cluster	0.083x0.083	Scorpius	
NGC 6401	17h 39m 42.9s	-23° 55' 03"	7.4	Globular cluster	0.04x0.04	Ophiuchus	
NGC 6544	18h 08m 27.2s	-24° 59' 37"	7.5	Globular cluster	0.076x0.076	Sagittarius	
NGC 6520	18h 04m 33.1s	-27° 53' 22"	7.6	Open cluster	0.041x0.041	Sagittarius	
NGC 6624	18h 24m 49.9s	-30° 20' 60"	7.6	Globular cluster	0.073x0.073	Sagittarius	
NGC 6681	18h 44m 23.0s	-32° 16' 20"	7.8	Globular cluster	0.066x0.066	Sagittarius	M70
NGC 6546	18h 08m 27.7s	-23° 17' 36"	8.0	Open cluster	0.125x0.125	Sagittarius	
NGC 6316	17h 17m 45.4s	-28° 09' 29"	8.1	Globular cluster	0.045x0.045	Ophiuchus	
NGC 6451	17h 51m 49.8s	-30° 12' 56"	8.2	Open cluster	0.066x0.066	Scorpius	
NGC 6304	17h 15m 41.2s	-29° 28' 52"	8.3	Globular cluster	0.066x0.066	Ophiuchus	
NGC 6553	18h 10m 22.6s	-25° 54' 11"	8.3	Globular cluster	0.076x0.076	Sagittarius	
NGC 6637	18h 32m 33.6s	-32° 20' 01"	8.3	Globular cluster	0.059x0.059	Sagittarius	M69
NGC 6569	18h 14m 49.2s	-31° 49' 11"	8.4	Globular cluster	0.053x0.053	Sagittarius	
NGC 6396	17h 38m 48.3s	-35° 02' 07"	8.5	Open cluster	0.025x0.025	Scorpius	
NGC 6652	18h 36m 56.5s	-32° 58' 26"	8.5	Globular cluster	0.05x0.05	Sagittarius	
NGC 6355	17h 25m 05.7s	-26° 22' 07"	8.6	Globular cluster	0.035x0.035	Ophiuchus	
NGC 6558	18h 11m 28.6s	-31° 45' 30"	8.6	Globular cluster	0.035x0.035	Sagittarius	
NGC 6642	18h 32m 60.0s	-23° 27' 42"	8.9	Globular cluster	0.048x0.048	Sagittarius	
NGC 6638	18h 32m 02.9s	-25° 28' 56"	9.2	Globular cluster	0.060x0.060	Sagittarius	
Tr26	17h 29m 44.8s	-29° 30' 48"	9.2	Open cluster	0.083x0.083	Ophiuchus	
NGC 6540	18h 07m 16.6s	-27° 45' 42"	9.3	Globular cluster	0.012x0.012	Sagittarius	
NGC 6528	18h 05m 58.9s	-30° 03' 10"	9.6	Globular cluster	0.041x0.041	Sagittarius	
NGC 6522	18h 04m 43.4s	-30° 01' 53"	9.9	Globular cluster	0.078x0.078	Sagittarius	
NGC 6325	17h 19m 05.0s	-23° 46' 60"	10.2	Globular cluster	0.034x0.034	Ophiuchus	
NGC 6453	17h 52m 03.7s	-34° 36' 06"	10.2	Globular cluster	0.063x0.063	Scorpius	
NGC 6404	17h 40m 48.4s	-33° 15' 19"	10.6	Open cluster	0.05x0.05	Scorpius	
NGC 6644	18h 33m 41.2s	-25° 06' 50"	10.7	Planetary Nebula	0.001x0.001	Sagittarius	
NGC 6563	18h 13m 14.1s	-33° 51' 44"	11.0	Planetary Nebula	0.006x0.006	Sagittarius	
NGC 6629	18h 26m 48.0s	-23° 11' 27"	11.3	Planetary Nebula	0.002x0.002	Sagittarius	
NGC 6369	17h 30m 26.3s	-23° 46' 20"	11.4	Planetary Nebula	0.005x0.005	Ophiuchus	

Table 178: Main objects visible on chart 171 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6565	18h 13m 00.7s	-28° 10' 21"	11.6	Planetary Nebula	0.001x0.001	Sagittarius	
NGC 6620	18h 24m 01.6s	-26° 48' 39"	12.7	Planetary Nebula	0.001x0.001	Sagittarius	
IC 4673	18h 04m 26.1s	-27° 06' 16"	13.0	Planetary Nebula	0.002x0.002	Sagittarius	
NGC 6523	18h 04m 48.3s	-24° 22' 41"	-	Nebula	0.375x0.25	Sagittarius	M8, Lagoon nebula

7.173 Main objects visible on chart 172

Table 179: Main objects visible on chart 172

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6656	18h 37m 30.1s	-23° 53' 12"	5.2	Globular cluster	0.266x0.266	Sagittarius	M22
NGC 6809	19h 41m 07.8s	-30° 55' 09"	6.3	Globular cluster	0.158x0.158	Sagittarius	M55
NGC 6723	19h 00m 45.8s	-36° 36' 18"	6.8	Globular cluster	0.108x0.108	Sagittarius	
NGC 6715	18h 56m 12.4s	-30° 27' 13"	7.7	Globular cluster	0.1x0.1	Sagittarius	M54
NGC 6681	18h 44m 23.0s	-32° 16' 20"	7.8	Globular cluster	0.066x0.066	Sagittarius	M70
NGC 6637	18h 32m 33.6s	-32° 20' 01"	8.3	Globular cluster	0.059x0.059	Sagittarius	M69
NGC 6652	18h 36m 56.5s	-32° 58' 26"	8.5	Globular cluster	0.05x0.05	Sagittarius	
NGC 6642	18h 32m 60.0s	-23° 27' 42"	8.9	Globular cluster	0.048x0.048	Sagittarius	
NGC 6638	18h 32m 02.9s	-25° 28' 56"	9.2	Globular cluster	0.060x0.060	Sagittarius	
NGC 6644	18h 33m 41.2s	-25° 06' 50"	10.7	Planetary Nebula	0.001x0.001	Sagittarius	
IC 4776	18h 47m 01.5s	-33° 19' 19"	10.8	Planetary Nebula	0.002x0.002	Sagittarius	
NGC 6816	19h 45m 09.4s	-28° 21' 24"	12.9	Galaxy	0.01x0.006	Sagittarius	
NGC 6729	19h 03m 08.1s	-36° 55' 51"	-	Nebula	0.208x0.166	Corona Australis	CALDWELL 68

7.174 Main objects visible on chart 173

Table 180: Main objects visible on chart 173

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6809	19h 41m 07.8s	-30° 55' 09"	6.3	Globular cluster	0.158x0.158	Sagittarius	M55
NGC 6907	20h 26m 10.9s	-24° 44' 59"	11.2	Galaxy	0.028x0.021	Capricornus	
NGC 6925	20h 35m 27.5s	-31° 55' 02"	11.3	Galaxy	0.036x0.009	Microscopium	
IC 5011	20h 29m 43.1s	-35° 57' 59"	11.7	Galaxy	0.02x0.010	Microscopium	
NGC 6923	20h 32m 45.6s	-30° 46' 13"	12.0	Galaxy	0.021x0.010	Microscopium	
IC 5020	20h 31m 46.3s	-33° 25' 27"	12.3	Galaxy	0.024x0.016	Microscopium	
IC 4999	20h 25m 01.1s	-25° 57' 20"	12.5	Galaxy	0.015x0.009	Capricornus	
IC 5030	20h 44m 40.0s	-29° 38' 14"	12.5	Galaxy	0.014x0.01	Microscopium	
IC 5047	20h 44m 40.0s	-29° 38' 14"	12.5	Galaxy	0.014x0.01	Microscopium	
NGC 6841	19h 58m 57.4s	-31° 45' 41"	12.7	Galaxy	0.012x0.011	Sagittarius	
NGC 6936	20h 37m 00.5s	-25° 13' 00"	12.7	Galaxy	0.015x0.008	Capricornus	
IC 5005	20h 26m 24.7s	-25° 46' 10"	12.7	Galaxy	0.015x0.013	Capricornus	
IC 5029	20h 44m 19.8s	-29° 47' 11"	12.7	Galaxy	0.017x0.005	Microscopium	
IC 5046	20h 44m 19.8s	-29° 47' 11"	12.7	Galaxy	0.017x0.005	Microscopium	

Table 180: Main objects visible on chart 173 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6924	20h 34m 23.4s	-25° 24' 44"	12.8	Galaxy	0.016x0.014	Capricornus	
NGC 6816	19h 45m 09.4s	-28° 21' 24"	12.9	Galaxy	0.01x0.006	Sagittarius	
NGC 6993	20h 54m 57.6s	-25° 24' 11"	13.1	Galaxy	0.01x0.008	Capricornus	
NGC 6947	20h 42m 22.0s	-32° 25' 17"	13.5	Galaxy	0.013x0.008	Microscopium	
IC 5065	20h 52m 51.2s	-29° 46' 44"	13.7	Galaxy	0.009x0.007	Microscopium	
NGC 6999	21h 03m 03.9s	-27° 59' 14"	13.8	Galaxy	0.007x0.005	Microscopium	
NGC 6998	21h 02m 42.0s	-27° 57' 36"	14.0	Galaxy	0.005x0.005	Microscopium	
IC 5013	20h 29m 44.2s	-35° 58' 54"	14.0	Galaxy	0.005x0.005	Microscopium	
NGC 6908	20h 26m 13.3s	-24° 44' 36"	14.6	Galaxy	0.002x8.333	Capricornus	

7.175 Main objects visible on chart 174

Table 181: Main objects visible on chart 174

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7099	21h 41m 23.2s	-23° 05' 47"	6.9	Globular cluster	0.1x0.1	Capricornus	M30
NGC 7176	22h 03m 10.9s	-31° 54' 11"	11.4	Galaxy	0.006x0.006	Piscis Austrinus	
NGC 7135	21h 50m 50.3s	-34° 47' 29"	11.7	Galaxy	0.017x0.015	Piscis Austrinus	
NGC 7172	22h 03m 04.4s	-31° 46' 58"	11.9	Galaxy	0.02x0.010	Piscis Austrinus	
NGC 7173	22h 03m 05.8s	-31° 53' 09"	12.0	Galaxy	0.01x0.0075	Piscis Austrinus	
IC 5157	22h 04m 30.5s	-34° 51' 13"	12.0	Galaxy	0.010x0.010	Piscis Austrinus	
NGC 7130	21h 49m 23.7s	-34° 52' 07"	12.1	Galaxy	0.013x0.012	Piscis Austrinus	
NGC 7221	22h 12m 16.9s	-30° 28' 27"	12.1	Galaxy	0.016x0.013	Piscis Austrinus	
IC 5156	22h 04m 17.7s	-33° 44' 58"	12.2	Galaxy	0.018x0.006	Piscis Austrinus	
NGC 7225	22h 14m 08.4s	-26° 03' 31"	12.3	Galaxy	0.016x0.008	Piscis Austrinus	
IC 5131	21h 48m 29.8s	-34° 48' 01"	12.3	Galaxy	0.008x0.008	Piscis Austrinus	
IC 5139	21h 51m 28.7s	-30° 54' 37"	12.3	Galaxy	0.017x0.008	Piscis Austrinus	
NGC 7154	21h 56m 25.1s	-34° 43' 41"	12.4	Galaxy	0.018x0.015	Piscis Austrinus	
NGC 7167	22h 01m 31.6s	-24° 32' 46"	12.5	Galaxy	0.014x0.010	Aquarius	
NGC 7187	22h 03m 47.3s	-32° 42' 57"	12.5	Galaxy	0.010x0.01	Piscis Austrinus	
NGC 7229	22h 15m 04.7s	-29° 17' 37"	12.5	Galaxy	0.015x0.012	Piscis Austrinus	
NGC 7091	21h 35m 13.6s	-36° 34' 23"	12.6	Galaxy	0.017x0.014	Grus	
NGC 7203	22h 07m 46.0s	-31° 04' 30"	12.7	Galaxy	0.013x0.007	Piscis Austrinus	
NGC 7214	22h 10m 08.8s	-27° 43' 15"	12.7	Galaxy	0.018x0.011	Piscis Austrinus	
NGC 7201	22h 07m 34.3s	-31° 10' 32"	12.9	Galaxy	0.013x0.004	Piscis Austrinus	
IC 5086	21h 09m 36.7s	-29° 41' 43"	12.9	Galaxy	0.010x0.010	Microscopium	
IC 5169	22h 11m 13.4s	-35° 59' 59"	12.9	Galaxy	0.015x0.004	Piscis Austrinus	
NGC 6993	20h 54m 57.6s	-25° 24' 11"	13.1	Galaxy	0.01x0.008	Capricornus	
NGC 7208	22h 09m 26.3s	-28° 57' 46"	13.1	Galaxy	0.007x0.005	Piscis Austrinus	
NGC 7110	21h 43m 16.5s	-34° 04' 48"	13.2	Galaxy	0.010x0.005	Piscis Austrinus	
NGC 7153	21h 55m 37.6s	-28° 58' 41"	13.2	Galaxy	0.015x0.002	Piscis Austrinus	
NGC 7109	21h 43m 03.2s	-34° 21' 48"	13.3	Galaxy	0.005x0.005	Piscis Austrinus	
NGC 7163	22h 00m 23.1s	-31° 47' 49"	13.3	Galaxy	0.015x0.009	Piscis Austrinus	
NGC 7174	22h 03m 08.6s	-31° 54' 19"	13.3	Galaxy	0.019x0.01	Piscis Austrinus	
NGC 7018	21h 08m 28.5s	-25° 21' 21"	13.4	Galaxy	0.010x0.006	Capricornus	

Table 181: Main objects visible on chart 174 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7115	21h 44m 40.9s	-25° 16' 05"	13.4	Galaxy	0.014x0.003	Piscis Austrinus	
NGC 7152	21h 55m 01.4s	-29° 12' 13"	13.6	Galaxy	0.01x0.005	Piscis Austrinus	
NGC 7204A	22h 07m 55.3s	-30° 57' 42"	13.6	Galaxy	0.013x0.006	Piscis Austrinus	7204A
IC 5149	22h 00m 00.5s	-27° 19' 40"	13.6	Galaxy	0.01x0.004	Piscis Austrinus	
NGC 7016	21h 08m 19.4s	-25° 23' 43"	13.7	Galaxy	0.006x0.006	Capricornus	
IC 5065	20h 52m 51.2s	-29° 46' 44"	13.7	Galaxy	0.009x0.007	Microscopium	
NGC 6999	21h 03m 03.9s	-27° 59' 14"	13.8	Galaxy	0.007x0.005	Microscopium	
NGC 7017	21h 08m 23.7s	-25° 24' 51"	13.8	Galaxy	0.005x0.004	Capricornus	
NGC 6998	21h 02m 42.0s	-27° 57' 36"	14.0	Galaxy	0.005x0.005	Microscopium	
NGC 7157	21h 57m 57.8s	-25° 15' 53"	14.0	Galaxy	0.009x0.004	Piscis Austrinus	
NGC 7178	22h 03m 28.9s	-35° 42' 12"	14.1	Galaxy	0.009x0.004	Piscis Austrinus	
NGC 7019	21h 07m 28.6s	-24° 20' 23"	14.2	Galaxy	0.005x0.002	Capricornus	
NGC 7035A	21h 11m 47.7s	-23° 03' 40"	14.2	Galaxy	0.008x0.005	Capricornus	7035A
NGC 7204B	22h 07m 57.2s	-30° 57' 55"	14.2	Galaxy	0.009x0.005	Piscis Austrinus	7204B
NGC 7035B	21h 11m 49.5s	-23° 03' 47"	14.6	Galaxy	0.005x0.003	Capricornus	7035B
IC 5168	22h 09m 46.7s	-27° 46' 05"	14.8	Galaxy	0.010x0.002	Piscis Austrinus	

7.176 Main objects visible on chart 175

Table 182: Main objects visible on chart 175

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1459	22h 58m 10.5s	-36° 21' 57"	10.0	Galaxy	0.043x0.015	Grus	
NGC 7507	23h 13m 05.5s	-28° 26' 26"	10.4	Galaxy	0.023x0.022	Sculptor	
IC 5332	23h 35m 24.7s	-36° 00' 06"	10.5	Galaxy	0.074x0.068	Sculptor	
NGC 7513	23h 14m 11.7s	-28° 15' 36"	10.6	Galaxy	0.026x0.017	Sculptor	
IC 5271	22h 59m 01.2s	-33° 38' 44"	10.8	Galaxy	0.021x0.007	Piscis Austrinus	
NGC 7314	22h 36m 45.4s	-25° 57' 24"	11.0	Galaxy	0.038x0.016	Piscis Austrinus	
NGC 7176	22h 03m 10.9s	-31° 54' 11"	11.4	Galaxy	0.006x0.006	Piscis Austrinus	
NGC 7252	22h 21m 44.8s	-24° 35' 14"	11.4	Galaxy	0.017x0.014	Aquarius	Atoms for peace galaxy
NGC 7484	23h 08m 04.2s	-36° 10' 31"	11.8	Galaxy	0.015x0.014	Sculptor	
NGC 7172	22h 03m 04.4s	-31° 46' 58"	11.9	Galaxy	0.02x0.010	Piscis Austrinus	
NGC 7285	22h 29m 37.4s	-24° 44' 53"	11.9	Galaxy	0.017x0.012	Aquarius	
NGC 7173	22h 03m 05.8s	-31° 53' 09"	12.0	Galaxy	0.01x0.0075	Piscis Austrinus	
IC 5157	22h 04m 30.5s	-34° 51' 13"	12.0	Galaxy	0.010x0.010	Piscis Austrinus	
NGC 7221	22h 12m 16.9s	-30° 28' 27"	12.1	Galaxy	0.016x0.013	Piscis Austrinus	
NGC 7284	22h 29m 35.5s	-24° 45' 07"	12.1	Galaxy	0.019x0.013	Aquarius	
NGC 7267	22h 25m 23.3s	-33° 36' 06"	12.2	Galaxy	0.013x0.011	Piscis Austrinus	
IC 5156	22h 04m 17.7s	-33° 44' 58"	12.2	Galaxy	0.018x0.006	Piscis Austrinus	
IC 5269	22h 58m 43.4s	-35° 55' 48"	12.2	Galaxy	0.014x0.006	Piscis Austrinus	
IC 5270	22h 58m 55.0s	-35° 45' 40"	12.2	Galaxy	0.026x0.005	Piscis Austrinus	
NGC 7225	22h 14m 08.4s	-26° 03' 31"	12.3	Galaxy	0.016x0.008	Piscis Austrinus	
NGC 7361	22h 43m 17.8s	-29° 57' 47"	12.3	Galaxy	0.032x0.008	Piscis Austrinus	
IC 5269B	22h 57m 36.6s	-36° 09' 13"	12.4	Galaxy	0.033x0.005	Piscis Austrinus	IC 5269B
NGC 7187	22h 03m 47.3s	-32° 42' 57"	12.5	Galaxy	0.010x0.01	Piscis Austrinus	

Table 182: Main objects visible on chart 175 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7229	22h 15m 04.7s	-29° 17' 37"	12.5	Galaxy	0.015x0.012	Piscis Austrinus	
NGC 7294	22h 33m 07.4s	-25° 18' 18"	12.5	Galaxy	0.016x0.01	Piscis Austrinus	
NGC 7359	22h 45m 46.6s	-23° 35' 35"	12.5	Galaxy	0.02x0.005	Aquarius	
IC 5264	22h 57m 52.9s	-36° 27' 29"	12.5	Galaxy	0.02x0.004	Grus	
NGC 7247	22h 18m 41.0s	-23° 38' 24"	12.6	Galaxy	0.011x0.006	Aquarius	
IC 5226	22h 33m 29.6s	-25° 34' 09"	12.6	Galaxy	0.021x0.02	Piscis Austrinus	
NGC 7203	22h 07m 46.0s	-31° 04' 30"	12.7	Galaxy	0.013x0.007	Piscis Austrinus	
NGC 7214	22h 10m 08.8s	-27° 43' 15"	12.7	Galaxy	0.018x0.011	Piscis Austrinus	
NGC 7201	22h 07m 34.3s	-31° 10' 32"	12.9	Galaxy	0.013x0.004	Piscis Austrinus	
NGC 7306	22h 34m 16.3s	-27° 09' 09"	12.9	Galaxy	0.014x0.005	Piscis Austrinus	
NGC 7645	23h 24m 44.9s	-29° 17' 21"	12.9	Galaxy	0.0125x0.01	Sculptor	
IC 5169	22h 11m 13.4s	-35° 59' 59"	12.9	Galaxy	0.015x0.004	Piscis Austrinus	
NGC 7208	22h 09m 26.3s	-28° 57' 46"	13.1	Galaxy	0.007x0.005	Piscis Austrinus	
NGC 7259	22h 24m 06.4s	-28° 51' 47"	13.1	Galaxy	0.009x0.007	Piscis Austrinus	
NGC 7289	22h 30m 22.0s	-35° 22' 46"	13.1	Galaxy	0.010x0.008	Piscis Austrinus	
NGC 7418A	22h 57m 41.4s	-36° 40' 35"	13.1	Galaxy	0.029x0.015	Grus	7418A
NGC 7258	22h 23m 58.7s	-28° 15' 14"	13.2	Galaxy	0.011x0.005	Piscis Austrinus	
NGC 7268	22h 26m 41.7s	-31° 06' 33"	13.2	Galaxy	0.009x0.005	Piscis Austrinus	
NGC 7520	23h 13m 50.6s	-23° 22' 15"	13.2	Galaxy	0.010x0.006	Aquarius	
NGC 7174	22h 03m 08.6s	-31° 54' 19"	13.3	Galaxy	0.019x0.01	Piscis Austrinus	
NGC 7277	22h 27m 12.0s	-31° 03' 14"	13.3	Galaxy	0.012x0.005	Piscis Austrinus	
NGC 7382	22h 51m 24.5s	-36° 45' 40"	13.3	Galaxy	0.01x0.003	Grus	
IC 5262-1	22h 56m 20.3s	-33° 47' 30"	13.4	Galaxy	0.010x0.006	Piscis Austrinus	IC 5262-1
IC 5269A	22h 56m 55.8s	-36° 15' 05"	13.4	Galaxy	0.010x0.007	Grus	IC 5269A
IC 5289	23h 12m 15.7s	-32° 21' 12"	13.4	Galaxy	0.009x0.006	Sculptor	
IC 5269C	23h 01m 47.9s	-35° 16' 22"	13.5	Galaxy	0.017x0.007	Piscis Austrinus	
NGC 7204A	22h 07m 55.3s	-30° 57' 42"	13.6	Galaxy	0.013x0.006	Piscis Austrinus	7204A
NGC 7636	23h 23m 30.6s	-29° 10' 55"	13.6	Galaxy	0.007x0.005	Sculptor	
NGC 7279	22h 28m 14.6s	-35° 02' 52"	13.8	Galaxy	0.01x0.006	Piscis Austrinus	
IC 5326	23h 30m 32.3s	-28° 43' 55"	13.9	Galaxy	0.008x0.003	Sculptor	
NGC 7178	22h 03m 28.9s	-35° 42' 12"	14.1	Galaxy	0.009x0.004	Piscis Austrinus	
NGC 7262	22h 24m 29.9s	-32° 16' 23"	14.1	Galaxy	0.006x0.005	Piscis Austrinus	
NGC 7204B	22h 07m 57.2s	-30° 57' 55"	14.2	Galaxy	0.009x0.005	Piscis Austrinus	7204B
IC 5262-2	22h 56m 22.1s	-33° 47' 54"	14.2	Galaxy	0.004x0.003	Piscis Austrinus	IC 5262-2
NGC 7355	22h 44m 31.6s	-36° 46' 14"	14.3	Galaxy	0.008x0.003	Grus	
NGC 7313	22h 36m 32.0s	-26° 00' 30"	14.4	Galaxy	0.005x0.004	Piscis Austrinus	
NGC 7498	23h 10m 53.7s	-24° 19' 36"	14.4	Galaxy	0.007x0.003	Aquarius	
IC 5214	22h 23m 43.8s	-27° 15' 51"	14.4	Galaxy	0.008x0.001	Piscis Austrinus	
NGC 7268A	22h 26m 43.3s	-31° 06' 30"	14.5	Galaxy	0.009x0.005	Piscis Austrinus	7268A
NGC 7494	23h 09m 56.1s	-24° 16' 17"	14.6	Galaxy	0.006x0.005	Aquarius	
IC 5168	22h 09m 46.7s	-27° 46' 05"	14.8	Galaxy	0.010x0.002	Piscis Austrinus	

7.177 Main objects visible on chart 176

Table 183: Main objects visible on chart 176

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 55	00h 16m 02.0s	-39° 07' 10"	7.9	Galaxy	0.26x0.049	Sculptor	CALDWELL 72
IC 5332	23h 35m 24.7s	-36° 00' 06"	10.5	Galaxy	0.074x0.068	Sculptor	
NGC 7552	23h 17m 10.1s	-42° 29' 11"	10.6	Galaxy	0.028x0.022	Grus	Grus quartet
NGC 7582	23h 19m 22.8s	-42° 16' 16"	10.6	Galaxy	0.041x0.019	Grus	
NGC 7713	23h 37m 12.6s	-37° 50' 21"	11.2	Galaxy	0.037x0.015	Sculptor	
NGC 7531	23h 15m 48.2s	-43° 30' 02"	11.3	Galaxy	0.037x0.014	Grus	
IC 5325	23h 29m 41.3s	-41° 14' 03"	11.3	Galaxy	0.023x0.020	Phoenix	
NGC 7496	23h 10m 47.1s	-43° 19' 47"	11.4	Galaxy	0.027x0.025	Grus	
IC 5328	23h 34m 14.4s	-44° 54' 58"	11.4	Galaxy	0.02x0.0125	Phoenix	
NGC 7590	23h 19m 53.8s	-42° 08' 26"	11.5	Galaxy	0.021x0.008	Grus	
NGC 7599	23h 20m 20.0s	-42° 09' 34"	11.5	Galaxy	0.036x0.011	Grus	
NGC 7744	23h 45m 56.0s	-42° 48' 36"	11.9	Galaxy	0.018x0.015	Phoenix	
NGC 7632	23h 22m 59.8s	-42° 22' 53"	12.1	Galaxy	0.02x0.01	Grus	
NGC 7764	23h 51m 49.7s	-40° 37' 47"	12.2	Galaxy	0.016x0.012	Phoenix	
NGC 7713A	23h 38m 05.9s	-37° 36' 55"	12.5	Galaxy	0.015x0.011	Sculptor	7713A
NGC 986	00h 23m 42.2s	-45° 10' 07"	12.7	Galaxy	0.013x0.010	Phoenix	
NGC 7545	23h 16m 31.3s	-38° 26' 12"	13.1	Galaxy	0.009x0.005	Grus	
NGC 925	00h 22m 24.1s	-48° 31' 30"	13.1	Galaxy	0.015x0.007	Phoenix	
NGC 2645	00h 49m 12.3s	-38° 08' 11"	13.5	Galaxy	0.009x0.002	Sculptor	
NGC 891	00h 22m 17.1s	-48° 33' 56"	13.5	Galaxy	0.01x0.005	Phoenix	CALDWELL 23
IC 5328A	23h 34m 11.7s	-44° 55' 31"	13.8	Galaxy	0.004x0.001	Phoenix	IC 5328A
NGC 7658B	23h 27m 23.1s	-39° 07' 40"	13.9	Galaxy	0.006x0.002	Grus	7658B
NGC 7496A	23h 13m 23.4s	-43° 40' 50"	14.0	Galaxy	0.011x0.005	Grus	7496A
NGC 7658A	23h 27m 22.8s	-39° 06' 60"	14.3	Galaxy	0.005x0.001	Grus	7658A
NGC 877	00h 22m 07.0s	-48° 31' 45"	14.3	Galaxy	0.007x0.005	Phoenix	
IC 1595	00h 54m 36.7s	-45° 05' 20"	14.3	Galaxy	0.012x0.001	Phoenix	
IC 5328B	23h 34m 56.8s	-45° 06' 33"	14.3	Galaxy	0.014x0.004	Phoenix	IC 5328B
NGC 7764A-2	23h 54m 19.6s	-40° 42' 24"	14.4	Galaxy	0.010x0.005	Phoenix	7764A-2
NGC 884	00h 22m 14.8s	-48° 32' 24"	14.4	Galaxy	0.006x0.004	Phoenix	
IC 1594	00h 54m 34.4s	-47° 33' 01"	14.4	Galaxy	0.010x0.003	Phoenix	
MCG -7-1-1	23h 54m 22.1s	-40° 42' 57"	14.8	Galaxy	0.003x0.003	Phoenix	MCG -7-1-1
IC 1537	00h 16m 43.5s	-39° 09' 39"	15.0	Galpart	0.004x0.004	Sculptor	
NGC 7496B	23h 13m 21.1s	-43° 40' 46"	15.2	Galaxy	0.003x0.001	Grus	7496B
NGC 7764A-1	23h 54m 16.0s	-40° 42' 14"	15.2	Galaxy	0.005x0.001	Phoenix	7764A-1

7.178 Main objects visible on chart 177

Table 184: Main objects visible on chart 177

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 300	00h 55m 44.2s	-37° 35' 13"	8.1	Galaxy	0.158x0.107	Sculptor	CALDWELL 70
NGC 6250	01h 35m 51.2s	-41° 20' 45"	11.2	Galaxy	0.048x0.015	Phoenix	
IC 1633	01h 10m 43.4s	-45° 50' 09"	11.5	Galaxy	0.021x0.02	Phoenix	
NGC 6304	01h 36m 23.9s	-39° 15' 58"	11.9	Galaxy	0.013x0.011	Phoenix	
IC 1625	01h 08m 30.4s	-46° 48' 45"	12.0	Galaxy	0.013x0.01	Phoenix	

Table 184: Main objects visible on chart 177 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6416	01h 39m 25.1s	-42° 26' 11"	12.1	Galaxy	0.011x0.010	Phoenix	
NGC 6920	01h 49m 25.1s	-48° 33' 32"	12.3	Galaxy	0.017x0.015	Phoenix	
NGC 6231	01h 35m 54.7s	-36° 23' 54"	12.5	Galaxy	0.016x0.012	Sculptor	CALDWELL 76
NGC 5687	01h 28m 45.8s	-35° 37' 29"	12.6	Galaxy	0.018x0.010	Sculptor	
IC 1609	01h 00m 36.8s	-40° 14' 13"	12.6	Galaxy	0.011x0.011	Phoenix	
NGC 6266	01h 35m 59.3s	-39° 03' 16"	12.7	Galaxy	0.018x0.014	Sculptor	M62
NGC 4382	01h 14m 23.7s	-37° 48' 23"	12.8	Galaxy	0.011x0.009	Sculptor	M85
NGC 6333	01h 37m 11.1s	-37° 13' 46"	12.8	Galaxy	0.011x0.01	Sculptor	M9
NGC 3247	00h 58m 04.8s	-40° 51' 45"	12.9	Galaxy	0.011x0.004	Phoenix	
NGC 4244	01h 12m 17.1s	-37° 59' 18"	12.9	Galaxy	0.019x0.006	Sculptor	CALDWELL 26
NGC 6121	01h 34m 45.9s	-36° 24' 04"	12.9	Galaxy	0.012x0.007	Sculptor	M4
IC 1627	01h 08m 58.8s	-45° 59' 53"	12.9	Galaxy	0.020x0.005	Phoenix	
NGC 4096	01h 10m 23.3s	-35° 42' 36"	13.0	Galaxy	0.010x0.009	Sculptor	
NGC 824	02h 07m 39.2s	-36° 22' 05"	13.1	Galaxy	0.011x0.01	Fornax	
NGC 822	02h 07m 23.5s	-41° 04' 18"	13.2	Galaxy	0.009x0.005	Phoenix	
IC 1621	01h 07m 10.6s	-46° 37' 45"	13.2	Galaxy	0.010x0.003	Phoenix	
NGC 4826	01h 21m 08.6s	-40° 52' 19"	13.3	Galaxy	0.018x0.004	Phoenix	M64, Black Eye galaxy
NGC 5345	01h 25m 33.0s	-38° 02' 08"	13.3	Galaxy	0.008x0.007	Sculptor	
NGC 5448	01h 26m 00.3s	-38° 00' 04"	13.3	Galaxy	0.012x0.009	Sculptor	
NGC 5749	01h 29m 51.9s	-35° 30' 21"	13.3	Galaxy	0.009x0.005	Sculptor	
NGC 6193	01h 35m 39.9s	-36° 23' 52"	13.3	Galaxy	0.012x0.008	Sculptor	CALDWELL 82
IC 1631	01h 09m 32.5s	-46° 22' 47"	13.3	Galaxy	0.007x0.005	Phoenix	
NGC 3198	00h 57m 47.2s	-43° 44' 29"	13.4	Galaxy	0.008x0.006	Phoenix	
322-1	00h 57m 59.6s	-43° 37' 48"	13.4	Galaxy	0.007x0.003	Phoenix	322-1
NGC 4153	01h 10m 55.7s	-35° 23' 41"	13.4	Galaxy	0.012x0.006	Sculptor	
NGC 2645	00h 49m 12.3s	-38° 08' 11"	13.5	Galaxy	0.009x0.002	Sculptor	
NGC 5460	01h 26m 01.1s	-37° 58' 33"	13.7	Galaxy	0.011x0.004	Sculptor	
NGC 3680	01h 05m 10.9s	-43° 10' 48"	13.8	Galaxy	0.005x0.005	Phoenix	
IC 1603	00h 57m 49.0s	-45° 18' 56"	13.8	Galaxy	0.010x0.006	Phoenix	
NGC 7274	01h 54m 36.4s	-35° 46' 04"	13.9	Galaxy	0.009x0.005	Fornax	
NGC 5728	01h 29m 24.3s	-39° 12' 52"	14.0	Galaxy	0.006x0.005	Sculptor	
NGC 6441	01h 39m 38.9s	-42° 29' 41"	14.0	Galaxy	0.010x0.005	Phoenix	
IC 1595	00h 54m 36.7s	-45° 05' 20"	14.3	Galaxy	0.012x0.001	Phoenix	
IC 1630	01h 09m 04.6s	-46° 39' 30"	14.3	Galaxy	0.012x0.002	Phoenix	
IC 1594	00h 54m 34.4s	-47° 33' 01"	14.4	Galaxy	0.010x0.003	Phoenix	
NGC 5493	01h 25m 55.5s	-37° 54' 50"	14.6	Galaxy	0.004x0.003	Sculptor	

7.179 Main objects visible on chart 178

Table 185: Main objects visible on chart 178

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1291	03h 17m 57.7s	-41° 02' 31"	8.5	Galaxy	0.091x0.079	Eridanus	
NGC 1316	03h 23m 22.6s	-37° 08' 40"	8.5	Galaxy	0.091x0.06	Fornax	Fornax A
NGC 1326	03h 24m 37.9s	-36° 24' 04"	10.5	Galaxy	0.032x0.024	Fornax	

Table 185: Main objects visible on chart 178 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 986	02h 34m 17.3s	-38° 58' 03"	10.9	Galaxy	0.033x0.026	Fornax	
NGC 1317	03h 23m 25.5s	-37° 02' 24"	11.0	Galaxy	0.023x0.02	Fornax	
NGC 1341	03h 28m 39.3s	-37° 05' 16"	11.8	Galaxy	0.01x0.009	Fornax	
NGC 862	02h 13m 46.3s	-41° 56' 60"	11.8	Galaxy	0.006x0.006	Phoenix	
IC 1796	02h 23m 30.3s	-41° 17' 22"	12.0	Galaxy	0.009x0.007	Phoenix	
NGC 1217-1	03h 06m 47.2s	-38° 58' 01"	12.1	Galaxy	0.015x0.010	Fornax	1217-1
NGC 1310	03h 21m 44.9s	-37° 02' 18"	12.1	Galaxy	0.015x0.012	Fornax	
IC 1812	02h 30m 13.6s	-42° 43' 55"	12.2	Galaxy	0.016x0.013	Eridanus	
NGC 1336	03h 27m 13.8s	-35° 39' 05"	12.3	Galaxy	0.017x0.012	Fornax	
NGC 964	02h 31m 50.3s	-35° 57' 20"	12.4	Galaxy	0.017x0.004	Fornax	
IC 1875	03h 04m 37.7s	-39° 22' 17"	12.5	Galaxy	0.011x0.01	Fornax	
NGC 893	02h 20m 41.3s	-41° 19' 15"	12.7	Galaxy	0.010x0.009	Phoenix	
NGC 979	02h 32m 19.5s	-44° 26' 43"	12.7	Galaxy	0.007x0.005	Eridanus	
NGC 954	02h 29m 34.1s	-41° 19' 22"	12.8	Galaxy	0.013x0.006	Eridanus	
IC 1816	02h 32m 35.3s	-36° 35' 36"	12.8	Galaxy	0.011x0.01	Fornax	
NGC 854	02h 12m 16.5s	-35° 45' 05"	12.9	Galaxy	0.015x0.005	Fornax	
NGC 939	02h 27m 02.7s	-44° 21' 58"	13.0	Galaxy	0.01x0.008	Eridanus	
NGC 824	02h 07m 39.2s	-36° 22' 05"	13.1	Galaxy	0.011x0.01	Fornax	
IC 1949	03h 31m 27.0s	-47° 55' 09"	13.1	Galaxy	0.009x0.007	Horologium	
NGC 1326A	03h 25m 50.0s	-36° 18' 07"	13.2	Galaxy	0.015x0.014	Fornax	1326A
NGC 822	02h 07m 23.5s	-41° 04' 18"	13.2	Galaxy	0.009x0.005	Phoenix	
IC 1810	02h 30m 08.3s	-42° 59' 50"	13.2	Galaxy	0.010x0.008	Eridanus	
NGC 1326B	03h 26m 01.1s	-36° 19' 19"	13.3	Galaxy	0.03x0.009	Fornax	1326B
NGC 889	02h 19m 49.9s	-41° 40' 01"	13.3	Galaxy	0.008x0.007	Phoenix	
NGC 1316C	03h 25m 39.6s	-36° 56' 48"	13.4	Galaxy	0.013x0.005	Fornax	
NGC 7274	01h 54m 36.4s	-35° 46' 04"	13.9	Galaxy	0.009x0.005	Fornax	
NGC 1316A	03h 24m 19.2s	-36° 50' 27"	14.0	Galaxy	0.005x0.002	Fornax	1316A
986A	02h 33m 25.2s	-39° 12' 60"	14.0	Galaxy	0.015x0.005	Fornax	986A
NGC 1217-2	03h 06m 47.0s	-38° 57' 06"	14.2	Galaxy	0.004x0.003	Fornax	1217-2
NGC 1316B	03h 24m 20.8s	-36° 50' 44"	14.3	Galaxy	0.003x0.002	Fornax	1316B
IC 1948	03h 31m 24.0s	-47° 54' 14"	14.7	Galaxy	0.006x0.005	Horologium	
IC 1969	03h 36m 49.7s	-45° 07' 14"	14.8	Galaxy	0.010x0.001	Horologium	
IC 1944	03h 30m 14.1s	-47° 56' 07"	14.9	Galaxy	0.004x0.003	Horologium	
IC 1976	03h 37m 43.0s	-47° 22' 46"	15.0	Galaxy	0.006x0.004	Horologium	

7.180 Main objects visible on chart 179

Table 186: Main objects visible on chart 179

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1291	03h 17m 57.7s	-41° 02' 31"	8.5	Galaxy	0.091x0.079	Eridanus	
NGC 1316	03h 23m 22.6s	-37° 08' 40"	8.5	Galaxy	0.091x0.06	Fornax	Fornax A
NGC 1365	03h 34m 18.0s	-36° 04' 52"	9.6	Galaxy	0.091x0.051	Fornax	
NGC 1399	03h 39m 10.3s	-35° 23' 31"	9.6	Galaxy	0.057x0.054	Fornax	
NGC 1433	03h 42m 35.1s	-47° 09' 55"	9.9	Galaxy	0.054x0.049	Horologium	

Table 186: Main objects visible on chart 179 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1404	03h 39m 33.0s	-35° 32' 06"	10.0	Galaxy	0.027x0.025	Eridanus	
NGC 1512	04h 04m 29.5s	-43° 18' 01"	10.3	Galaxy	0.074x0.046	Horologium	
NGC 1326	03h 24m 37.9s	-36° 24' 04"	10.5	Galaxy	0.032x0.024	Fornax	
NGC 1387	03h 37m 38.6s	-35° 26' 51"	10.7	Galaxy	0.023x0.021	Fornax	
NGC 1457	03h 45m 06.9s	-44° 35' 24"	10.7	Galaxy	0.063x0.014	Horologium	
NGC 1527	04h 08m 55.9s	-47° 50' 60"	10.8	Galaxy	0.032x0.012	Horologium	
NGC 1379	03h 36m 45.3s	-35° 22' 55"	10.9	Galaxy	0.02x0.019	Fornax	
NGC 1427	03h 43m 00.5s	-35° 20' 11"	10.9	Galaxy	0.031x0.021	Fornax	
NGC 1317	03h 23m 25.5s	-37° 02' 24"	11.0	Galaxy	0.023x0.02	Fornax	
NGC 1374	03h 35m 58.2s	-35° 10' 00"	11.1	Galaxy	0.0225x0.02	Fornax	
NGC 1386	03h 37m 27.5s	-35° 56' 25"	11.2	Galaxy	0.028x0.010	Eridanus	
NGC 1411	03h 39m 21.2s	-44° 02' 34"	11.3	Galaxy	0.015x0.011	Horologium	
NGC 1493	03h 58m 01.3s	-46° 09' 39"	11.3	Galaxy	0.023x0.023	Horologium	
IC 2006	03h 55m 08.8s	-35° 54' 55"	11.3	Galaxy	0.015x0.013	Eridanus	
NGC 1381	03h 37m 13.4s	-35° 14' 12"	11.5	Galaxy	0.021x0.006	Fornax	
NGC 1389	03h 37m 53.0s	-35° 41' 14"	11.5	Galaxy	0.019x0.01	Eridanus	
NGC 1567	04h 21m 39.6s	-48° 12' 47"	11.5	Galaxy	0.010x0.010	Caelum	
NGC 1487	03h 56m 21.6s	-42° 18' 58"	11.6	Galaxy	0.02x0.014	Eridanus	
NGC 1436	03h 44m 18.1s	-35° 47' 53"	11.7	Galaxy	0.025x0.016	Eridanus	
NGC 1341	03h 28m 39.3s	-37° 05' 16"	11.8	Galaxy	0.01x0.009	Fornax	
IC 2035	04h 09m 35.5s	-45° 28' 14"	11.8	Galaxy	0.01x0.0075	Horologium	
IC 1970	03h 37m 07.8s	-43° 53' 53"	12.0	Galaxy	0.025x0.005	Horologium	
NGC 1310	03h 21m 44.9s	-37° 02' 18"	12.1	Galaxy	0.015x0.012	Fornax	
NGC 1336	03h 27m 13.8s	-35° 39' 05"	12.3	Galaxy	0.017x0.012	Fornax	
NGC 1570	04h 22m 43.4s	-43° 35' 19"	12.3	Galaxy	0.0125x0.01	Caelum	
NGC 1375	03h 35m 58.4s	-35° 12' 24"	12.4	Galaxy	0.019x0.007	Fornax	
IC 1558	04h 20m 49.2s	-44° 59' 20"	12.4	Galaxy	0.020x0.008	Caelum	
NGC 1572	04h 23m 19.3s	-40° 33' 36"	12.4	Galaxy	0.02x0.01	Caelum	
NGC 1419	03h 41m 22.2s	-37° 27' 14"	12.6	Galaxy	0.007x0.007	Eridanus	
NGC 1460	03h 46m 54.0s	-36° 38' 30"	12.6	Galaxy	0.011x0.008	Eridanus	
NGC 1495	03h 58m 56.4s	-44° 24' 55"	12.6	Galaxy	0.025x0.004	Horologium	
NGC 1616	04h 33m 15.9s	-43° 40' 40"	12.6	Galaxy	0.015x0.007	Caelum	
NGC 1483	03h 53m 20.8s	-47° 25' 32"	12.7	Galaxy	0.013x0.011	Horologium	
NGC 1595	04h 28m 52.5s	-47° 46' 35"	12.7	Galaxy	0.010x0.007	Caelum	Carafe group
IC 1369	03h 37m 26.2s	-36° 11' 49"	12.8	Galaxy	0.012x0.011	Eridanus	
NGC 1427A	03h 40m 50.4s	-35° 33' 58"	12.8	Galaxy	0.019x0.012	Eridanus	1427A
NGC 1668	04h 46m 38.7s	-44° 42' 04"	12.8	Galaxy	0.013x0.007	Caelum	
NGC 1382	03h 37m 50.6s	-35° 08' 14"	12.9	Galaxy	0.012x0.010	Fornax	
NGC 1428	03h 43m 04.3s	-35° 05' 51"	12.9	Galaxy	0.009x0.005	Fornax	
NGC 1510	04h 04m 08.0s	-43° 21' 04"	13.0	Galaxy	0.026x0.015	Horologium	
NGC 1437B	03h 46m 35.2s	-36° 18' 12"	13.1	Galaxy	0.021x0.006	Eridanus	1437B
NGC 1484	03h 54m 57.3s	-36° 55' 07"	13.1	Galaxy	0.020x0.005	Eridanus	
IC 1949	03h 31m 27.0s	-47° 55' 09"	13.1	Galaxy	0.009x0.007	Horologium	
NGC 1326A	03h 25m 50.0s	-36° 18' 07"	13.2	Galaxy	0.015x0.014	Fornax	1326A
NGC 1326B	03h 26m 01.1s	-36° 19' 19"	13.3	Galaxy	0.03x0.009	Fornax	1326B
NGC 1373	03h 35m 40.8s	-35° 06' 43"	13.3	Galaxy	0.01x0.0075	Fornax	

Table 186: Main objects visible on chart 179 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1476	03h 52m 43.9s	-44° 28' 45"	13.3	Galaxy	0.011x0.005	Horologium	
NGC 1598	04h 29m 04.3s	-47° 44' 37"	13.3	Galaxy	0.011x0.006	Caelum	
IC 2068	04h 27m 12.2s	-42° 03' 14"	13.3	Galaxy	0.01x0.006	Caelum	
NGC 1316C	03h 25m 39.6s	-36° 56' 48"	13.4	Galaxy	0.013x0.005	Fornax	
NGC 1351A	03h 29m 30.5s	-35° 06' 59"	13.4	Galaxy	0.021x0.004	Fornax	1351A
NGC 1437A	03h 43m 42.9s	-36° 13' 00"	13.4	Galaxy	0.015x0.012	Eridanus	1437A
IC 1492	03h 58m 53.7s	-35° 23' 43"	13.5	Galaxy	0.007x0.005	Eridanus	
NGC 1585	04h 28m 08.3s	-42° 07' 33"	13.5	Galaxy	0.01x0.005	Caelum	
NGC 1658	04h 44m 36.4s	-41° 25' 52"	13.5	Galaxy	0.012x0.004	Caelum	
IC 2036	04h 10m 32.7s	-39° 38' 33"	13.5	Galaxy	0.008x0.006	Horologium	
NGC 1680	04h 49m 03.8s	-47° 47' 10"	13.6	Galaxy	0.01x0.004	Pictor	
NGC 1396	03h 38m 47.9s	-35° 22' 54"	13.8	Galaxy	0.005x0.003	Fornax	
NGC 1316A	03h 24m 19.2s	-36° 50' 27"	14.0	Galaxy	0.005x0.002	Fornax	1316A
NGC 1660	04h 44m 46.3s	-41° 27' 55"	14.0	Galaxy	0.008x0.004	Caelum	
NGC 1316B	03h 24m 20.8s	-36° 50' 44"	14.3	Galaxy	0.003x0.002	Fornax	1316B
IC 1986	03h 41m 10.6s	-45° 17' 55"	14.3	Galaxy	0.008x0.005	Horologium	
IC 1948	03h 31m 24.0s	-47° 54' 14"	14.7	Galaxy	0.006x0.005	Horologium	
IC 1969	03h 36m 49.7s	-45° 07' 14"	14.8	Galaxy	0.010x0.001	Horologium	
IC 1944	03h 30m 14.1s	-47° 56' 07"	14.9	Galaxy	0.004x0.003	Horologium	
IC 2015	03h 58m 49.1s	-40° 20' 19"	14.9	Galaxy	0.004x0.003	Horologium	
IC 1976	03h 37m 43.0s	-47° 22' 46"	15.0	Galaxy	0.006x0.004	Horologium	
IC 1984	03h 40m 24.4s	-47° 01' 08"	15.2	Galaxy	0.005x0.001	Horologium	

7.181 Main objects visible on chart 180

Table 187: Main objects visible on chart 180

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1851	05h 14m 41.8s	-40° 01' 37"	7.1	Globular cluster	0.1x0.1	Columba	CALDWELL 73
NGC 1808	05h 08m 19.9s	-37° 29' 27"	9.9	Galaxy	0.054x0.032	Columba	
NGC 1792	05h 05m 50.9s	-37° 57' 22"	10.2	Galaxy	0.043x0.021	Columba	
NGC 1963	05h 32m 48.6s	-36° 22' 07"	12.0	Open cluster	0.116x0.116	Columba	
NGC 1930	05h 26m 26.7s	-46° 42' 49"	12.4	Galaxy	0.015x0.01	Pictor	
IC 2136	05h 33m 50.9s	-36° 23' 16"	12.5	Galaxy	0.023x0.005	Columba	
NGC 1616	04h 33m 15.9s	-43° 40' 40"	12.6	Galaxy	0.015x0.007	Caelum	
NGC 1827	05h 10m 42.1s	-36° 56' 20"	12.6	Galaxy	0.025x0.005	Columba	
NGC 1595	04h 28m 52.5s	-47° 46' 35"	12.7	Galaxy	0.010x0.007	Caelum	Carafe group
IC 2122	05h 19m 38.9s	-37° 04' 17"	12.7	Galaxy	0.012x0.010	Columba	
NGC 1668	04h 46m 38.7s	-44° 42' 04"	12.8	Galaxy	0.013x0.007	Caelum	
NGC 1759	05h 01m 25.7s	-38° 38' 53"	12.8	Galaxy	0.01x0.01	Caelum	
IC 2150	05h 51m 54.9s	-38° 19' 03"	12.8	Galaxy	0.021x0.006	Columba	
NGC 1598	04h 29m 04.3s	-47° 44' 37"	13.3	Galaxy	0.011x0.006	Caelum	
NGC 2201	06h 14m 03.8s	-43° 42' 40"	13.3	Galaxy	0.009x0.004	Puppis	
NGC 1658	04h 44m 36.4s	-41° 25' 52"	13.5	Galaxy	0.012x0.004	Caelum	
NGC 1680	04h 49m 03.8s	-47° 47' 10"	13.6	Galaxy	0.01x0.004	Pictor	

Table 187: Main objects visible on chart 180 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1660	04h 44m 46.3s	-41° 27' 55"	14.0	Galaxy	0.008x0.004	Caelum	
IC 2200A	06h 13m 49.8s	-43° 40' 08"	14.0	Galaxy	0.007x0.005	Puppis	IC 2200A
NGC 1998	05h 33m 43.9s	-48° 41' 01"	14.2	Galaxy	0.007x0.004	Pictor	

7.182 Main objects visible on chart 181

Table 188: Main objects visible on chart 181

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2298	06h 49m 37.5s	-36° 01' 34"	9.3	Globular cluster	0.041x0.041	Puppis	
NGC 2427	07h 36m 59.2s	-47° 40' 37"	11.5	Galaxy	0.040x0.016	Puppis	
NGC 2310	06h 54m 28.9s	-40° 53' 14"	11.8	Galaxy	0.035x0.006	Puppis	
NGC 2328	07h 03m 10.5s	-42° 05' 43"	12.1	Galaxy	0.010x0.006	Puppis	
NGC 2201	06h 14m 03.8s	-43° 42' 40"	13.3	Galaxy	0.009x0.004	Puppis	
IC 2200A	06h 13m 49.8s	-43° 40' 08"	14.0	Galaxy	0.007x0.005	Puppis	IC 2200A

7.183 Main objects visible on chart 182

Table 189: Main objects visible on chart 182

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2451	07h 46m 02.5s	-37° 59' 41"	2.8	Open cluster	0.416x0.416	Puppis	
IC 2395	08h 43m 05.0s	-48° 10' 25"	4.6	Open cluster	0.108x0.108	Vela	
NGC 2477	07h 52m 48.4s	-38° 34' 38"	5.8	Open cluster	0.166x0.166	Puppis	CALDWELL 71
NGC 2546	08h 13m 03.8s	-37° 40' 17"	6.3	Open cluster	0.583x0.583	Puppis	
NGC 2645	08h 39m 39.2s	-46° 17' 29"	7.0	Open cluster	0.025x0.025	Vela	
NGC 2579	08h 21m 33.7s	-36° 16' 27"	7.5	Open cluster	0.158x0.158	Puppis	
NGC 2659	08h 43m 13.1s	-45° 03' 55"	8.6	Open cluster	0.125x0.125	Vela	
NGC 2660	08h 43m 13.7s	-47° 15' 57"	8.8	Open cluster	0.025x0.025	Vela	
NGC 2568	08h 18m 58.5s	-37° 09' 44"	10.7	Open cluster	0.025x0.025	Puppis	
NGC 2427	07h 36m 59.2s	-47° 40' 37"	11.5	Galaxy	0.040x0.016	Puppis	
NGC 2671	08h 46m 51.2s	-41° 56' 38"	11.6	Open cluster	0.041x0.041	Vela	

7.184 Main objects visible on chart 183

Table 190: Main objects visible on chart 183

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2395	08h 43m 05.0s	-48° 10' 25"	4.6	Open cluster	0.108x0.108	Vela	
NGC 3201	10h 18m 21.3s	-46° 30' 04"	6.9	Globular cluster	0.166x0.166	Vela	CALDWELL 79
NGC 2645	08h 39m 39.2s	-46° 17' 29"	7.0	Open cluster	0.025x0.025	Vela	
Mel96	09h 16m 53.6s	-36° 42' 07"	8.2	Open cluster	0.066x0.066	Pyxis	

Table 190: Main objects visible on chart 183 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2659	08h 43m 13.1s	-45° 03' 55"	8.6	Open cluster	0.125x0.125	Vela	
NGC 2660	08h 43m 13.7s	-47° 15' 57"	8.8	Open cluster	0.025x0.025	Vela	
NGC 3132	10h 07m 47.5s	-40° 31' 28"	9.2	Planetary Nebula	0.012x0.012	Vela	CALDWELL 74, Eight-burst planetary
NGC 2982	09h 42m 42.2s	-44° 06' 34"	11.0	Open cluster	0.1x0.1	Vela	
NGC 2818	09h 16m 53.6s	-36° 42' 07"	11.2	Planetary Nebula	0.011x0.011	Pyxis	
NGC 2671	08h 46m 51.2s	-41° 56' 38"	11.6	Open cluster	0.041x0.041	Vela	
NGC 2792	09h 13m 07.2s	-42° 30' 08"	11.6	Planetary Nebula	0.002x0.002	Vela	
NGC 2845	09h 19m 20.1s	-38° 05' 10"	11.7	Galaxy	0.019x0.01	Vela	
NGC 2849	09h 20m 04.9s	-40° 35' 49"	12.5	Open cluster	0.025x0.025	Vela	
IC 2552	10h 11m 33.8s	-34° 56' 01"	12.5	Galaxy	0.013x0.012	Antlia	
IC 2548	10h 08m 42.3s	-35° 19' 06"	13.1	Galaxy	0.015x0.014	Antlia	
IC 2538	10h 04m 43.9s	-34° 53' 42"	13.7	Galaxy	0.012x0.006	Antlia	
IC 2556	10h 13m 25.3s	-34° 49' 04"	13.7	Galaxy	0.016x0.008	Antlia	
IC 2492	09h 33m 59.0s	-37° 56' 50"	15.0	Galaxy	0.005x0.002	Antlia	

7.185 Main objects visible on chart 184

Table 191: Main objects visible on chart 184

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3201	10h 18m 21.3s	-46° 30' 04"	6.9	Globular cluster	0.166x0.166	Vela	CALDWELL 79
NGC 3680	11h 26m 30.0s	-43° 20' 57"	7.6	Open cluster	0.058x0.058	Centaurus	
NGC 3132	10h 07m 47.5s	-40° 31' 28"	9.2	Planetary Nebula	0.012x0.012	Vela	CALDWELL 74, Eight-burst planetary
NGC 3446	10h 53m 00.3s	-45° 15' 21"	10.0	Open cluster	0.054x0.054	Vela	
NGC 3557	11h 10m 48.8s	-37° 38' 14"	10.4	Galaxy	0.033x0.025	Centaurus	
NGC 3250	10h 27m 19.5s	-40° 02' 08"	11.1	Galaxy	0.022x0.016	Antlia	
NGC 3261	10h 29m 47.6s	-44° 44' 60"	11.2	Galaxy	0.029x0.023	Vela	
NGC 3347	10h 43m 36.1s	-36° 26' 53"	11.3	Galaxy	0.028x0.017	Antlia	
NGC 3366	10h 35m 55.2s	-43° 47' 14"	11.3	Galaxy	0.015x0.006	Vela	
NGC 3358	10h 44m 22.6s	-36° 30' 20"	11.4	Galaxy	0.026x0.015	Antlia	
NGC 3706	11h 30m 37.2s	-36° 29' 27"	11.4	Galaxy	0.025x0.015	Centaurus	
NGC 3256	10h 28m 37.7s	-43° 59' 51"	11.5	Galaxy	0.031x0.017	Vela	
NGC 3258	10h 29m 42.1s	-35° 41' 51"	11.5	Galaxy	0.024x0.020	Antlia	
NGC 3268	10h 30m 49.1s	-35° 25' 06"	11.5	Galaxy	0.025x0.020	Antlia	
NGC 3283	10h 31m 57.1s	-46° 20' 36"	11.5	Galaxy	0.026x0.012	Vela	
NGC 3318	10h 38m 02.8s	-41° 43' 16"	11.6	Galaxy	0.019x0.01	Vela	
NGC 3271	10h 31m 15.4s	-35° 27' 10"	11.8	Galaxy	0.027x0.015	Antlia	
NGC 3275	10h 31m 40.3s	-36° 49' 47"	11.8	Galaxy	0.023x0.017	Antlia	
NGC 3263	10h 29m 59.7s	-44° 12' 55"	11.9	Galaxy	0.042x0.011	Vela	
IC 3568	11h 11m 39.9s	-37° 32' 49"	12.0	Galaxy	0.020x0.007	Centaurus	
NGC 3564	11h 11m 27.6s	-37° 38' 47"	12.1	Galaxy	0.014x0.007	Centaurus	
NGC 3742	11h 36m 25.5s	-38° 03' 21"	12.1	Galaxy	0.02x0.014	Centaurus	
NGC 3269	10h 30m 45.9s	-35° 18' 60"	12.2	Galaxy	0.02x0.009	Antlia	

Table 191: Main objects visible on chart 184 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3278	10h 32m 23.3s	-40° 02' 55"	12.2	Galaxy	0.010x0.007	Antlia	
NGC 3244	10h 26m 16.1s	-39° 55' 11"	12.3	Galaxy	0.017x0.015	Antlia	
NGC 3573	11h 12m 09.7s	-36° 58' 25"	12.3	Galaxy	0.03x0.008	Centaurus	
NGC 3749	11h 36m 46.4s	-38° 05' 50"	12.3	Galaxy	0.035x0.01	Centaurus	
NGC 3267	10h 30m 37.3s	-35° 24' 55"	12.4	Galaxy	0.014x0.008	Antlia	
NGC 3482	10h 59m 22.9s	-46° 40' 51"	12.4	Galaxy	0.015x0.011	Vela	
NGC 3250E	10h 29m 48.3s	-40° 10' 30"	12.5	Galaxy	0.017x0.011	Antlia	
NGC 3273	10h 31m 17.8s	-35° 42' 14"	12.5	Galaxy	0.013x0.005	Antlia	
NGC 3289	10h 34m 56.4s	-35° 24' 59"	12.5	Galaxy	0.018x0.005	Antlia	
NGC 3378	10h 47m 32.3s	-40° 06' 39"	12.5	Galaxy	0.012x0.011	Antlia	
IC 2552	10h 11m 33.8s	-34° 56' 01"	12.5	Galaxy	0.013x0.012	Antlia	
NGC 3256C	10h 29m 52.2s	-43° 56' 34"	12.6	Galaxy	0.014x0.01	Vela	
NGC 3260	10h 29m 54.8s	-35° 41' 18"	12.6	Galaxy	0.01x0.0075	Antlia	
NGC 3533	11h 07m 58.7s	-37° 16' 14"	12.6	Galaxy	0.023x0.005	Centaurus	
NGC 3557B	11h 10m 23.3s	-37° 26' 51"	12.6	Galaxy	0.016x0.004	Centaurus	3557B
NGC 3250B	10h 28m 31.8s	-40° 31' 40"	12.7	Galaxy	0.018x0.005	Vela	3250B
NGC 3347A	10h 41m 09.8s	-36° 30' 24"	12.8	Galaxy	0.016x0.006	Antlia	3347A
NGC 3256B	10h 29m 47.4s	-44° 29' 45"	13.0	Galaxy	0.015x0.004	Vela	3256B
NGC 3347B	10h 42m 49.5s	-37° 01' 51"	13.0	Galaxy	0.026x0.006	Antlia	3347B
NGC 3257	10h 29m 35.7s	-35° 45' 02"	13.1	Galaxy	0.008x0.007	Antlia	
IC 2548	10h 08m 42.3s	-35° 19' 06"	13.1	Galaxy	0.015x0.014	Antlia	
NGC 3258A	10h 29m 07.8s	-35° 32' 50"	13.2	Galaxy	0.009x0.004	Antlia	3258A
NGC 3258D	10h 32m 44.6s	-35° 30' 12"	13.2	Galaxy	0.013x0.007	Antlia	
NGC 3262	10h 29m 52.5s	-44° 15' 09"	13.2	Galaxy	0.009x0.005	Vela	
NGC 3318B	10h 38m 21.2s	-41° 33' 36"	13.2	Galaxy	0.012x0.009	Vela	3318B
NGC 3333	10h 40m 39.1s	-36° 07' 49"	13.2	Galaxy	0.017x0.003	Antlia	
NGC 3354	10h 43m 52.3s	-36° 27' 27"	13.2	Galaxy	0.005x0.005	Antlia	
NGC 3250D	10h 28m 45.3s	-39° 54' 27"	13.3	Galaxy	0.014x0.002	Antlia	
NGC 3276	10h 31m 56.9s	-40° 02' 16"	13.4	Galaxy	0.008x0.005	Antlia	
NGC 3281A	10h 32m 47.3s	-35° 17' 30"	13.4	Galaxy	0.01x0.008	Antlia	3281A
NGC 3250C	10h 28m 29.8s	-40° 05' 41"	13.5	Galaxy	0.014x0.004	Antlia	
NGC 3281B	10h 32m 41.0s	-35° 17' 54"	13.6	Galaxy	0.005x0.005	Antlia	3281B
NGC 3258C	10h 32m 13.1s	-35° 18' 46"	13.7	Galaxy	0.009x0.006	Antlia	
IC 2538	10h 04m 43.9s	-34° 53' 42"	13.7	Galaxy	0.012x0.006	Antlia	
NGC 3347C	10h 41m 43.2s	-36° 22' 59"	14.1	Galaxy	0.011x0.009	Antlia	
NGC 3258B	10h 31m 13.9s	-35° 39' 23"	14.2	Galaxy	0.008x0.002	Antlia	3258B
NGC 3275A	10h 30m 52.6s	-36° 47' 15"	14.2	Galaxy	0.008x0.002	Antlia	3275A
NGC 3256A	10h 26m 37.3s	-43° 50' 22"	14.4	Galaxy	0.010x0.005	Vela	3256A
IC 2573	10h 24m 18.6s	-35° 32' 53"	14.5	Galaxy	0.012x0.003	Antlia	
NGC 3250A	10h 28m 41.1s	-40° 10' 24"	14.9	Galaxy	0.009x0.001	Antlia	3250A
NGC 3318A	10h 36m 18.8s	-41° 50' 02"	15.1	Galaxy	0.010x0.003	Vela	3318A

7.186 Main objects visible on chart 185

Table 192: Main objects visible on chart 185

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3680	11h 26m 30.0s	-43° 20' 57"	7.6	Open cluster	0.058x0.058	Centaurus	
NGC 3909	11h 50m 24.2s	-48° 21' 54"	10.0	Open cluster	0.166x0.166	Centaurus	
NGC 4696	12h 49m 49.0s	-41° 24' 34"	10.4	Galaxy	0.039x0.027	Centaurus	
NGC 4373	12h 26m 15.3s	-39° 51' 36"	10.9	Galaxy	0.03x0.021	Centaurus	
NGC 4709	12h 51m 03.9s	-41° 28' 49"	10.9	Galaxy	0.019x0.016	Centaurus	
IC 3370	12h 28m 35.0s	-39° 26' 14"	11.0	Galaxy	0.017x0.013	Centaurus	
NGC 4645A	12h 44m 05.0s	-41° 27' 28"	11.1	Galaxy	0.023x0.006	Centaurus	4645A
NGC 4832	12h 58m 47.8s	-39° 51' 32"	11.1	Galaxy	0.015x0.01	Centaurus	
NGC 4751	12h 53m 51.1s	-42° 45' 27"	11.2	Galaxy	0.025x0.009	Centaurus	
NGC 3706	11h 30m 37.2s	-36° 29' 27"	11.4	Galaxy	0.025x0.015	Centaurus	
NGC 4603	12h 41m 54.1s	-41° 04' 29"	11.4	Galaxy	0.028x0.020	Centaurus	
NGC 4767	12h 54m 53.0s	-39° 48' 43"	11.5	Galaxy	0.021x0.01	Centaurus	
NGC 4373A	12h 26m 35.1s	-39° 25' 09"	11.6	Galaxy	0.021x0.007	Centaurus	4373A
NGC 4650	12h 45m 18.8s	-40° 49' 49"	11.6	Galaxy	0.026x0.022	Centaurus	
NGC 4696B	12h 48m 21.4s	-41° 20' 07"	11.6	Galaxy	0.01x0.005	Centaurus	4696B
NGC 4835	12h 59m 09.4s	-46° 21' 43"	11.6	Galaxy	0.033x0.007	Centaurus	
NGC 4645	12h 45m 09.4s	-41° 50' 53"	11.8	Galaxy	0.018x0.011	Centaurus	NGC 4645A
NGC 3783	11h 39m 55.3s	-37° 50' 17"	11.9	Galaxy	0.015x0.014	Centaurus	
NGC 4219	12h 17m 24.4s	-43° 25' 21"	11.9	Galaxy	0.030x0.009	Centaurus	
NGC 4112	12h 08m 05.2s	-40° 18' 29"	12.0	Galaxy	0.013x0.007	Centaurus	
IC 3290	12h 26m 06.4s	-39° 52' 32"	12.0	Galaxy	0.016x0.011	Centaurus	
NGC 3742	11h 36m 25.5s	-38° 03' 21"	12.1	Galaxy	0.02x0.014	Centaurus	
NGC 4507	12h 36m 35.1s	-40° 00' 29"	12.1	Galaxy	0.013x0.010	Centaurus	
NGC 4645B	12h 44m 30.5s	-41° 27' 39"	12.1	Galaxy	0.015x0.005	Centaurus	4645B
NGC 4444	12h 29m 34.3s	-43° 21' 42"	12.2	Galaxy	0.020x0.019	Centaurus	
NGC 4553	12h 37m 06.0s	-39° 32' 17"	12.2	Galaxy	0.017x0.008	Centaurus	
NGC 3749	11h 36m 46.4s	-38° 05' 50"	12.3	Galaxy	0.035x0.01	Centaurus	
NGC 4729	12h 52m 46.3s	-41° 13' 47"	12.3	Galaxy	0.013x0.013	Centaurus	
NGC 4940	13h 06m 02.9s	-47° 19' 59"	12.3	Galaxy	0.008x0.008	Centaurus	
IC 2977	11h 56m 09.5s	-37° 47' 47"	12.3	Galaxy	0.013x0.005	Centaurus	
IC 3639	12h 41m 51.5s	-36° 51' 16"	12.3	Galaxy	0.01x0.01	Centaurus	
NGC 4679	12h 48m 29.5s	-39° 40' 09"	12.4	Galaxy	0.020x0.007	Centaurus	
NGC 4743	12h 53m 15.8s	-41° 29' 15"	12.4	Galaxy	0.011x0.004	Centaurus	
NGC 4622	12h 43m 36.8s	-40° 50' 32"	12.5	Galaxy	0.014x0.013	Centaurus	
NGC 4681	12h 48m 28.8s	-43° 25' 58"	12.5	Galaxy	0.011x0.01	Centaurus	
NGC 4575	12h 38m 49.9s	-40° 38' 11"	12.6	Galaxy	0.016x0.01	Centaurus	
NGC 4683	12h 48m 42.0s	-41° 37' 37"	12.7	Galaxy	0.010x0.007	Centaurus	
NGC 4744	12h 53m 19.6s	-41° 09' 29"	12.7	Galaxy	0.017x0.008	Centaurus	
NGC 3903	11h 49m 57.8s	-37° 37' 02"	12.8	Galaxy	0.009x0.008	Centaurus	
NGC 4677	12h 47m 56.7s	-41° 40' 50"	12.8	Galaxy	0.013x0.005	Centaurus	
NGC 4696D	12h 49m 21.3s	-41° 48' 45"	12.8	Galaxy	0.015x0.003	Centaurus	
NGC 4706	12h 50m 54.0s	-41° 22' 38"	12.8	Galaxy	0.010x0.004	Centaurus	
NGC 4730	12h 53m 00.6s	-41° 14' 40"	12.8	Galaxy	0.008x0.008	Centaurus	
NGC 4812	12h 57m 53.3s	-41° 54' 39"	12.9	Galaxy	0.01x0.003	Centaurus	
NGC 4573	12h 38m 42.9s	-43° 43' 13"	13.0	Galaxy	0.020x0.015	Centaurus	
NGC 4574	12h 38m 41.7s	-35° 37' 01"	13.0	Galaxy	0.015x0.009	Centaurus	

Table 192: Main objects visible on chart 185 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4603C	12h 41m 42.1s	-40° 51' 45"	13.0	Galaxy	0.014x0.003	Centaurus	
NGC 4672	12h 47m 15.3s	-41° 48' 14"	13.1	Galaxy	0.018x0.005	Centaurus	
NGC 4767B	12h 55m 45.1s	-39° 57' 01"	13.1	Galaxy	0.010x0.007	Centaurus	4767B
NGC 4811	12h 57m 53.0s	-41° 53' 41"	13.1	Galaxy	0.010x0.007	Centaurus	
IC 4499	12h 33m 03.1s	-40° 04' 54"	13.2	Galaxy	0.015x0.010	Centaurus	
NGC 4603D	12h 43m 07.1s	-40° 55' 10"	13.2	Galaxy	0.012x0.009	Centaurus	
NGC 4622A	12h 44m 48.3s	-40° 48' 46"	13.2	Galaxy	0.005x0.004	Centaurus	4622A
NGC 4616	12h 43m 15.7s	-40° 44' 25"	13.3	Galaxy	0.007x0.007	Centaurus	
NGC 4650A	12h 45m 48.4s	-40° 48' 46"	13.3	Galaxy	0.013x0.006	Centaurus	4650A
NGC 4601	12h 41m 45.7s	-40° 59' 32"	13.4	Galaxy	0.014x0.004	Centaurus	
NGC 4603A	12h 40m 35.8s	-40° 50' 18"	13.4	Galaxy	0.015x0.005	Centaurus	4603A
NGC 4696E	12h 49m 25.9s	-41° 01' 60"	13.4	Galaxy	0.015x0.005	Centaurus	
NGC 4835A	12h 58m 14.7s	-46° 28' 27"	13.4	Galaxy	0.020x0.003	Centaurus	4835A
IC 4661	12h 46m 14.4s	-40° 55' 22"	13.5	Galaxy	0.01x0.003	Centaurus	
NGC 4696A	12h 47m 55.2s	-41° 35' 44"	13.6	Galaxy	0.010x0.004	Centaurus	4696A
NGC 4219A	12h 18m 56.8s	-43° 38' 26"	13.7	Galaxy	0.010x0.005	Centaurus	4219A
NGC 4696C	12h 49m 02.3s	-40° 55' 03"	13.7	Galaxy	0.015x0.002	Centaurus	
NGC 4622B	12h 44m 49.9s	-40° 48' 58"	14.2	Galaxy	0.009x0.005	Centaurus	4622B
NGC 4373B	12h 27m 41.6s	-39° 14' 02"	14.4	Galaxy	0.012x0.007	Centaurus	4373B
NGC 4603B	12h 41m 28.7s	-41° 10' 07"	14.7	Galaxy	0.011x0.002	Centaurus	4603B
NGC 4767A	12h 54m 01.3s	-39° 55' 60"	15.7	Galaxy	0.006x0.002	Centaurus	4767A

7.187 Main objects visible on chart 186

Table 193: Main objects visible on chart 186

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5139	13h 27m 52.1s	-47° 34' 26"	5.3	Globular cluster	0.458x0.458	Centaurus	CALDWELL 80, Omega Centauri
NGC 5460	14h 08m 45.7s	-48° 23' 06"	5.6	Open cluster	0.291x0.291	Centaurus	
NGC 5128	13h 26m 32.6s	-43° 06' 34"	6.8	Galaxy	0.214x0.166	Centaurus	CALDWELL 77, Centaurus A
NGC 5102	13h 22m 58.7s	-36° 43' 32"	9.6	Galaxy	0.071x0.022	Centaurus	
IC 4406	14h 23m 35.4s	-44° 13' 55"	10.2	Planetary Nebula	0.014x0.014	Lupus	
NGC 4696	12h 49m 49.0s	-41° 24' 34"	10.4	Galaxy	0.039x0.027	Centaurus	
NGC 5121	13h 25m 47.5s	-37° 46' 33"	10.6	Galaxy	0.015x0.012	Centaurus	
NGC 5333	13h 55m 32.6s	-48° 36' 02"	10.7	Galaxy	0.015x0.008	Centaurus	
NGC 4709	12h 51m 03.9s	-41° 28' 49"	10.9	Galaxy	0.019x0.016	Centaurus	
NGC 5206	13h 34m 49.9s	-48° 14' 38"	10.9	Galaxy	0.031x0.027	Centaurus	
NGC 4645A	12h 44m 05.0s	-41° 27' 28"	11.1	Galaxy	0.023x0.006	Centaurus	4645A
NGC 4832	12h 58m 47.8s	-39° 51' 32"	11.1	Galaxy	0.015x0.01	Centaurus	
NGC 4930	13h 05m 06.4s	-41° 30' 28"	11.1	Galaxy	0.036x0.03	Centaurus	
NGC 5266	13h 44m 08.9s	-48° 15' 34"	11.1	Galaxy	0.027x0.019	Centaurus	
NGC 4751	12h 53m 51.1s	-42° 45' 27"	11.2	Galaxy	0.025x0.009	Centaurus	
NGC 5062-1	13h 19m 24.7s	-35° 33' 12"	11.2	Galaxy	0.019x0.005	Centaurus	5062-1
NGC 5483	14h 11m 32.6s	-43° 24' 33"	11.2	Galaxy	0.0325x0.03	Centaurus	
NGC 5026	13h 15m 15.9s	-43° 03' 23"	11.3	Galaxy	0.027x0.017	Centaurus	

Table 193: Main objects visible on chart 186 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5530	14h 19m 35.4s	-43° 28' 09"	11.3	Galaxy	0.035x0.015	Lupus	
NGC 4603	12h 41m 54.1s	-41° 04' 29"	11.4	Galaxy	0.028x0.020	Centaurus	
NGC 5011	13h 13m 54.0s	-43° 11' 30"	11.4	Galaxy	0.020x0.017	Centaurus	
NGC 5365	13h 58m 57.3s	-44° 01' 09"	11.4	Galaxy	0.031x0.017	Centaurus	
NGC 4767	12h 54m 53.0s	-39° 48' 43"	11.5	Galaxy	0.021x0.01	Centaurus	
NGC 5090	13h 22m 16.1s	-43° 47' 56"	11.5	Galaxy	0.022x0.018	Centaurus	
NGC 4650	12h 45m 18.8s	-40° 49' 49"	11.6	Galaxy	0.026x0.022	Centaurus	
NGC 4696B	12h 48m 21.4s	-41° 20' 07"	11.6	Galaxy	0.01x0.005	Centaurus	4696B
NGC 4835	12h 59m 09.4s	-46° 21' 43"	11.6	Galaxy	0.033x0.007	Centaurus	
NGC 5408	14h 04m 27.3s	-41° 27' 52"	11.6	Galaxy	0.015x0.008	Centaurus	
IC 4402	14h 22m 22.9s	-46° 22' 48"	11.6	Galaxy	0.035x0.007	Lupus	
NGC 4645	12h 45m 09.4s	-41° 50' 53"	11.8	Galaxy	0.018x0.011	Centaurus	NGC 4645A
NGC 5064	13h 20m 04.4s	-48° 00' 14"	11.8	Galaxy	0.015x0.007	Centaurus	
NGC 4947	13h 06m 20.4s	-35° 25' 59"	11.9	Galaxy	0.02x0.01	Centaurus	
NGC 5266A	13h 41m 43.9s	-48° 25' 58"	12.0	Galaxy	0.025x0.020	Centaurus	5266A
NGC 5516	14h 17m 05.0s	-48° 11' 52"	12.0	Galaxy	0.015x0.01	Centaurus	
NGC 4645B	12h 44m 30.5s	-41° 27' 39"	12.1	Galaxy	0.015x0.005	Centaurus	4645B
NGC 5489	14h 13m 09.7s	-46° 10' 22"	12.2	Galaxy	0.012x0.008	Centaurus	
IC 4367	14h 06m 42.0s	-39° 17' 18"	12.2	Galaxy	0.015x0.013	Centaurus	
NGC 4729	12h 52m 46.3s	-41° 13' 47"	12.3	Galaxy	0.013x0.013	Centaurus	
NGC 4940	13h 06m 02.9s	-47° 19' 59"	12.3	Galaxy	0.008x0.008	Centaurus	
IC 5063	13h 19m 26.8s	-35° 26' 51"	12.3	Galaxy	0.019x0.015	Centaurus	
IC 3639	12h 41m 51.5s	-36° 51' 16"	12.3	Galaxy	0.01x0.01	Centaurus	
NGC 4679	12h 48m 29.5s	-39° 40' 09"	12.4	Galaxy	0.020x0.007	Centaurus	
NGC 4743	12h 53m 15.8s	-41° 29' 15"	12.4	Galaxy	0.011x0.004	Centaurus	
IC 4946	13h 06m 31.1s	-43° 41' 16"	12.4	Galaxy	0.013x0.01	Centaurus	
NGC 4622	12h 43m 36.8s	-40° 50' 32"	12.5	Galaxy	0.014x0.013	Centaurus	
NGC 4681	12h 48m 28.8s	-43° 25' 58"	12.5	Galaxy	0.011x0.01	Centaurus	
NGC 5237	13h 38m 43.5s	-42° 56' 20"	12.5	Galaxy	0.016x0.013	Centaurus	
IC 4386	14h 16m 10.6s	-44° 02' 40"	12.5	Galaxy	0.025x0.012	Centaurus	
NGC 4575	12h 38m 49.9s	-40° 38' 11"	12.6	Galaxy	0.016x0.01	Centaurus	
NGC 5082	13h 21m 43.1s	-43° 47' 39"	12.6	Galaxy	0.012x0.008	Centaurus	
NGC 5244	13h 39m 47.6s	-45° 56' 44"	12.6	Galaxy	0.010x0.006	Centaurus	
NGC 4683	12h 48m 42.0s	-41° 37' 37"	12.7	Galaxy	0.010x0.007	Centaurus	
NGC 4744	12h 53m 19.6s	-41° 09' 29"	12.7	Galaxy	0.017x0.008	Centaurus	
NGC 4909	13h 03m 03.1s	-42° 52' 05"	12.7	Galaxy	0.015x0.014	Centaurus	
IC 4362	14h 06m 28.7s	-41° 54' 17"	12.7	Galaxy	0.014x0.005	Centaurus	
NGC 4677	12h 47m 56.7s	-41° 40' 50"	12.8	Galaxy	0.013x0.005	Centaurus	
NGC 4696D	12h 49m 21.3s	-41° 48' 45"	12.8	Galaxy	0.015x0.003	Centaurus	
NGC 4706	12h 50m 54.0s	-41° 22' 38"	12.8	Galaxy	0.010x0.004	Centaurus	
NGC 4730	12h 53m 00.6s	-41° 14' 40"	12.8	Galaxy	0.008x0.008	Centaurus	
NGC 5365A	13h 57m 46.1s	-44° 05' 49"	12.8	Galaxy	0.021x0.004	Centaurus	5365A
NGC 4812	12h 57m 53.3s	-41° 54' 39"	12.9	Galaxy	0.01x0.003	Centaurus	
NGC 4953-1	13h 07m 11.0s	-37° 40' 56"	12.9	Galaxy	0.01x0.0075	Centaurus	4953-1
NGC 4573	12h 38m 42.9s	-43° 43' 13"	13.0	Galaxy	0.020x0.015	Centaurus	
NGC 4603C	12h 41m 42.1s	-40° 51' 45"	13.0	Galaxy	0.014x0.003	Centaurus	

Table 193: Main objects visible on chart 186 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5090A	13h 20m 24.0s	-43° 44' 38"	13.0	Galaxy	0.014x0.005	Centaurus	5090A
IC 4359	14h 06m 31.4s	-45° 21' 20"	13.0	Galaxy	0.009x0.007	Centaurus	
IC 4390	14h 18m 08.2s	-45° 03' 40"	13.0	Galaxy	0.015x0.005	Centaurus	
NGC 4672	12h 47m 15.3s	-41° 48' 14"	13.1	Galaxy	0.018x0.005	Centaurus	
NGC 4767B	12h 55m 45.1s	-39° 57' 01"	13.1	Galaxy	0.010x0.007	Centaurus	4767B
NGC 4811	12h 57m 53.0s	-41° 53' 41"	13.1	Galaxy	0.010x0.007	Centaurus	
NGC 4988	13h 10m 56.4s	-43° 12' 04"	13.1	Galaxy	0.014x0.004	Centaurus	
NGC 5091	13h 22m 21.3s	-43° 48' 51"	13.1	Galaxy	0.015x0.004	Centaurus	
NGC 4603D	12h 43m 07.1s	-40° 55' 10"	13.2	Galaxy	0.012x0.009	Centaurus	
NGC 4622A	12h 44m 48.3s	-40° 48' 46"	13.2	Galaxy	0.005x0.004	Centaurus	4622A
NGC 5011C	13h 14m 14.3s	-43° 21' 39"	13.2	Galaxy	0.01x0.006	Centaurus	
NGC 5090B	13h 21m 20.9s	-43° 57' 33"	13.2	Galaxy	0.015x0.006	Centaurus	5090B
NGC 4616	12h 43m 15.7s	-40° 44' 25"	13.3	Galaxy	0.007x0.007	Centaurus	
NGC 4650A	12h 45m 48.4s	-40° 48' 46"	13.3	Galaxy	0.013x0.006	Centaurus	4650A
NGC 5365B	13h 59m 46.4s	-44° 03' 04"	13.3	Galaxy	0.013x0.003	Centaurus	5365B
NGC 4601	12h 41m 45.7s	-40° 59' 32"	13.4	Galaxy	0.014x0.004	Centaurus	
NGC 4603A	12h 40m 35.8s	-40° 50' 18"	13.4	Galaxy	0.015x0.005	Centaurus	4603A
NGC 4696E	12h 49m 25.9s	-41° 01' 60"	13.4	Galaxy	0.015x0.005	Centaurus	
NGC 4835A	12h 58m 14.7s	-46° 28' 27"	13.4	Galaxy	0.020x0.003	Centaurus	4835A
IC 4661	12h 46m 14.4s	-40° 55' 22"	13.5	Galaxy	0.01x0.003	Centaurus	
NGC 5011B	13h 14m 14.6s	-43° 20' 30"	13.5	Galaxy	0.006x0.003	Centaurus	5011B
NGC 4696A	12h 47m 55.2s	-41° 35' 44"	13.6	Galaxy	0.010x0.004	Centaurus	4696A
NGC 4696C	12h 49m 02.3s	-40° 55' 03"	13.7	Galaxy	0.015x0.002	Centaurus	
NGC 5011A	13h 13m 12.1s	-43° 24' 12"	13.7	Galaxy	0.013x0.005	Centaurus	5011A
NGC 4950	13h 06m 38.3s	-43° 35' 47"	13.9	Galaxy	0.007x0.005	Centaurus	
NGC 4622B	12h 44m 49.9s	-40° 48' 58"	14.2	Galaxy	0.009x0.005	Centaurus	4622B
IC 4387	14h 16m 09.8s	-44° 04' 24"	14.4	Galaxy	0.009x0.006	Centaurus	
IC 4389	14h 17m 53.2s	-40° 38' 09"	14.4	Galaxy	0.007x0.005	Centaurus	
NGC 4947A	13h 05m 20.8s	-35° 19' 28"	14.5	Galaxy	0.014x0.005	Centaurus	4947A
NGC 5062-2	13h 19m 20.3s	-35° 32' 23"	14.5	Galaxy	0.004x0.004	Centaurus	5062-2
NGC 4603B	12h 41m 28.7s	-41° 10' 07"	14.7	Galaxy	0.011x0.002	Centaurus	4603B
NGC 4953-2	13h 07m 08.8s	-37° 41' 35"	14.8	Galaxy	0.005x0.003	Centaurus	4953-2
NGC 5121A	13h 26m 34.7s	-37° 28' 17"	15.1	Galaxy	0.014x0.004	Centaurus	5121A
NGC 4767A	12h 54m 01.3s	-39° 55' 60"	15.7	Galaxy	0.006x0.002	Centaurus	4767A

7.188 Main objects visible on chart 187

Table 194: Main objects visible on chart 187

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5460	14h 08m 45.7s	-48° 23' 06"	5.6	Open cluster	0.291x0.291	Centaurus	
NGC 5882	15h 18m 04.0s	-45° 42' 51"	9.4	Planetary Nebula	0.002x0.002	Lupus	
NGC 5643	14h 33m 50.6s	-44° 15' 11"	10.0	Galaxy	0.039x0.035	Lupus	
IC 4406	14h 23m 35.4s	-44° 13' 55"	10.2	Planetary Nebula	0.014x0.014	Lupus	
NGC 5873	15h 14m 00.2s	-38° 11' 31"	11.0	Planetary Nebula	0.001x0.001	Lupus	

Table 194: Main objects visible on chart 187 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5483	14h 11m 32.6s	-43° 24' 33"	11.2	Galaxy	0.0325x0.03	Centaurus	
NGC 5530	14h 19m 35.4s	-43° 28' 09"	11.3	Galaxy	0.035x0.015	Lupus	
NGC 5365	13h 58m 57.3s	-44° 01' 09"	11.4	Galaxy	0.031x0.017	Centaurus	
IC 4441	14h 32m 48.2s	-43° 29' 50"	11.4	Galaxy	0.012x0.010	Lupus	
NGC 5786	15h 00m 07.1s	-42° 05' 08"	11.5	Galaxy	0.019x0.01	Centaurus	
NGC 5408	14h 04m 27.3s	-41° 27' 52"	11.6	Galaxy	0.015x0.008	Centaurus	
IC 4402	14h 22m 22.9s	-46° 22' 48"	11.6	Galaxy	0.035x0.007	Lupus	
IC 4451	14h 35m 43.4s	-36° 21' 51"	11.7	Galaxy	0.015x0.009	Centaurus	
IC 4464	14h 38m 55.8s	-36° 57' 21"	11.8	Galaxy	0.013x0.005	Centaurus	
NGC 5688	14h 40m 46.0s	-45° 05' 43"	11.9	Galaxy	0.025x0.015	Lupus	
NGC 5516	14h 17m 05.0s	-48° 11' 52"	12.0	Galaxy	0.015x0.01	Centaurus	
NGC 5670	14h 36m 47.1s	-46° 02' 40"	12.0	Galaxy	0.012x0.005	Lupus	
NGC 5489	14h 13m 09.7s	-46° 10' 22"	12.2	Galaxy	0.012x0.008	Centaurus	
NGC 5843	15h 08m 36.1s	-36° 23' 48"	12.2	Galaxy	0.015x0.009	Lupus	
IC 4367	14h 06m 42.0s	-39° 17' 18"	12.2	Galaxy	0.015x0.013	Centaurus	
IC 4421	14h 29m 37.8s	-37° 39' 48"	12.3	Galaxy	0.009x0.005	Centaurus	
IC 4386	14h 16m 10.6s	-44° 02' 40"	12.5	Galaxy	0.025x0.012	Centaurus	
IC 4362	14h 06m 28.7s	-41° 54' 17"	12.7	Galaxy	0.014x0.005	Centaurus	
NGC 5365A	13h 57m 46.1s	-44° 05' 49"	12.8	Galaxy	0.021x0.004	Centaurus	5365A
IC 4472	14h 41m 21.0s	-44° 23' 32"	12.9	Galaxy	0.018x0.004	Lupus	
IC 4359	14h 06m 31.4s	-45° 21' 20"	13.0	Galaxy	0.009x0.007	Centaurus	
IC 4390	14h 18m 08.2s	-45° 03' 40"	13.0	Galaxy	0.015x0.005	Centaurus	
IC 4523	15h 06m 22.4s	-43° 34' 44"	13.2	Galaxy	0.016x0.011	Lupus	
NGC 5365B	13h 59m 46.4s	-44° 03' 04"	13.3	Galaxy	0.013x0.003	Centaurus	5365B
IC 4527	15h 06m 52.4s	-42° 31' 04"	13.3	Galaxy	0.010x0.005	Lupus	
IC 4518	14h 58m 56.4s	-43° 12' 09"	13.5	Galaxy	0.018x0.005	Lupus	
IC 4445	14h 33m 05.1s	-46° 06' 51"	14.0	Galaxy	0.01x0.003	Lupus	
IC 4529	15h 07m 37.5s	-43° 18' 07"	14.2	Galaxy	0.005x0.005	Lupus	
IC 4518A	14h 58m 52.2s	-43° 12' 10"	14.3	Galaxy	0.007x0.002	Lupus	IC 4518A
IC 4387	14h 16m 09.8s	-44° 04' 24"	14.4	Galaxy	0.009x0.006	Centaurus	
IC 4389	14h 17m 53.2s	-40° 38' 09"	14.4	Galaxy	0.007x0.005	Centaurus	
IC 4432	14h 29m 57.1s	-39° 37' 54"	15.6	Galaxy	0.009x0.001	Centaurus	

7.189 Main objects visible on chart 188

Table 195: Main objects visible on chart 188

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6231	16h 55m 25.8s	-41° 51' 11"	2.6	Open cluster	0.116x0.116	Scorpius	CALDWELL 76
NGC 6124	16h 26m 31.5s	-40° 42' 25"	5.8	Open cluster	0.333x0.333	Scorpius	CALDWELL 75
NGC 6250	16h 59m 15.3s	-45° 57' 48"	5.9	Open cluster	0.133x0.133	Ara	
NGC 6242	16h 56m 45.0s	-39° 29' 40"	6.4	Open cluster	0.075x0.075	Scorpius	
NGC 6169	16h 35m 22.0s	-44° 04' 54"	6.6	Open cluster	0.1x0.1	Norma	
NGC 6178	16h 37m 09.2s	-45° 40' 57"	7.2	Open cluster	0.041x0.041	Scorpius	
NGC 6200	16h 45m 28.8s	-47° 30' 07"	7.4	Open cluster	0.125x0.125	Ara	

Table 195: Main objects visible on chart 188 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5986	15h 47m 14.4s	-37° 50' 26"	7.6	Globular cluster	0.08x0.08	Lupus	
NGC 6259	17h 02m 03.7s	-44° 40' 49"	8.0	Open cluster	0.125x0.125	Scorpius	
NGC 6204	16h 47m 27.8s	-47° 02' 37"	8.2	Open cluster	0.05x0.05	Ara	
NGC 6249	16h 59m 00.1s	-44° 49' 53"	8.2	Open cluster	0.05x0.05	Scorpius	
NGC 6192	16h 41m 37.5s	-43° 23' 57"	8.5	Open cluster	0.075x0.075	Scorpius	
Tr24	16h 58m 15.3s	-40° 41' 37"	8.5	Open cluster	0.333x0.333	Scorpius	
NGC 6139	16h 28m 53.6s	-38° 53' 15"	9.1	Globular cluster	0.068x0.068	Scorpius	
NGC 5882	15h 18m 04.0s	-45° 42' 51"	9.4	Planetary Nebula	0.002x0.002	Lupus	
NGC 6216	16h 50m 41.6s	-44° 45' 41"	10.1	Open cluster	0.033x0.033	Scorpius	
NGC 6153	16h 32m 44.9s	-40° 17' 26"	10.9	Planetary Nebula	0.003x0.003	Scorpius	
NGC 6256	17h 00m 45.5s	-37° 08' 48"	11.3	Globular cluster	0.034x0.034	Scorpius	
NGC 6072	16h 14m 09.3s	-36° 16' 28"	11.7	Planetary Nebula	0.013x0.013	Scorpius	
IC 4599	16h 20m 38.4s	-42° 18' 06"	12.3	Planetary Nebula	0.002x0.002	Scorpius	

7.190 Main objects visible on chart 189

Table 196: Main objects visible on chart 189

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6231	16h 55m 25.8s	-41° 51' 11"	2.6	Open cluster	0.116x0.116	Scorpius	CALDWELL 76
NGC 6475	17h 55m 02.1s	-34° 47' 45"	3.3	Open cluster	0.625x0.625	Scorpius	M7, Ptolemy's cluster
NGC 6281	17h 06m 00.8s	-37° 54' 41"	5.4	Open cluster	0.066x0.066	Scorpius	
NGC 6250	16h 59m 15.3s	-45° 57' 48"	5.9	Open cluster	0.133x0.133	Ara	
NGC 6322	17h 19m 43.1s	-42° 57' 06"	6.0	Open cluster	0.041x0.041	Scorpius	
NGC 6541	18h 09m 20.5s	-43° 42' 26"	6.3	Globular cluster	0.125x0.125	Corona Australis	CALDWELL 78
NGC 6242	16h 56m 45.0s	-39° 29' 40"	6.4	Open cluster	0.075x0.075	Scorpius	
NGC 6388	17h 37m 36.1s	-44° 44' 40"	6.8	Globular cluster	0.086x0.086	Scorpius	
NGC 6178	16h 37m 09.2s	-45° 40' 57"	7.2	Open cluster	0.041x0.041	Scorpius	
NGC 6441	17h 51m 26.4s	-37° 03' 16"	7.2	Globular cluster	0.08x0.08	Scorpius	
NGC 6200	16h 45m 28.8s	-47° 30' 07"	7.4	Open cluster	0.125x0.125	Ara	
Tr29	17h 42m 45.6s	-40° 09' 28"	7.5	Open cluster	0.083x0.083	Scorpius	
NGC 6352	17h 26m 51.4s	-48° 26' 13"	7.8	Globular cluster	0.075x0.075	Ara	CALDWELL 81
NGC 6259	17h 02m 03.7s	-44° 40' 49"	8.0	Open cluster	0.125x0.125	Scorpius	
NGC 6204	16h 47m 27.8s	-47° 02' 37"	8.2	Open cluster	0.05x0.05	Ara	
NGC 6249	16h 59m 00.1s	-44° 49' 53"	8.2	Open cluster	0.05x0.05	Scorpius	
NGC 6192	16h 41m 37.5s	-43° 23' 57"	8.5	Open cluster	0.075x0.075	Scorpius	
Tr24	16h 58m 15.3s	-40° 41' 37"	8.5	Open cluster	0.333x0.333	Scorpius	
NGC 6496	18h 00m 20.8s	-44° 15' 52"	8.6	Globular cluster	0.046x0.046	Scorpius	
NGC 6400	17h 41m 25.4s	-36° 58' 12"	8.8	Open cluster	0.1x0.1	Scorpius	
NGC 6268	17h 03m 18.8s	-39° 44' 45"	9.5	Open cluster	0.05x0.05	Scorpius	
NGC 6302	17h 14m 57.3s	-37° 07' 23"	9.6	Planetary Nebula	0.012x0.012	Scorpius	CALDWELL 69, Bug nebula
NGC 6216	16h 50m 41.6s	-44° 45' 41"	10.1	Open cluster	0.033x0.033	Scorpius	
NGC 6256	17h 00m 45.5s	-37° 08' 48"	11.3	Globular cluster	0.034x0.034	Scorpius	
NGC 6380	17h 35m 42.8s	-39° 04' 46"	11.5	Globular cluster	0.03x0.03	Scorpius	
NGC 6318	17h 17m 28.2s	-39° 26' 34"	11.8	Open cluster	0.041x0.041	Scorpius	

Table 196: Main objects visible on chart 189 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6337	17h 23m 29.9s	-38° 29' 57"	12.3	Planetary Nebula	0.007x0.007	Scorpius	
IC 1266	17h 46m 55.8s	-46° 05' 41"	12.3	Planetary Nebula	0.001x0.001	Ara	
IC 4637	17h 06m 26.0s	-40° 54' 30"	12.5	Planetary Nebula	0.003x0.003	Scorpius	
IC 4663	17h 46m 48.0s	-44° 54' 38"	12.5	Planetary Nebula	0.002x0.002	Scorpius	
IC 4699	18h 19m 52.2s	-45° 58' 30"	13.0	Planetary Nebula	0.001x0.001	Telescopium	

7.191 Main objects visible on chart 190

Table 197: Main objects visible on chart 190

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6541	18h 09m 20.5s	-43° 42' 26"	6.3	Globular cluster	0.125x0.125	Corona Australis	CALDWELL 78
NGC 6723	19h 00m 45.8s	-36° 36' 18"	6.8	Globular cluster	0.108x0.108	Sagittarius	
NGC 6496	18h 00m 20.8s	-44° 15' 52"	8.6	Globular cluster	0.046x0.046	Scorpius	
IC 1297	19h 18m 37.5s	-39° 34' 45"	10.7	Planetary Nebula	0.003x0.003	Corona Australis	
NGC 6768-1	19h 17m 47.2s	-40° 10' 32"	12.2	Galaxy	0.01x0.009	Corona Australis	6768-1
IC 4808	19h 02m 26.3s	-45° 17' 15"	12.3	Galaxy	0.016x0.006	Corona Australis	
NGC 6805	19h 37m 58.0s	-37° 30' 45"	12.8	Galaxy	0.009x0.007	Sagittarius	
NGC 6768-2	19h 17m 44.2s	-40° 11' 23"	12.9	Galaxy	0.005x0.003	Corona Australis	6768-2
NGC 6794	19h 29m 17.1s	-38° 52' 51"	12.9	Galaxy	0.014x0.011	Sagittarius	
IC 4699	18h 19m 52.2s	-45° 58' 30"	13.0	Planetary Nebula	0.001x0.001	Telescopium	
NGC 6806	19h 38m 20.1s	-42° 15' 16"	13.2	Galaxy	0.01x0.006	Sagittarius	
IC 4874	19h 37m 40.5s	-47° 13' 29"	13.9	Galaxy	0.01x0.005	Telescopium	
IC 4873	19h 36m 12.8s	-46° 05' 44"	14.2	Galaxy	0.01x0.006	Telescopium	
NGC 6729	19h 03m 08.1s	-36° 55' 51"	-	Nebula	0.208x0.166	Corona Australis	CALDWELL 68

7.192 Main objects visible on chart 191

Table 198: Main objects visible on chart 191

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6868	20h 11m 12.1s	-48° 19' 33"	10.7	Galaxy	0.03x0.023	Telescopium	
NGC 6902	20h 25m 41.7s	-43° 35' 38"	10.9	Galaxy	0.046x0.032	Sagittarius	
NGC 6861	20h 08m 37.7s	-48° 18' 59"	11.1	Galaxy	0.025x0.016	Telescopium	
NGC 6958	20h 49m 51.8s	-37° 55' 49"	11.4	Galaxy	0.020x0.015	Microscopium	
NGC 6909	20h 28m 54.7s	-46° 58' 01"	11.7	Galaxy	0.018x0.009	Telescopium	
IC 5011	20h 29m 43.1s	-35° 57' 59"	11.7	Galaxy	0.02x0.010	Microscopium	
NGC 6851	20h 04m 52.7s	-48° 13' 58"	11.8	Galaxy	0.016x0.012	Telescopium	
NGC 6893	20h 22m 06.9s	-48° 10' 53"	11.8	Galaxy	0.021x0.014	Telescopium	
IC 4931	20h 02m 02.0s	-38° 31' 28"	11.8	Galaxy	0.02x0.016	Sagittarius	
IC 4946	20h 25m 12.1s	-43° 56' 10"	11.8	Galaxy	0.02x0.008	Sagittarius	
NGC 6849	20h 07m 28.2s	-40° 08' 44"	12.1	Galaxy	0.015x0.009	Sagittarius	
NGC 6875	20h 14m 28.5s	-46° 06' 22"	12.1	Galaxy	0.02x0.011	Telescopium	

Table 198: Main objects visible on chart 191 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6870	20h 11m 28.4s	-48° 13' 57"	12.3	Galaxy	0.021x0.010	Telescopium	
NGC 6890	20h 19m 33.0s	-44° 44' 57"	12.3	Galaxy	0.013x0.010	Sagittarius	
NGC 6861D	20h 09m 37.4s	-48° 09' 31"	12.4	Galaxy	0.017x0.005	Telescopium	
NGC 7014	21h 09m 05.0s	-47° 06' 19"	12.4	Galaxy	0.014x0.011	Indus	
IC 4956	20h 12m 47.0s	-45° 32' 18"	12.4	Galaxy	0.014x0.013	Telescopium	
NGC 7012	21h 07m 57.2s	-44° 44' 29"	12.6	Galaxy	0.02x0.010	Microscopium	
NGC 6878	20h 15m 08.2s	-44° 28' 16"	12.7	Galaxy	0.013x0.010	Sagittarius	
IC 4926	20h 01m 24.1s	-38° 31' 40"	12.7	Galaxy	0.01x0.008	Sagittarius	
IC 4943	20h 07m 46.5s	-48° 19' 23"	12.7	Galaxy	0.011x0.009	Telescopium	
NGC 6805	19h 37m 58.0s	-37° 30' 45"	12.8	Galaxy	0.009x0.007	Sagittarius	
NGC 6794	19h 29m 17.1s	-38° 52' 51"	12.9	Galaxy	0.014x0.011	Sagittarius	
NGC 6845	20h 02m 15.6s	-47° 01' 09"	13.0	Galaxy	0.019x0.008	Telescopium	
NGC 6919	20h 32m 51.8s	-44° 09' 18"	13.0	Galaxy	0.013x0.01	Microscopium	
IC 4913	19h 57m 58.8s	-37° 16' 46"	13.0	Galaxy	0.009x0.005	Sagittarius	
NGC 6806	19h 38m 20.1s	-42° 15' 16"	13.2	Galaxy	0.01x0.006	Sagittarius	
NGC 6875A	20h 13m 12.2s	-46° 05' 18"	13.2	Galaxy	0.022x0.003	Telescopium	6875A
NGC 6878A	20h 14m 51.3s	-44° 45' 40"	13.2	Galaxy	0.015x0.006	Sagittarius	6878A
IC 4998	20h 23m 21.4s	-38° 15' 01"	13.2	Galaxy	0.013x0.01	Sagittarius	
IC 5049A	20h 48m 33.3s	-38° 21' 04"	13.3	Galaxy	0.008x0.006	Microscopium	IC 5049A
NGC 6983	20h 57m 55.4s	-43° 54' 58"	13.4	Galaxy	0.006x0.005	Microscopium	
NGC 6902B	20h 24m 20.9s	-43° 48' 36"	13.6	Galaxy	0.0125x0.01	Sagittarius	6902B
NGC 6918	20h 32m 02.9s	-47° 24' 46"	13.6	Galaxy	0.007x0.005	Indus	
NGC 6902A-1	20h 24m 14.7s	-44° 12' 42"	13.8	Galaxy	0.010x0.008	Sagittarius	6902A-1
NGC 6845B	20h 02m 22.7s	-47° 00' 31"	13.9	Galaxy	0.009x0.005	Telescopium	6845B
IC 4874	19h 37m 40.5s	-47° 13' 29"	13.9	Galaxy	0.01x0.005	Telescopium	
IC 5013	20h 29m 44.2s	-35° 58' 54"	14.0	Galaxy	0.005x0.005	Microscopium	
NGC 6851A	20h 07m 07.0s	-47° 55' 28"	14.1	Galaxy	0.010x0.005	Telescopium	6851A
NGC 6861B	20h 07m 23.9s	-48° 25' 18"	14.1	Galaxy	0.01x0.0025	Telescopium	6861B
NGC 6861C	20h 07m 59.8s	-48° 35' 47"	14.1	Galaxy	0.01x0.004	Telescopium	
IC 5049B	20h 48m 32.9s	-38° 20' 46"	14.1	Galaxy	0.006x0.004	Microscopium	IC 5049B
IC 4873	19h 36m 12.8s	-46° 05' 44"	14.2	Galaxy	0.01x0.006	Telescopium	
NGC 6861E	20h 12m 19.7s	-48° 38' 10"	14.3	Galaxy	0.011x0.002	Telescopium	
NGC 6861F	20h 12m 29.7s	-48° 13' 16"	14.7	Galaxy	0.013x0.002	Telescopium	
NGC 6845D	20h 02m 11.4s	-47° 02' 39"	14.8	Galaxy	0.005x0.001	Telescopium	
NGC 6902A-2	20h 24m 13.1s	-44° 12' 50"	14.8	Galaxy	0.005x0.004	Sagittarius	6902A-2
NGC 6851B	20h 06m 58.0s	-47° 55' 36"	15.3	Galaxy	0.009x0.001	Telescopium	6851B
NGC 6845C	20h 02m 14.4s	-47° 02' 00"	15.4	Galaxy	0.005x0.001	Telescopium	

7.193 Main objects visible on chart 192

Table 199: Main objects visible on chart 192

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7213	22h 10m 23.5s	-47° 04' 41"	10.1	Galaxy	0.025x0.023	Grus	
NGC 7049	21h 20m 13.1s	-48° 29' 05"	10.6	Galaxy	0.037x0.025	Indus	

Table 199: Main objects visible on chart 192 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7144	21h 53m 52.1s	-48° 10' 10"	10.8	Galaxy	0.030x0.03	Grus	
IC 5201	22h 22m 03.2s	-45° 56' 37"	10.8	Galaxy	0.070x0.032	Grus	
IC 5150	22h 00m 40.3s	-39° 17' 53"	11.0	Planetary Nebula	0.018x0.018	Grus	
NGC 7041	21h 17m 45.1s	-48° 17' 14"	11.2	Galaxy	0.03x0.0125	Indus	
NGC 7145	21h 54m 29.7s	-47° 47' 49"	11.2	Galaxy	0.020x0.019	Grus	
NGC 6958	20h 49m 51.8s	-37° 55' 49"	11.4	Galaxy	0.020x0.015	Microscopium	
IC 5181	22h 14m 28.1s	-45° 55' 42"	11.5	Galaxy	0.020x0.007	Grus	
NGC 7038	21h 16m 19.9s	-47° 08' 41"	11.6	Galaxy	0.025x0.011	Indus	
NGC 7079	21h 33m 44.2s	-43° 59' 14"	11.6	Galaxy	0.016x0.01	Grus	
IC 5105	21h 25m 30.1s	-40° 27' 37"	11.6	Galaxy	0.015x0.010	Microscopium	
NGC 7097	21h 41m 20.7s	-42° 27' 25"	11.7	Galaxy	0.015x0.01	Grus	
IC 5184	22h 17m 12.2s	-36° 45' 16"	11.8	Galaxy	0.02x0.01	Grus	
NGC 7166	22h 01m 39.3s	-43° 18' 11"	11.9	Galaxy	0.02x0.0075	Grus	
IC 5186	22h 19m 49.5s	-36° 42' 40"	11.9	Galaxy	0.015x0.01	Grus	
NGC 7232	22h 16m 43.8s	-45° 45' 37"	12.0	Galaxy	0.021x0.008	Grus	
NGC 7070	21h 31m 34.2s	-43° 00' 25"	12.3	Galaxy	0.02x0.015	Grus	
NGC 7070A	21h 32m 55.7s	-42° 46' 01"	12.3	Galaxy	0.014x0.013	Grus	7070A
NGC 7014	21h 09m 05.0s	-47° 06' 19"	12.4	Galaxy	0.014x0.011	Indus	
NGC 7162A	22h 01m 42.2s	-43° 03' 17"	12.5	Galaxy	0.021x0.018	Grus	7162A
NGC 7233	22h 16m 55.2s	-45° 45' 22"	12.5	Galaxy	0.014x0.010	Grus	
IC 5170	22h 13m 36.6s	-47° 07' 55"	12.5	Galaxy	0.015x0.006	Grus	
NGC 7012	21h 07m 57.2s	-44° 44' 29"	12.6	Galaxy	0.02x0.010	Microscopium	
NGC 7057	21h 26m 07.6s	-42° 22' 55"	12.6	Galaxy	0.011x0.008	Microscopium	
NGC 7091	21h 35m 13.6s	-36° 34' 23"	12.6	Galaxy	0.017x0.014	Grus	
NGC 7107	21h 43m 35.3s	-44° 42' 33"	12.6	Galaxy	0.017x0.012	Grus	
NGC 7118	21h 47m 20.0s	-48° 16' 11"	12.6	Galaxy	0.011x0.009	Grus	
IC 5171	22h 12m 03.3s	-45° 59' 34"	12.6	Galaxy	0.025x0.004	Grus	
NGC 7075	21h 32m 39.8s	-38° 32' 17"	12.7	Galaxy	0.01x0.0075	Grus	
NGC 7162	22h 00m 45.5s	-43° 13' 03"	12.7	Galaxy	0.023x0.008	Grus	NGC 7162A
NGC 7117	21h 46m 57.3s	-48° 20' 15"	12.8	Galaxy	0.011x0.006	Grus	
NGC 7119A	21h 47m 24.9s	-46° 25' 54"	12.8	Galaxy	0.01x0.0075	Grus	7119A
IC 5105A	21h 26m 38.8s	-40° 11' 46"	12.8	Galaxy	0.017x0.009	Microscopium	IC 5105A
NGC 7060	21h 27m 02.5s	-42° 19' 56"	12.9	Galaxy	0.016x0.01	Microscopium	
IC 5105B	21h 27m 08.4s	-40° 45' 23"	12.9	Galaxy	0.010x0.004	Microscopium	IC 5105B
IC 5169	22h 11m 13.4s	-35° 59' 59"	12.9	Galaxy	0.015x0.004	Piscis Austrinus	
NGC 7087	21h 35m 41.0s	-40° 44' 15"	13.0	Galaxy	0.009x0.005	Grus	
NGC 7119B	21h 47m 24.2s	-46° 26' 09"	13.0	Galaxy	0.005x0.002	Grus	7119B
NGC 7232A	22h 14m 47.5s	-45° 48' 14"	13.0	Galaxy	0.017x0.003	Grus	7232A
IC 5128	21h 44m 17.9s	-38° 53' 06"	13.0	Galaxy	0.009x0.005	Grus	
IC 5049A	20h 48m 33.3s	-38° 21' 04"	13.3	Galaxy	0.008x0.006	Microscopium	IC 5049A
NGC 6983	20h 57m 55.4s	-43° 54' 58"	13.4	Galaxy	0.006x0.005	Microscopium	
NGC 7072	21h 31m 46.0s	-43° 04' 22"	13.5	Galaxy	0.007x0.005	Grus	
IC 5212	22h 24m 33.2s	-37° 56' 46"	13.5	Galaxy	0.009x0.005	Grus	
NGC 7169	22h 03m 56.9s	-47° 36' 36"	13.6	Galaxy	0.008x0.004	Grus	
NGC 7232B	22h 16m 58.5s	-45° 41' 25"	13.6	Galaxy	0.013x0.012	Grus	7232B
IC 5175	22h 13m 52.0s	-38° 02' 16"	13.6	Galaxy	0.011x0.004	Grus	

Table 199: Main objects visible on chart 192 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5224	22h 31m 34.8s	-45° 54' 11"	13.6	Galaxy	0.012x0.003	Grus	
NGC 7072A	21h 31m 34.6s	-43° 07' 21"	13.9	Galaxy	0.006x0.005	Grus	7072A
IC 5199	22h 20m 36.0s	-37° 26' 36"	13.9	Galaxy	0.012x0.001	Grus	
IC 5174	22h 13m 48.3s	-38° 04' 56"	14.0	Galaxy	0.017x0.009	Grus	
NGC 7041A	21h 19m 10.1s	-48° 19' 33"	14.1	Galaxy	0.013x0.011	Indus	7041A
NGC 7178	22h 03m 28.9s	-35° 42' 12"	14.1	Galaxy	0.009x0.004	Piscis Austrinus	
IC 5049B	20h 48m 32.9s	-38° 20' 46"	14.1	Galaxy	0.006x0.004	Microscopium	IC 5049B
NGC 7097A	21h 41m 45.8s	-42° 23' 52"	14.3	Galaxy	0.005x0.003	Grus	7097A
NGC 7038A	21h 16m 27.6s	-47° 32' 14"	14.6	Galaxy	0.009x0.005	Indus	7038A
IC 5209	22h 24m 12.1s	-37° 54' 08"	14.8	Galaxy	0.005x0.004	Grus	
NGC 7041B	21h 19m 02.5s	-48° 18' 51"	15.0	Galaxy	0.004x0.002	Indus	7041B

7.194 Main objects visible on chart 193

Table 200: Main objects visible on chart 193

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1459	22h 58m 10.5s	-36° 21' 57"	10.0	Galaxy	0.043x0.015	Grus	
NGC 7213	22h 10m 23.5s	-47° 04' 41"	10.1	Galaxy	0.025x0.023	Grus	
NGC 7410	22h 56m 01.5s	-39° 33' 57"	10.3	Galaxy	0.043x0.013	Grus	
NGC 7424	22h 58m 19.4s	-40° 58' 27"	10.5	Galaxy	0.079x0.067	Grus	
IC 5267	22h 58m 15.1s	-43° 17' 57"	10.5	Galaxy	0.043x0.032	Grus	
IC 5332	23h 35m 24.7s	-36° 00' 06"	10.5	Galaxy	0.074x0.068	Sculptor	
NGC 7552	23h 17m 10.1s	-42° 29' 11"	10.6	Galaxy	0.028x0.022	Grus	Grus quartet
NGC 7582	23h 19m 22.8s	-42° 16' 16"	10.6	Galaxy	0.041x0.019	Grus	
IC 5201	22h 22m 03.2s	-45° 56' 37"	10.8	Galaxy	0.070x0.032	Grus	
NGC 7418	22h 57m 36.2s	-36° 55' 57"	11.1	Galaxy	0.029x0.021	Grus	
NGC 7713	23h 37m 12.6s	-37° 50' 21"	11.2	Galaxy	0.037x0.015	Sculptor	
NGC 7531	23h 15m 48.2s	-43° 30' 02"	11.3	Galaxy	0.037x0.014	Grus	
IC 5325	23h 29m 41.3s	-41° 14' 03"	11.3	Galaxy	0.023x0.020	Phoenix	
NGC 7412	22h 56m 47.5s	-42° 32' 42"	11.4	Galaxy	0.031x0.023	Grus	
NGC 7462	23h 03m 46.6s	-40° 44' 18"	11.4	Galaxy	0.035x0.006	Grus	
NGC 7496	23h 10m 47.1s	-43° 19' 47"	11.4	Galaxy	0.027x0.025	Grus	
IC 5273	23h 00m 26.9s	-37° 36' 31"	11.4	Galaxy	0.021x0.014	Grus	
IC 5328	23h 34m 14.4s	-44° 54' 58"	11.4	Galaxy	0.02x0.0125	Phoenix	
NGC 7590	23h 19m 53.8s	-42° 08' 26"	11.5	Galaxy	0.021x0.008	Grus	
NGC 7599	23h 20m 20.0s	-42° 09' 34"	11.5	Galaxy	0.036x0.011	Grus	
IC 5181	22h 14m 28.1s	-45° 55' 42"	11.5	Galaxy	0.020x0.007	Grus	
NGC 7456	23h 03m 10.4s	-39° 28' 19"	11.8	Galaxy	0.045x0.013	Grus	
NGC 7484	23h 08m 04.2s	-36° 10' 31"	11.8	Galaxy	0.015x0.014	Sculptor	
IC 5184	22h 17m 12.2s	-36° 45' 16"	11.8	Galaxy	0.02x0.01	Grus	
IC 5267B	22h 57m 58.5s	-43° 39' 50"	11.8	Galaxy	0.015x0.006	Grus	IC 5267B
NGC 7421	22h 57m 54.9s	-37° 14' 55"	11.9	Galaxy	0.016x0.015	Grus	
NGC 7744	23h 45m 56.0s	-42° 48' 36"	11.9	Galaxy	0.018x0.015	Phoenix	
IC 5186	22h 19m 49.5s	-36° 42' 40"	11.9	Galaxy	0.015x0.01	Grus	

Table 200: Main objects visible on chart 193 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5240	22h 42m 55.4s	-44° 40' 21"	11.9	Galaxy	0.023x0.015	Grus	
NGC 7232	22h 16m 43.8s	-45° 45' 37"	12.0	Galaxy	0.021x0.008	Grus	
NGC 7368	22h 46m 33.0s	-39° 14' 49"	12.0	Galaxy	0.024x0.005	Grus	
NGC 7632	23h 22m 59.8s	-42° 22' 53"	12.1	Galaxy	0.02x0.01	Grus	
IC 5269	22h 58m 43.4s	-35° 55' 48"	12.2	Galaxy	0.014x0.006	Piscis Austrinus	
IC 5270	22h 58m 55.0s	-35° 45' 40"	12.2	Galaxy	0.026x0.005	Piscis Austrinus	
IC 5269B	22h 57m 36.6s	-36° 09' 13"	12.4	Galaxy	0.033x0.005	Piscis Austrinus	IC 5269B
NGC 7233	22h 16m 55.2s	-45° 45' 22"	12.5	Galaxy	0.014x0.010	Grus	
NGC 7713A	23h 38m 05.9s	-37° 36' 55"	12.5	Galaxy	0.015x0.011	Sculptor	7713A
IC 5170	22h 13m 36.6s	-47° 07' 55"	12.5	Galaxy	0.015x0.006	Grus	
IC 5264	22h 57m 52.9s	-36° 27' 29"	12.5	Galaxy	0.02x0.004	Grus	
NGC 7307	22h 34m 55.4s	-40° 50' 29"	12.6	Galaxy	0.028x0.008	Grus	
IC 5171	22h 12m 03.3s	-45° 59' 34"	12.6	Galaxy	0.025x0.004	Grus	
NGC 7404	22h 55m 19.5s	-39° 13' 07"	12.8	Galaxy	0.012x0.006	Grus	
NGC 7476	23h 06m 12.6s	-43° 00' 02"	12.8	Galaxy	0.011x0.008	Grus	
NGC 7400	22h 55m 23.0s	-45° 15' 04"	12.9	Galaxy	0.022x0.004	Grus	
IC 5169	22h 11m 13.4s	-35° 59' 59"	12.9	Galaxy	0.015x0.004	Piscis Austrinus	
NGC 7232A	22h 14m 47.5s	-45° 48' 14"	13.0	Galaxy	0.017x0.003	Grus	7232A
NGC 7289	22h 30m 22.0s	-35° 22' 46"	13.1	Galaxy	0.010x0.008	Piscis Austrinus	
NGC 7418A	22h 57m 41.4s	-36° 40' 35"	13.1	Galaxy	0.029x0.015	Grus	7418A
NGC 7545	23h 16m 31.3s	-38° 26' 12"	13.1	Galaxy	0.009x0.005	Grus	
NGC 7297	22h 32m 12.6s	-37° 44' 03"	13.2	Galaxy	0.007x0.005	Grus	
NGC 7382	22h 51m 24.5s	-36° 45' 40"	13.3	Galaxy	0.01x0.003	Grus	
IC 5267A	22h 56m 57.9s	-43° 20' 16"	13.4	Galaxy	0.018x0.006	Grus	IC 5267A
IC 5269A	22h 56m 55.8s	-36° 15' 05"	13.4	Galaxy	0.010x0.007	Grus	IC 5269A
IC 5212	22h 24m 33.2s	-37° 56' 46"	13.5	Galaxy	0.009x0.005	Grus	
IC 5269C	23h 01m 47.9s	-35° 16' 22"	13.5	Galaxy	0.017x0.007	Piscis Austrinus	
NGC 7169	22h 03m 56.9s	-47° 36' 36"	13.6	Galaxy	0.008x0.004	Grus	
NGC 7232B	22h 16m 58.5s	-45° 41' 25"	13.6	Galaxy	0.013x0.012	Grus	7232B
NGC 7322	22h 38m 53.1s	-37° 08' 15"	13.6	Galaxy	0.007x0.005	Grus	
IC 5175	22h 13m 52.0s	-38° 02' 16"	13.6	Galaxy	0.011x0.004	Grus	
IC 5224	22h 31m 34.8s	-45° 54' 11"	13.6	Galaxy	0.012x0.003	Grus	
NGC 7279	22h 28m 14.6s	-35° 02' 52"	13.8	Galaxy	0.01x0.006	Piscis Austrinus	
IC 5328A	23h 34m 11.7s	-44° 55' 31"	13.8	Galaxy	0.004x0.001	Phoenix	IC 5328A
NGC 7412A	22h 58m 08.3s	-42° 42' 31"	13.9	Galaxy	0.029x0.004	Grus	7412A
NGC 7658B	23h 27m 23.1s	-39° 07' 40"	13.9	Galaxy	0.006x0.002	Grus	7658B
IC 5199	22h 20m 36.0s	-37° 26' 36"	13.9	Galaxy	0.012x0.001	Grus	
NGC 7496A	23h 13m 23.4s	-43° 40' 50"	14.0	Galaxy	0.011x0.005	Grus	7496A
IC 5174	22h 13m 48.3s	-38° 04' 56"	14.0	Galaxy	0.017x0.009	Grus	
NGC 7299	22h 32m 35.3s	-37° 43' 00"	14.1	Galaxy	0.005x0.005	Grus	
NGC 7355	22h 44m 31.6s	-36° 46' 14"	14.3	Galaxy	0.008x0.003	Grus	
NGC 7658A	23h 27m 22.8s	-39° 06' 60"	14.3	Galaxy	0.005x0.001	Grus	7658A
IC 5328B	23h 34m 56.8s	-45° 06' 33"	14.3	Galaxy	0.014x0.004	Phoenix	IC 5328B
IC 5209	22h 24m 12.1s	-37° 54' 08"	14.8	Galaxy	0.005x0.004	Grus	
NGC 7496B	23h 13m 21.1s	-43° 40' 46"	15.2	Galaxy	0.003x0.001	Grus	7496B

7.195 Main objects visible on chart 194

Table 201: Main objects visible on chart 194

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7676	23h 30m 02.5s	-59° 37' 02"	11.5	Galaxy	0.013x0.007	Tucana	
NGC 7689	23h 34m 15.5s	-53° 59' 41"	11.5	Galaxy	0.023x0.015	Phoenix	
NGC 7796	23h 59m 55.1s	-55° 21' 28"	11.5	Galaxy	0.018x0.015	Phoenix	
NGC 4349	01h 12m 57.6s	-58° 09' 07"	12.0	Galaxy	0.018x0.01	Tucana	
NGC 7702	23h 36m 27.9s	-55° 54' 44"	12.2	Galaxy	0.0175x0.01	Phoenix	
NGC 3122	00h 57m 03.3s	-52° 41' 09"	12.4	Galaxy	0.011x0.009	Phoenix	
NGC 7690	23h 34m 01.3s	-51° 35' 56"	12.4	Galaxy	0.017x0.006	Phoenix	
NGC 2384	00h 44m 15.5s	-50° 05' 04"	12.5	Galaxy	0.016x0.013	Phoenix	
NGC 3239	00h 57m 29.2s	-52° 52' 43"	12.6	Galaxy	0.010x0.009	Phoenix	
NGC 5316	00h 15m 35.6s	-60° 13' 43"	12.6	Galaxy	0.016x0.011	Tucana	
NGC 7650	23h 26m 21.9s	-57° 41' 31"	12.7	Galaxy	0.011x0.009	Tucana	
IC 1605	00h 58m 25.9s	-48° 48' 21"	12.9	Galaxy	0.013x0.010	Phoenix	
NGC 1199	00h 27m 48.5s	-56° 52' 42"	13.0	Galaxy	0.008x0.008	Phoenix	
IC 2157	00h 41m 37.8s	-56° 06' 56"	13.0	Galaxy	0.009x0.007	Phoenix	
NGC 2516	00h 10m 53.0s	-56° 55' 13"	13.0	Galaxy	0.011x0.006	Phoenix	CALDWELL 96
NGC 925	00h 22m 24.1s	-48° 31' 30"	13.1	Galaxy	0.015x0.007	Phoenix	
NGC 4406	01h 13m 31.6s	-58° 11' 15"	13.2	Galaxy	0.01x0.005	Tucana	M86
NGC 2129	00h 41m 02.4s	-56° 03' 14"	13.3	Galaxy	0.008x0.007	Phoenix	
NGC 3283	00h 57m 44.8s	-52° 49' 35"	13.4	Galaxy	0.021x0.004	Phoenix	
NGC 7652	23h 26m 38.6s	-57° 47' 18"	13.5	Galaxy	0.01x0.005	Tucana	
NGC 891	00h 22m 17.1s	-48° 33' 56"	13.5	Galaxy	0.01x0.005	Phoenix	CALDWELL 23
NGC 1596	00h 35m 25.4s	-55° 41' 26"	13.7	Galaxy	0.011x0.003	Phoenix	
NGC 3766	00h 12m 16.4s	-56° 51' 25"	13.7	Galaxy	0.009x0.005	Phoenix	CALDWELL 97
NGC 2808	00h 11m 18.8s	-56° 53' 20"	13.8	Galaxy	0.006x0.005	Phoenix	
IC 348	01h 01m 38.7s	-53° 08' 54"	13.8	Galaxy	0.006x0.005	Phoenix	
NGC 3114	00h 11m 32.1s	-56° 53' 10"	13.9	Galaxy	0.010x0.005	Phoenix	
NGC 7470	23h 06m 16.0s	-50° 00' 51"	13.9	Galaxy	0.011x0.007	Grus	
NGC 7657	23h 27m 47.9s	-57° 42' 22"	14.1	Galaxy	0.011x0.003	Tucana	
IC 1597	00h 54m 18.5s	-58° 00' 35"	14.2	Galaxy	0.014x0.002	Tucana	
NGC 877	00h 22m 07.0s	-48° 31' 45"	14.3	Galaxy	0.007x0.005	Phoenix	
NGC 884	00h 22m 14.8s	-48° 32' 24"	14.4	Galaxy	0.006x0.004	Phoenix	
IC 1594	00h 54m 34.4s	-47° 33' 01"	14.4	Galaxy	0.010x0.003	Phoenix	
434A	01h 13m 13.4s	-58° 06' 45"	14.9	Galaxy	0.01x0.0025	Tucana	434A

7.196 Main objects visible on chart 195

Table 202: Main objects visible on chart 195

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6853	01h 48m 23.8s	-52° 40' 22"	11.0	Galaxy	0.03x0.025	Eridanus	M27, Dumbbell nebula
NGC 484	01h 20m 16.8s	-58° 25' 49"	11.1	Galaxy	0.015x0.011	Tucana	
NGC 782	01h 58m 16.7s	-57° 42' 13"	11.9	Galaxy	0.02x0.0175	Eridanus	

Table 202: Main objects visible on chart 195 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4349	01h 12m 57.6s	-58° 09' 07"	12.0	Galaxy	0.018x0.01	Tucana	
454-1	01h 15m 05.8s	-55° 18' 20"	12.2	Galaxy	0.014x0.012	Phoenix	454-1
NGC 6920	01h 49m 25.1s	-48° 33' 32"	12.3	Galaxy	0.017x0.015	Phoenix	
NGC 3122	00h 57m 03.3s	-52° 41' 09"	12.4	Galaxy	0.011x0.009	Phoenix	
NGC 1031	02h 37m 12.4s	-54° 46' 53"	12.5	Galaxy	0.015x0.009	Horologium	
NGC 2384	00h 44m 15.5s	-50° 05' 04"	12.5	Galaxy	0.016x0.013	Phoenix	
745-1	01h 54m 45.7s	-56° 36' 20"	12.5	Galaxy	0.010x0.006	Eridanus	745-1
NGC 3239	00h 57m 29.2s	-52° 52' 43"	12.6	Galaxy	0.010x0.009	Phoenix	
IC 4665	01h 17m 55.6s	-58° 48' 55"	12.7	Galaxy	0.014x0.012	Tucana	
NGC 1096	02h 44m 17.5s	-59° 50' 18"	12.8	Galaxy	0.015x0.015	Horologium	
IC 1605	00h 58m 25.9s	-48° 48' 21"	12.9	Galaxy	0.013x0.010	Phoenix	
IC 2157	00h 41m 37.8s	-56° 06' 56"	13.0	Galaxy	0.009x0.007	Phoenix	
NGC 888	02h 17m 59.1s	-59° 46' 40"	13.0	Galaxy	0.006x0.006	Horologium	
NGC 1025	02h 36m 53.7s	-54° 47' 09"	13.1	Galaxy	0.007x0.004	Horologium	
NGC 4406	01h 13m 31.6s	-58° 11' 15"	13.2	Galaxy	0.01x0.005	Tucana	M86
NGC 795	02h 00m 27.0s	-55° 44' 16"	13.2	Galaxy	0.01x0.005	Eridanus	
NGC 2129	00h 41m 02.4s	-56° 03' 14"	13.3	Galaxy	0.008x0.007	Phoenix	
NGC 3283	00h 57m 44.8s	-52° 49' 35"	13.4	Galaxy	0.021x0.004	Phoenix	
NGC 5761	01h 29m 41.2s	-51° 30' 19"	13.4	Galaxy	0.008x0.006	Phoenix	
NGC 852	02h 09m 31.0s	-56° 39' 07"	13.4	Galaxy	0.010x0.009	Eridanus	
IC 1615	01h 04m 53.9s	-51° 02' 11"	13.4	Galaxy	0.010x0.005	Phoenix	
IC 1650	01h 13m 05.2s	-50° 18' 24"	13.6	Galaxy	0.010x0.005	Phoenix	
NGC 1596	00h 35m 25.4s	-55° 41' 26"	13.7	Galaxy	0.011x0.003	Phoenix	
454-2	01h 15m 09.0s	-55° 18' 08"	13.7	Galaxy	0.008x0.004	Phoenix	454-2
IC 1617	01h 05m 03.8s	-50° 56' 10"	13.7	Galaxy	0.011x0.005	Phoenix	
IC 348	01h 01m 38.7s	-53° 08' 54"	13.8	Galaxy	0.006x0.005	Phoenix	
IC 1649	01h 12m 35.2s	-55° 45' 41"	13.9	Galaxy	0.014x0.002	Phoenix	
745-2	01h 54m 49.3s	-56° 35' 50"	14.0	Galaxy	0.005x0.002	Eridanus	745-2
NGC 7541	01h 54m 58.6s	-56° 40' 23"	14.2	Galaxy	0.005x0.004	Eridanus	
IC 1597	00h 54m 18.5s	-58° 00' 35"	14.2	Galaxy	0.014x0.002	Tucana	
IC 1594	00h 54m 34.4s	-47° 33' 01"	14.4	Galaxy	0.010x0.003	Phoenix	
434A	01h 13m 13.4s	-58° 06' 45"	14.9	Galaxy	0.01x0.0025	Tucana	434A
745-3	01h 54m 45.6s	-56° 35' 58"	15.0	Galaxy	0.001x0.001	Eridanus	

7.197 Main objects visible on chart 196

Table 203: Main objects visible on chart 196

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1261	03h 12m 44.9s	-55° 08' 58"	8.3	Globular cluster	0.056x0.056	Horologium	CALDWELL 87
NGC 1553	04h 16m 34.2s	-55° 44' 08"	9.4	Galaxy	0.037x0.023	Dorado	
NGC 1566	04h 20m 24.8s	-54° 53' 42"	9.7	Galaxy	0.068x0.054	Dorado	
NGC 1549	04h 16m 08.8s	-55° 32' 51"	9.8	Galaxy	0.040x0.034	Dorado	
NGC 1433	03h 42m 35.1s	-47° 09' 55"	9.9	Galaxy	0.054x0.049	Horologium	
NGC 1574	04h 22m 20.3s	-56° 55' 59"	10.4	Galaxy	0.033x0.03	Reticulum	

Table 203: Main objects visible on chart 196 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1617	04h 32m 03.5s	-54° 33' 52"	10.4	Galaxy	0.035x0.017	Dorado	
NGC 1543	04h 13m 04.5s	-57° 41' 31"	10.5	Galaxy	0.031x0.023	Reticulum	
NGC 1533	04h 10m 15.5s	-56° 04' 18"	10.7	Galaxy	0.023x0.019	Dorado	
NGC 1527	04h 08m 55.9s	-47° 50' 60"	10.8	Galaxy	0.032x0.012	Horologium	
NGC 1546	04h 15m 00.0s	-56° 00' 57"	10.9	Galaxy	0.026x0.015	Dorado	
NGC 1515	04h 04m 28.4s	-54° 03' 05"	11.2	Galaxy	0.045x0.010	Dorado	
NGC 1596	04h 28m 01.7s	-54° 59' 14"	11.2	Galaxy	0.030x0.007	Dorado	
NGC 1567	04h 21m 39.6s	-48° 12' 47"	11.5	Galaxy	0.010x0.010	Caelum	
IC 1954	03h 32m 02.0s	-51° 50' 38"	11.6	Galaxy	0.025x0.012	Horologium	
NGC 1494	03h 58m 14.1s	-48° 51' 31"	11.7	Galaxy	0.027x0.016	Horologium	
NGC 1249	03h 10m 32.6s	-53° 16' 07"	11.8	Galaxy	0.039x0.020	Horologium	
IC 2000	03h 49m 39.8s	-48° 48' 15"	11.9	Galaxy	0.034x0.006	Horologium	
IC 2056	04h 16m 42.4s	-60° 09' 46"	11.9	Galaxy	0.015x0.013	Reticulum	
NGC 1031	02h 37m 12.4s	-54° 46' 53"	12.5	Galaxy	0.015x0.009	Horologium	
NGC 1536	04h 11m 23.3s	-56° 26' 12"	12.5	Galaxy	0.017x0.012	Reticulum	
IC 1933	03h 26m 10.5s	-52° 43' 20"	12.5	Galaxy	0.018x0.009	Horologium	
NGC 1483	03h 53m 20.8s	-47° 25' 32"	12.7	Galaxy	0.013x0.011	Horologium	
IC 2082	04h 29m 32.8s	-53° 47' 21"	12.7	Galaxy	0.010x0.006	Dorado	
NGC 1096	02h 44m 17.5s	-59° 50' 18"	12.8	Galaxy	0.015x0.015	Horologium	
IC 1959	03h 33m 44.1s	-50° 21' 09"	12.8	Galaxy	0.024x0.005	Horologium	
NGC 1581	04h 25m 08.9s	-54° 54' 07"	12.9	Galaxy	0.015x0.005	Dorado	
IC 1914	03h 19m 58.9s	-49° 32' 05"	12.9	Galaxy	0.028x0.013	Horologium	
NGC 1136	02h 51m 25.7s	-54° 54' 09"	13.0	Galaxy	0.011x0.01	Horologium	
NGC 1311	03h 20m 38.3s	-52° 07' 23"	13.0	Galaxy	0.025x0.006	Horologium	
NGC 1356	03h 31m 13.0s	-50° 14' 55"	13.0	Galaxy	0.014x0.007	Horologium	
NGC 1602	04h 28m 18.1s	-55° 01' 03"	13.0	Galaxy	0.015x0.009	Dorado	
NGC 1025	02h 36m 53.7s	-54° 47' 09"	13.1	Galaxy	0.007x0.004	Horologium	
NGC 1556	04h 18m 14.1s	-50° 07' 16"	13.1	Galaxy	0.014x0.004	Dorado	
NGC 1578	04h 24m 14.4s	-51° 33' 31"	13.1	Galaxy	0.01x0.009	Dorado	
IC 1949	03h 31m 27.0s	-47° 55' 09"	13.1	Galaxy	0.009x0.007	Horologium	
IC 2085	04h 31m 48.6s	-54° 22' 42"	13.1	Galaxy	0.019x0.003	Dorado	
IC 2058	04h 18m 17.8s	-55° 53' 16"	13.2	Galaxy	0.024x0.003	Dorado	
IC 2081	04h 29m 26.0s	-53° 34' 30"	13.3	Galaxy	0.01x0.006	Dorado	
NGC 1506	04h 00m 49.7s	-52° 31' 24"	13.4	Galaxy	0.01x0.0075	Dorado	
IC 1997	03h 45m 13.8s	-59° 04' 55"	13.4	Galaxy	0.01x0.005	Reticulum	
NGC 1463	03h 46m 36.4s	-59° 45' 18"	13.5	Galaxy	0.010x0.01	Reticulum	
IC 1989	03h 42m 25.3s	-50° 54' 04"	13.5	Galaxy	0.009x0.005	Horologium	
NGC 1522	04h 06m 35.2s	-52° 37' 18"	13.6	Galaxy	0.01x0.006	Dorado	
IC 1940	03h 28m 13.0s	-52° 04' 40"	13.7	Galaxy	0.007x0.007	Horologium	
IC 2010	03h 52m 18.3s	-59° 52' 34"	13.7	Galaxy	0.01x0.004	Reticulum	
IC 2050	04h 14m 22.5s	-53° 25' 52"	13.7	Galaxy	0.009x0.006	Dorado	
IC 2065	04h 21m 51.1s	-55° 53' 28"	13.7	Galaxy	0.01x0.003	Dorado	
NGC 1500	03h 58m 42.5s	-52° 16' 40"	13.8	Galaxy	0.009x0.007	Dorado	
IC 2009	03h 54m 06.4s	-48° 56' 19"	13.8	Galaxy	0.015x0.01	Horologium	
IC 2017	03h 56m 59.2s	-59° 20' 35"	13.8	Galaxy	0.009x0.005	Reticulum	
IC 2037	04h 08m 39.6s	-58° 42' 15"	13.8	Galaxy	0.013x0.002	Reticulum	

Table 203: Main objects visible on chart 196 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2070	04h 24m 55.8s	-57° 56' 26"	13.8	Galaxy	0.011x0.007	Dorado	
IC 2073	04h 26m 59.3s	-53° 08' 55"	13.8	Galaxy	0.01x0.004	Dorado	
IC 2033	04h 07m 41.0s	-53° 38' 02"	13.9	Galaxy	0.01x0.005	Dorado	
IC 2079	04h 28m 55.9s	-53° 41' 57"	13.9	Galaxy	0.01x0.003	Dorado	
IC 1908-1	03h 15m 34.8s	-54° 45' 12"	14.0	Galaxy	0.010x0.007	Horologium	IC 1908-1
IC 2060	04h 18m 15.9s	-56° 34' 23"	14.0	Galaxy	0.012x0.009	Reticulum	
IC 2083	04h 31m 08.9s	-53° 56' 34"	14.0	Galaxy	0.009x0.005	Dorado	
IC 1925	03h 25m 57.5s	-51° 12' 15"	14.1	Galaxy	0.006x0.005	Horologium	
IC 1937	03h 27m 21.3s	-48° 38' 27"	14.1	Galaxy	0.007x0.004	Horologium	
IC 2032	04h 07m 27.9s	-55° 16' 33"	14.1	Galaxy	0.011x0.006	Dorado	
IC 1980	03h 37m 23.1s	-57° 54' 54"	14.2	Galaxy	0.009x0.004	Reticulum	
IC 2004	03h 52m 17.2s	-49° 21' 58"	14.2	Galaxy	0.006x0.005	Horologium	
IC 2028	04h 01m 46.0s	-52° 39' 29"	14.2	Galaxy	0.006x0.005	Dorado	
IC 2039	04h 09m 26.4s	-55° 57' 52"	14.2	Galaxy	0.007x0.005	Dorado	
IC 2049	04h 12m 24.6s	-58° 30' 44"	14.2	Galaxy	0.008x0.007	Reticulum	
IC 1935	03h 26m 46.2s	-49° 56' 54"	14.3	Galaxy	0.009x0.005	Horologium	
IC 2046	04h 11m 49.7s	-54° 37' 39"	14.3	Galaxy	0.006x0.004	Dorado	
IC 1942	03h 28m 24.5s	-52° 36' 50"	14.4	Galaxy	0.005x0.004	Horologium	
IC 1946	03h 29m 52.4s	-52° 33' 30"	14.4	Galaxy	0.007x0.003	Horologium	
IC 1960	03h 32m 58.3s	-57° 08' 49"	14.4	Galaxy	0.009x0.002	Reticulum	
IC 1932	03h 26m 25.8s	-51° 16' 50"	14.5	Galaxy	0.005x0.005	Horologium	
IC 1950	03h 31m 36.5s	-50° 22' 20"	14.5	Galaxy	0.011x0.003	Horologium	
NGC 1515A	04h 04m 16.3s	-54° 03' 52"	14.6	Galaxy	0.008x0.006	Dorado	1515A
IC 1878-2	03h 04m 16.6s	-52° 01' 55"	14.6	Galaxy	0.003x0.001	Horologium	IC 1878-2
IC 1916	03h 20m 50.3s	-48° 58' 39"	14.6	Galaxy	0.005x0.005	Horologium	
IC 2029	04h 01m 45.6s	-52° 45' 05"	14.6	Galaxy	0.007x0.003	Dorado	
IC 2043	04h 11m 36.1s	-53° 38' 26"	14.6	Galaxy	0.011x0.001	Dorado	
IC 2052	04h 15m 24.0s	-54° 17' 32"	14.6	Galaxy	0.007x0.003	Dorado	
IC 2066	04h 23m 56.5s	-54° 41' 33"	14.6	Galaxy	0.006x0.005	Dorado	
IC 1938	03h 27m 40.7s	-52° 56' 53"	14.7	Galaxy	0.006x0.005	Horologium	
IC 1948	03h 31m 24.0s	-47° 54' 14"	14.7	Galaxy	0.006x0.005	Horologium	
IC 1999	03h 48m 07.4s	-56° 53' 50"	14.7	Galaxy	0.005x0.004	Reticulum	
IC 1135	02h 51m 19.3s	-54° 51' 21"	14.8	Galaxy	0.005x0.002	Horologium	
IC 1947	03h 31m 04.9s	-50° 16' 41"	14.8	Galaxy	0.004x0.003	Horologium	
IC 1961	03h 34m 06.5s	-48° 53' 28"	14.8	Galaxy	0.005x0.003	Horologium	
IC 1966	03h 34m 34.5s	-51° 15' 46"	14.8	Galaxy	0.005x0.002	Horologium	
IC 1982	03h 38m 06.7s	-57° 43' 05"	14.8	Galaxy	0.004x0.004	Reticulum	
IC 2014	03h 55m 45.7s	-56° 41' 42"	14.8	Galaxy	0.009x0.004	Reticulum	
IC 2018	03h 58m 22.5s	-52° 43' 47"	14.8	Galaxy	0.006x0.004	Dorado	
IC 2024	04h 00m 31.3s	-53° 19' 19"	14.8	Galaxy	0.009x0.002	Reticulum	
IC 2038	04h 09m 18.0s	-55° 56' 45"	14.8	Galaxy	0.015x0.003	Dorado	
IC 1944	03h 30m 14.1s	-47° 56' 07"	14.9	Galaxy	0.004x0.003	Horologium	
IC 1978	03h 37m 37.5s	-50° 05' 34"	14.9	Galaxy	0.009x0.001	Horologium	
IC 1987-1	03h 40m 38.6s	-55° 00' 07"	14.9	Galaxy	0.004x0.003	Reticulum	IC 1987-1
IC 2020	03h 59m 19.7s	-54° 00' 28"	14.9	Galaxy	0.005x0.004	Reticulum	
IC 1896	03h 08m 23.9s	-54° 08' 44"	15.0	Galaxy	0.005x0.002	Horologium	

Table 203: Main objects visible on chart 196 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 1903-2	03h 13m 46.1s	-50° 30' 41"	15.0	Galaxy	0.006x0.002	Horologium	IC 1903-2
IC 1912	03h 17m 16.5s	-50° 35' 22"	15.0	Galaxy	0.007x0.001	Horologium	
IC 1917	03h 22m 42.8s	-53° 07' 19"	15.0	Galaxy	0.002x0.002	Horologium	
IC 1945	03h 29m 46.8s	-52° 33' 57"	15.0	Galaxy	0.006x0.001	Horologium	
IC 1955	03h 31m 50.3s	-57° 10' 53"	15.0	Galaxy	0.005x0.005	Reticulum	
IC 1976	03h 37m 43.0s	-47° 22' 46"	15.0	Galaxy	0.006x0.004	Horologium	
IC 2021	03h 59m 52.0s	-52° 36' 23"	15.0	Galaxy	0.005x0.003	Dorado	
IC 1878-1	03h 04m 13.4s	-52° 02' 17"	15.1	Galaxy	0.01x0.006	Horologium	IC 1878-1
IC 1879	03h 04m 25.6s	-52° 02' 54"	15.1	Galaxy	0.01x0.001	Horologium	
IC 1965	03h 33m 37.1s	-56° 29' 39"	15.1	Galaxy	0.008x0.006	Reticulum	
IC 1971	03h 36m 27.4s	-52° 35' 28"	15.1	Galaxy	0.005x0.002	Horologium	
IC 1974	03h 37m 14.7s	-49° 29' 30"	15.1	Galaxy	0.006x0.002	Horologium	
IC 2023	04h 00m 08.9s	-52° 37' 49"	15.1	Galaxy	0.004x0.003	Dorado	
IC 1908-2	03h 15m 35.4s	-54° 45' 22"	15.2	Galaxy	0.004x0.002	Horologium	IC 1908-2
IC 1936	03h 26m 59.7s	-51° 15' 39"	15.2	Galaxy	0.005x0.001	Horologium	
IC 1958	03h 33m 17.8s	-51° 22' 52"	15.2	Galaxy	0.003x0.002	Horologium	
IC 1994	03h 46m 25.1s	-51° 35' 17"	15.2	Galaxy	0.005x0.001	Horologium	
IC 2034	04h 06m 58.3s	-57° 54' 51"	15.2	Galaxy	0.01x0.001	Reticulum	
IC 2022	03h 59m 01.0s	-58° 59' 37"	15.3	Galaxy	0.009x0.001	Reticulum	
IC 1877	03h 03m 44.0s	-50° 26' 30"	15.4	Galaxy	0.006x0.001	Horologium	
IC 1915	03h 20m 24.7s	-50° 37' 39"	15.4	Galaxy	0.005x0.004	Horologium	
IC 1968	03h 35m 09.5s	-50° 35' 32"	15.4	Galaxy	0.004x0.002	Horologium	
IC 1991	03h 45m 16.6s	-51° 28' 06"	15.4	Galaxy	0.005x0.002	Horologium	
IC 2025	04h 00m 50.4s	-53° 00' 54"	15.4	Galaxy	0.009x0.001	Reticulum	
IC 1903-1	03h 13m 42.0s	-50° 29' 43"	15.5	Galaxy	0.005x0.001	Horologium	IC 1903-1
IC 1920	03h 24m 55.2s	-52° 39' 03"	15.5	Galaxy	0.003x0.002	Horologium	
IC 1987-2	03h 40m 36.8s	-54° 59' 51"	15.5	Galaxy	0.002x0.002	Reticulum	IC 1987-2
IC 1987-3	03h 40m 39.4s	-54° 59' 56"	15.5	Galaxy	0.002x0.002	Reticulum	
IC 2012	03h 53m 17.1s	-58° 35' 47"	15.5	Galaxy	0.005x0.003	Reticulum	
IC 1972	03h 36m 51.7s	-51° 54' 33"	15.6	Galaxy	0.006x0.001	Horologium	
IC 1996	03h 45m 32.1s	-57° 16' 08"	15.6	Galaxy	0.006x0.001	Reticulum	
IC 1957	03h 32m 43.7s	-52° 23' 48"	15.7	Galaxy	0.007x0.001	Horologium	
IC 2044	04h 11m 39.3s	-54° 29' 11"	15.7	Galaxy	0.004x0.003	Dorado	
IC 2071	04h 26m 40.2s	-53° 06' 42"	15.7	Galaxy	0.003x0.002	Dorado	
IC 1926	03h 25m 50.4s	-51° 38' 19"	15.8	Galaxy	0.004x0.001	Horologium	
IC 1964	03h 33m 59.8s	-53° 06' 47"	15.8	Galaxy	0.004x0.002	Reticulum	
IC 1987-4	03h 40m 39.2s	-54° 59' 46"	15.8	Galaxy	0.001x0.001	Reticulum	
IC 1924	03h 25m 39.1s	-51° 38' 27"	15.9	Galaxy	0.004x0.002	Horologium	
IC 1973	03h 36m 51.3s	-51° 56' 07"	15.9	Galaxy	0.004x0.001	Horologium	

7.198 Main objects visible on chart 197

Table 204: Main objects visible on chart 197

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1553	04h 16m 34.2s	-55° 44' 08"	9.4	Galaxy	0.037x0.023	Dorado	
NGC 1566	04h 20m 24.8s	-54° 53' 42"	9.7	Galaxy	0.068x0.054	Dorado	
NGC 1672	04h 45m 59.9s	-59° 12' 57"	9.7	Galaxy	0.055x0.046	Dorado	
NGC 1549	04h 16m 08.8s	-55° 32' 51"	9.8	Galaxy	0.040x0.034	Dorado	
NGC 1574	04h 22m 20.3s	-56° 55' 59"	10.4	Galaxy	0.033x0.03	Reticulum	
NGC 1617	04h 32m 03.5s	-54° 33' 52"	10.4	Galaxy	0.035x0.017	Dorado	
NGC 1543	04h 13m 04.5s	-57° 41' 31"	10.5	Galaxy	0.031x0.023	Reticulum	
NGC 1533	04h 10m 15.5s	-56° 04' 18"	10.7	Galaxy	0.023x0.019	Dorado	
NGC 1546	04h 15m 00.0s	-56° 00' 57"	10.9	Galaxy	0.026x0.015	Dorado	
NGC 1515	04h 04m 28.4s	-54° 03' 05"	11.2	Galaxy	0.045x0.010	Dorado	
NGC 1596	04h 28m 01.7s	-54° 59' 14"	11.2	Galaxy	0.030x0.007	Dorado	
NGC 1703	04h 53m 07.8s	-59° 42' 50"	11.3	Galaxy	0.024x0.021	Dorado	
NGC 2191	06h 08m 47.7s	-52° 30' 58"	11.4	Galaxy	0.014x0.007	Carina	
NGC 1567	04h 21m 39.6s	-48° 12' 47"	11.5	Galaxy	0.010x0.010	Caelum	
IC 2056	04h 16m 42.4s	-60° 09' 46"	11.9	Galaxy	0.015x0.013	Reticulum	
NGC 1688	04h 48m 39.5s	-59° 46' 09"	12.1	Galaxy	0.02x0.015	Dorado	
NGC 1705	04h 54m 38.2s	-53° 19' 56"	12.4	Galaxy	0.015x0.011	Pictor	
NGC 1536	04h 11m 23.3s	-56° 26' 12"	12.5	Galaxy	0.017x0.012	Reticulum	
NGC 1824	05h 07m 11.3s	-59° 42' 08"	12.6	Galaxy	0.026x0.006	Dorado	
NGC 1595	04h 28m 52.5s	-47° 46' 35"	12.7	Galaxy	0.010x0.007	Caelum	Carafe group
NGC 2104	05h 47m 29.3s	-51° 32' 51"	12.7	Galaxy	0.016x0.007	Pictor	
IC 2082	04h 29m 32.8s	-53° 47' 21"	12.7	Galaxy	0.010x0.006	Dorado	
NGC 1581	04h 25m 08.9s	-54° 54' 07"	12.9	Galaxy	0.015x0.005	Dorado	
NGC 1803	05h 05m 54.4s	-49° 32' 38"	12.9	Galaxy	0.010x0.006	Pictor	
NGC 1602	04h 28m 18.1s	-55° 01' 03"	13.0	Galaxy	0.015x0.009	Dorado	
NGC 1853	05h 12m 34.6s	-57° 22' 44"	13.0	Galaxy	0.016x0.005	Dorado	
NGC 2115A	05h 51m 45.9s	-50° 34' 47"	13.0	Galaxy	0.006x0.005	Pictor	2115A
NGC 1556	04h 18m 14.1s	-50° 07' 16"	13.1	Galaxy	0.014x0.004	Dorado	
NGC 1578	04h 24m 14.4s	-51° 33' 31"	13.1	Galaxy	0.01x0.009	Dorado	
IC 2085	04h 31m 48.6s	-54° 22' 42"	13.1	Galaxy	0.019x0.003	Dorado	
IC 2008	05h 35m 29.7s	-50° 57' 19"	13.2	Galaxy	0.011x0.005	Pictor	
NGC 2221	06h 20m 33.4s	-57° 35' 15"	13.2	Galaxy	0.016x0.004	Pictor	
IC 2058	04h 18m 17.8s	-55° 53' 16"	13.2	Galaxy	0.024x0.003	Dorado	
NGC 1598	04h 29m 04.3s	-47° 44' 37"	13.3	Galaxy	0.011x0.006	Caelum	
NGC 2101	05h 46m 46.9s	-52° 05' 03"	13.3	Galaxy	0.016x0.010	Pictor	
NGC 2222	06h 20m 34.5s	-57° 32' 32"	13.3	Galaxy	0.01x0.0025	Pictor	
IC 2081	04h 29m 26.0s	-53° 34' 30"	13.3	Galaxy	0.01x0.006	Dorado	
NGC 2007	05h 35m 24.8s	-50° 54' 39"	13.4	Galaxy	0.014x0.005	Pictor	
IC 2152	06h 01m 20.9s	-50° 44' 29"	13.5	Galaxy	0.009x0.006	Pictor	
NGC 1522	04h 06m 35.2s	-52° 37' 18"	13.6	Galaxy	0.01x0.006	Dorado	
NGC 1680	04h 49m 03.8s	-47° 47' 10"	13.6	Galaxy	0.01x0.004	Pictor	
NGC 2087	05h 44m 36.5s	-55° 31' 35"	13.6	Galaxy	0.006x0.005	Pictor	
NGC 2148	05h 59m 00.7s	-59° 07' 33"	13.6	Galaxy	0.009x0.006	Pictor	
IC 2050	04h 14m 22.5s	-53° 25' 52"	13.7	Galaxy	0.009x0.006	Dorado	
IC 2065	04h 21m 51.1s	-55° 53' 28"	13.7	Galaxy	0.01x0.003	Dorado	
IC 2017	03h 56m 59.2s	-59° 20' 35"	13.8	Galaxy	0.009x0.005	Reticulum	

Table 204: Main objects visible on chart 197 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2037	04h 08m 39.6s	-58° 42' 15"	13.8	Galaxy	0.013x0.002	Reticulum	
IC 2070	04h 24m 55.8s	-57° 56' 26"	13.8	Galaxy	0.011x0.007	Dorado	
IC 2073	04h 26m 59.3s	-53° 08' 55"	13.8	Galaxy	0.01x0.004	Dorado	
IC 2033	04h 07m 41.0s	-53° 38' 02"	13.9	Galaxy	0.01x0.005	Dorado	
IC 2079	04h 28m 55.9s	-53° 41' 57"	13.9	Galaxy	0.01x0.003	Dorado	
IC 2060	04h 18m 15.9s	-56° 34' 23"	14.0	Galaxy	0.012x0.009	Reticulum	
IC 2083	04h 31m 08.9s	-53° 56' 34"	14.0	Galaxy	0.009x0.005	Dorado	
IC 2032	04h 07m 27.9s	-55° 16' 33"	14.1	Galaxy	0.011x0.006	Dorado	
NGC 1998	05h 33m 43.9s	-48° 41' 01"	14.2	Galaxy	0.007x0.004	Pictor	
IC 2039	04h 09m 26.4s	-55° 57' 52"	14.2	Galaxy	0.007x0.005	Dorado	
IC 2049	04h 12m 24.6s	-58° 30' 44"	14.2	Galaxy	0.008x0.007	Reticulum	
IC 2046	04h 11m 49.7s	-54° 37' 39"	14.3	Galaxy	0.006x0.004	Dorado	
NGC 1515A	04h 04m 16.3s	-54° 03' 52"	14.6	Galaxy	0.008x0.006	Dorado	1515A
IC 2043	04h 11m 36.1s	-53° 38' 26"	14.6	Galaxy	0.011x0.001	Dorado	
IC 2052	04h 15m 24.0s	-54° 17' 32"	14.6	Galaxy	0.007x0.003	Dorado	
IC 2066	04h 23m 56.5s	-54° 41' 33"	14.6	Galaxy	0.006x0.005	Dorado	
IC 2086	04h 31m 57.2s	-53° 36' 35"	14.6	Galaxy	0.003x0.003	Dorado	
IC 2038	04h 09m 18.0s	-55° 56' 45"	14.8	Galaxy	0.015x0.003	Dorado	
NGC 2115B	05h 51m 47.4s	-50° 35' 19"	15.1	Galaxy	0.005x0.004	Pictor	2115B
IC 2034	04h 06m 58.3s	-57° 54' 51"	15.2	Galaxy	0.01x0.001	Reticulum	
IC 2022	03h 59m 01.0s	-58° 59' 37"	15.3	Galaxy	0.009x0.001	Reticulum	
IC 2044	04h 11m 39.3s	-54° 29' 11"	15.7	Galaxy	0.004x0.003	Dorado	
IC 2071	04h 26m 40.2s	-53° 06' 42"	15.7	Galaxy	0.003x0.002	Dorado	

7.199 Main objects visible on chart 198

Table 205: Main objects visible on chart 198

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2191	06h 08m 47.7s	-52° 30' 58"	11.4	Galaxy	0.014x0.007	Carina	
NGC 2427	07h 36m 59.2s	-47° 40' 37"	11.5	Galaxy	0.040x0.016	Puppis	
NGC 2115A	05h 51m 45.9s	-50° 34' 47"	13.0	Galaxy	0.006x0.005	Pictor	2115A
NGC 2221	06h 20m 33.4s	-57° 35' 15"	13.2	Galaxy	0.016x0.004	Pictor	
NGC 2222	06h 20m 34.5s	-57° 32' 32"	13.3	Galaxy	0.01x0.0025	Pictor	
IC 2152	06h 01m 20.9s	-50° 44' 29"	13.5	Galaxy	0.009x0.006	Pictor	
NGC 2087	05h 44m 36.5s	-55° 31' 35"	13.6	Galaxy	0.006x0.005	Pictor	
NGC 2148	05h 59m 00.7s	-59° 07' 33"	13.6	Galaxy	0.009x0.006	Pictor	
NGC 2115B	05h 51m 47.4s	-50° 35' 19"	15.1	Galaxy	0.005x0.004	Pictor	2115B

7.200 Main objects visible on chart 199

Table 206: Main objects visible on chart 199

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2391	08h 40m 49.0s	-52° 58' 53"	2.6	Open cluster	0.5x0.5	Vela	CALDWELL 85, Omicron Velorum cluster
IC 2395	08h 43m 05.0s	-48° 10' 25"	4.6	Open cluster	0.108x0.108	Vela	
NGC 2547	08h 10m 40.8s	-49° 16' 44"	4.7	Open cluster	0.208x0.208	Vela	
NGC 2669	08h 46m 50.5s	-53° 00' 06"	6.1	Open cluster	0.116x0.116	Vela	
NGC 2910	09h 31m 05.0s	-52° 59' 37"	7.2	Open cluster	0.05x0.05	Vela	
IC 2488	09h 27m 59.5s	-57° 02' 08"	7.4	Open cluster	0.15x0.15	Vela	
NGC 2670	08h 46m 04.7s	-48° 51' 29"	7.8	Open cluster	0.058x0.058	Vela	
NGC 2925	09h 33m 46.9s	-53° 28' 35"	8.3	Open cluster	0.125x0.125	Vela	
NGC 2660	08h 43m 13.7s	-47° 15' 57"	8.8	Open cluster	0.025x0.025	Vela	
NGC 2867	09h 21m 55.9s	-58° 23' 18"	9.7	Planetary Nebula	0.003x0.003	Carina	CALDWELL 90
NGC 2866	09h 22m 42.9s	-51° 10' 47"	10.0	Open cluster	0.166x0.166	Vela	
NGC 2640	08h 37m 53.4s	-55° 11' 14"	11.1	Galaxy	0.018x0.015	Carina	
NGC 2427	07h 36m 59.2s	-47° 40' 37"	11.5	Galaxy	0.040x0.016	Puppis	
NGC 2899	09h 27m 36.2s	-56° 11' 04"	11.8	Planetary Nebula	0.016x0.008	Vela	
NGC 2502	07h 56m 19.6s	-52° 21' 20"	12.0	Galaxy	0.017x0.010	Carina	
IC 2714	08h 53m 55.8s	-59° 17' 11"	12.9	Galaxy	0.009x0.009	Carina	

7.201 Main objects visible on chart 200

Table 207: Main objects visible on chart 200

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3532	11h 06m 26.1s	-58° 49' 51"	3.0	Open cluster	0.416x0.416	Carina	CALDWELL 91
NGC 3114	10h 03m 10.9s	-60° 11' 15"	4.2	Open cluster	0.291x0.291	Carina	
IC 2581	10h 28m 06.6s	-57° 43' 04"	4.3	Open cluster	0.041x0.041	Carina	
NGC 3293	10h 36m 32.4s	-58° 19' 25"	4.7	Open cluster	0.041x0.041	Carina	Gem cluster
NGC 3228	10h 22m 04.7s	-51° 49' 10"	6.0	Open cluster	0.041x0.041	Vela	
NGC 2910	09h 31m 05.0s	-52° 59' 37"	7.2	Open cluster	0.05x0.05	Vela	
NGC 3330	10h 39m 29.8s	-54° 12' 33"	7.4	Open cluster	0.05x0.05	Vela	
IC 2488	09h 27m 59.5s	-57° 02' 08"	7.4	Open cluster	0.15x0.15	Vela	
NGC 3247	10h 24m 51.9s	-57° 51' 18"	7.6	Open cluster	0.041x0.041	Carina	
NGC 3496	11h 00m 20.4s	-60° 26' 00"	8.2	Open cluster	0.058x0.058	Carina	
NGC 2925	09h 33m 46.9s	-53° 28' 35"	8.3	Open cluster	0.125x0.125	Vela	
NGC 3033	09h 49m 15.7s	-56° 29' 45"	8.8	Open cluster	0.1x0.1	Vela	
NGC 2867	09h 21m 55.9s	-58° 23' 18"	9.7	Planetary Nebula	0.003x0.003	Carina	CALDWELL 90
NGC 3105	10h 01m 17.9s	-54° 52' 28"	9.7	Open cluster	0.016x0.016	Vela	
NGC 2972	09h 40m 50.3s	-50° 24' 09"	9.9	Open cluster	0.041x0.041	Vela	
NGC 2866	09h 22m 42.9s	-51° 10' 47"	10.0	Open cluster	0.166x0.166	Vela	
IC 2501	09h 39m 18.5s	-60° 10' 24"	10.4	Planetary Nebula	2.5E-x2.5E-	Carina	
NGC 3255	10h 27m 09.7s	-60° 46' 13"	11.0	Open cluster	0.016x0.016	Carina	
NGC 2899	09h 27m 36.2s	-56° 11' 04"	11.8	Planetary Nebula	0.016x0.008	Vela	
NGC 3482	10h 59m 22.9s	-46° 40' 51"	12.4	Galaxy	0.015x0.011	Vela	
NGC 3372	10h 45m 48.1s	-59° 57' 42"	-	Nebula	1.0x1.0	Carina	CALDWELL 92, Eta Carinae nebula

7.202 Main objects visible on chart 201

Table 208: Main objects visible on chart 201

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3532	11h 06m 26.1s	-58° 49' 51"	3.0	Open cluster	0.416x0.416	Carina	CALDWELL 91
NGC 3918	11h 51m 11.6s	-57° 16' 55"	8.1	Planetary Nebula	0.003x0.003	Centaurus	Blue planetary
NGC 3960	11h 51m 27.1s	-55° 46' 35"	8.3	Open cluster	0.058x0.058	Centaurus	
NGC 4439	12h 29m 26.9s	-60° 12' 09"	8.4	Open cluster	0.033x0.033	Crux	
NGC 4337	12h 25m 02.7s	-58° 13' 24"	8.9	Open cluster	0.029x0.029	Crux	
NGC 4852	13h 01m 15.1s	-59° 42' 36"	8.9	Open cluster	0.1x0.1	Centaurus	
NGC 3909	11h 50m 24.2s	-48° 21' 54"	10.0	Open cluster	0.166x0.166	Centaurus	
IC 3896	12h 57m 45.3s	-50° 26' 40"	10.9	Galaxy	0.020x0.015	Centaurus	
NGC 3699	11h 28m 46.8s	-60° 03' 24"	11.3	Planetary Nebula	0.006x0.006	Centaurus	
NGC 3882	11h 46m 59.3s	-56° 29' 20"	12.0	Galaxy	0.019x0.011	Centaurus	
IC 3896A	12h 56m 33.1s	-50° 10' 06"	12.1	Galaxy	0.019x0.015	Centaurus	IC 3896A
IC 4785	12h 54m 28.9s	-48° 50' 50"	12.4	Galaxy	0.016x0.008	Centaurus	
NGC 3778	11h 39m 14.0s	-50° 48' 55"	13.1	Galaxy	0.01x0.0075	Centaurus	
NGC 3372	10h 45m 48.1s	-59° 57' 42"	-	Nebula	1.0x1.0	Carina	CALDWELL 92, Eta Carinae nebula
CALDWELL99	12h 51m 05.5s	-62° 35' 52"	-	Nebula	3.5x2.5	Crux	CALDWELL 99, Coalsack

7.203 Main objects visible on chart 202

Table 209: Main objects visible on chart 202

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5139	13h 27m 52.1s	-47° 34' 26"	5.3	Globular cluster	0.458x0.458	Centaurus	CALDWELL 80, Omega Centauri
NGC 5662	14h 36m 49.2s	-56° 44' 26"	5.5	Open cluster	0.25x0.25	Centaurus	
NGC 5460	14h 08m 45.7s	-48° 23' 06"	5.6	Open cluster	0.291x0.291	Centaurus	
NGC 5286	13h 47m 35.4s	-51° 27' 44"	7.4	Globular cluster	0.091x0.091	Centaurus	CALDWELL 84
NGC 5138	13h 28m 26.4s	-59° 08' 05"	7.6	Open cluster	0.066x0.066	Centaurus	
NGC 5606	14h 29m 07.4s	-59° 42' 44"	7.7	Open cluster	0.025x0.025	Centaurus	
NGC 4945	13h 06m 29.4s	-49° 33' 32"	8.4	Galaxy	0.165x0.033	Centaurus	CALDWELL 83
NGC 5749	14h 50m 06.9s	-54° 34' 04"	8.8	Open cluster	0.083x0.083	Lupus	
NGC 4852	13h 01m 15.1s	-59° 42' 36"	8.9	Open cluster	0.1x0.1	Centaurus	
NGC 5715	14h 44m 59.3s	-57° 38' 45"	9.8	Open cluster	0.058x0.058	Circinus	
NGC 4976	13h 09m 41.1s	-49° 36' 05"	10.0	Galaxy	0.046x0.025	Centaurus	
NGC 5333	13h 55m 32.6s	-48° 36' 02"	10.7	Galaxy	0.015x0.008	Centaurus	
NGC 5206	13h 34m 49.9s	-48° 14' 38"	10.9	Galaxy	0.031x0.027	Centaurus	
IC 3896	12h 57m 45.3s	-50° 26' 40"	10.9	Galaxy	0.020x0.015	Centaurus	
NGC 5266	13h 44m 08.9s	-48° 15' 34"	11.1	Galaxy	0.027x0.019	Centaurus	
NGC 5307	13h 52m 12.7s	-51° 17' 38"	11.2	Planetary Nebula	0.002x0.002	Centaurus	
NGC 5156	13h 29m 50.0s	-49° 00' 34"	11.7	Galaxy	0.020x0.016	Centaurus	
NGC 5064	13h 20m 04.4s	-48° 00' 14"	11.8	Galaxy	0.015x0.007	Centaurus	
NGC 5266A	13h 41m 43.9s	-48° 25' 58"	12.0	Galaxy	0.025x0.020	Centaurus	5266A
NGC 5516	14h 17m 05.0s	-48° 11' 52"	12.0	Galaxy	0.015x0.01	Centaurus	
IC 3896A	12h 56m 33.1s	-50° 10' 06"	12.1	Galaxy	0.019x0.015	Centaurus	IC 3896A

Table 209: Main objects visible on chart 202 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4940	13h 06m 02.9s	-47° 19' 59"	12.3	Galaxy	0.008x0.008	Centaurus	
IC 4312	13h 41m 38.9s	-51° 09' 43"	12.3	Galaxy	0.007x0.005	Centaurus	
IC 4785	12h 54m 28.9s	-48° 50' 50"	12.4	Galaxy	0.016x0.008	Centaurus	
NGC 4945A	13h 07m 37.3s	-49° 47' 15"	12.4	Galaxy	0.020x0.013	Centaurus	4945A
IC 4200	13h 10m 39.4s	-52° 03' 51"	12.7	Galaxy	0.012x0.008	Centaurus	
NGC 5234	13h 38m 37.0s	-49° 55' 42"	13.0	Galaxy	0.010x0.006	Centaurus	
IC 4311	13h 41m 16.0s	-51° 07' 38"	13.4	Galaxy	0.008x0.005	Centaurus	
CALDWELL99	12h 51m 05.5s	-62° 35' 52"	-	Nebula	3.5x2.5	Crux	CALDWELL 99, Coalsack

7.204 Main objects visible on chart 203

Table 210: Main objects visible on chart 203

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6025	16h 04m 50.2s	-60° 28' 48"	5.1	Open cluster	0.125x0.125	Triangulum Australe	CALDWELL 95
NGC 6087	16h 20m 21.9s	-57° 56' 32"	5.4	Open cluster	0.125x0.125	Norma	CALDWELL 89, S Normae cluster
NGC 5662	14h 36m 49.2s	-56° 44' 26"	5.5	Open cluster	0.25x0.25	Centaurus	
NGC 6067	16h 14m 36.1s	-54° 15' 49"	5.6	Open cluster	0.125x0.125	Norma	
NGC 5822	15h 05m 21.9s	-54° 24' 31"	6.5	Open cluster	0.291x0.291	Lupus	
NGC 5606	14h 29m 07.4s	-59° 42' 44"	7.7	Open cluster	0.025x0.025	Centaurus	
NGC 5823	15h 06m 51.4s	-55° 40' 21"	7.9	Open cluster	0.1x0.1	Circinus	CALDWELL 88
NGC 5927	15h 29m 19.1s	-50° 44' 01"	8.0	Globular cluster	0.05x0.05	Lupus	
Hogg18	14h 51m 58.5s	-52° 20' 25"	8.0	Open cluster	0.025x0.025	Lupus	
NGC 5925	15h 28m 48.0s	-54° 35' 24"	8.4	Open cluster	0.166x0.166	Norma	
NGC 5946	15h 36m 47.6s	-50° 43' 04"	8.4	Globular cluster	0.025x0.025	Norma	
NGC 6031	16h 08m 59.0s	-54° 03' 49"	8.5	Open cluster	0.025x0.025	Norma	
NGC 5749	14h 50m 06.9s	-54° 34' 04"	8.8	Open cluster	0.083x0.083	Lupus	
NGC 5999	15h 53m 34.7s	-56° 31' 32"	9.0	Open cluster	0.025x0.025	Norma	
NGC 5715	14h 44m 59.3s	-57° 38' 45"	9.8	Open cluster	0.058x0.058	Circinus	
NGC 6115	16h 25m 50.3s	-51° 59' 37"	9.8	Open cluster	0.028x0.028	Norma	
NGC 6005	15h 57m 15.1s	-57° 29' 42"	10.7	Open cluster	0.041x0.041	Norma	
NGC 5764	14h 54m 48.9s	-52° 44' 37"	12.6	Open cluster	0.025x0.025	Lupus	

7.205 Main objects visible on chart 204

Table 211: Main objects visible on chart 204

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6193	16h 42m 41.5s	-48° 47' 48"	5.2	Open cluster	0.116x0.116	Ara	CALDWELL 82
NGC 6397	17h 42m 09.3s	-53° 40' 52"	5.3	Globular cluster	0.258x0.258	Ara	CALDWELL 86
NGC 6087	16h 20m 21.9s	-57° 56' 32"	5.4	Open cluster	0.125x0.125	Norma	CALDWELL 89, S Normae cluster
NGC 6067	16h 14m 36.1s	-54° 15' 49"	5.6	Open cluster	0.125x0.125	Norma	
NGC 6167	16h 35m 56.8s	-49° 48' 29"	6.7	Open cluster	0.058x0.058	Norma	

Table 211: Main objects visible on chart 204 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4651	17h 26m 15.6s	-49° 57' 30"	6.9	Open cluster	0.083x0.083	Ara	
NGC 6134	16h 29m 04.6s	-49° 12' 11"	7.2	Open cluster	0.05x0.05	Norma	
NGC 6208	16h 50m 52.4s	-53° 44' 06"	7.2	Open cluster	0.15x0.15	Ara	
NGC 6200	16h 45m 28.8s	-47° 30' 07"	7.4	Open cluster	0.125x0.125	Ara	
NGC 6352	17h 26m 51.4s	-48° 26' 13"	7.8	Globular cluster	0.075x0.075	Ara	CALDWELL 81
NGC 6152	16h 34m 09.7s	-52° 40' 49"	8.1	Open cluster	0.208x0.208	Norma	
NGC 6204	16h 47m 27.8s	-47° 02' 37"	8.2	Open cluster	0.05x0.05	Ara	
NGC 6031	16h 08m 59.0s	-54° 03' 49"	8.5	Open cluster	0.025x0.025	Norma	
NGC 6115	16h 25m 50.3s	-51° 59' 37"	9.8	Open cluster	0.028x0.028	Norma	
NGC 6221	16h 54m 20.2s	-59° 14' 49"	9.9	Galaxy	0.029x0.020	Ara	
NGC 6253	17h 00m 32.0s	-52° 44' 31"	10.2	Open cluster	0.033x0.033	Ara	
NGC 6005	15h 57m 15.1s	-57° 29' 42"	10.7	Open cluster	0.041x0.041	Norma	
NGC 6215	16h 52m 40.6s	-59° 01' 21"	11.5	Galaxy	0.018x0.016	Ara	
IC 4646	17h 25m 29.9s	-60° 00' 56"	11.9	Galaxy	0.023x0.014	Ara	
NGC 6326	17h 22m 11.8s	-51° 46' 14"	12.0	Planetary Nebula	0.002x0.002	Ara	
NGC 6305	17h 19m 35.9s	-59° 11' 20"	12.1	Galaxy	0.011x0.006	Ara	
IC 4642	17h 13m 14.8s	-55° 25' 12"	13.0	Planetary Nebula	0.003x0.003	Ara	
IC 4694	18h 17m 01.3s	-58° 12' 04"	13.0	Galaxy	0.019x0.007	Pavo	
IC 4679	18h 12m 55.5s	-56° 14' 54"	13.1	Galaxy	0.018x0.007	Telescopium	
IC 4702	18h 24m 39.4s	-59° 13' 42"	13.1	Galaxy	0.012x0.008	Pavo	
IC 4687	18h 15m 12.8s	-57° 43' 09"	13.2	Galaxy	0.007x0.004	Pavo	
IC 4652	17h 28m 02.7s	-59° 44' 33"	13.3	Galaxy	0.006x0.003	Ara	
IC 4692	18h 16m 24.8s	-58° 41' 14"	13.3	Galaxy	0.015x0.007	Pavo	
NGC 6215A	16h 54m 22.4s	-58° 58' 32"	13.4	Galaxy	0.012x0.004	Ara	6215A
IC 4689	18h 15m 13.7s	-57° 44' 31"	13.9	Galaxy	0.007x0.002	Pavo	
IC 4686	18h 15m 12.1s	-57° 43' 33"	14.2	Galaxy	0.005x0.004	Pavo	

7.206 Main objects visible on chart 205

Table 212: Main objects visible on chart 205

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6752	19h 12m 26.7s	-59° 57' 02"	5.3	Globular cluster	0.241x0.241	Pavo	CALDWELL 93
NGC 6584	18h 20m 04.0s	-52° 12' 22"	7.9	Globular cluster	0.055x0.055	Telescopium	
NGC 6782	19h 25m 31.9s	-59° 53' 10"	11.0	Galaxy	0.02x0.016	Pavo	
NGC 6753	19h 12m 54.3s	-57° 01' 04"	11.1	Galaxy	0.02x0.0175	Pavo	
IC 4891	19h 46m 40.3s	-54° 17' 56"	11.1	Galaxy	0.018x0.012	Telescopium	
NGC 6725	19h 03m 23.4s	-53° 50' 14"	11.3	Galaxy	0.018x0.004	Telescopium	
IC 4797	18h 57m 57.6s	-54° 16' 48"	11.3	Galaxy	0.017x0.009	Telescopium	
NGC 6810	19h 45m 05.1s	-58° 36' 43"	11.4	Galaxy	0.01x0.0075	Pavo	
IC 4901	19h 55m 53.5s	-58° 39' 54"	11.5	Galaxy	0.031x0.022	Pavo	
NGC 6758	19h 15m 22.0s	-56° 16' 39"	11.6	Galaxy	0.019x0.014	Telescopium	
IC 4721	18h 35m 58.8s	-58° 28' 55"	11.6	Galaxy	0.043x0.012	Pavo	
IC 4845	19h 21m 57.1s	-60° 21' 15"	11.6	Galaxy	0.012x0.008	Pavo	
NGC 6769	19h 19m 58.1s	-60° 28' 01"	11.8	Galaxy	0.018x0.012	Pavo	

Table 212: Main objects visible on chart 205 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4837A	19h 16m 42.7s	-54° 06' 02"	11.8	Galaxy	0.034x0.005	Telescopium	IC 4837A
NGC 6770	19h 20m 12.3s	-60° 27' 43"	11.9	Galaxy	0.018x0.013	Pavo	
NGC 6788	19h 28m 16.8s	-54° 54' 47"	11.9	Galaxy	0.024x0.007	Telescopium	
NGC 6699	18h 53m 33.7s	-57° 17' 52"	12.0	Galaxy	0.012x0.012	Pavo	
NGC 6708	18h 57m 02.7s	-53° 41' 56"	12.0	Galaxy	0.01x0.0075	Telescopium	
NGC 6721	19h 02m 23.0s	-57° 43' 58"	12.0	Galaxy	0.013x0.011	Pavo	
NGC 6754	19h 12m 48.2s	-50° 36' 39"	12.1	Galaxy	0.015x0.007	Telescopium	
IC 4785	18h 54m 29.9s	-59° 13' 54"	12.2	Galaxy	0.025x0.011	Pavo	
IC 4806	19h 03m 02.4s	-57° 30' 20"	12.2	Galaxy	0.019x0.005	Pavo	
IC 4796	18h 57m 55.6s	-54° 11' 19"	12.3	Galaxy	0.013x0.008	Telescopium	
IC 4830	19h 15m 22.1s	-59° 15' 45"	12.3	Galaxy	0.014x0.010	Pavo	
IC 4839	19h 17m 01.2s	-54° 35' 37"	12.3	Galaxy	0.018x0.013	Telescopium	
NGC 6799	19h 33m 44.7s	-55° 52' 06"	12.4	Galaxy	0.013x0.01	Telescopium	
IC 4842	19h 20m 60.0s	-60° 36' 35"	12.4	Galaxy	0.012x0.006	Pavo	
NGC 6771	19h 20m 14.8s	-60° 30' 44"	12.5	Galaxy	0.019x0.004	Pavo	
NGC 6812	19h 46m 50.4s	-55° 18' 08"	12.5	Galaxy	0.009x0.005	Telescopium	
IC 4837	19h 16m 41.6s	-54° 37' 46"	12.5	Galaxy	0.017x0.008	Telescopium	
NGC 6707	18h 56m 49.1s	-53° 47' 42"	12.6	Galaxy	0.017x0.008	Telescopium	
NGC 6780	19h 24m 19.2s	-55° 44' 24"	12.6	Galaxy	0.015x0.013	Telescopium	
IC 4810	19h 04m 29.9s	-56° 07' 58"	12.6	Galaxy	0.029x0.003	Telescopium	
IC 4832	19h 15m 33.8s	-56° 34' 39"	12.7	Galaxy	0.018x0.004	Telescopium	
IC 4836	19h 17m 53.1s	-60° 10' 01"	12.7	Galaxy	0.012x0.011	Pavo	
IC 4720	18h 35m 06.7s	-58° 23' 23"	12.8	Galaxy	0.021x0.007	Pavo	
IC 4722	18h 36m 04.4s	-57° 46' 41"	12.8	Galaxy	0.013x0.01	Pavo	
IC 4718	18h 35m 26.7s	-60° 06' 49"	12.9	Galaxy	0.010x0.005	Pavo	
IC 4821	19h 11m 00.3s	-54° 59' 10"	12.9	Galaxy	0.015x0.005	Telescopium	
IC 4694	18h 17m 01.3s	-58° 12' 04"	13.0	Galaxy	0.019x0.007	Pavo	
IC 4719	18h 34m 43.3s	-56° 43' 05"	13.0	Galaxy	0.011x0.008	Telescopium	
IC 4851	19h 27m 00.1s	-57° 38' 02"	13.0	Galaxy	0.013x0.005	Pavo	
IC 4852	19h 28m 00.2s	-60° 17' 56"	13.0	Galaxy	0.012x0.010	Pavo	
IC 4854	19h 28m 54.1s	-59° 16' 39"	13.0	Galaxy	0.010x0.01	Pavo	
IC 4857	19h 30m 11.1s	-58° 43' 48"	13.0	Galaxy	0.015x0.01	Pavo	
IC 4679	18h 12m 55.5s	-56° 14' 54"	13.1	Galaxy	0.018x0.007	Telescopium	
IC 4702	18h 24m 39.4s	-59° 13' 42"	13.1	Galaxy	0.012x0.008	Pavo	
IC 4761	18h 45m 22.0s	-52° 50' 02"	13.1	Galaxy	0.013x0.010	Telescopium	
IC 4844	19h 20m 31.6s	-55° 59' 34"	13.1	Galaxy	0.011x0.008	Telescopium	
IC 4871	19h 37m 12.0s	-57° 28' 41"	13.1	Galaxy	0.029x0.003	Pavo	
IC 4687	18h 15m 12.8s	-57° 43' 09"	13.2	Galaxy	0.007x0.004	Pavo	
IC 4734	18h 39m 57.9s	-57° 28' 25"	13.2	Galaxy	0.010x0.006	Pavo	
IC 4886	19h 44m 37.3s	-51° 45' 48"	13.2	Galaxy	0.011x0.005	Telescopium	
IC 4692	18h 16m 24.8s	-58° 41' 14"	13.3	Galaxy	0.015x0.007	Pavo	
IC 4717	18h 34m 50.5s	-57° 57' 37"	13.3	Galaxy	0.013x0.002	Pavo	
IC 4880	19h 41m 58.9s	-56° 22' 01"	13.3	Galaxy	0.014x0.003	Telescopium	
NGC 6761	19h 16m 27.8s	-50° 37' 28"	13.4	Galaxy	0.013x0.01	Telescopium	
IC 4757	18h 45m 27.9s	-57° 08' 53"	13.4	Galaxy	0.007x0.003	Pavo	
IC 4774	18h 49m 43.3s	-57° 54' 52"	13.4	Galaxy	0.009x0.008	Pavo	

Table 212: Main objects visible on chart 205 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4807	19h 03m 48.7s	-56° 54' 10"	13.4	Galaxy	0.008x0.005	Pavo	
IC 4814	19h 06m 32.5s	-58° 33' 05"	13.4	Galaxy	0.009x0.003	Pavo	
IC 4819	19h 08m 41.8s	-59° 26' 17"	13.4	Galaxy	0.024x0.002	Pavo	
IC 4882	19h 41m 49.9s	-55° 09' 13"	13.4	Galaxy	0.008x0.006	Telescopium	
NGC 6754A	19h 10m 07.7s	-51° 00' 59"	13.5	Galaxy	0.014x0.002	Telescopium	6754A
IC 4721A	18h 36m 01.1s	-58° 31' 06"	13.5	Galaxy	0.004x0.004	Pavo	IC 4721A
IC 4826	19h 13m 52.1s	-57° 10' 16"	13.5	Galaxy	0.011x0.006	Pavo	
IC 4879	19h 41m 00.4s	-52° 19' 35"	13.5	Galaxy	0.007x0.003	Telescopium	
IC 4709	18h 25m 50.7s	-56° 21' 28"	13.6	Galaxy	0.009x0.005	Telescopium	
IC 4783	18h 53m 07.5s	-58° 47' 26"	13.6	Galaxy	0.009x0.008	Pavo	
IC 4817	19h 07m 42.3s	-56° 07' 49"	13.6	Galaxy	0.013x0.004	Telescopium	
IC 4876	19h 39m 06.7s	-52° 48' 05"	13.6	Galaxy	0.010x0.007	Telescopium	
IC 4883	19h 43m 27.5s	-55° 30' 07"	13.6	Galaxy	0.011x0.004	Telescopium	
IC 4884	19h 44m 11.3s	-58° 05' 06"	13.6	Galaxy	0.010x0.003	Pavo	
IC 4777	18h 49m 37.8s	-53° 07' 33"	13.7	Galaxy	0.007x0.005	Telescopium	
IC 4835	19h 16m 59.4s	-58° 12' 17"	13.7	Galaxy	0.006x0.005	Pavo	
IC 4840	19h 17m 21.1s	-56° 10' 33"	13.7	Galaxy	0.009x0.005	Telescopium	
IC 4856	19h 28m 57.6s	-54° 52' 16"	13.7	Galaxy	0.010x0.005	Telescopium	
IC 4877	19h 39m 19.1s	-51° 56' 58"	13.7	Galaxy	0.010x0.001	Telescopium	
IC 4829	19h 14m 03.6s	-56° 30' 31"	13.8	Galaxy	0.015x0.003	Telescopium	
IC 4875	19h 39m 02.1s	-52° 02' 01"	13.8	Galaxy	0.005x0.003	Telescopium	
IC 4881	19h 41m 53.5s	-55° 48' 53"	13.8	Galaxy	0.007x0.004	Telescopium	
IC 4888	19h 46m 17.7s	-54° 24' 43"	13.8	Galaxy	0.008x0.005	Telescopium	
IC 4689	18h 15m 13.7s	-57° 44' 31"	13.9	Galaxy	0.007x0.002	Pavo	
IC 4736	18h 40m 12.9s	-57° 52' 33"	13.9	Galaxy	0.008x0.007	Pavo	
IC 4775	18h 49m 58.1s	-57° 09' 44"	13.9	Galaxy	0.013x0.002	Pavo	
IC 4780	18h 51m 31.3s	-59° 13' 54"	13.9	Galaxy	0.006x0.005	Pavo	
IC 4874	19h 37m 40.5s	-47° 13' 29"	13.9	Galaxy	0.01x0.005	Telescopium	
IC 4890	19h 47m 03.3s	-56° 29' 60"	13.9	Galaxy	0.009x0.007	Telescopium	
IC 4894	19h 48m 21.4s	-51° 48' 05"	13.9	Galaxy	0.007x0.005	Telescopium	
IC 4782	18h 52m 23.8s	-55° 28' 07"	14.0	Galaxy	0.011x0.001	Telescopium	
IC 4792	18h 57m 12.4s	-56° 22' 46"	14.1	Galaxy	0.01x0.0025	Telescopium	
IC 4908	19h 58m 22.7s	-55° 44' 31"	14.1	Galaxy	0.005x0.005	Telescopium	
IC 4686	18h 15m 12.1s	-57° 43' 33"	14.2	Galaxy	0.005x0.004	Pavo	
IC 4843	19h 20m 55.0s	-59° 16' 29"	14.2	Galaxy	0.010x0.001	Pavo	
IC 4848	19h 24m 24.1s	-56° 44' 41"	14.2	Galaxy	0.005x0.004	Pavo	
IC 4878	19h 40m 20.3s	-58° 11' 06"	14.2	Galaxy	0.012x0.003	Pavo	
IC 4818	19h 07m 31.3s	-55° 06' 26"	14.3	Galaxy	0.012x0.002	Telescopium	
IC 4896	19h 50m 35.8s	-58° 56' 07"	14.6	Galaxy	0.007x0.005	Pavo	
IC 4897	19h 50m 42.1s	-51° 49' 17"	14.6	Galaxy	0.006x0.004	Telescopium	
IC 4861	19h 30m 46.9s	-57° 32' 16"	14.8	Galaxy	0.009x0.002	Pavo	
IC 4910	19h 59m 14.5s	-56° 48' 50"	14.8	Galaxy	0.004x0.003	Pavo	
IC 4786	18h 54m 15.8s	-56° 40' 19"	15.1	Galaxy	0.006x0.001	Telescopium	
IC 4716	18h 34m 16.9s	-56° 56' 50"	15.2	Galaxy	0.005x0.003	Pavo	
IC 4902	19h 55m 51.1s	-56° 19' 52"	15.3	Galaxy	0.005x0.002	Telescopium	

Table 212: Main objects visible on chart 205 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4900-1	19h 51m 43.9s	-51° 17' 57"	15.4	Galaxy	0.005x0.001	Telescopium	IC 4900-1

7.207 Main objects visible on chart 206

Table 213: Main objects visible on chart 206

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7049	21h 20m 13.1s	-48° 29' 05"	10.6	Galaxy	0.037x0.025	Indus	
NGC 6868	20h 11m 12.1s	-48° 19' 33"	10.7	Galaxy	0.03x0.023	Telescopium	
NGC 7090	21h 37m 42.8s	-54° 28' 25"	10.7	Galaxy	0.060x0.01	Indus	
NGC 6861	20h 08m 37.7s	-48° 18' 59"	11.1	Galaxy	0.025x0.016	Telescopium	
IC 4891	19h 46m 40.3s	-54° 17' 56"	11.1	Galaxy	0.018x0.012	Telescopium	
NGC 7041	21h 17m 45.1s	-48° 17' 14"	11.2	Galaxy	0.03x0.0125	Indus	
NGC 6810	19h 45m 05.1s	-58° 36' 43"	11.4	Galaxy	0.01x0.0075	Pavo	
NGC 7029	21h 13m 05.7s	-49° 12' 32"	11.5	Galaxy	0.020x0.011	Indus	
IC 4901	19h 55m 53.5s	-58° 39' 54"	11.5	Galaxy	0.031x0.022	Pavo	
NGC 7038	21h 16m 19.9s	-47° 08' 41"	11.6	Galaxy	0.025x0.011	Indus	
NGC 6942	20h 41m 58.7s	-54° 14' 15"	11.7	Galaxy	0.017x0.013	Indus	
NGC 6851	20h 04m 52.7s	-48° 13' 58"	11.8	Galaxy	0.016x0.012	Telescopium	
NGC 6893	20h 22m 06.9s	-48° 10' 53"	11.8	Galaxy	0.021x0.014	Telescopium	
NGC 6788	19h 28m 16.8s	-54° 54' 47"	11.9	Galaxy	0.024x0.007	Telescopium	
NGC 7059	21h 28m 42.7s	-59° 56' 09"	11.9	Galaxy	0.027x0.014	Pavo	
IC 5063	20h 53m 24.4s	-57° 00' 03"	11.9	Galaxy	0.017x0.011	Indus	
NGC 6935	20h 39m 39.1s	-52° 02' 46"	12.0	Galaxy	0.017x0.015	Indus	
NGC 7007	21h 06m 44.7s	-52° 28' 45"	12.0	Galaxy	0.016x0.01	Indus	
IC 4906	19h 58m 20.0s	-60° 25' 10"	12.0	Galaxy	0.013x0.007	Pavo	
NGC 6848	20h 04m 12.9s	-56° 02' 20"	12.1	Galaxy	0.02x0.008	Telescopium	
NGC 6887	20h 18m 38.4s	-52° 44' 26"	12.1	Galaxy	0.026x0.010	Telescopium	
NGC 6854	20h 07m 02.5s	-54° 19' 21"	12.2	Galaxy	0.016x0.010	Telescopium	
NGC 6870	20h 11m 28.4s	-48° 13' 57"	12.3	Galaxy	0.021x0.010	Telescopium	
IC 4933	20h 04m 53.5s	-54° 55' 42"	12.3	Galaxy	0.015x0.014	Telescopium	
NGC 6799	19h 33m 44.7s	-55° 52' 06"	12.4	Galaxy	0.013x0.01	Telescopium	
NGC 6861D	20h 09m 37.4s	-48° 09' 31"	12.4	Galaxy	0.017x0.005	Telescopium	
NGC 6987	20h 59m 25.1s	-48° 33' 34"	12.4	Galaxy	0.011x0.01	Indus	
NGC 7002	21h 04m 59.5s	-48° 57' 25"	12.4	Galaxy	0.0125x0.01	Indus	
NGC 7014	21h 09m 05.0s	-47° 06' 19"	12.4	Galaxy	0.014x0.011	Indus	
NGC 6812	19h 46m 50.4s	-55° 18' 08"	12.5	Galaxy	0.009x0.005	Telescopium	
NGC 6850	20h 04m 54.4s	-54° 47' 37"	12.5	Galaxy	0.017x0.009	Telescopium	
NGC 7064	21h 30m 17.8s	-52° 41' 16"	12.5	Galaxy	0.031x0.005	Indus	
NGC 6970	20h 53m 24.7s	-48° 42' 34"	12.6	Galaxy	0.008x0.005	Indus	
NGC 6862	20h 10m 20.4s	-56° 20' 17"	12.7	Galaxy	0.013x0.010	Telescopium	
NGC 6984	20h 59m 11.3s	-51° 48' 02"	12.7	Galaxy	0.015x0.01	Indus	
IC 4938	20h 07m 42.6s	-60° 09' 30"	12.7	Galaxy	0.010x0.009	Pavo	
IC 4943	20h 07m 46.5s	-48° 19' 23"	12.7	Galaxy	0.011x0.009	Telescopium	
NGC 6899	20h 25m 41.1s	-50° 22' 28"	12.8	Galaxy	0.014x0.008	Telescopium	

Table 213: Main objects visible on chart 206 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6948	20h 44m 48.6s	-53° 17' 29"	12.8	Galaxy	0.018x0.008	Indus	
NGC 7004	21h 05m 16.6s	-49° 02' 31"	12.8	Galaxy	0.010x0.005	Indus	
NGC 6855	20h 08m 15.7s	-56° 20' 12"	12.9	Galaxy	0.012x0.010	Telescopium	
NGC 6889	20h 20m 15.7s	-53° 53' 58"	12.9	Galaxy	0.007x0.005	Telescopium	
NGC 6937	20h 40m 04.9s	-52° 04' 47"	12.9	Galaxy	0.020x0.017	Indus	
IC 4935	20h 06m 01.7s	-57° 32' 47"	12.9	Galaxy	0.014x0.003	Pavo	
IC 4994	20h 21m 06.2s	-53° 23' 22"	12.9	Galaxy	0.005x0.005	Telescopium	
NGC 6845	20h 02m 15.6s	-47° 01' 09"	13.0	Galaxy	0.019x0.008	Telescopium	
NGC 7022	21h 10m 49.3s	-49° 13' 47"	13.0	Galaxy	0.012x0.009	Indus	
IC 4851	19h 27m 00.1s	-57° 38' 02"	13.0	Galaxy	0.013x0.005	Pavo	
IC 4854	19h 28m 54.1s	-59° 16' 39"	13.0	Galaxy	0.010x0.01	Pavo	
IC 4857	19h 30m 11.1s	-58° 43' 48"	13.0	Galaxy	0.015x0.01	Pavo	
NGC 6867	20h 11m 54.0s	-54° 43' 48"	13.1	Galaxy	0.016x0.005	Telescopium	
IC 4871	19h 37m 12.0s	-57° 28' 41"	13.1	Galaxy	0.029x0.003	Pavo	
IC 4952	20h 10m 02.4s	-55° 23' 59"	13.1	Galaxy	0.010x0.005	Telescopium	
IC 4980	20h 16m 56.0s	-57° 51' 23"	13.1	Galaxy	0.012x0.005	Pavo	
IC 5002	20h 28m 02.6s	-54° 44' 21"	13.1	Galaxy	0.01x0.006	Telescopium	
IC 5110	21h 32m 04.0s	-59° 55' 19"	13.1	Galaxy	0.011x0.009	Indus	
NGC 6990	21h 01m 17.1s	-55° 29' 27"	13.2	Galaxy	0.01x0.004	Indus	
IC 4886	19h 44m 37.3s	-51° 45' 48"	13.2	Galaxy	0.011x0.005	Telescopium	
IC 5064	20h 54m 00.6s	-57° 09' 49"	13.2	Galaxy	0.008x0.005	Indus	
NGC 7061	21h 28m 39.1s	-48° 59' 04"	13.3	Galaxy	0.01x0.005	Indus	
IC 4880	19h 41m 58.9s	-56° 22' 01"	13.3	Galaxy	0.014x0.003	Telescopium	
IC 4963	20h 13m 29.8s	-55° 11' 26"	13.3	Galaxy	0.008x0.004	Telescopium	
IC 4975	20h 15m 24.5s	-52° 39' 60"	13.3	Galaxy	0.009x0.008	Telescopium	
IC 4995	20h 21m 20.1s	-52° 33' 50"	13.3	Galaxy	0.007x0.005	Telescopium	
IC 4882	19h 41m 49.9s	-55° 09' 13"	13.4	Galaxy	0.008x0.006	Telescopium	
IC 4923	20h 02m 19.7s	-52° 34' 52"	13.4	Galaxy	0.008x0.007	Telescopium	
IC 4879	19h 41m 00.4s	-52° 19' 35"	13.5	Galaxy	0.007x0.003	Telescopium	
IC 4915	19h 59m 54.6s	-52° 35' 34"	13.5	Galaxy	0.008x0.005	Telescopium	
NGC 6918	20h 32m 02.9s	-47° 24' 46"	13.6	Galaxy	0.007x0.005	Indus	
IC 4876	19h 39m 06.7s	-52° 48' 05"	13.6	Galaxy	0.010x0.007	Telescopium	
IC 4883	19h 43m 27.5s	-55° 30' 07"	13.6	Galaxy	0.011x0.004	Telescopium	
IC 4884	19h 44m 11.3s	-58° 05' 06"	13.6	Galaxy	0.010x0.003	Pavo	
IC 4983	20h 17m 26.4s	-52° 01' 51"	13.6	Galaxy	0.008x0.007	Telescopium	
IC 4986	20h 18m 35.1s	-54° 58' 45"	13.6	Galaxy	0.016x0.007	Telescopium	
IC 5034	20h 45m 05.0s	-56° 57' 51"	13.6	Galaxy	0.012x0.005	Indus	
NGC 6982	20h 58m 35.5s	-51° 47' 33"	13.7	Galaxy	0.008x0.005	Indus	
IC 4856	19h 28m 57.6s	-54° 52' 16"	13.7	Galaxy	0.010x0.005	Telescopium	
IC 4877	19h 39m 19.1s	-51° 56' 58"	13.7	Galaxy	0.010x0.001	Telescopium	
IC 4916	19h 59m 39.7s	-50° 13' 20"	13.7	Galaxy	0.005x0.004	Telescopium	
IC 4944	20h 08m 33.0s	-54° 23' 37"	13.7	Galaxy	0.008x0.003	Telescopium	
IC 4965	20h 13m 53.4s	-56° 46' 16"	13.7	Galaxy	0.008x0.008	Pavo	
IC 4875	19h 39m 02.1s	-52° 02' 01"	13.8	Galaxy	0.005x0.003	Telescopium	
IC 4881	19h 41m 53.5s	-55° 48' 53"	13.8	Galaxy	0.007x0.004	Telescopium	
IC 4888	19h 46m 17.7s	-54° 24' 43"	13.8	Galaxy	0.008x0.005	Telescopium	

Table 213: Main objects visible on chart 206 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4909	19h 58m 05.8s	-50° 00' 22"	13.8	Galaxy	0.007x0.003	Telescopium	
IC 4937	20h 06m 43.4s	-56° 12' 13"	13.8	Galaxy	0.015x0.003	Telescopium	
IC 5017	20h 33m 29.0s	-57° 31' 31"	13.8	Galaxy	0.008x0.005	Indus	
NGC 6845B	20h 02m 22.7s	-47° 00' 31"	13.9	Galaxy	0.009x0.005	Telescopium	6845B
IC 4874	19h 37m 40.5s	-47° 13' 29"	13.9	Galaxy	0.01x0.005	Telescopium	
IC 4890	19h 47m 03.3s	-56° 29' 60"	13.9	Galaxy	0.009x0.007	Telescopium	
IC 4894	19h 48m 21.4s	-51° 48' 05"	13.9	Galaxy	0.007x0.005	Telescopium	
IC 4947	20h 08m 54.3s	-53° 05' 23"	13.9	Galaxy	0.006x0.005	Telescopium	
NGC 6851A	20h 07m 07.0s	-47° 55' 28"	14.1	Galaxy	0.010x0.005	Telescopium	6851A
NGC 6861B	20h 07m 23.9s	-48° 25' 18"	14.1	Galaxy	0.01x0.0025	Telescopium	6861B
NGC 6861C	20h 07m 59.8s	-48° 35' 47"	14.1	Galaxy	0.01x0.004	Telescopium	
NGC 7041A	21h 19m 10.1s	-48° 19' 33"	14.1	Galaxy	0.013x0.011	Indus	7041A
IC 4908	19h 58m 22.7s	-55° 44' 31"	14.1	Galaxy	0.005x0.005	Telescopium	
IC 4979	20h 16m 04.2s	-53° 24' 10"	14.1	Galaxy	0.009x0.007	Telescopium	
IC 4843	19h 20m 55.0s	-59° 16' 29"	14.2	Galaxy	0.010x0.001	Pavo	
IC 4848	19h 24m 24.1s	-56° 44' 41"	14.2	Galaxy	0.005x0.004	Pavo	
IC 4878	19h 40m 20.3s	-58° 11' 06"	14.2	Galaxy	0.012x0.003	Pavo	
IC 4961	20h 12m 50.9s	-53° 04' 15"	14.2	Galaxy	0.012x0.004	Telescopium	
IC 4969	20h 14m 19.0s	-53° 51' 55"	14.2	Galaxy	0.005x0.005	Telescopium	
NGC 6861E	20h 12m 19.7s	-48° 38' 10"	14.3	Galaxy	0.011x0.002	Telescopium	
IC 4917-1	20h 00m 17.1s	-52° 13' 23"	14.3	Galaxy	0.006x0.005	Telescopium	IC 4917-1
IC 4919	20h 01m 34.5s	-55° 19' 24"	14.3	Galaxy	0.012x0.005	Telescopium	
IC 4927	20h 03m 13.1s	-53° 52' 02"	14.3	Galaxy	0.01x0.003	Telescopium	
IC 5001	20h 27m 42.8s	-54° 42' 52"	14.3	Galaxy	0.009x0.004	Telescopium	
IC 5021	20h 34m 56.0s	-54° 27' 32"	14.3	Galaxy	0.006x0.005	Indus	
IC 4950	20h 09m 52.9s	-56° 06' 30"	14.4	Galaxy	0.010x0.003	Telescopium	
IC 4957	20h 11m 00.7s	-55° 39' 18"	14.5	Galaxy	0.007x0.005	Telescopium	
IC 4987	20h 18m 40.3s	-52° 13' 22"	14.5	Galaxy	0.008x0.006	Telescopium	
IC 4989	20h 20m 51.2s	-58° 29' 39"	14.5	Galaxy	0.009x0.002	Pavo	
IC 5027	20h 42m 30.8s	-55° 24' 27"	14.5	Galaxy	0.004x0.004	Indus	
IC 5033	20h 45m 18.7s	-57° 16' 07"	14.5	Galaxy	0.008x0.004	Indus	
NGC 7038A	21h 16m 27.6s	-47° 32' 14"	14.6	Galaxy	0.009x0.005	Indus	7038A
IC 4896	19h 50m 35.8s	-58° 56' 07"	14.6	Galaxy	0.007x0.005	Pavo	
IC 4897	19h 50m 42.1s	-51° 49' 17"	14.6	Galaxy	0.006x0.004	Telescopium	
IC 4932	20h 03m 38.1s	-52° 47' 44"	14.6	Galaxy	0.006x0.004	Telescopium	
IC 4978	20h 16m 01.1s	-54° 21' 57"	14.6	Galaxy	0.005x0.002	Telescopium	
IC 4984	20h 17m 38.9s	-52° 38' 49"	14.6	Galaxy	0.007x0.004	Telescopium	
IC 5012	20h 30m 56.4s	-56° 40' 56"	14.6	Galaxy	0.009x0.004	Pavo	
IC 5037	20h 47m 03.9s	-58° 22' 60"	14.6	Galaxy	0.008x0.001	Indus	
NGC 6861F	20h 12m 29.7s	-48° 13' 16"	14.7	Galaxy	0.013x0.002	Telescopium	
IC 4911	19h 59m 03.8s	-51° 56' 13"	14.7	Galaxy	0.005x0.004	Telescopium	
IC 5059	20h 52m 36.6s	-57° 37' 13"	14.7	Galaxy	0.006x0.004	Indus	
IC 5095	21h 18m 44.3s	-59° 52' 17"	14.7	Galaxy	0.007x0.003	Pavo	
NGC 6845D	20h 02m 11.4s	-47° 02' 39"	14.8	Galaxy	0.005x0.001	Telescopium	
IC 4861	19h 30m 46.9s	-57° 32' 16"	14.8	Galaxy	0.009x0.002	Pavo	
IC 4910	19h 59m 14.5s	-56° 48' 50"	14.8	Galaxy	0.004x0.003	Pavo	

Table 213: Main objects visible on chart 206 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7041B	21h 19m 02.5s	-48° 18' 51"	15.0	Galaxy	0.004x0.002	Indus	7041B
IC 4973	20h 16m 01.9s	-58° 18' 57"	15.0	Galaxy	0.005x0.004	Pavo	
IC 4914	19h 59m 16.9s	-50° 04' 54"	15.1	Galaxy	0.004x0.003	Telescopium	
IC 4941	20h 08m 21.6s	-53° 35' 59"	15.1	Galaxy	0.007x0.005	Telescopium	
IC 5035	20h 45m 37.8s	-57° 03' 41"	15.1	Galaxy	0.005x0.002	Indus	
IC 4917-2	20h 00m 10.6s	-52° 13' 35"	15.2	Galaxy	0.004x0.001	Telescopium	IC 4917-2
NGC 6851B	20h 06m 58.0s	-47° 55' 36"	15.3	Galaxy	0.009x0.001	Telescopium	6851B
IC 4902	19h 55m 51.1s	-56° 19' 52"	15.3	Galaxy	0.005x0.002	Telescopium	
IC 4907	19h 57m 35.7s	-52° 24' 17"	15.3	Galaxy	0.004x0.003	Telescopium	
IC 4918	20h 00m 35.5s	-52° 13' 30"	15.3	Galaxy	0.004x0.002	Telescopium	
NGC 6845C	20h 02m 14.4s	-47° 02' 00"	15.4	Galaxy	0.005x0.001	Telescopium	
IC 4900-1	19h 51m 43.9s	-51° 17' 57"	15.4	Galaxy	0.005x0.001	Telescopium	IC 4900-1
IC 4942	20h 08m 11.4s	-52° 33' 26"	15.5	Galaxy	0.005x0.003	Telescopium	
IC 5036	20h 46m 01.2s	-57° 33' 37"	15.5	Galaxy	0.006x0.002	Indus	
IC 4925	20h 02m 32.6s	-52° 48' 57"	15.6	Galaxy	0.007x0.001	Telescopium	
IC 5043	20h 48m 01.3s	-56° 55' 00"	15.6	Galaxy	0.005x0.002	Indus	
IC 4920	20h 01m 32.0s	-53° 20' 01"	15.8	Galaxy	0.005x0.002	Telescopium	

7.208 Main objects visible on chart 207

Table 214: Main objects visible on chart 207

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5152	22h 03m 51.9s	-51° 12' 31"	10.5	Galaxy	0.041x0.026	Indus	
NGC 7049	21h 20m 13.1s	-48° 29' 05"	10.6	Galaxy	0.037x0.025	Indus	
NGC 7090	21h 37m 42.8s	-54° 28' 25"	10.7	Galaxy	0.060x0.01	Indus	
NGC 7144	21h 53m 52.1s	-48° 10' 10"	10.8	Galaxy	0.030x0.03	Grus	
NGC 7205	22h 09m 46.0s	-57° 21' 14"	11.0	Galaxy	0.033x0.016	Tucana	
NGC 7145	21h 54m 29.7s	-47° 47' 49"	11.2	Galaxy	0.020x0.019	Grus	
NGC 7140	21h 53m 28.9s	-55° 29' 04"	11.5	Galaxy	0.034x0.025	Indus	
NGC 7196	22h 07m 03.8s	-50° 01' 52"	11.5	Galaxy	0.020x0.015	Indus	
NGC 7059	21h 28m 42.7s	-59° 56' 09"	11.9	Galaxy	0.027x0.014	Pavo	
NGC 7168	22h 03m 17.6s	-51° 39' 21"	11.9	Galaxy	0.015x0.011	Indus	
NGC 7126	21h 50m 36.6s	-60° 31' 30"	12.2	Galaxy	0.023x0.010	Indus	
NGC 7155	21h 57m 19.6s	-49° 26' 09"	12.2	Galaxy	0.019x0.016	Indus	
NGC 7124	21h 49m 16.5s	-50° 28' 53"	12.3	Galaxy	0.023x0.009	Indus	
NGC 7125	21h 50m 34.6s	-60° 37' 41"	12.4	Galaxy	0.025x0.017	Indus	
NGC 7064	21h 30m 17.8s	-52° 41' 16"	12.5	Galaxy	0.031x0.005	Indus	
NGC 7118	21h 47m 20.0s	-48° 16' 11"	12.6	Galaxy	0.011x0.009	Grus	
NGC 7151	21h 56m 14.5s	-50° 34' 20"	12.7	Galaxy	0.024x0.009	Indus	
NGC 7650	23h 26m 21.9s	-57° 41' 31"	12.7	Galaxy	0.011x0.009	Tucana	
IC 5141	21h 54m 33.8s	-59° 24' 27"	12.7	Galaxy	0.014x0.010	Indus	
NGC 7117	21h 46m 57.3s	-48° 20' 15"	12.8	Galaxy	0.011x0.006	Grus	
NGC 7200	22h 08m 18.4s	-49° 54' 26"	12.9	Galaxy	0.01x0.006	Indus	
IC 5110	21h 32m 04.0s	-59° 55' 19"	13.1	Galaxy	0.011x0.009	Indus	

Table 214: Main objects visible on chart 207 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 7061	21h 28m 39.1s	-48° 59' 04"	13.3	Galaxy	0.01x0.005	Indus	
IC 5188	22h 19m 39.0s	-59° 32' 60"	13.3	Galaxy	0.010x0.009	Tucana	
NGC 7106	21h 43m 49.6s	-52° 36' 59"	13.4	Galaxy	0.014x0.008	Indus	
NGC 7249	22h 21m 40.7s	-55° 02' 01"	13.4	Galaxy	0.009x0.006	Grus	
IC 5125	21h 43m 03.5s	-52° 41' 26"	13.4	Galaxy	0.005x0.005	Indus	
NGC 7652	23h 26m 38.6s	-57° 47' 18"	13.5	Galaxy	0.01x0.005	Tucana	
NGC 7169	22h 03m 56.9s	-47° 36' 36"	13.6	Galaxy	0.008x0.004	Grus	
NGC 7470	23h 06m 16.0s	-50° 00' 51"	13.9	Galaxy	0.011x0.007	Grus	
IC 5187	22h 19m 30.8s	-59° 30' 60"	13.9	Galaxy	0.004x0.004	Tucana	
NGC 7205A	22h 08m 45.0s	-57° 22' 32"	14.0	Galaxy	0.01x0.0075	Indus	7205A
NGC 7041A	21h 19m 10.1s	-48° 19' 33"	14.1	Galaxy	0.013x0.011	Indus	7041A
NGC 7657	23h 27m 47.9s	-57° 42' 22"	14.1	Galaxy	0.011x0.003	Tucana	
IC 5197	22h 21m 02.4s	-60° 02' 44"	14.1	Galaxy	0.009x0.004	Tucana	
IC 5190	22h 20m 13.8s	-59° 47' 31"	14.2	Galaxy	0.01x0.005	Tucana	
IC 5203	22h 23m 46.5s	-59° 40' 55"	14.2	Galaxy	0.010x0.005	Tucana	
IC 5218	22h 29m 17.5s	-60° 18' 08"	14.3	Galaxy	0.010x0.004	Tucana	
IC 5220	22h 29m 13.7s	-59° 37' 50"	14.3	Galaxy	0.009x0.002	Tucana	
NGC 7278	22h 29m 34.2s	-60° 04' 37"	14.4	Galaxy	0.006x0.004	Tucana	
IC 5162	22h 09m 13.0s	-52° 37' 30"	14.4	Galaxy	0.007x0.002	Indus	
IC 5207	22h 24m 41.8s	-60° 28' 26"	14.5	Galaxy	0.012x0.007	Tucana	
IC 5095	21h 18m 44.3s	-59° 52' 17"	14.7	Galaxy	0.007x0.003	Pavo	
NGC 7041B	21h 19m 02.5s	-48° 18' 51"	15.0	Galaxy	0.004x0.002	Indus	7041B
IC 5213	22h 26m 17.2s	-60° 23' 03"	15.0	Galaxy	0.005x0.004	Tucana	
IC 5205	22h 23m 59.9s	-59° 41' 43"	15.2	Galaxy	0.006x0.003	Tucana	

7.209 Main objects visible on chart 208

Table 215: Main objects visible on chart 208

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 292	00h 53m 22.3s	-72° 43' 52"	2.3	Galaxy	2.659x1.709	Tucana	Small Magellanic Cloud
NGC 104	00h 24m 52.6s	-71° 58' 50"	4.0	Globular cluster	0.416x0.416	Tucana	CALDWELL 106, 47 Tucanae
NGC 362	01h 03m 50.7s	-70° 45' 05"	6.8	Globular cluster	0.116x0.116	Tucana	CALDWELL 104
NGC 2997	00h 54m 02.7s	-72° 05' 56"	11.0	Open cluster	0.005x0.005	Tucana	
NGC 3610	01h 02m 47.0s	-71° 30' 37"	11.0	Open cluster	0.013x0.013	Tucana	
IC 5250A	22h 48m 28.5s	-64° 57' 55"	11.1	Galaxy	0.025x0.025	Tucana	IC 5250A
NGC 121	00h 27m 34.0s	-71° 26' 14"	11.2	Globular cluster	0.012x0.012	Tucana	
IC 5250B	22h 48m 33.2s	-64° 57' 48"	11.2	Galaxy	0.025x0.024	Tucana	IC 5250B
NGC 7329	22h 41m 38.2s	-66° 23' 05"	11.3	Galaxy	0.030x0.022	Tucana	
NGC 7676	23h 30m 02.5s	-59° 37' 02"	11.5	Galaxy	0.013x0.007	Tucana	
NGC 306	00h 54m 52.8s	-72° 08' 42"	12.0	Open cluster	0.006x0.006	Tucana	
NGC 3718	01h 04m 01.0s	-71° 58' 07"	12.0	Open cluster	0.062x0.062	Tucana	
NGC 4349	01h 12m 57.6s	-58° 09' 07"	12.0	Galaxy	0.018x0.01	Tucana	
NGC 4589	01h 15m 23.8s	-71° 27' 22"	12.0	Open cluster	0.012x0.012	Tucana	
IC 1611	01h 00m 24.5s	-72° 14' 09"	12.0	Open cluster	0.008x0.008	Tucana	

Table 215: Main objects visible on chart 208 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4111	01h 08m 29.7s	-71° 40' 22"	12.2	Open cluster	0.010x0.010	Tucana	
NGC 7417	22h 58m 58.1s	-64° 56' 30"	12.3	Galaxy	0.02x0.013	Tucana	
NGC 7633	23h 24m 07.7s	-67° 33' 17"	12.4	Galaxy	0.019x0.016	Indus	
NGC 3603	01h 03m 32.4s	-65° 30' 45"	12.5	Galaxy	0.03x0.004	Tucana	
NGC 4062	01h 08m 00.7s	-69° 46' 49"	12.5	Galaxy	0.021x0.008	Tucana	
NGC 5316	00h 15m 35.6s	-60° 13' 43"	12.6	Galaxy	0.016x0.011	Tucana	
NGC 7216	22h 13m 58.9s	-68° 34' 21"	12.6	Galaxy	0.014x0.008	Indus	
NGC 7408	22h 57m 05.3s	-63° 35' 56"	12.6	Galaxy	0.013x0.01	Tucana	
NGC 7823	00h 05m 40.1s	-61° 57' 39"	12.6	Galaxy	0.009x0.008	Tucana	
IC 5235	22h 42m 39.4s	-66° 29' 09"	12.6	Galaxy	0.004x0.003	Tucana	
IC 5244	22h 45m 24.7s	-63° 56' 53"	12.6	Galaxy	0.025x0.003	Tucana	
NGC 7358	22h 46m 48.0s	-65° 01' 36"	12.8	Galaxy	0.015x0.004	Tucana	
IC 5222	22h 31m 10.2s	-65° 34' 07"	12.8	Galaxy	0.015x0.010	Tucana	
IC 1624	01h 05m 56.3s	-71° 56' 47"	12.9	Open cluster	0.005x0.005	Tucana	
IC 5252	22h 49m 23.2s	-68° 48' 27"	12.9	Galaxy	0.01x0.006	Indus	
NGC 3953	01h 05m 41.9s	-71° 53' 53"	13.0	Open cluster	0.141x0.141	Tucana	
NGC 4321	01h 12m 28.0s	-61° 25' 56"	13.0	Galaxy	0.010x0.01	Tucana	M100
IC 5323	23h 28m 40.6s	-67° 42' 58"	13.0	Galaxy	0.013x0.009	Tucana	
IC 5324	23h 29m 20.9s	-67° 43' 19"	13.0	Galaxy	0.009x0.008	Tucana	
NGC 7734	23h 43m 42.3s	-65° 50' 39"	13.1	Galaxy	0.011x0.01	Tucana	
IC 5227	22h 35m 17.4s	-64° 36' 16"	13.1	Galaxy	0.011x0.008	Tucana	
NGC 4406	01h 13m 31.6s	-58° 11' 15"	13.2	Galaxy	0.01x0.005	Tucana	M86
NGC 7655	23h 27m 49.7s	-67° 55' 42"	13.2	Galaxy	0.006x0.005	Indus	
IC 5263	22h 59m 25.5s	-68° 57' 18"	13.2	Galaxy	0.011x0.002	Indus	
NGC 4220	01h 09m 58.9s	-71° 40' 16"	13.4	Open cluster	0.0x0.0	Tucana	
NGC 7622	23h 22m 41.3s	-62° 01' 07"	13.4	Galaxy	0.01x0.003	Tucana	
NGC 7661	23h 28m 17.2s	-65° 10' 21"	13.4	Galaxy	0.015x0.01	Tucana	
NGC 7697	23h 35m 53.3s	-65° 17' 47"	13.5	Galaxy	0.013x0.002	Tucana	
IC 5279	23h 04m 13.3s	-69° 06' 46"	13.5	Galaxy	0.010x0.006	Indus	
IC 5339	23h 39m 06.3s	-68° 20' 31"	13.5	Galaxy	0.008x0.007	Tucana	
NGC 7733	23h 43m 32.2s	-65° 51' 22"	13.6	Galaxy	0.010x0.006	Tucana	
IC 5249	22h 48m 17.6s	-64° 44' 07"	13.6	Galaxy	0.03x0.003	Tucana	
IC 5266	22h 59m 30.0s	-65° 01' 57"	13.7	Galaxy	0.013x0.003	Tucana	
IC 5288	23h 12m 52.0s	-67° 59' 46"	13.7	Galaxy	0.009x0.006	Indus	
IC 5202	22h 24m 12.5s	-65° 42' 40"	13.8	Galaxy	0.010x0.005	Tucana	
IC 5208	22h 25m 50.4s	-65° 08' 09"	13.8	Galaxy	0.013x0.001	Tucana	
IC 5246	22h 47m 50.8s	-64° 48' 09"	13.8	Galaxy	0.008x0.005	Tucana	
IC 5247	22h 48m 01.5s	-65° 10' 42"	13.9	Galaxy	0.010x0.003	Tucana	
IC 5256	22h 50m 59.4s	-68° 35' 41"	13.9	Galaxy	0.009x0.004	Indus	
IC 1532	00h 10m 46.5s	-64° 16' 16"	14.0	Galaxy	0.013x0.004	Tucana	
IC 5280	23h 04m 57.8s	-65° 06' 37"	14.0	Galaxy	0.011x0.004	Tucana	
IC 5302	23h 20m 40.7s	-64° 28' 13"	14.0	Galaxy	0.01x0.0025	Tucana	
IC 5272	23h 00m 40.0s	-65° 05' 45"	14.1	Galaxy	0.01x0.006	Tucana	
IC 5322	23h 29m 34.1s	-67° 39' 41"	14.1	Galaxy	0.005x0.004	Tucana	
IC 5335	23h 36m 48.5s	-67° 17' 48"	14.1	Galaxy	0.009x0.004	Tucana	
IC 5245	22h 46m 08.6s	-65° 15' 45"	14.2	Galaxy	0.006x0.005	Tucana	

Table 215: Main objects visible on chart 208 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5320	23h 29m 25.1s	-67° 39' 39"	14.2	Galaxy	0.005x0.004	Tucana	
IC 5277	23h 03m 07.6s	-65° 06' 03"	14.3	Galaxy	0.004x0.004	Tucana	
IC 5234	22h 41m 24.9s	-65° 43' 50"	14.4	Galaxy	0.008x0.003	Tucana	
IC 5236	22h 42m 44.2s	-66° 31' 24"	14.4	Galaxy	0.006x0.003	Tucana	
IC 5173A	22h 16m 07.9s	-69° 16' 33"	14.5	Galaxy	0.011x0.002	Indus	IC 5173A, Southern Integral-sign
IC 5206	22h 25m 22.5s	-66° 45' 58"	14.5	Galaxy	0.007x0.005	Tucana	
IC 5257	22h 53m 28.4s	-67° 19' 24"	14.5	Galaxy	0.005x0.003	Indus	
IC 5232	22h 38m 55.3s	-68° 46' 39"	14.6	Galaxy	0.005x0.002	Indus	
IC 5301	23h 20m 05.5s	-69° 27' 50"	14.6	Galaxy	0.011x0.005	Indus	
IC 5382	00h 04m 20.8s	-65° 05' 47"	14.6	Galaxy	0.006x0.005	Tucana	
IC 5380	00h 03m 44.1s	-66° 05' 11"	14.7	Galaxy	0.006x0.003	Tucana	
434A	01h 13m 13.4s	-58° 06' 45"	14.9	Galaxy	0.01x0.0025	Tucana	434A
IC 5215	22h 28m 14.5s	-65° 53' 26"	14.9	Galaxy	0.005x0.004	Tucana	
IC 5221	22h 30m 13.9s	-65° 48' 42"	14.9	Galaxy	0.004x0.003	Tucana	
IC 5238	22h 42m 39.5s	-60° 39' 48"	15.0	Galaxy	0.006x0.002	Tucana	
IC 5173B	22h 16m 01.8s	-69° 16' 39"	15.1	Galaxy	0.002x0.001	Indus	IC 5173B
IC 5219	22h 30m 00.1s	-65° 48' 04"	15.1	Galaxy	0.006x0.004	Tucana	
IC 5286	23h 11m 04.2s	-68° 09' 20"	15.4	Galaxy	0.007x0.001	Indus	

7.210 Main objects visible on chart 209

Table 216: Main objects visible on chart 209

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 292	00h 53m 22.3s	-72° 43' 52"	2.3	Galaxy	2.659x1.709	Tucana	Small Magellanic Cloud
NGC 362	01h 03m 50.7s	-70° 45' 05"	6.8	Globular cluster	0.116x0.116	Tucana	CALDWELL 104
NGC 1313	03h 18m 29.3s	-66° 25' 49"	8.7	Galaxy	0.076x0.06	Reticulum	
NGC 3610	01h 02m 47.0s	-71° 30' 37"	11.0	Open cluster	0.013x0.013	Tucana	
NGC 484	01h 20m 16.8s	-58° 25' 49"	11.1	Galaxy	0.015x0.011	Tucana	
NGC 1511	03h 59m 41.6s	-67° 35' 04"	11.3	Galaxy	0.029x0.010	Hydrus	
NGC 1466	03h 44m 28.6s	-71° 36' 57"	11.4	Globular cluster	0.015x0.015	Hydrus	
NGC 4349	01h 12m 57.6s	-58° 09' 07"	12.0	Galaxy	0.018x0.01	Tucana	
NGC 4589	01h 15m 23.8s	-71° 27' 22"	12.0	Open cluster	0.012x0.012	Tucana	
NGC 4111	01h 08m 29.7s	-71° 40' 22"	12.2	Open cluster	0.010x0.010	Tucana	
NGC 1490	03h 53m 43.5s	-65° 57' 56"	12.4	Galaxy	0.010x0.009	Reticulum	
NGC 3603	01h 03m 32.4s	-65° 30' 45"	12.5	Galaxy	0.03x0.004	Tucana	
NGC 4062	01h 08m 00.7s	-69° 46' 49"	12.5	Galaxy	0.021x0.008	Tucana	
IC 4665	01h 17m 55.6s	-58° 48' 55"	12.7	Galaxy	0.014x0.012	Tucana	
NGC 1096	02h 44m 17.5s	-59° 50' 18"	12.8	Galaxy	0.015x0.015	Horologium	
NGC 1244	03h 06m 45.7s	-66° 42' 25"	12.8	Galaxy	0.015x0.003	Horologium	
NGC 813	02h 02m 00.7s	-68° 21' 10"	12.8	Galaxy	0.010x0.007	Hydrus	
NGC 1246	03h 07m 16.5s	-66° 52' 11"	12.9	Galaxy	0.010x0.006	Horologium	
NGC 1473	03h 47m 31.2s	-68° 09' 57"	12.9	Galaxy	0.012x0.006	Hydrus	
NGC 3953	01h 05m 41.9s	-71° 53' 53"	13.0	Open cluster	0.141x0.141	Tucana	
NGC 4321	01h 12m 28.0s	-61° 25' 56"	13.0	Galaxy	0.010x0.01	Tucana	M100

Table 216: Main objects visible on chart 209 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 888	02h 17m 59.1s	-59° 46' 40"	13.0	Galaxy	0.006x0.006	Horologium	
NGC 4406	01h 13m 31.6s	-58° 11' 15"	13.2	Galaxy	0.01x0.005	Tucana	M86
NGC 802	01h 59m 32.1s	-67° 47' 00"	13.2	Galaxy	0.007x0.005	Hydrus	
NGC 1511A	04h 00m 23.8s	-67° 45' 26"	13.4	Galaxy	0.015x0.003	Hydrus	1511A
NGC 4220	01h 09m 58.9s	-71° 40' 16"	13.4	Open cluster	0.0x0.0	Tucana	
646-1	01h 37m 55.3s	-64° 48' 14"	13.5	Galaxy	0.016x0.012	Hydrus	646-1
NGC 1503	03h 56m 42.2s	-65° 59' 21"	13.6	Galaxy	0.007x0.005	Reticulum	
NGC 1313A	03h 20m 18.0s	-66° 38' 15"	13.9	Galaxy	0.01x0.0025	Reticulum	1313A
IC 1980	03h 37m 23.1s	-57° 54' 54"	14.2	Galaxy	0.009x0.004	Reticulum	
NGC 1511B	04h 00m 59.2s	-67° 33' 44"	14.5	Galaxy	0.015x0.002	Hydrus	1511B
434A	01h 13m 13.4s	-58° 06' 45"	14.9	Galaxy	0.01x0.0025	Tucana	434A
646-2	01h 38m 04.2s	-64° 48' 17"	15.0	Galaxy	0.003x0.003	Hydrus	646-2

7.211 Main objects visible on chart 210

Table 217: Main objects visible on chart 210

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
LMC	05h 23m 25.5s	-69° 44' 14"	0.5	Galaxy	3.6x3.6	Dorado	Large Magellanic Cloud
NGC 2055	05h 36m 54.6s	-69° 25' 18"	8.4	Open cluster	0.005x0.005	Dorado	
NGC 1829	05h 04m 54.8s	-68° 01' 54"	8.5	Open cluster	0.017x0.017	Dorado	
NGC 1313	03h 18m 29.3s	-66° 25' 49"	8.7	Galaxy	0.076x0.06	Reticulum	
NGC 1814	05h 03m 46.1s	-67° 16' 35"	9.0	Open cluster	0.008x0.008	Dorado	
NGC 1816	05h 03m 50.5s	-67° 14' 11"	9.0	Open cluster	0.008x0.008	Dorado	
NGC 1820	05h 04m 03.7s	-67° 14' 51"	9.0	Open cluster	0.0x0.0	Dorado	
NGC 1850	05h 08m 39.8s	-68° 44' 22"	9.0	Open cluster	0.028x0.028	Dorado	
NGC 1955	05h 26m 07.9s	-67° 28' 58"	9.0	Open cluster	0.015x0.015	Dorado	
NGC 1968	05h 27m 22.0s	-67° 26' 57"	9.0	Open cluster	0.009x0.009	Dorado	
NGC 1974	05h 27m 58.5s	-67° 24' 33"	9.0	Open cluster	0.014x0.014	Dorado	
NGC 2014	05h 32m 17.1s	-67° 40' 41"	9.0	Open cluster	0.015x0.015	Dorado	
NGC 2050	05h 36m 30.7s	-69° 22' 24"	9.3	Open cluster	0.008x0.008	Dorado	
NGC 1747	04h 55m 11.5s	-67° 08' 27"	9.4	Open cluster	0.2x0.166	Dorado	
NGC 2004	05h 30m 38.7s	-67° 16' 24"	9.6	Open cluster	0.022x0.022	Dorado	
NGC 2042	05h 36m 02.9s	-68° 54' 47"	9.6	Open cluster	0.075x0.075	Dorado	
NGC 2060	05h 37m 44.0s	-69° 09' 48"	9.6	Nebula	0.028x0.028	Dorado	
NGC 2100	05h 42m 01.3s	-69° 12' 15"	9.6	Open cluster	0.023x0.023	Dorado	
NGC 1672	04h 45m 59.9s	-59° 12' 57"	9.7	Galaxy	0.055x0.046	Dorado	
NGC 1818	05h 04m 16.7s	-66° 24' 37"	9.7	Open cluster	0.028x0.028	Dorado	
IC 1848	05h 07m 13.8s	-71° 10' 22"	9.7	Open cluster	0.016x0.016	Mensa	
NGC 1866	05h 13m 42.9s	-65° 26' 44"	9.7	Open cluster	0.037x0.037	Dorado	
NGC 1994	05h 28m 14.7s	-69° 07' 41"	9.8	Open cluster	0.005x0.005	Dorado	
NGC 1731	04h 53m 33.4s	-66° 53' 48"	9.9	Open cluster	0.066x0.066	Dorado	
NGC 1755	04h 55m 12.5s	-68° 10' 34"	9.9	Open cluster	0.021x0.021	Dorado	
NGC 1761	04h 56m 44.2s	-66° 27' 07"	9.9	Open cluster	0.01x0.01	Dorado	
NGC 1858	05h 09m 49.5s	-68° 52' 36"	9.9	Open cluster	0.0x0.0	Dorado	

Table 217: Main objects visible on chart 210 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1983	05h 27m 37.7s	-68° 58' 19"	9.9	Open cluster	0.016x0.016	Dorado	
NGC 1712	04h 50m 52.8s	-69° 22' 40"	10.0	Open cluster	0.020x0.020	Dorado	
NGC 1901	05h 17m 43.6s	-68° 24' 54"	10.0	Open cluster	0.333x0.333	Dorado	
NGC 1984	05h 27m 33.9s	-69° 07' 13"	10.0	Open cluster	0.025x0.02	Dorado	
NGC 1711	04h 50m 28.6s	-69° 57' 20"	10.1	Open cluster	0.02x0.02	Mensa	
NGC 1856	05h 09m 23.2s	-69° 06' 21"	10.1	Open cluster	0.015x0.015	Dorado	
NGC 1871	05h 13m 50.4s	-67° 25' 58"	10.1	Open cluster	0.016x0.016	Dorado	
NGC 2002	05h 30m 19.9s	-66° 52' 16"	10.1	Open cluster	0.016x0.016	Dorado	
NGC 1845	05h 05m 34.1s	-70° 33' 29"	10.2	Open cluster	0.166x0.166	Mensa	
IC 2157	05h 57m 27.0s	-69° 11' 46"	10.2	Open cluster	0.022x0.022	Dorado	
NGC 2210	06h 11m 24.3s	-69° 07' 33"	10.2	Open cluster	0.017x0.017	Dorado	
NGC 2037	05h 34m 44.6s	-69° 43' 32"	10.3	Open cluster	0.004x0.004	Dorado	
NGC 2164	05h 58m 49.2s	-68° 30' 54"	10.3	Open cluster	0.020x0.020	Dorado	
NGC 1854	05h 09m 14.7s	-68° 49' 32"	10.4	Globular cluster	0.038x0.038	Dorado	
NGC 1873	05h 13m 54.6s	-67° 18' 52"	10.4	Open cluster	0.029x0.029	Dorado	
NGC 1916	05h 18m 28.9s	-69° 23' 20"	10.4	Open cluster	0.016x0.016	Dorado	
NGC 2016	05h 31m 26.0s	-69° 55' 45"	10.4	Open cluster	0.002x0.002	Mensa	
NGC 2041	05h 36m 27.1s	-66° 58' 46"	10.4	Open cluster	0.005x0.005	Dorado	
NGC 2122	05h 48m 41.7s	-70° 03' 54"	10.4	Open cluster	0.037x0.037	Mensa	
NGC 1782	04h 57m 45.0s	-69° 21' 55"	10.5	Open cluster	0.01x0.01	Dorado	
NGC 2136	05h 52m 49.6s	-69° 29' 22"	10.5	Open cluster	0.015x0.015	Dorado	
NGC 1767	04h 56m 21.3s	-69° 22' 23"	10.6	Open cluster	0.013x0.013	Dorado	
IC 1805	05h 02m 24.2s	-66° 05' 14"	10.6	Open cluster	0.018x0.018	Dorado	
NGC 1835	05h 04m 58.9s	-69° 22' 49"	10.6	Open cluster	0.01x0.01	Dorado	
NGC 1837	05h 04m 44.5s	-70° 41' 25"	10.6	Open cluster	0.010x0.010	Mensa	
NGC 1951	05h 26m 07.3s	-66° 34' 57"	10.6	Open cluster	0.015x0.015	Dorado	
NGC 2011	05h 32m 18.0s	-67° 30' 41"	10.6	Open cluster	0.008x0.008	Dorado	
NGC 2044	05h 35m 58.4s	-69° 11' 17"	10.6	Open cluster	0.016x0.016	Dorado	
NGC 1559	04h 17m 49.9s	-62° 44' 26"	10.7	Galaxy	0.029x0.016	Reticulum	
NGC 1947	05h 26m 54.4s	-63° 44' 47"	10.7	Galaxy	0.025x0.021	Dorado	
NGC 1978	05h 28m 46.4s	-66° 13' 25"	10.7	Open cluster	0.032x0.032	Dorado	
NGC 2098	05h 42m 25.6s	-68° 16' 04"	10.7	Open cluster	0.013x0.013	Dorado	
NGC 1735	04h 54m 20.5s	-67° 04' 17"	10.8	Open cluster	0.013x0.013	Dorado	
NGC 1774	04h 58m 07.0s	-67° 12' 57"	10.8	Open cluster	0.015x0.015	Dorado	
NGC 1967	05h 26m 36.5s	-69° 05' 14"	10.8	Open cluster	0.003x0.003	Dorado	
NGC 2031	05h 33m 27.9s	-70° 58' 32"	10.8	Open cluster	0.028x0.028	Mensa	
NGC 1783	04h 59m 12.1s	-65° 57' 32"	10.9	Open cluster	0.025x0.025	Dorado	
NGC 1786	04h 59m 06.6s	-67° 43' 08"	10.9	Globular cluster	0.013x0.013	Dorado	
NGC 1787	05h 00m 05.7s	-65° 46' 09"	10.9	Open cluster	0.191x0.191	Dorado	
NGC 2018	05h 31m 06.0s	-71° 03' 13"	10.9	Open cluster	0.023x0.023	Mensa	
NGC 2019	05h 31m 45.9s	-70° 08' 51"	10.9	Globular cluster	0.008x0.008	Mensa	
NGC 2025	05h 32m 16.8s	-71° 42' 13"	10.9	Open cluster	0.015x0.015	Mensa	
NGC 2214	06h 12m 52.6s	-68° 15' 53"	10.9	Open cluster	0.03x0.03	Dorado	
NGC 1770	04h 57m 14.9s	-68° 23' 16"	11.0	Open cluster	0.013x0.013	Dorado	
NGC 1772	04h 56m 46.2s	-69° 31' 44"	11.0	Open cluster	0.012x0.012	Dorado	
NGC 1806	05h 02m 09.2s	-67° 57' 32"	11.0	Open cluster	0.018x0.018	Dorado	

Table 217: Main objects visible on chart 210 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1834	05h 05m 05.3s	-69° 11' 01"	11.0	Open cluster	0.0x0.0	Dorado	
NGC 1860	05h 10m 34.6s	-68° 43' 51"	11.0	Open cluster	0.006x0.006	Dorado	
NGC 1863	05h 11m 34.6s	-68° 42' 21"	11.0	Open cluster	0.004x0.004	Dorado	
NGC 1869	05h 13m 50.8s	-67° 21' 28"	11.0	Open cluster	0.116x0.116	Dorado	
NGC 1872	05h 13m 03.8s	-69° 17' 49"	11.0	Open cluster	0.008x0.008	Dorado	
NGC 1925	05h 21m 32.6s	-65° 47' 48"	11.0	Open cluster	0.091x0.091	Dorado	
NGC 2009	05h 30m 51.8s	-69° 10' 08"	11.0	Open cluster	0.006x0.006	Dorado	
NGC 1727	04h 52m 14.4s	-69° 18' 57"	11.1	Open cluster	0.020x0.020	Dorado	
NGC 1847	05h 07m 02.7s	-68° 56' 54"	11.1	Open cluster	0.008x0.008	Dorado	
NGC 1913	05h 18m 11.4s	-69° 31' 07"	11.1	Open cluster	0.005x0.005	Dorado	
NGC 1986	05h 27m 29.1s	-69° 05' 31"	11.1	Open cluster	0.005x0.005	Mensa	
NGC 2134	05h 51m 41.9s	-71° 05' 37"	11.1	Open cluster	0.020x0.020	Mensa	
NGC 1831	05h 06m 21.6s	-64° 53' 43"	11.2	Open cluster	0.032x0.032	Dorado	
NGC 1910	05h 18m 26.4s	-69° 12' 44"	11.2	Open cluster	0.070x0.070	Dorado	
NGC 1923	05h 21m 37.5s	-65° 28' 12"	11.2	Open cluster	0.007x0.007	Dorado	
NGC 2065	05h 37m 27.3s	-70° 13' 37"	11.2	Open cluster	0.021x0.021	Mensa	
NGC 1511	03h 59m 41.6s	-67° 35' 04"	11.3	Galaxy	0.029x0.010	Hydrus	
NGC 1703	04h 53m 07.8s	-59° 42' 50"	11.3	Galaxy	0.024x0.021	Dorado	
NGC 1846	05h 07m 33.6s	-67° 26' 09"	11.3	Open cluster	0.023x0.023	Dorado	
NGC 1870	05h 13m 03.7s	-69° 05' 48"	11.3	Open cluster	0.004x0.004	Dorado	
NGC 2003	05h 30m 55.0s	-66° 27' 13"	11.3	Open cluster	0.017x0.017	Dorado	
NGC 2096	05h 42m 12.5s	-68° 27' 03"	11.3	Open cluster	0.01x0.01	Dorado	
NGC 1466	03h 44m 28.6s	-71° 36' 57"	11.4	Globular cluster	0.015x0.015	Hydrus	
NGC 2102	05h 42m 11.9s	-69° 28' 46"	11.4	Open cluster	0.008x0.008	Dorado	
NGC 2156	05h 57m 44.8s	-68° 27' 36"	11.4	Open cluster	0.009x0.009	Dorado	
NGC 2159	05h 57m 56.9s	-68° 37' 25"	11.4	Open cluster	0.007x0.007	Dorado	
NGC 1704	04h 49m 48.7s	-69° 43' 34"	11.5	Open cluster	0.014x0.014	Dorado	
NGC 1877	05h 13m 31.8s	-69° 21' 47"	11.5	Open cluster	0.025x0.025	Dorado	
NGC 1922	05h 19m 42.0s	-69° 29' 03"	11.5	Open cluster	0.004x0.004	Dorado	
NGC 1962	05h 26m 11.7s	-68° 49' 23"	11.5	Open cluster	0.004x0.004	Dorado	
IC 2006	05h 31m 18.8s	-66° 57' 34"	11.5	Open cluster	0.008x0.008	Dorado	
NGC 2075	05h 38m 07.9s	-70° 40' 35"	11.5	Open cluster	0.016x0.016	Mensa	
NGC 2107	05h 43m 00.1s	-70° 37' 57"	11.5	Open cluster	0.017x0.017	Mensa	
NGC 1714	04h 52m 09.8s	-66° 53' 47"	11.6	Nebula	0.01x0.01	Dorado	
NGC 1868	05h 14m 43.6s	-63° 56' 07"	11.6	Open cluster	0.032x0.032	Dorado	
NGC 1948	05h 25m 47.6s	-66° 15' 07"	11.6	Open cluster	0.0x0.0	Dorado	
NGC 2005	05h 30m 01.6s	-69° 44' 22"	11.6	Globular cluster	0.015x0.015	Dorado	
NGC 2033	05h 34m 21.1s	-69° 46' 08"	11.6	Open cluster	0.004x0.004	Dorado	
NGC 2093	05h 41m 43.0s	-68° 54' 48"	11.6	Open cluster	0.014x0.014	Dorado	
NGC 2127	05h 51m 14.0s	-69° 21' 27"	11.6	Open cluster	0.01x0.01	Dorado	
NGC 1876	05h 13m 11.3s	-69° 20' 39"	11.7	Open cluster	0.0x0.0	Dorado	
NGC 1953	05h 25m 21.9s	-68° 49' 24"	11.7	Open cluster	0.0x0.0	Dorado	
NGC 2010	05h 30m 21.8s	-70° 48' 25"	11.7	Open cluster	0.018x0.018	Mensa	
IC 2051	05h 35m 53.3s	-71° 00' 03"	11.7	Open cluster	0.014x0.014	Mensa	
NGC 1839	05h 05m 58.0s	-68° 36' 13"	11.8	Open cluster	0.0x0.0	Dorado	
NGC 1840	05h 05m 03.7s	-71° 44' 22"	11.8	Open cluster	0.005x0.005	Mensa	

Table 217: Main objects visible on chart 210 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1902	05h 18m 19.8s	-66° 36' 34"	11.8	Open cluster	0.013x0.013	Dorado	
NGC 1926	05h 20m 26.1s	-69° 30' 25"	11.8	Open cluster	0.005x0.005	Dorado	
NGC 1938	05h 21m 15.3s	-69° 55' 21"	11.8	Open cluster	0.005x0.005	Mensa	
NGC 1944	05h 21m 37.6s	-72° 28' 40"	11.8	Open cluster	0.027x0.027	Mensa	
NGC 2154	05h 57m 36.3s	-67° 15' 40"	11.8	Open cluster	0.02x0.02	Dorado	
NGC 2172	05h 59m 59.8s	-68° 38' 13"	11.8	Open cluster	0.014x0.014	Dorado	
NGC 1804	05h 00m 57.8s	-69° 03' 26"	11.9	Open cluster	0.008x0.008	Dorado	
NGC 1810	05h 03m 25.3s	-66° 21' 27"	11.9	Open cluster	0.01x0.01	Dorado	
NGC 1898	05h 16m 34.1s	-69° 38' 15"	11.9	Open cluster	0.0x0.0	Dorado	
NGC 1903	05h 17m 15.1s	-69° 19' 00"	11.9	Open cluster	0.008x0.008	Dorado	
NGC 1928	05h 20m 48.7s	-69° 27' 40"	11.9	Open cluster	0.004x0.004	Dorado	
NGC 1940	05h 22m 42.8s	-67° 10' 14"	11.9	Open cluster	0.008x0.008	Dorado	
NGC 1971	05h 26m 35.8s	-69° 50' 14"	11.9	Open cluster	0.006x0.006	Dorado	
NGC 2000	05h 27m 11.9s	-71° 51' 55"	11.9	Open cluster	0.014x0.014	Mensa	
NGC 2027	05h 34m 59.1s	-66° 54' 20"	11.9	Open cluster	0.005x0.005	Dorado	
NGC 2038	05h 34m 30.0s	-70° 33' 07"	11.9	Open cluster	0.014x0.014	Mensa	
NGC 2058	05h 36m 43.3s	-70° 09' 08"	11.9	Open cluster	0.015x0.015	Mensa	
IC 2056	04h 16m 42.4s	-60° 09' 46"	11.9	Galaxy	0.015x0.013	Reticulum	
NGC 1641	04h 35m 43.5s	-65° 43' 56"	12.0	Open cluster	0.075x0.05	Dorado	
NGC 1754	04h 54m 08.4s	-70° 24' 48"	12.0	Open cluster	0.0x0.0	Mensa	
NGC 1825	05h 04m 13.8s	-68° 54' 09"	12.0	Open cluster	0.004x0.004	Dorado	
NGC 1852	05h 09m 21.9s	-67° 45' 20"	12.0	Open cluster	0.015x0.015	Dorado	
NGC 1885	05h 14m 59.9s	-68° 57' 30"	12.0	Open cluster	0.006x0.006	Dorado	
NGC 1914	05h 17m 25.5s	-71° 14' 15"	12.0	Open cluster	0.018x0.018	Mensa	
NGC 1937	05h 22m 20.9s	-67° 53' 01"	12.0	Open cluster	0.0x0.0	Dorado	
NGC 1987	05h 27m 04.5s	-70° 43' 24"	12.0	Open cluster	0.014x0.014	Mensa	
NGC 2001	05h 28m 56.1s	-68° 45' 21"	12.0	Open cluster	0.014x0.014	Dorado	
NGC 2118	05h 47m 32.0s	-69° 07' 35"	12.0	Open cluster	0.010x0.010	Dorado	
NGC 2130	05h 52m 21.6s	-67° 19' 51"	12.0	Open cluster	0.01x0.01	Dorado	
NGC 2187A	06h 03m 34.9s	-69° 35' 23"	12.0	Galaxy	0.014x0.007	Dorado	2187A
NGC 1688	04h 48m 39.5s	-59° 46' 09"	12.1	Galaxy	0.02x0.015	Dorado	
NGC 1698	04h 48m 59.9s	-69° 04' 59"	12.1	Open cluster	0.013x0.013	Dorado	
NGC 1809	05h 01m 58.2s	-69° 32' 36"	12.1	Galaxy	0.026x0.006	Dorado	
NGC 1823	05h 03m 15.1s	-70° 18' 40"	12.1	Open cluster	0.007x0.007	Mensa	
NGC 1844	05h 07m 30.0s	-67° 18' 03"	12.1	Open cluster	0.010x0.010	Dorado	
NGC 2021	05h 33m 28.5s	-67° 26' 29"	12.1	Open cluster	0.007x0.007	Dorado	
NGC 2082	05h 41m 56.4s	-64° 17' 37"	12.1	Galaxy	0.010x0.01	Dorado	
NGC 2091	05h 40m 49.6s	-69° 25' 44"	12.1	Open cluster	0.014x0.014	Dorado	
NGC 2135	05h 53m 32.5s	-67° 25' 28"	12.1	Open cluster	0.008x0.008	Dorado	
NGC 2145	05h 54m 08.7s	-70° 53' 58"	12.1	Open cluster	0.014x0.014	Mensa	
NGC 1695	04h 47m 39.2s	-69° 20' 34"	12.2	Open cluster	0.012x0.012	Dorado	
NGC 1756	04h 54m 44.4s	-69° 12' 34"	12.2	Open cluster	0.009x0.009	Dorado	
NGC 1766	04h 55m 48.8s	-70° 11' 51"	12.2	Open cluster	0.005x0.005	Mensa	
NGC 1801	05h 00m 27.4s	-69° 35' 17"	12.2	Open cluster	0.018x0.018	Dorado	
NGC 1836	05h 05m 30.2s	-68° 36' 16"	12.2	Open cluster	0.006x0.006	Dorado	
NGC 1892	05h 17m 14.3s	-64° 56' 30"	12.2	Galaxy	0.024x0.006	Dorado	

Table 217: Main objects visible on chart 210 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1894	05h 15m 43.7s	-69° 26' 58"	12.2	Open cluster	0.006x0.006	Dorado	
NGC 1959	05h 25m 27.0s	-69° 54' 43"	12.2	Open cluster	0.004x0.004	Mensa	
NGC 2053	05h 37m 37.6s	-67° 24' 12"	12.2	Open cluster	0.01x0.01	Dorado	
NGC 2057	05h 36m 43.9s	-70° 15' 32"	12.2	Open cluster	0.015x0.015	Mensa	
NGC 2105	05h 44m 18.3s	-66° 54' 39"	12.2	Open cluster	0.014x0.014	Dorado	
NGC 2109	05h 44m 17.3s	-68° 32' 27"	12.2	Open cluster	0.016x0.016	Dorado	
NGC 2160	05h 58m 07.8s	-68° 17' 20"	12.2	Open cluster	0.01x0.01	Dorado	
NGC 2187	06h 03m 43.2s	-69° 34' 46"	12.2	Galaxy	0.010x0.007	Dorado	NGC 2187A
NGC 2249	06h 25m 42.9s	-68° 55' 52"	12.2	Open cluster	0.014x0.014	Dorado	
NGC 1651	04h 37m 24.3s	-70° 33' 01"	12.3	Open cluster	0.020x0.020	Mensa	
NGC 1718	04h 52m 26.4s	-67° 01' 18"	12.3	Open cluster	0.016x0.016	Dorado	
NGC 1732	04h 53m 07.1s	-68° 37' 16"	12.3	Open cluster	0.007x0.007	Dorado	
IC 1796	05h 02m 55.9s	-61° 06' 54"	12.3	Galaxy	0.015x0.008	Dorado	
NGC 1859	05h 11m 36.2s	-65° 13' 43"	12.3	Open cluster	0.016x0.016	Dorado	
NGC 1882	05h 15m 35.4s	-66° 06' 38"	12.3	Open cluster	0.01x0.01	Dorado	
NGC 1917	05h 18m 54.9s	-68° 58' 50"	12.3	Globular cluster	0.0x0.0	Dorado	
IC 2056	05h 36m 21.3s	-70° 39' 42"	12.3	Open cluster	0.014x0.014	Mensa	
NGC 2113	05h 45m 14.8s	-69° 46' 04"	12.3	Open cluster	0.015x0.015	Dorado	
NGC 1490	03h 53m 43.5s	-65° 57' 56"	12.4	Galaxy	0.010x0.009	Reticulum	
NGC 1793	04h 59m 31.4s	-69° 31' 54"	12.4	Open cluster	0.010x0.010	Dorado	
NGC 1795	04h 59m 39.3s	-69° 46' 31"	12.4	Open cluster	0.013x0.013	Dorado	
NGC 1815	05h 02m 16.5s	-70° 35' 46"	12.4	Open cluster	0.01x0.01	Mensa	
NGC 2121	05h 47m 56.1s	-71° 28' 33"	12.4	Open cluster	0.022x0.022	Mensa	
NGC 2140	05h 54m 10.3s	-68° 35' 51"	12.4	Open cluster	0.014x0.014	Dorado	
NGC 2213	06h 10m 25.4s	-71° 31' 59"	12.4	Open cluster	0.017x0.017	Mensa	
NGC 1702	04h 49m 20.6s	-69° 49' 14"	12.5	Open cluster	0.008x0.008	Mensa	
NGC 1828	05h 04m 14.2s	-69° 21' 51"	12.5	Open cluster	0.005x0.005	Dorado	
NGC 1833	05h 04m 10.4s	-70° 42' 27"	12.5	Open cluster	0.017x0.017	Mensa	
NGC 1881	05h 13m 29.0s	-69° 16' 41"	12.5	Open cluster	0.0x0.0	Dorado	
NGC 1969	05h 26m 23.0s	-69° 49' 36"	12.5	Open cluster	0.006x0.006	Dorado	
NGC 2088	05h 40m 54.5s	-68° 27' 26"	12.5	Open cluster	0.014x0.014	Dorado	
NGC 2111	05h 44m 18.8s	-70° 59' 12"	12.5	Open cluster	0.013x0.013	Mensa	
NGC 2114	05h 46m 08.0s	-68° 02' 32"	12.5	Open cluster	0.008x0.008	Dorado	
NGC 1697	04h 48m 33.5s	-68° 31' 38"	12.6	Open cluster	0.021x0.021	Dorado	
NGC 1706	04h 52m 41.3s	-62° 57' 25"	12.6	Galaxy	0.011x0.008	Dorado	
NGC 1764	04h 56m 26.8s	-67° 39' 59"	12.6	Open cluster	0.008x0.008	Dorado	
NGC 1775	04h 56m 43.7s	-70° 24' 09"	12.6	Open cluster	0.005x0.005	Mensa	
NGC 1824	05h 07m 11.3s	-59° 42' 08"	12.6	Galaxy	0.026x0.006	Dorado	
NGC 1830	05h 04m 31.8s	-69° 18' 59"	12.6	Open cluster	0.005x0.005	Dorado	
NGC 1946	05h 25m 17.4s	-66° 22' 47"	12.6	Open cluster	0.008x0.008	Dorado	
NGC 1972	05h 26m 38.0s	-69° 49' 26"	12.6	Open cluster	0.007x0.007	Dorado	
NGC 2046	05h 35m 26.4s	-70° 13' 49"	12.6	Open cluster	0.010x0.010	Mensa	
NGC 2123	05h 51m 46.4s	-65° 19' 05"	12.6	Open cluster	0.01x0.01	Dorado	
NGC 2155	05h 58m 35.9s	-65° 28' 33"	12.6	Open cluster	0.017x0.017	Dorado	
NGC 1534	04h 09m 00.2s	-62° 45' 02"	12.7	Galaxy	0.014x0.006	Reticulum	
NGC 1629	04h 29m 24.8s	-71° 47' 59"	12.7	Open cluster	0.008x0.008	Hydrus	

Table 217: Main objects visible on chart 210 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1887	05h 16m 07.5s	-66° 17' 58"	12.7	Open cluster	0.009x0.009	Dorado	
NGC 2062	05h 40m 02.1s	-66° 52' 02"	12.7	Open cluster	0.007x0.007	Dorado	
NGC 2117	05h 47m 43.5s	-67° 26' 42"	12.7	Open cluster	0.010x0.010	Dorado	
NGC 2120	05h 50m 41.6s	-63° 40' 15"	12.7	Open cluster	0.016x0.016	Dorado	
NGC 2137	05h 53m 04.3s	-69° 28' 44"	12.7	Open cluster	0.006x0.006	Dorado	
NGC 2205	06h 10m 41.9s	-62° 32' 36"	12.7	Galaxy	0.011x0.007	Pictor	
NGC 1768	04h 56m 57.6s	-68° 13' 20"	12.8	Open cluster	0.007x0.007	Dorado	
NGC 1813	05h 02m 30.7s	-70° 17' 36"	12.8	Open cluster	0.0x0.0	Mensa	
NGC 1849	05h 09m 36.8s	-66° 17' 38"	12.8	Open cluster	0.010x0.010	Dorado	
NGC 1890	05h 13m 28.4s	-72° 03' 28"	12.8	Open cluster	0.01x0.01	Mensa	
NGC 2036	05h 34m 21.0s	-70° 03' 12"	12.8	Open cluster	0.005x0.005	Mensa	
NGC 2108	05h 43m 47.6s	-69° 10' 26"	12.8	Open cluster	0.016x0.016	Dorado	
NGC 2177	06h 01m 13.1s	-67° 44' 02"	12.8	Open cluster	0.01x0.01	Dorado	
NGC 2230	06h 21m 31.9s	-65° 00' 08"	12.8	Galaxy	0.01x0.0075	Dorado	
NGC 1246	03h 07m 16.5s	-66° 52' 11"	12.9	Galaxy	0.010x0.006	Horologium	
NGC 1473	03h 47m 31.2s	-68° 09' 57"	12.9	Galaxy	0.012x0.006	Hydrus	
NGC 1644	04h 37m 44.0s	-66° 09' 42"	12.9	Open cluster	0.013x0.013	Dorado	
NGC 1693	04h 47m 33.6s	-69° 18' 45"	12.9	Open cluster	0.005x0.005	Dorado	
NGC 1838	05h 06m 43.2s	-68° 24' 01"	12.9	Open cluster	0.005x0.005	Dorado	
IC 1864	05h 12m 38.9s	-67° 36' 03"	12.9	Open cluster	0.007x0.007	Dorado	
NGC 1865	05h 12m 19.9s	-68° 45' 02"	12.9	Open cluster	0.006x0.006	Dorado	
NGC 1878	05h 12m 40.0s	-70° 27' 04"	12.9	Open cluster	0.009x0.009	Mensa	
NGC 1939	05h 21m 17.1s	-69° 55' 58"	12.9	Globular cluster	0.004x0.004	Mensa	
NGC 2028	05h 33m 38.5s	-69° 56' 26"	12.9	Open cluster	0.004x0.004	Mensa	
NGC 2059	05h 36m 49.8s	-70° 07' 09"	12.9	Open cluster	0.008x0.008	Mensa	
NGC 2116	05h 47m 09.6s	-68° 30' 09"	12.9	Open cluster	0.008x0.008	Dorado	
NGC 2147	05h 55m 40.9s	-68° 11' 59"	12.9	Open cluster	0.009x0.009	Dorado	
IC 2166	05h 59m 29.8s	-67° 56' 28"	12.9	Open cluster	0.01x0.01	Dorado	
NGC 2178	06h 02m 54.1s	-63° 45' 54"	12.9	Galaxy	0.007x0.007	Pictor	
NGC 1676	04h 43m 50.9s	-68° 47' 42"	13.0	Open cluster	0.006x0.006	Dorado	
NGC 1765	04h 58m 36.0s	-62° 00' 04"	13.0	Galaxy	0.01x0.008	Dorado	
NGC 1776	04h 58m 42.0s	-66° 24' 12"	13.0	Open cluster	0.009x0.009	Dorado	
IC 1919	05h 20m 17.9s	-66° 52' 18"	13.0	Open cluster	0.014x0.014	Dorado	
NGC 1958	05h 25m 21.2s	-69° 49' 19"	13.0	Globular cluster	0.0x0.0	Dorado	
IC 2150	05h 55m 37.2s	-69° 33' 32"	13.0	Galaxy	0.01x0.0075	Dorado	
NGC 1652	04h 38m 20.6s	-68° 38' 17"	13.1	Open cluster	0.125x0.125	Dorado	
IC 1734	04h 53m 29.7s	-68° 44' 25"	13.1	Open cluster	0.010x0.010	Dorado	
NGC 1789	04h 57m 35.7s	-71° 52' 26"	13.1	Open cluster	0.012x0.012	Mensa	
NGC 1791	04h 58m 57.7s	-70° 08' 33"	13.1	Open cluster	0.010x0.010	Mensa	
NGC 2066	05h 37m 32.2s	-70° 09' 25"	13.1	Open cluster	0.005x0.005	Mensa	
NGC 2095	05h 42m 48.0s	-67° 18' 45"	13.1	Open cluster	0.006x0.006	Dorado	
NGC 2153	05h 57m 52.1s	-66° 23' 60"	13.1	Open cluster	0.010x0.010	Dorado	
NGC 1722	04h 51m 44.9s	-69° 22' 10"	13.2	Open cluster	0.008x0.008	Dorado	
NGC 1822	05h 05m 11.6s	-66° 11' 13"	13.2	Open cluster	0.006x0.006	Dorado	
NGC 1861	05h 10m 10.2s	-70° 45' 20"	13.2	Open cluster	0.01x0.01	Mensa	
NGC 1905	05h 18m 22.5s	-67° 15' 36"	13.2	Open cluster	0.008x0.008	Dorado	

Table 217: Main objects visible on chart 210 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1950	05h 24m 23.5s	-69° 53' 13"	13.2	Open cluster	0.008x0.008	Mensa	
NGC 2047	05h 35m 42.1s	-70° 10' 56"	13.2	Open cluster	0.006x0.006	Mensa	
NGC 2072	05h 38m 13.2s	-70° 13' 29"	13.2	Open cluster	0.010x0.010	Mensa	
NGC 2229	06h 21m 27.9s	-64° 57' 58"	13.2	Galaxy	0.012x0.003	Dorado	
NGC 2231	06h 20m 40.5s	-67° 31' 40"	13.2	Open cluster	0.016x0.016	Dorado	
NGC 1529	04h 07m 33.9s	-62° 51' 08"	13.3	Galaxy	0.01x0.0025	Reticulum	
IC 1733	04h 54m 06.7s	-66° 39' 16"	13.3	Open cluster	0.01x0.01	Dorado	
IC 1826	05h 05m 36.3s	-66° 12' 27"	13.3	Open cluster	0.007x0.007	Dorado	
NGC 1862	05h 12m 36.7s	-66° 08' 02"	13.3	Open cluster	0.002x0.002	Dorado	
NGC 2241	06h 22m 46.5s	-68° 56' 05"	13.3	Open cluster	0.010x0.010	Dorado	
NGC 1511A	04h 00m 23.8s	-67° 45' 26"	13.4	Galaxy	0.015x0.003	Hydrus	1511A
NGC 1771	04h 59m 04.8s	-63° 16' 19"	13.4	Galaxy	0.015x0.004	Dorado	
NGC 1867	05h 13m 44.2s	-66° 16' 27"	13.4	Open cluster	0.010x0.010	Dorado	
NGC 1997	05h 30m 42.5s	-63° 11' 29"	13.4	Open cluster	0.010x0.010	Dorado	
NGC 2193	06h 06m 21.5s	-65° 06' 07"	13.4	Open cluster	0.015x0.015	Dorado	
IC 1997	03h 45m 13.8s	-59° 04' 55"	13.4	Galaxy	0.01x0.005	Reticulum	
NGC 1463	03h 46m 36.4s	-59° 45' 18"	13.5	Galaxy	0.010x0.01	Reticulum	
NGC 1897	05h 17m 30.9s	-67° 25' 50"	13.5	Open cluster	0.008x0.008	Dorado	
NGC 1942	05h 24m 51.4s	-63° 55' 37"	13.5	Open cluster	0.009x0.009	Dorado	
NGC 2197	06h 06m 07.1s	-67° 06' 01"	13.5	Open cluster	0.014x0.014	Dorado	
NGC 1503	03h 56m 42.2s	-65° 59' 21"	13.6	Galaxy	0.007x0.005	Reticulum	
NGC 1749	04h 54m 53.8s	-68° 09' 39"	13.6	Open cluster	0.01x0.01	Dorado	
NGC 1900	05h 19m 18.3s	-63° 00' 21"	13.6	Open cluster	0.014x0.014	Dorado	
NGC 2148	05h 59m 00.7s	-59° 07' 33"	13.6	Galaxy	0.009x0.006	Pictor	
NGC 2181	06h 02m 46.8s	-65° 15' 58"	13.6	Open cluster	0.013x0.013	Dorado	
NGC 1526	04h 05m 20.7s	-65° 47' 31"	13.7	Galaxy	0.006x0.005	Reticulum	
NGC 2097	05h 44m 24.7s	-62° 46' 43"	13.7	Open cluster	0.015x0.015	Dorado	
IC 2233	06h 21m 44.0s	-65° 02' 34"	13.7	Galaxy	0.007x0.001	Dorado	
IC 2010	03h 52m 18.3s	-59° 52' 34"	13.7	Galaxy	0.01x0.004	Reticulum	
NGC 1669	04h 43m 04.8s	-65° 46' 52"	13.8	Galaxy	0.006x0.003	Dorado	
IC 1933	05h 22m 29.0s	-66° 08' 09"	13.8	Open cluster	0.0x0.0	Dorado	
NGC 2138	05h 54m 50.6s	-65° 49' 59"	13.8	Open cluster	0.008x0.008	Dorado	
IC 2017	03h 56m 59.2s	-59° 20' 35"	13.8	Galaxy	0.009x0.005	Reticulum	
NGC 1313A	03h 20m 18.0s	-66° 38' 15"	13.9	Galaxy	0.01x0.0025	Reticulum	1313A
IC 1696	04h 48m 28.0s	-68° 12' 44"	14.0	Open cluster	0.007x0.007	Dorado	
NGC 1842	05h 07m 17.7s	-67° 15' 02"	14.0	Open cluster	0.006x0.006	Dorado	
NGC 1673	04h 42m 33.4s	-69° 47' 17"	14.1	Open cluster	0.005x0.005	Mensa	
NGC 1796A	05h 05m 15.7s	-61° 27' 37"	14.1	Galaxy	0.014x0.004	Dorado	1796A
IC 1980	03h 37m 23.1s	-57° 54' 54"	14.2	Galaxy	0.009x0.004	Reticulum	
NGC 1511B	04h 00m 59.2s	-67° 33' 44"	14.5	Galaxy	0.015x0.002	Hydrus	1511B
NGC 1751	04h 54m 04.8s	-69° 46' 41"	14.5	Open cluster	0.014x0.014	Mensa	
NGC 1796B-1	05h 08m 06.5s	-61° 10' 05"	15.0	Galaxy	0.009x0.002	Dorado	1796B-1
IC 2022	03h 59m 01.0s	-58° 59' 37"	15.3	Galaxy	0.009x0.001	Reticulum	
IC 2012	03h 53m 17.1s	-58° 35' 47"	15.5	Galaxy	0.005x0.003	Reticulum	
NGC 1796B-2	05h 08m 08.6s	-61° 10' 16"	15.7	Galaxy	0.005x0.001	Dorado	1796B-2

Table 217: Main objects visible on chart 210 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2070	05h 38m 35.2s	-69° 05' 29"	-	Nebula	0.25x0.166	Dorado	

7.212 Main objects visible on chart 211

Table 218: Main objects visible on chart 211

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
LMC	05h 23m 25.5s	-69° 44' 14"	0.5	Galaxy	3.6x3.6	Dorado	Large Magellanic Cloud
NGC 2516	07h 58m 22.0s	-60° 48' 10"	3.8	Open cluster	0.183x0.183	Carina	CALDWELL 96
NGC 2055	05h 36m 54.6s	-69° 25' 18"	8.4	Open cluster	0.005x0.005	Dorado	
NGC 2014	05h 32m 17.1s	-67° 40' 41"	9.0	Open cluster	0.015x0.015	Dorado	
NGC 2050	05h 36m 30.7s	-69° 22' 24"	9.3	Open cluster	0.008x0.008	Dorado	
NGC 2004	05h 30m 38.7s	-67° 16' 24"	9.6	Open cluster	0.022x0.022	Dorado	
NGC 2042	05h 36m 02.9s	-68° 54' 47"	9.6	Open cluster	0.075x0.075	Dorado	
NGC 2060	05h 37m 44.0s	-69° 09' 48"	9.6	Nebula	0.028x0.028	Dorado	
NGC 2100	05h 42m 01.3s	-69° 12' 15"	9.6	Open cluster	0.023x0.023	Dorado	
NGC 1994	05h 28m 14.7s	-69° 07' 41"	9.8	Open cluster	0.005x0.005	Dorado	
NGC 1983	05h 27m 37.7s	-68° 58' 19"	9.9	Open cluster	0.016x0.016	Dorado	
NGC 1984	05h 27m 33.9s	-69° 07' 13"	10.0	Open cluster	0.025x0.02	Dorado	
IC 2157	05h 57m 27.0s	-69° 11' 46"	10.2	Open cluster	0.022x0.022	Dorado	
NGC 2210	06h 11m 24.3s	-69° 07' 33"	10.2	Open cluster	0.017x0.017	Dorado	
NGC 2037	05h 34m 44.6s	-69° 43' 32"	10.3	Open cluster	0.004x0.004	Dorado	
NGC 2164	05h 58m 49.2s	-68° 30' 54"	10.3	Open cluster	0.020x0.020	Dorado	
NGC 1916	05h 18m 28.9s	-69° 23' 20"	10.4	Open cluster	0.016x0.016	Dorado	
NGC 2016	05h 31m 26.0s	-69° 55' 45"	10.4	Open cluster	0.002x0.002	Mensa	
NGC 2041	05h 36m 27.1s	-66° 58' 46"	10.4	Open cluster	0.005x0.005	Dorado	
NGC 2122	05h 48m 41.7s	-70° 03' 54"	10.4	Open cluster	0.037x0.037	Mensa	
NGC 2442	07h 36m 20.3s	-69° 34' 18"	10.4	Galaxy	0.05x0.041	Volans	
IC 2448	09h 07m 16.7s	-70° 00' 52"	10.4	Planetary Nebula	0.003x0.003	Carina	
NGC 2136	05h 52m 49.6s	-69° 29' 22"	10.5	Open cluster	0.015x0.015	Dorado	
NGC 2011	05h 32m 18.0s	-67° 30' 41"	10.6	Open cluster	0.008x0.008	Dorado	
NGC 2044	05h 35m 58.4s	-69° 11' 17"	10.6	Open cluster	0.016x0.016	Dorado	
NGC 2098	05h 42m 25.6s	-68° 16' 04"	10.7	Open cluster	0.013x0.013	Dorado	
NGC 1967	05h 26m 36.5s	-69° 05' 14"	10.8	Open cluster	0.003x0.003	Dorado	
NGC 2031	05h 33m 27.9s	-70° 58' 32"	10.8	Open cluster	0.028x0.028	Mensa	
NGC 2018	05h 31m 06.0s	-71° 03' 13"	10.9	Open cluster	0.023x0.023	Mensa	
NGC 2019	05h 31m 45.9s	-70° 08' 51"	10.9	Globular cluster	0.008x0.008	Mensa	
NGC 2214	06h 12m 52.6s	-68° 15' 53"	10.9	Open cluster	0.03x0.03	Dorado	
NGC 2009	05h 30m 51.8s	-69° 10' 08"	11.0	Open cluster	0.006x0.006	Dorado	
NGC 1913	05h 18m 11.4s	-69° 31' 07"	11.1	Open cluster	0.005x0.005	Dorado	
NGC 1986	05h 27m 29.1s	-69° 57' 31"	11.1	Open cluster	0.005x0.005	Mensa	
NGC 2134	05h 51m 41.9s	-71° 05' 37"	11.1	Open cluster	0.020x0.020	Mensa	
NGC 1910	05h 18m 26.4s	-69° 12' 44"	11.2	Open cluster	0.070x0.070	Dorado	
NGC 2065	05h 37m 27.3s	-70° 13' 37"	11.2	Open cluster	0.021x0.021	Mensa	
NGC 2434	07h 34m 48.6s	-69° 19' 29"	11.2	Galaxy	0.02x0.018	Volans	

Table 218: Main objects visible on chart 211 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2096	05h 42m 12.5s	-68° 27' 03"	11.3	Open cluster	0.01x0.01	Dorado	
NGC 2102	05h 42m 11.9s	-69° 28' 46"	11.4	Open cluster	0.008x0.008	Dorado	
NGC 2156	05h 57m 44.8s	-68° 27' 36"	11.4	Open cluster	0.009x0.009	Dorado	
NGC 2159	05h 57m 56.9s	-68° 37' 25"	11.4	Open cluster	0.007x0.007	Dorado	
NGC 1922	05h 19m 42.0s	-69° 29' 03"	11.5	Open cluster	0.004x0.004	Dorado	
NGC 1962	05h 26m 11.7s	-68° 49' 23"	11.5	Open cluster	0.004x0.004	Dorado	
IC 2006	05h 31m 18.8s	-66° 57' 34"	11.5	Open cluster	0.008x0.008	Dorado	
NGC 2075	05h 38m 07.9s	-70° 40' 35"	11.5	Open cluster	0.016x0.016	Mensa	
NGC 2107	05h 43m 00.1s	-70° 37' 57"	11.5	Open cluster	0.017x0.017	Mensa	
NGC 2005	05h 30m 01.6s	-69° 44' 22"	11.6	Globular cluster	0.015x0.015	Dorado	
NGC 2033	05h 34m 21.1s	-69° 46' 08"	11.6	Open cluster	0.004x0.004	Dorado	
NGC 2093	05h 41m 43.0s	-68° 54' 48"	11.6	Open cluster	0.014x0.014	Dorado	
NGC 2127	05h 51m 14.0s	-69° 21' 27"	11.6	Open cluster	0.01x0.01	Dorado	
NGC 1953	05h 25m 21.9s	-68° 49' 24"	11.7	Open cluster	0.0x0.0	Dorado	
NGC 2010	05h 30m 21.8s	-70° 48' 25"	11.7	Open cluster	0.018x0.018	Mensa	
IC 2051	05h 35m 53.3s	-71° 00' 03"	11.7	Open cluster	0.014x0.014	Mensa	
NGC 2305	06h 48m 43.8s	-64° 17' 38"	11.7	Galaxy	0.017x0.012	Volans	
NGC 1926	05h 20m 26.1s	-69° 30' 25"	11.8	Open cluster	0.005x0.005	Dorado	
NGC 1938	05h 21m 15.3s	-69° 55' 21"	11.8	Open cluster	0.005x0.005	Mensa	
NGC 2154	05h 57m 36.3s	-67° 15' 40"	11.8	Open cluster	0.02x0.02	Dorado	
NGC 2172	05h 59m 59.8s	-68° 38' 13"	11.8	Open cluster	0.014x0.014	Dorado	
NGC 2397	07h 21m 16.0s	-69° 02' 10"	11.8	Galaxy	0.020x0.01	Volans	
NGC 1928	05h 20m 48.7s	-69° 27' 40"	11.9	Open cluster	0.004x0.004	Dorado	
NGC 1971	05h 26m 35.8s	-69° 50' 14"	11.9	Open cluster	0.006x0.006	Dorado	
NGC 2027	05h 34m 59.1s	-66° 54' 20"	11.9	Open cluster	0.005x0.005	Dorado	
NGC 2038	05h 34m 30.0s	-70° 33' 07"	11.9	Open cluster	0.014x0.014	Mensa	
NGC 2058	05h 36m 43.3s	-70° 09' 08"	11.9	Open cluster	0.015x0.015	Mensa	
NGC 1987	05h 27m 04.5s	-70° 43' 24"	12.0	Open cluster	0.014x0.014	Mensa	
NGC 2001	05h 28m 56.1s	-68° 45' 21"	12.0	Open cluster	0.014x0.014	Dorado	
NGC 2118	05h 47m 32.0s	-69° 07' 35"	12.0	Open cluster	0.010x0.010	Dorado	
NGC 2130	05h 52m 21.6s	-67° 19' 51"	12.0	Open cluster	0.01x0.01	Dorado	
NGC 2187A	06h 03m 34.9s	-69° 35' 23"	12.0	Galaxy	0.014x0.007	Dorado	2187A
NGC 2307	06h 48m 57.4s	-64° 21' 22"	12.0	Galaxy	0.014x0.013	Volans	
NGC 2417	07h 30m 25.2s	-62° 17' 28"	12.0	Galaxy	0.023x0.015	Carina	
NGC 2021	05h 33m 28.5s	-67° 26' 29"	12.1	Open cluster	0.007x0.007	Dorado	
NGC 2082	05h 41m 56.4s	-64° 17' 37"	12.1	Galaxy	0.010x0.01	Dorado	
NGC 2091	05h 40m 49.6s	-69° 25' 44"	12.1	Open cluster	0.014x0.014	Dorado	
NGC 2135	05h 53m 32.5s	-67° 25' 28"	12.1	Open cluster	0.008x0.008	Dorado	
NGC 2145	05h 54m 08.7s	-70° 53' 58"	12.1	Open cluster	0.014x0.014	Mensa	
NGC 1959	05h 25m 27.0s	-69° 54' 43"	12.2	Open cluster	0.004x0.004	Mensa	
NGC 2053	05h 37m 37.6s	-67° 24' 12"	12.2	Open cluster	0.01x0.01	Dorado	
NGC 2057	05h 36m 43.9s	-70° 15' 32"	12.2	Open cluster	0.015x0.015	Mensa	
NGC 2105	05h 44m 18.3s	-66° 54' 39"	12.2	Open cluster	0.014x0.014	Dorado	
NGC 2109	05h 44m 17.3s	-68° 32' 27"	12.2	Open cluster	0.016x0.016	Dorado	
NGC 2160	05h 58m 07.8s	-68° 17' 20"	12.2	Open cluster	0.01x0.01	Dorado	
NGC 2187	06h 03m 43.2s	-69° 34' 46"	12.2	Galaxy	0.010x0.007	Dorado	NGC 2187A

Table 218: Main objects visible on chart 211 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2249	06h 25m 42.9s	-68° 55' 52"	12.2	Open cluster	0.014x0.014	Dorado	
IC 2056	05h 36m 21.3s	-70° 39' 42"	12.3	Open cluster	0.014x0.014	Mensa	
NGC 2113	05h 45m 14.8s	-69° 46' 04"	12.3	Open cluster	0.015x0.015	Dorado	
NGC 2369	07h 16m 49.7s	-62° 22' 37"	12.3	Galaxy	0.029x0.009	Carina	
NGC 2121	05h 47m 56.1s	-71° 28' 33"	12.4	Open cluster	0.022x0.022	Mensa	
NGC 2140	05h 54m 10.3s	-68° 35' 51"	12.4	Open cluster	0.014x0.014	Dorado	
NGC 2213	06h 10m 25.4s	-71° 31' 59"	12.4	Open cluster	0.017x0.017	Mensa	
NGC 2348	07h 03m 02.4s	-67° 25' 17"	12.4	Open cluster	0.091x0.091	Volans	
NGC 1969	05h 26m 23.0s	-69° 49' 36"	12.5	Open cluster	0.006x0.006	Dorado	
NGC 2088	05h 40m 54.5s	-68° 27' 26"	12.5	Open cluster	0.014x0.014	Dorado	
NGC 2111	05h 44m 18.8s	-70° 59' 12"	12.5	Open cluster	0.013x0.013	Mensa	
NGC 2114	05h 46m 08.0s	-68° 02' 32"	12.5	Open cluster	0.008x0.008	Dorado	
NGC 2601	08h 25m 37.5s	-68° 10' 38"	12.5	Galaxy	0.013x0.009	Volans	
NGC 1972	05h 26m 38.0s	-69° 49' 26"	12.6	Open cluster	0.007x0.007	Dorado	
NGC 2046	05h 35m 26.4s	-70° 13' 49"	12.6	Open cluster	0.010x0.010	Mensa	
NGC 2123	05h 51m 46.4s	-65° 19' 05"	12.6	Open cluster	0.01x0.01	Dorado	
NGC 2155	05h 58m 35.9s	-65° 28' 33"	12.6	Open cluster	0.017x0.017	Dorado	
NGC 2062	05h 40m 02.1s	-66° 52' 02"	12.7	Open cluster	0.007x0.007	Dorado	
NGC 2117	05h 47m 43.5s	-67° 26' 42"	12.7	Open cluster	0.010x0.010	Dorado	
NGC 2120	05h 50m 41.6s	-63° 40' 15"	12.7	Open cluster	0.016x0.016	Dorado	
NGC 2137	05h 53m 04.3s	-69° 28' 44"	12.7	Open cluster	0.006x0.006	Dorado	
NGC 2205	06h 10m 41.9s	-62° 32' 36"	12.7	Galaxy	0.011x0.007	Pictor	
NGC 2235	06h 22m 26.4s	-64° 56' 40"	12.7	Galaxy	0.011x0.008	Dorado	
NGC 2297	06h 44m 32.0s	-63° 44' 13"	12.7	Galaxy	0.015x0.012	Pictor	
IC 2200A	07h 28m 19.3s	-62° 24' 02"	12.7	Galaxy	0.010x0.007	Carina	IC 2200A
NGC 2036	05h 34m 21.0s	-70° 03' 12"	12.8	Open cluster	0.005x0.005	Mensa	
NGC 2108	05h 43m 47.6s	-69° 10' 26"	12.8	Open cluster	0.016x0.016	Dorado	
NGC 2177	06h 01m 13.1s	-67° 44' 02"	12.8	Open cluster	0.01x0.01	Dorado	
NGC 2230	06h 21m 31.9s	-65° 00' 08"	12.8	Galaxy	0.01x0.0075	Dorado	
NGC 2381	07h 20m 08.2s	-63° 06' 04"	12.8	Galaxy	0.011x0.011	Carina	
NGC 1939	05h 21m 17.1s	-69° 55' 58"	12.9	Globular cluster	0.004x0.004	Mensa	
NGC 2028	05h 33m 38.5s	-69° 56' 26"	12.9	Open cluster	0.004x0.004	Mensa	
NGC 2059	05h 36m 49.8s	-70° 07' 09"	12.9	Open cluster	0.008x0.008	Mensa	
NGC 2116	05h 47m 09.6s	-68° 30' 09"	12.9	Open cluster	0.008x0.008	Dorado	
NGC 2147	05h 55m 40.9s	-68° 11' 59"	12.9	Open cluster	0.009x0.009	Dorado	
IC 2166	05h 59m 29.8s	-67° 56' 28"	12.9	Open cluster	0.01x0.01	Dorado	
NGC 2178	06h 02m 54.1s	-63° 45' 54"	12.9	Galaxy	0.007x0.007	Pictor	
NGC 2369A	07h 18m 54.5s	-62° 58' 14"	12.9	Galaxy	0.015x0.01	Carina	2369A
IC 2202	07h 27m 56.2s	-67° 36' 43"	12.9	Galaxy	0.016x0.005	Volans	
NGC 1958	05h 25m 21.2s	-69° 49' 19"	13.0	Globular cluster	0.0x0.0	Dorado	
IC 2150	05h 55m 37.2s	-69° 33' 32"	13.0	Galaxy	0.01x0.0075	Dorado	
NGC 2466	07h 45m 06.8s	-71° 27' 19"	13.0	Galaxy	0.013x0.011	Volans	
NGC 2066	05h 37m 32.2s	-70° 09' 25"	13.1	Open cluster	0.005x0.005	Mensa	
NGC 2095	05h 42m 48.0s	-67° 18' 45"	13.1	Open cluster	0.006x0.006	Dorado	
NGC 2153	05h 57m 52.1s	-66° 23' 60"	13.1	Open cluster	0.010x0.010	Dorado	
NGC 1950	05h 24m 23.5s	-69° 53' 13"	13.2	Open cluster	0.008x0.008	Mensa	

Table 218: Main objects visible on chart 211 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2047	05h 35m 42.1s	-70° 10' 56"	13.2	Open cluster	0.006x0.006	Mensa	
NGC 2072	05h 38m 13.2s	-70° 13' 29"	13.2	Open cluster	0.010x0.010	Mensa	
NGC 2229	06h 21m 27.9s	-64° 57' 58"	13.2	Galaxy	0.012x0.003	Dorado	
NGC 2231	06h 20m 40.5s	-67° 31' 40"	13.2	Open cluster	0.016x0.016	Dorado	
NGC 2369B	07h 20m 42.5s	-62° 05' 18"	13.2	Galaxy	0.012x0.011	Carina	2369B
IC 2200	07h 28m 30.2s	-62° 23' 26"	13.2	Galaxy	0.01x0.005	Carina	
NGC 2228	06h 21m 21.1s	-64° 28' 06"	13.3	Galaxy	0.006x0.005	Dorado	
NGC 2241	06h 22m 46.5s	-68° 56' 05"	13.3	Open cluster	0.010x0.010	Dorado	
NGC 2193	06h 06m 21.5s	-65° 06' 07"	13.4	Open cluster	0.015x0.015	Dorado	
NGC 2197	06h 06m 07.1s	-67° 06' 01"	13.5	Open cluster	0.014x0.014	Dorado	
NGC 2257	06h 30m 18.7s	-64° 20' 16"	13.5	Open cluster	0.018x0.018	Dorado	
NGC 2148	05h 59m 00.7s	-59° 07' 33"	13.6	Galaxy	0.009x0.006	Pictor	
NGC 2181	06h 02m 46.8s	-65° 15' 58"	13.6	Open cluster	0.013x0.013	Dorado	
IC 2233	06h 21m 44.0s	-65° 02' 34"	13.7	Galaxy	0.007x0.001	Dorado	
NGC 2138	05h 54m 50.6s	-65° 49' 59"	13.8	Open cluster	0.008x0.008	Dorado	
NGC 2397A	07h 21m 04.1s	-69° 09' 00"	14.1	Galaxy	0.009x0.007	Volans	2397A
NGC 2397B	07h 21m 52.8s	-68° 52' 51"	14.4	Galaxy	0.007x0.004	Volans	2397B
IC 2070	05h 38m 35.2s	-69° 05' 29"	-	Nebula	0.25x0.166	Dorado	

7.213 Main objects visible on chart 212

Table 219: Main objects visible on chart 212

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2602	10h 43m 35.3s	-64° 29' 20"	1.6	Open cluster	0.833x0.833	Carina	CALDWELL 102, Southern Pleiades
NGC 3114	10h 03m 10.9s	-60° 11' 15"	4.2	Open cluster	0.291x0.291	Carina	
NGC 3293	10h 36m 32.4s	-58° 19' 25"	4.7	Open cluster	0.041x0.041	Carina	Gem cluster
NGC 2808	09h 12m 23.6s	-64° 56' 13"	6.2	Globular cluster	0.116x0.116	Carina	
Mel101	10h 42m 50.1s	-65° 11' 40"	8.4	Open cluster	0.125x0.125	Carina	
IC 2553	10h 09m 54.7s	-62° 42' 07"	10.3	Planetary Nebula	0.001x0.001	Carina	
IC 2448	09h 07m 16.7s	-70° 00' 52"	10.4	Planetary Nebula	0.003x0.003	Carina	
IC 2501	09h 39m 18.5s	-60° 10' 24"	10.4	Planetary Nebula	2.5E-x2.5E-	Carina	
NGC 3136	10h 06m 16.0s	-67° 27' 56"	10.7	Galaxy	0.025x0.017	Carina	
NGC 3211	10h 18m 25.7s	-62° 45' 38"	10.7	Planetary Nebula	0.002x0.002	Carina	
NGC 2822	09h 14m 02.1s	-69° 43' 09"	10.9	Galaxy	0.027x0.018	Carina	
NGC 3255	10h 27m 09.7s	-60° 46' 13"	11.0	Open cluster	0.016x0.016	Carina	
IC 2621	11h 01m 02.2s	-65° 20' 45"	11.2	Planetary Nebula	6.666x6.666	Carina	
NGC 2887	09h 23m 48.8s	-63° 53' 24"	11.7	Galaxy	0.017x0.013	Carina	
NGC 3136B	10h 10m 42.4s	-67° 05' 38"	11.7	Galaxy	0.011x0.006	Carina	3136B
NGC 2836	09h 13m 58.3s	-69° 24' 29"	11.8	Galaxy	0.022x0.016	Carina	
IC 2554A	10h 09m 19.4s	-67° 07' 13"	11.8	Galaxy	0.025x0.01	Carina	IC 2554A
NGC 2788	09h 09m 18.3s	-68° 00' 22"	12.3	Galaxy	0.015x0.003	Carina	
NGC 2601	08h 25m 37.5s	-68° 10' 38"	12.5	Galaxy	0.013x0.009	Volans	
NGC 2842	09h 16m 00.6s	-63° 08' 42"	12.5	Galaxy	0.013x0.010	Carina	
IC 2714	08h 53m 55.8s	-59° 17' 11"	12.9	Galaxy	0.009x0.009	Carina	

Table 219: Main objects visible on chart 212 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2788A	09h 02m 53.2s	-68° 17' 54"	13.1	Galaxy	0.024x0.003	Volans	2788A
IC 2554B	10h 09m 20.5s	-67° 06' 36"	13.3	Galaxy	0.016x0.008	Carina	IC 2554B
NGC 2788B	09h 03m 48.9s	-68° 02' 18"	13.7	Galaxy	0.012x0.003	Volans	2788B
NGC 3136A	10h 04m 00.2s	-67° 32' 11"	15.0	Galaxy	0.016x0.002	Carina	3136A
NGC 3372	10h 45m 48.1s	-59° 57' 42"	-	Nebula	1.0x1.0	Carina	CALDWELL 92, Eta Carinae nebula

7.214 Main objects visible on chart 213

Table 220: Main objects visible on chart 213

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2602	10h 43m 35.3s	-64° 29' 20"	1.6	Open cluster	0.833x0.833	Carina	CALDWELL 102, Southern Pleiades
NGC 3532	11h 06m 26.1s	-58° 49' 51"	3.0	Open cluster	0.416x0.416	Carina	CALDWELL 91
NGC 4755	12h 54m 44.3s	-60° 27' 33"	4.2	Open cluster	0.083x0.083	Crux	CALDWELL 94, Jewel Box
NGC 3766	11h 37m 05.1s	-61° 42' 35"	5.3	Open cluster	0.125x0.125	Centaurus	CALDWELL 97
NGC 3572	11h 11m 13.0s	-60° 20' 30"	6.6	Open cluster	0.058x0.058	Carina	
NGC 4609	12h 43m 23.9s	-63° 05' 32"	6.9	Open cluster	0.05x0.05	Crux	CALDWELL 98
NGC 4463	12h 30m 57.3s	-64° 53' 20"	7.2	Open cluster	0.05x0.05	Musca	
NGC 4103	12h 07m 36.2s	-61° 21' 01"	7.4	Open cluster	0.05x0.05	Crux	
NGC 4349	12h 25m 06.2s	-61° 58' 12"	7.4	Open cluster	0.033x0.033	Crux	
NGC 3519	11h 04m 47.5s	-61° 27' 55"	7.7	Open cluster	0.066x0.066	Carina	
NGC 3496	11h 00m 20.4s	-60° 26' 00"	8.2	Open cluster	0.058x0.058	Carina	
NGC 3590	11h 13m 45.5s	-60° 53' 13"	8.2	Open cluster	0.016x0.016	Carina	
IC 2714	11h 18m 08.8s	-62° 49' 13"	8.2	Open cluster	0.125x0.125	Carina	
NGC 4439	12h 29m 26.9s	-60° 12' 09"	8.4	Open cluster	0.033x0.033	Crux	
NGC 4833	13h 00m 48.4s	-70° 58' 15"	8.4	Globular cluster	0.116x0.116	Musca	CALDWELL 105
Mel101	10h 42m 50.1s	-65° 11' 40"	8.4	Open cluster	0.125x0.125	Carina	
NGC 4815	12h 59m 06.7s	-65° 03' 31"	8.6	Open cluster	0.041x0.041	Musca	
NGC 4052	12h 02m 55.9s	-63° 19' 19"	8.8	Open cluster	0.083x0.083	Crux	
NGC 4852	13h 01m 15.1s	-59° 42' 36"	8.9	Open cluster	0.1x0.1	Centaurus	
NGC 3603	11h 15m 53.5s	-61° 21' 34"	9.1	Open cluster	0.033x0.033	Carina	
NGC 5189	13h 34m 49.9s	-66° 03' 56"	10.0	Planetary Nebula	0.019x0.019	Musca	Spiral planetary nebula
IC 4191	13h 10m 00.3s	-67° 44' 19"	10.6	Planetary Nebula	6.666x6.666	Musca	
IC 2621	11h 01m 02.2s	-65° 20' 45"	11.2	Planetary Nebula	6.666x6.666	Carina	
NGC 3699	11h 28m 46.8s	-60° 03' 24"	11.3	Planetary Nebula	0.006x0.006	Centaurus	
NGC 4071	12h 05m 11.8s	-67° 24' 34"	13.0	Planetary Nebula	0.010x0.010	Musca	
NGC 3372	10h 45m 48.1s	-59° 57' 42"	-	Nebula	1.0x1.0	Carina	CALDWELL 92, Eta Carinae nebula
CALDWELL99	12h 51m 05.5s	-62° 35' 52"	-	Nebula	3.5x2.5	Crux	CALDWELL 99, Coalsack
IC 2944	11h 36m 37.7s	-63° 07' 10"	-	Nebula	0.333x0.166	Centaurus	CALDWELL 100, Running Chicken nebula

7.215 Main objects visible on chart 214

Table 221: Main objects visible on chart 214

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 5281	13h 47m 53.3s	-62° 59' 56"	5.9	Open cluster	0.066x0.066	Centaurus	
NGC 5316	13h 55m 17.0s	-61° 56' 17"	6.0	Open cluster	0.125x0.125	Centaurus	
NGC 5617	14h 31m 05.6s	-60° 47' 25"	6.3	Open cluster	0.083x0.083	Centaurus	
NGC 5138	13h 28m 26.4s	-59° 08' 05"	7.6	Open cluster	0.066x0.066	Centaurus	
NGC 5606	14h 29m 07.4s	-59° 42' 44"	7.7	Open cluster	0.025x0.025	Centaurus	
NGC 4833	13h 00m 48.4s	-70° 58' 15"	8.4	Globular cluster	0.116x0.116	Musca	CALDWELL 105
NGC 4815	12h 59m 06.7s	-65° 03' 31"	8.6	Open cluster	0.041x0.041	Musca	
NGC 5168	13h 32m 19.4s	-61° 01' 53"	9.1	Open cluster	0.033x0.033	Centaurus	
IC 4291	13h 38m 10.4s	-62° 11' 04"	9.7	Open cluster	0.033x0.033	Centaurus	
NGC 5315	13h 55m 19.1s	-66° 36' 05"	9.8	Planetary Nebula	0.001x0.001	Circinus	
NGC 5189	13h 34m 49.9s	-66° 03' 56"	10.0	Planetary Nebula	0.019x0.019	Musca	Spiral planetary nebula
IC 4191	13h 10m 00.3s	-67° 44' 19"	10.6	Planetary Nebula	6.666x6.666	Musca	
NGC 5288	13h 50m 04.4s	-64° 46' 31"	11.8	Open cluster	0.025x0.025	Circinus	
NGC 5938	15h 38m 07.2s	-66° 55' 03"	11.8	Galaxy	0.023x0.020	Triangulum Australe	
NGC 5844	15h 12m 13.8s	-64° 44' 24"	12.0	Planetary Nebula	0.010x0.010	Triangulum Australe	
IC 4595	16h 22m 39.8s	-70° 11' 03"	12.0	Galaxy	0.022x0.004	Triangulum Australe	
IC 4585	16h 02m 00.2s	-66° 22' 20"	12.3	Galaxy	0.021x0.006	Triangulum Australe	
IC 4571	15h 50m 35.5s	-67° 22' 39"	12.6	Galaxy	0.011x0.004	Triangulum Australe	
NGC 5799	15h 07m 26.2s	-72° 30' 06"	12.9	Galaxy	0.007x0.005	Apus	
IC 4541	15h 31m 45.4s	-70° 38' 41"	13.3	Galaxy	0.019x0.005	Apus	
IC 4584	16h 01m 55.7s	-66° 25' 56"	15.1	Galaxy	0.015x0.012	Triangulum Australe	
CALDWELL99	12h 51m 05.5s	-62° 35' 52"	-	Nebula	3.5x2.5	Crux	CALDWELL 99, Coalsack

7.216 Main objects visible on chart 215

Table 222: Main objects visible on chart 215

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6025	16h 04m 50.2s	-60° 28' 48"	5.1	Open cluster	0.125x0.125	Triangulum Australe	CALDWELL 95
NGC 6362	17h 33m 46.6s	-67° 03' 34"	8.1	Globular cluster	0.125x0.125	Ara	
NGC 6101	16h 27m 52.9s	-72° 14' 27"	9.2	Globular cluster	0.041x0.041	Apus	CALDWELL 107
NGC 6221	16h 54m 20.2s	-59° 14' 49"	9.9	Galaxy	0.029x0.020	Ara	
NGC 6300	17h 18m 41.1s	-62° 50' 19"	10.2	Galaxy	0.035x0.023	Ara	
IC 4662	17h 48m 54.5s	-64° 38' 50"	11.3	Galaxy	0.026x0.015	Pavo	
NGC 5979	15h 49m 13.3s	-61° 16' 18"	11.5	Planetary Nebula	0.002x0.002	Triangulum Australe	
NGC 6156	16h 36m 27.8s	-60° 39' 19"	11.5	Galaxy	0.013x0.011	Triangulum Australe	
NGC 6407	17h 46m 36.0s	-60° 44' 45"	11.5	Galaxy	0.017x0.013	Pavo	
NGC 6492	18h 04m 38.8s	-66° 25' 44"	11.5	Galaxy	0.020x0.01	Pavo	
NGC 6392	17h 45m 31.1s	-69° 47' 28"	11.6	Galaxy	0.010x0.010	Apus	
NGC 5938	15h 38m 07.2s	-66° 55' 03"	11.8	Galaxy	0.023x0.020	Triangulum Australe	
NGC 6209	16h 57m 06.8s	-72° 36' 51"	11.8	Galaxy	0.016x0.013	Apus	
NGC 6483	18h 01m 14.4s	-63° 40' 06"	11.9	Galaxy	0.013x0.007	Pavo	
IC 4646	17h 25m 29.9s	-60° 00' 56"	11.9	Galaxy	0.023x0.014	Ara	
IC 4595	16h 22m 39.8s	-70° 11' 03"	12.0	Galaxy	0.022x0.004	Triangulum Australe	
NGC 6305	17h 19m 35.9s	-59° 11' 20"	12.1	Galaxy	0.011x0.006	Ara	

Table 222: Main objects visible on chart 215 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6328	17h 25m 27.3s	-65° 01' 31"	12.1	Galaxy	0.02x0.011	Ara	
NGC 6183	16h 43m 37.5s	-69° 24' 20"	12.2	Galaxy	0.015x0.005	Triangulum Australe	
IC 4585	16h 02m 00.2s	-66° 22' 20"	12.3	Galaxy	0.021x0.006	Triangulum Australe	
NGC 6502	18h 06m 01.9s	-65° 24' 27"	12.5	Galaxy	0.010x0.009	Pavo	
IC 4653	17h 28m 45.1s	-60° 53' 35"	12.5	Galaxy	0.009x0.005	Ara	
IC 4571	15h 50m 35.5s	-67° 22' 39"	12.6	Galaxy	0.011x0.004	Triangulum Australe	
NGC 6398	17h 44m 23.8s	-61° 42' 04"	12.7	Galaxy	0.016x0.014	Pavo	
IC 4656	17h 39m 28.0s	-63° 44' 21"	12.7	Galaxy	0.019x0.005	Ara	
IC 4680	18h 15m 15.1s	-64° 28' 11"	12.8	Galaxy	0.014x0.006	Pavo	
IC 4664	17h 50m 41.8s	-63° 15' 30"	12.9	Galaxy	0.015x0.008	Pavo	
NGC 6545	18h 13m 59.0s	-63° 46' 12"	13.2	Galaxy	0.009x0.007	Pavo	
IC 4541	15h 31m 45.4s	-70° 38' 41"	13.3	Galaxy	0.019x0.005	Apus	
IC 4652	17h 28m 02.7s	-59° 44' 33"	13.3	Galaxy	0.006x0.003	Ara	
NGC 6403	17h 45m 03.5s	-61° 41' 20"	13.5	Galaxy	0.004x0.004	Pavo	
IC 4662A	17h 53m 23.4s	-64° 57' 46"	13.8	Galaxy	0.011x0.006	Pavo	IC 4662A
IC 4674	18h 09m 54.6s	-62° 23' 28"	14.3	Galaxy	0.009x0.003	Pavo	
IC 4724	18h 40m 41.2s	-70° 06' 30"	14.3	Galaxy	0.006x0.003	Pavo	
IC 4672	18h 03m 57.0s	-62° 49' 51"	14.6	Galaxy	0.007x0.003	Pavo	
IC 4584	16h 01m 55.7s	-66° 25' 56"	15.1	Galaxy	0.015x0.012	Triangulum Australe	

7.217 Main objects visible on chart 216

Table 223: Main objects visible on chart 216

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6752	19h 12m 26.7s	-59° 57' 02"	5.3	Globular cluster	0.241x0.241	Pavo	CALDWELL 93
NGC 6362	17h 33m 46.6s	-67° 03' 34"	8.1	Globular cluster	0.125x0.125	Ara	
NGC 6744	19h 11m 28.1s	-63° 49' 35"	8.5	Galaxy	0.167x0.107	Pavo	CALDWELL 101
NGC 6684	18h 50m 43.5s	-65° 09' 04"	10.4	Galaxy	0.038x0.024	Pavo	
IC 5052	20h 53m 48.5s	-69° 08' 12"	10.5	Galaxy	0.049x0.007	Pavo	
NGC 6782	19h 25m 31.9s	-59° 53' 10"	11.0	Galaxy	0.02x0.016	Pavo	
NGC 6730	19h 09m 28.5s	-68° 52' 58"	11.2	Galaxy	0.015x0.012	Pavo	
IC 4765	18h 49m 00.3s	-63° 18' 37"	11.2	Galaxy	0.029x0.015	Pavo	
NGC 6876	20h 20m 11.3s	-70° 48' 04"	11.3	Galaxy	0.0225x0.02	Pavo	
IC 4662	17h 48m 54.5s	-64° 38' 50"	11.3	Galaxy	0.026x0.015	Pavo	
IC 4831	19h 16m 22.7s	-62° 14' 22"	11.3	Galaxy	0.029x0.007	Pavo	
NGC 6943	20h 46m 15.4s	-68° 40' 55"	11.4	Galaxy	0.033x0.018	Pavo	
IC 4731	18h 40m 24.4s	-62° 55' 34"	11.4	Galaxy	0.012x0.005	Pavo	
NGC 6492	18h 04m 38.8s	-66° 25' 44"	11.5	Galaxy	0.020x0.01	Pavo	
NGC 6392	17h 45m 31.1s	-69° 47' 28"	11.6	Galaxy	0.010x0.010	Apus	
NGC 6673	18h 46m 46.5s	-62° 16' 37"	11.6	Galaxy	0.018x0.008	Pavo	
IC 4845	19h 21m 57.1s	-60° 21' 15"	11.6	Galaxy	0.012x0.008	Pavo	
NGC 6769	19h 19m 58.1s	-60° 28' 01"	11.8	Galaxy	0.018x0.012	Pavo	
NGC 6808	19h 45m 51.1s	-70° 35' 17"	11.8	Galaxy	0.013x0.007	Pavo	
NGC 6872	20h 18m 49.1s	-70° 42' 40"	11.8	Galaxy	0.05x0.0125	Pavo	

Table 223: Main objects visible on chart 216 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6483	18h 01m 14.4s	-63° 40' 06"	11.9	Galaxy	0.013x0.007	Pavo	
NGC 6770	19h 20m 12.3s	-60° 27' 43"	11.9	Galaxy	0.018x0.013	Pavo	
IC 4710	18h 30m 30.3s	-66° 58' 13"	11.9	Galaxy	0.03x0.023	Pavo	
IC 4742	18h 43m 35.7s	-63° 50' 35"	11.9	Galaxy	0.014x0.011	Pavo	
IC 4906	19h 58m 20.0s	-60° 25' 10"	12.0	Galaxy	0.013x0.007	Pavo	
NGC 6776	19h 27m 00.0s	-63° 49' 24"	12.1	Galaxy	0.013x0.011	Pavo	
NGC 6880	20h 21m 21.6s	-70° 48' 07"	12.1	Galaxy	0.016x0.007	Pavo	
IC 4704	18h 30m 00.8s	-71° 35' 48"	12.1	Galaxy	0.0125x0.01	Pavo	
NGC 6739	19h 09m 26.1s	-61° 20' 17"	12.2	Galaxy	0.02x0.0075	Pavo	
NGC 6877	20h 20m 28.0s	-70° 47' 44"	12.2	Galaxy	0.009x0.005	Pavo	
IC 4682	18h 18m 33.3s	-71° 34' 27"	12.2	Galaxy	0.019x0.013	Pavo	
IC 4712	18h 33m 14.0s	-71° 40' 48"	12.2	Galaxy	0.019x0.01	Pavo	
IC 4785	18h 54m 29.9s	-59° 13' 54"	12.2	Galaxy	0.025x0.011	Pavo	
IC 4798	19h 00m 00.3s	-62° 05' 32"	12.2	Galaxy	0.012x0.006	Pavo	
IC 4800	19h 00m 24.7s	-63° 06' 48"	12.2	Galaxy	0.015x0.008	Pavo	
IC 4827	19h 14m 57.3s	-60° 49' 39"	12.2	Galaxy	0.023x0.004	Pavo	
NGC 6733	19h 07m 49.7s	-62° 10' 04"	12.3	Galaxy	0.015x0.01	Pavo	
IC 4830	19h 15m 22.1s	-59° 15' 45"	12.3	Galaxy	0.014x0.010	Pavo	
IC 4696	18h 22m 04.1s	-64° 43' 25"	12.4	Galaxy	0.02x0.0075	Pavo	
IC 4842	19h 20m 60.0s	-60° 36' 35"	12.4	Galaxy	0.012x0.006	Pavo	
NGC 6502	18h 06m 01.9s	-65° 24' 27"	12.5	Galaxy	0.010x0.009	Pavo	
NGC 6614	18h 26m 50.0s	-63° 14' 13"	12.5	Galaxy	0.011x0.009	Pavo	
NGC 6722	19h 05m 24.7s	-64° 52' 02"	12.5	Galaxy	0.024x0.003	Pavo	
NGC 6771	19h 20m 14.8s	-60° 30' 44"	12.5	Galaxy	0.019x0.004	Pavo	
IC 4801	19h 01m 22.7s	-64° 38' 55"	12.5	Galaxy	0.015x0.008	Pavo	
NGC 6684A	18h 54m 08.7s	-64° 48' 30"	12.6	Galaxy	0.025x0.015	Pavo	6684A
NGC 6746	19h 12m 00.6s	-61° 56' 16"	12.6	Galaxy	0.011x0.007	Pavo	
NGC 6860	20h 10m 19.2s	-61° 02' 46"	12.6	Galaxy	0.010x0.006	Pavo	
IC 4729	18h 41m 48.6s	-67° 24' 30"	12.6	Galaxy	0.013x0.010	Pavo	
IC 4741	18h 43m 27.3s	-63° 55' 44"	12.6	Galaxy	0.011x0.007	Pavo	
NGC 6734	19h 09m 00.1s	-65° 25' 53"	12.7	Galaxy	0.010x0.009	Pavo	
NGC 6844	20h 04m 30.0s	-65° 10' 39"	12.7	Galaxy	0.011x0.009	Pavo	
IC 4705	18h 30m 17.8s	-71° 40' 49"	12.7	Galaxy	0.01x0.006	Pavo	
IC 4745	18h 44m 21.6s	-64° 55' 27"	12.7	Galaxy	0.018x0.007	Pavo	
IC 4836	19h 17m 53.1s	-60° 10' 01"	12.7	Galaxy	0.012x0.011	Pavo	
IC 4938	20h 07m 42.6s	-60° 09' 30"	12.7	Galaxy	0.010x0.009	Pavo	
IC 5053	20h 55m 22.2s	-71° 04' 21"	12.7	Galaxy	0.013x0.005	Pavo	
NGC 6719	19h 05m 01.6s	-68° 33' 36"	12.8	Galaxy	0.014x0.006	Pavo	
IC 4680	18h 15m 15.1s	-64° 28' 11"	12.8	Galaxy	0.014x0.006	Pavo	
IC 4727	18h 39m 37.1s	-62° 41' 00"	12.8	Galaxy	0.009x0.009	Pavo	
IC 4766	18h 49m 17.7s	-63° 16' 16"	12.8	Galaxy	0.01x0.003	Pavo	
IC 4784	18h 54m 29.8s	-63° 14' 10"	12.8	Galaxy	0.011x0.009	Pavo	
NGC 6706	18h 58m 32.4s	-63° 08' 29"	12.9	Galaxy	0.012x0.005	Pavo	
IC 4664	17h 50m 41.8s	-63° 15' 30"	12.9	Galaxy	0.015x0.008	Pavo	
IC 4718	18h 35m 26.7s	-60° 06' 49"	12.9	Galaxy	0.010x0.005	Pavo	
IC 4728	18h 39m 37.9s	-62° 30' 50"	12.9	Galaxy	0.016x0.005	Pavo	

Table 223: Main objects visible on chart 216 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5031	20h 46m 59.0s	-67° 28' 22"	12.9	Galaxy	0.005x0.003	Pavo	
IC 5032	20h 47m 00.9s	-67° 29' 06"	12.9	Galaxy	0.005x0.003	Pavo	
IC 4778	18h 51m 39.3s	-61° 41' 50"	13.0	Galaxy	0.01x0.0075	Pavo	
IC 4790	18h 58m 17.3s	-64° 54' 13"	13.0	Galaxy	0.01x0.005	Pavo	
IC 4794	18h 58m 49.0s	-62° 03' 55"	13.0	Galaxy	0.007x0.004	Pavo	
IC 4852	19h 28m 00.2s	-60° 17' 56"	13.0	Galaxy	0.012x0.010	Pavo	
IC 4854	19h 28m 54.1s	-59° 16' 39"	13.0	Galaxy	0.010x0.01	Pavo	
IC 4866	19h 36m 10.0s	-61° 06' 19"	13.0	Galaxy	0.012x0.009	Pavo	
IC 4869	19h 37m 37.3s	-60° 59' 13"	13.0	Galaxy	0.009x0.008	Pavo	
IC 4702	18h 24m 39.4s	-59° 13' 42"	13.1	Galaxy	0.012x0.008	Pavo	
IC 4749	18h 44m 31.5s	-63° 11' 24"	13.1	Galaxy	0.005x0.005	Pavo	
IC 4751	18h 44m 59.4s	-62° 05' 33"	13.1	Galaxy	0.008x0.005	Pavo	
IC 4758	18h 48m 05.6s	-65° 44' 10"	13.1	Galaxy	0.009x0.007	Pavo	
IC 4799	19h 00m 39.7s	-63° 54' 17"	13.1	Galaxy	0.012x0.009	Pavo	
IC 4870	19h 39m 21.7s	-65° 46' 10"	13.1	Galaxy	0.013x0.007	Pavo	
IC 4981	20h 21m 31.0s	-70° 47' 26"	13.1	Galaxy	0.008x0.002	Pavo	
IC 5054	20h 55m 31.1s	-70° 57' 20"	13.1	Galaxy	0.016x0.003	Pavo	
NGC 6545	18h 13m 59.0s	-63° 46' 12"	13.2	Galaxy	0.009x0.007	Pavo	
NGC 6718	19h 03m 16.5s	-66° 05' 00"	13.2	Galaxy	0.011x0.006	Pavo	
IC 4730	18h 40m 32.8s	-63° 19' 59"	13.2	Galaxy	0.011x0.005	Pavo	
IC 4748	18h 44m 29.8s	-64° 03' 12"	13.2	Galaxy	0.006x0.006	Pavo	
NGC 6736	19h 09m 14.9s	-65° 23' 57"	13.3	Galaxy	0.009x0.007	Pavo	
IC 4692	18h 16m 24.8s	-58° 41' 14"	13.3	Galaxy	0.015x0.007	Pavo	
IC 4754	18h 45m 40.1s	-61° 58' 11"	13.3	Galaxy	0.010x0.01	Pavo	
IC 4769	18h 49m 25.8s	-63° 08' 10"	13.3	Galaxy	0.015x0.01	Pavo	
IC 4815	19h 08m 28.9s	-61° 40' 19"	13.3	Galaxy	0.006x0.005	Pavo	
IC 4951	20h 11m 04.9s	-61° 47' 47"	13.3	Galaxy	0.022x0.004	Pavo	
IC 5023	20h 39m 49.2s	-67° 07' 13"	13.3	Galaxy	0.011x0.004	Pavo	
IC 4726	18h 38m 40.1s	-62° 50' 16"	13.4	Galaxy	0.007x0.006	Pavo	
IC 4767	18h 49m 24.1s	-63° 23' 03"	13.4	Galaxy	0.012x0.004	Pavo	
IC 4789	18h 58m 13.1s	-68° 32' 33"	13.4	Galaxy	0.012x0.005	Pavo	
IC 4819	19h 08m 41.8s	-59° 26' 17"	13.4	Galaxy	0.024x0.002	Pavo	
IC 4887	19h 50m 13.7s	-69° 32' 27"	13.4	Galaxy	0.008x0.006	Pavo	
IC 4960	20h 17m 15.6s	-70° 28' 51"	13.4	Galaxy	0.009x0.002	Pavo	
IC 4713	18h 31m 51.0s	-67° 12' 39"	13.5	Galaxy	0.009x0.007	Pavo	
IC 4723	18h 37m 38.9s	-63° 21' 38"	13.5	Galaxy	0.005x0.005	Pavo	
IC 4753	18h 45m 12.9s	-62° 05' 19"	13.5	Galaxy	0.005x0.005	Pavo	
IC 4823-1	19h 13m 58.1s	-63° 56' 40"	13.5	Galaxy	0.009x0.006	Pavo	IC 4823-1
IC 4929	20h 08m 39.5s	-71° 37' 41"	13.5	Galaxy	0.011x0.003	Pavo	
IC 4764	18h 48m 50.1s	-63° 27' 49"	13.6	Galaxy	0.010x0.002	Pavo	
IC 4773	18h 53m 20.9s	-69° 54' 12"	13.6	Galaxy	0.013x0.007	Pavo	
IC 4805	19h 03m 42.3s	-63° 01' 13"	13.6	Galaxy	0.010x0.003	Pavo	
IC 4813	19h 07m 30.2s	-66° 29' 39"	13.6	Galaxy	0.011x0.009	Pavo	
IC 4834	19h 18m 13.0s	-63° 58' 23"	13.6	Galaxy	0.009x0.004	Pavo	
IC 4849	19h 27m 14.9s	-62° 53' 45"	13.6	Galaxy	0.009x0.004	Pavo	
IC 4885	19h 45m 25.5s	-60° 36' 26"	13.6	Galaxy	0.015x0.003	Pavo	

Table 223: Main objects visible on chart 216 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4936	20h 07m 25.2s	-61° 22' 33"	13.6	Galaxy	0.012x0.006	Pavo	
NGC 6784B	19h 28m 20.3s	-65° 34' 49"	13.7	Galaxy	0.007x0.004	Pavo	6784B
IC 4743	18h 43m 08.7s	-61° 45' 13"	13.7	Galaxy	0.006x0.003	Pavo	
IC 4793	18h 58m 33.8s	-61° 22' 29"	13.7	Galaxy	0.01x0.004	Pavo	
IC 4838	19h 18m 23.6s	-61° 34' 50"	13.7	Galaxy	0.010x0.004	Pavo	
IC 4859	19h 32m 32.5s	-66° 16' 29"	13.7	Galaxy	0.009x0.005	Pavo	
IC 4862	19h 33m 28.3s	-67° 17' 00"	13.7	Galaxy	0.011x0.003	Pavo	
IC 4899	19h 56m 21.4s	-70° 32' 29"	13.7	Galaxy	0.008x0.005	Pavo	
NGC 6784A	19h 28m 15.8s	-65° 35' 22"	13.8	Galaxy	0.007x0.004	Pavo	6784A
IC 4662A	17h 53m 23.4s	-64° 57' 46"	13.8	Galaxy	0.011x0.006	Pavo	IC 4662A
IC 4967	20h 18m 14.6s	-70° 30' 28"	13.8	Galaxy	0.005x0.005	Pavo	
IC 4992	20h 25m 20.6s	-71° 30' 22"	13.8	Galaxy	0.019x0.001	Pavo	
NGC 6630	18h 34m 17.1s	-63° 16' 39"	13.9	Galaxy	0.006x0.005	Pavo	
IC 4779	18h 52m 11.8s	-62° 59' 27"	13.9	Galaxy	0.007x0.006	Pavo	
IC 4780	18h 51m 31.3s	-59° 13' 54"	13.9	Galaxy	0.006x0.005	Pavo	
IC 4841	19h 22m 48.4s	-72° 11' 29"	13.9	Galaxy	0.008x0.005	Pavo	
IC 4945	20h 13m 10.9s	-70° 57' 29"	13.9	Galaxy	0.01x0.0025	Pavo	
IC 4970	20h 18m 49.4s	-70° 41' 34"	13.9	Galaxy	0.005x0.001	Pavo	
IC 4985	20h 22m 36.2s	-70° 55' 43"	13.9	Galaxy	0.006x0.005	Pavo	
IC 4787	18h 57m 59.0s	-68° 39' 28"	14.0	Galaxy	0.010x0.009	Pavo	
IC 4828	19h 15m 18.9s	-62° 03' 01"	14.0	Galaxy	0.009x0.004	Pavo	
IC 4833	19h 17m 20.1s	-62° 17' 47"	14.0	Galaxy	0.005x0.004	Pavo	
IC 4847	19h 25m 16.3s	-65° 28' 13"	14.0	Galaxy	0.007x0.005	Pavo	
IC 4853	19h 32m 47.1s	-71° 01' 52"	14.0	Galaxy	0.009x0.002	Pavo	
IC 4860	19h 33m 15.6s	-67° 19' 44"	14.0	Galaxy	0.008x0.006	Pavo	
IC 4892	19h 51m 26.2s	-70° 10' 53"	14.0	Galaxy	0.013x0.002	Pavo	
NGC 6776A	19h 26m 46.4s	-63° 38' 46"	14.1	Galaxy	0.011x0.002	Pavo	6776A
IC 4737	18h 41m 39.4s	-62° 34' 46"	14.1	Galaxy	0.006x0.005	Pavo	
IC 4747	18h 48m 08.3s	-72° 36' 33"	14.1	Galaxy	0.009x0.001	Pavo	
IC 4760	18h 47m 27.4s	-62° 56' 16"	14.1	Galaxy	0.006x0.006	Pavo	
IC 4804	19h 02m 46.1s	-61° 48' 23"	14.1	Galaxy	0.01x0.008	Pavo	
IC 4809	19h 05m 44.4s	-62° 09' 58"	14.1	Galaxy	0.008x0.005	Pavo	
IC 4904	20h 00m 32.1s	-70° 08' 04"	14.1	Galaxy	0.008x0.006	Pavo	
IC 4698	18h 22m 43.0s	-63° 20' 17"	14.2	Galaxy	0.010x0.002	Pavo	
IC 4750	18h 44m 44.0s	-62° 57' 07"	14.2	Galaxy	0.009x0.003	Pavo	
IC 4822	19h 16m 52.8s	-72° 24' 31"	14.2	Galaxy	0.005x0.002	Pavo	
IC 4843	19h 20m 55.0s	-59° 16' 29"	14.2	Galaxy	0.010x0.001	Pavo	
IC 4934	20h 09m 04.4s	-69° 25' 38"	14.2	Galaxy	0.013x0.003	Pavo	
IC 4968	20h 16m 27.7s	-64° 44' 33"	14.2	Galaxy	0.006x0.005	Pavo	
IC 4674	18h 09m 54.6s	-62° 23' 28"	14.3	Galaxy	0.009x0.003	Pavo	
IC 4724	18h 40m 41.2s	-70° 06' 30"	14.3	Galaxy	0.006x0.003	Pavo	
IC 4755	18h 46m 43.9s	-63° 40' 18"	14.3	Galaxy	0.010x0.002	Pavo	
IC 4781	18h 53m 18.6s	-62° 46' 12"	14.3	Galaxy	0.007x0.004	Pavo	
IC 4903	20h 00m 07.5s	-70° 24' 13"	14.3	Galaxy	0.011x0.003	Pavo	
IC 4921	20h 05m 05.1s	-67° 46' 27"	14.3	Galaxy	0.005x0.003	Pavo	
IC 4939	20h 08m 42.8s	-60° 41' 07"	14.3	Galaxy	0.010x0.005	Pavo	

Table 223: Main objects visible on chart 216 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5024	20h 41m 58.4s	-71° 02' 37"	14.3	Galaxy	0.007x0.006	Pavo	
IC 5055	20h 54m 37.1s	-68° 22' 33"	14.3	Galaxy	0.005x0.003	Pavo	
IC 4714	18h 32m 46.2s	-66° 38' 20"	14.4	Galaxy	0.010x0.002	Pavo	
IC 4739	18h 42m 31.3s	-61° 52' 59"	14.4	Galaxy	0.008x0.006	Pavo	
IC 4974-1	20h 16m 58.8s	-61° 48' 04"	14.4	Galaxy	0.004x0.004	Pavo	IC 4974-1
IC 4982	20h 22m 13.3s	-70° 56' 56"	14.4	Galaxy	0.005x0.002	Pavo	
NGC 6744A	19h 10m 25.5s	-63° 42' 00"	14.5	Galaxy	0.015x0.005	Pavo	6744A
IC 4744	18h 43m 37.3s	-63° 12' 17"	14.5	Galaxy	0.005x0.002	Pavo	
IC 4771	18h 50m 05.7s	-63° 13' 35"	14.5	Galaxy	0.009x0.004	Pavo	
IC 4989	20h 20m 51.2s	-58° 29' 39"	14.5	Galaxy	0.009x0.002	Pavo	
IC 4672	18h 03m 57.0s	-62° 49' 51"	14.6	Galaxy	0.007x0.003	Pavo	
IC 4735	18h 41m 31.7s	-62° 56' 17"	14.6	Galaxy	0.005x0.005	Pavo	
IC 4738	18h 42m 07.0s	-61° 53' 01"	14.6	Galaxy	0.01x0.005	Pavo	
IC 4740	18h 44m 55.3s	-68° 20' 27"	14.6	Galaxy	0.007x0.007	Pavo	
IC 4770	18h 49m 52.5s	-63° 21' 44"	14.6	Galaxy	0.006x0.005	Pavo	
IC 4820	19h 10m 54.8s	-63° 26' 07"	14.6	Galaxy	0.010x0.007	Pavo	
IC 4896	19h 50m 35.8s	-58° 56' 07"	14.6	Galaxy	0.007x0.005	Pavo	
IC 4972	20h 19m 35.4s	-70° 51' 24"	14.6	Galaxy	0.01x0.001	Pavo	
IC 5028	20h 44m 57.6s	-65° 34' 52"	14.6	Galaxy	0.01x0.008	Pavo	
IC 4752	18h 45m 31.6s	-64° 03' 44"	14.7	Galaxy	0.005x0.005	Pavo	
IC 4823-2	19h 13m 56.1s	-63° 57' 08"	14.7	Galaxy	0.004x0.003	Pavo	IC 4823-2
IC 4905	19h 57m 39.7s	-61° 10' 19"	14.7	Galaxy	0.011x0.002	Pavo	
IC 4974-2	20h 16m 59.8s	-61° 48' 24"	14.7	Galaxy	0.004x0.003	Pavo	IC 4974-2
IC 4976	20h 17m 13.9s	-61° 49' 08"	14.7	Galaxy	0.007x0.003	Pavo	
IC 4759	18h 47m 22.9s	-63° 03' 58"	14.8	Galaxy	0.007x0.005	Pavo	
IC 4803-3	19h 02m 18.6s	-62° 02' 18"	14.8	Galaxy	0.006x0.003	Pavo	
IC 4825	19h 19m 23.9s	-72° 42' 55"	14.8	Galaxy	0.003x0.002	Pavo	
IC 4803-1	19h 02m 30.1s	-62° 02' 04"	14.9	Galaxy	0.01x0.003	Pavo	IC 4803-1
IC 4953	20h 11m 34.7s	-62° 44' 16"	14.9	Galaxy	0.005x0.003	Pavo	
IC 4795	18h 58m 55.1s	-61° 35' 02"	15.0	Galaxy	0.009x0.001	Pavo	
IC 4811	19h 07m 34.5s	-67° 06' 20"	15.0	Galaxy	0.005x0.004	Pavo	
IC 4973	20h 16m 01.9s	-58° 18' 57"	15.0	Galaxy	0.005x0.004	Pavo	
IC 4990	20h 23m 06.5s	-66° 49' 56"	15.0	Galaxy	0.006x0.003	Pavo	
IC 4993	20h 23m 37.6s	-66° 55' 36"	15.1	Galaxy	0.004x0.004	Pavo	
IC 5010	20h 32m 04.7s	-66° 02' 10"	15.1	Galaxy	0.005x0.002	Pavo	
IC 4746	18h 48m 05.8s	-72° 39' 03"	15.2	Galaxy	0.004x0.004	Pavo	
IC 4803-2	19h 02m 33.8s	-62° 02' 03"	15.2	Galaxy	0.005x0.002	Pavo	IC 4803-2
IC 4893	19h 52m 35.6s	-72° 27' 47"	15.2	Galaxy	0.004x0.003	Pavo	
IC 4788	18h 56m 23.0s	-63° 25' 42"	15.3	Galaxy	0.013x0.001	Pavo	
IC 4971	20h 18m 54.6s	-70° 33' 49"	15.3	Galaxy	0.006x0.002	Pavo	
IC 4962	20h 18m 35.4s	-71° 04' 24"	15.4	Galaxy	0.009x0.001	Pavo	

7.218 Main objects visible on chart 217

Table 224: Main objects visible on chart 217

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5052	20h 53m 48.5s	-69° 08' 12"	10.5	Galaxy	0.049x0.007	Pavo	
IC 5250A	22h 48m 28.5s	-64° 57' 55"	11.1	Galaxy	0.025x0.025	Tucana	IC 5250A
NGC 7083	21h 37m 08.7s	-63° 49' 20"	11.2	Galaxy	0.032x0.019	Indus	
NGC 7192	22h 08m 08.8s	-64° 13' 40"	11.2	Galaxy	0.015x0.015	Indus	
IC 5250B	22h 48m 33.2s	-64° 57' 48"	11.2	Galaxy	0.025x0.024	Tucana	IC 5250B
NGC 6876	20h 20m 11.3s	-70° 48' 04"	11.3	Galaxy	0.0225x0.02	Pavo	
NGC 7329	22h 41m 38.2s	-66° 23' 05"	11.3	Galaxy	0.030x0.022	Tucana	
NGC 6943	20h 46m 15.4s	-68° 40' 55"	11.4	Galaxy	0.033x0.018	Pavo	
NGC 6808	19h 45m 51.1s	-70° 35' 17"	11.8	Galaxy	0.013x0.007	Pavo	
NGC 6872	20h 18m 49.1s	-70° 42' 40"	11.8	Galaxy	0.05x0.0125	Pavo	
NGC 7021	21h 12m 48.2s	-63° 57' 03"	11.8	Galaxy	0.029x0.013	Pavo	
NGC 7059	21h 28m 42.7s	-59° 56' 09"	11.9	Galaxy	0.027x0.014	Pavo	
NGC 7096	21h 42m 42.2s	-63° 49' 33"	11.9	Galaxy	0.015x0.013	Indus	
IC 5084	21h 10m 42.0s	-63° 12' 57"	12.0	Galaxy	0.013x0.008	Pavo	
IC 5092	21h 17m 42.4s	-64° 23' 21"	12.0	Galaxy	0.024x0.019	Pavo	
NGC 6880	20h 21m 21.6s	-70° 48' 07"	12.1	Galaxy	0.016x0.007	Pavo	
NGC 6877	20h 20m 28.0s	-70° 47' 44"	12.2	Galaxy	0.009x0.005	Pavo	
NGC 7123	21h 52m 17.4s	-70° 14' 56"	12.2	Galaxy	0.025x0.009	Indus	
NGC 7126	21h 50m 36.6s	-60° 31' 30"	12.2	Galaxy	0.023x0.010	Indus	
NGC 7417	22h 58m 58.1s	-64° 56' 30"	12.3	Galaxy	0.02x0.013	Tucana	
IC 5096	21h 19m 48.3s	-63° 41' 04"	12.3	Galaxy	0.026x0.004	Pavo	
NGC 7125	21h 50m 34.6s	-60° 37' 41"	12.4	Galaxy	0.025x0.017	Indus	
NGC 7219	22h 14m 27.1s	-64° 45' 33"	12.5	Galaxy	0.014x0.008	Tucana	
IC 5042	20h 49m 19.8s	-65° 00' 59"	12.5	Galaxy	0.01x0.006	Pavo	
IC 5071	21h 03m 09.0s	-72° 34' 17"	12.5	Galaxy	0.028x0.006	Pavo	
NGC 7216	22h 13m 58.9s	-68° 34' 21"	12.6	Galaxy	0.014x0.008	Indus	
NGC 7408	22h 57m 05.3s	-63° 35' 56"	12.6	Galaxy	0.013x0.01	Tucana	
IC 5038	20h 48m 25.0s	-64° 56' 59"	12.6	Galaxy	0.011x0.005	Pavo	
IC 5235	22h 42m 39.4s	-66° 29' 09"	12.6	Galaxy	0.004x0.003	Tucana	
IC 5244	22h 45m 24.7s	-63° 56' 53"	12.6	Galaxy	0.025x0.003	Tucana	
NGC 6844	20h 04m 30.0s	-65° 10' 39"	12.7	Galaxy	0.011x0.009	Pavo	
IC 5053	20h 55m 22.2s	-71° 04' 21"	12.7	Galaxy	0.013x0.005	Pavo	
IC 5141	21h 54m 33.8s	-59° 24' 27"	12.7	Galaxy	0.014x0.010	Indus	
IC 5176	22h 16m 15.0s	-66° 45' 36"	12.7	Galaxy	0.036x0.004	Tucana	
NGC 7179	22h 06m 08.0s	-63° 57' 32"	12.8	Galaxy	0.016x0.006	Indus	
NGC 7358	22h 46m 48.0s	-65° 01' 36"	12.8	Galaxy	0.015x0.004	Tucana	
IC 5222	22h 31m 10.2s	-65° 34' 07"	12.8	Galaxy	0.015x0.010	Tucana	
NGC 7191	22h 08m 10.4s	-64° 32' 43"	12.9	Galaxy	0.013x0.005	Indus	
IC 5031	20h 46m 59.0s	-67° 28' 22"	12.9	Galaxy	0.005x0.003	Pavo	
IC 5032	20h 47m 00.9s	-67° 29' 06"	12.9	Galaxy	0.005x0.003	Pavo	
IC 5106	21h 30m 15.4s	-70° 45' 19"	12.9	Galaxy	0.011x0.007	Pavo	
IC 5252	22h 49m 23.2s	-68° 48' 27"	12.9	Galaxy	0.01x0.006	Indus	
NGC 7032	21h 16m 57.8s	-68° 12' 43"	13.1	Galaxy	0.009x0.008	Pavo	
NGC 7199	22h 09m 49.1s	-64° 37' 03"	13.1	Galaxy	0.009x0.006	Indus	
IC 4981	20h 21m 31.0s	-70° 47' 26"	13.1	Galaxy	0.008x0.002	Pavo	
IC 5054	20h 55m 31.1s	-70° 57' 20"	13.1	Galaxy	0.016x0.003	Pavo	

Table 224: Main objects visible on chart 217 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5110	21h 32m 04.0s	-59° 55' 19"	13.1	Galaxy	0.011x0.009	Indus	
IC 5227	22h 35m 17.4s	-64° 36' 16"	13.1	Galaxy	0.011x0.008	Tucana	
IC 5138	21h 54m 49.4s	-68° 52' 02"	13.2	Galaxy	0.007x0.004	Indus	
IC 5263	22h 59m 25.5s	-68° 57' 18"	13.2	Galaxy	0.011x0.002	Indus	
IC 5023	20h 39m 49.2s	-67° 07' 13"	13.3	Galaxy	0.011x0.004	Pavo	
IC 5101	21h 23m 25.2s	-65° 45' 30"	13.3	Galaxy	0.010x0.007	Pavo	
IC 5188	22h 19m 39.0s	-59° 32' 60"	13.3	Galaxy	0.010x0.009	Tucana	
IC 4887	19h 50m 13.7s	-69° 32' 27"	13.4	Galaxy	0.008x0.006	Pavo	
IC 4960	20h 17m 15.6s	-70° 28' 51"	13.4	Galaxy	0.009x0.002	Pavo	
IC 5116	21h 38m 41.0s	-70° 54' 05"	13.4	Galaxy	0.013x0.01	Indus	
IC 5120	21h 40m 12.3s	-64° 16' 06"	13.4	Galaxy	0.016x0.005	Indus	
IC 5009	20h 34m 28.3s	-72° 06' 19"	13.5	Galaxy	0.01x0.005	Pavo	
IC 5279	23h 04m 13.3s	-69° 06' 46"	13.5	Galaxy	0.010x0.006	Indus	
IC 5069	21h 01m 57.1s	-71° 44' 22"	13.6	Galaxy	0.007x0.007	Pavo	
IC 5123	21h 46m 26.5s	-72° 20' 13"	13.6	Galaxy	0.012x0.004	Indus	
IC 5249	22h 48m 17.6s	-64° 44' 07"	13.6	Galaxy	0.03x0.003	Tucana	
IC 4899	19h 56m 21.4s	-70° 32' 29"	13.7	Galaxy	0.008x0.005	Pavo	
IC 5075	21h 06m 23.4s	-71° 47' 44"	13.7	Galaxy	0.009x0.003	Pavo	
IC 5142	21h 56m 42.6s	-65° 25' 28"	13.7	Galaxy	0.013x0.006	Indus	
IC 5266	22h 59m 30.0s	-65° 01' 57"	13.7	Galaxy	0.013x0.003	Tucana	
IC 5288	23h 12m 52.0s	-67° 59' 46"	13.7	Galaxy	0.009x0.006	Indus	
IC 4967	20h 18m 14.6s	-70° 30' 28"	13.8	Galaxy	0.005x0.005	Pavo	
IC 4992	20h 25m 20.6s	-71° 30' 22"	13.8	Galaxy	0.019x0.001	Pavo	
IC 5094	21h 19m 20.4s	-66° 21' 05"	13.8	Galaxy	0.008x0.005	Pavo	
IC 5202	22h 24m 12.5s	-65° 42' 40"	13.8	Galaxy	0.010x0.005	Tucana	
IC 5208	22h 25m 50.4s	-65° 08' 09"	13.8	Galaxy	0.013x0.001	Tucana	
IC 5246	22h 47m 50.8s	-64° 48' 09"	13.8	Galaxy	0.008x0.005	Tucana	
IC 4945	20h 13m 10.9s	-70° 57' 29"	13.9	Galaxy	0.01x0.0025	Pavo	
IC 4970	20h 18m 49.4s	-70° 41' 34"	13.9	Galaxy	0.005x0.001	Pavo	
IC 4985	20h 22m 36.2s	-70° 55' 43"	13.9	Galaxy	0.006x0.005	Pavo	
IC 5100	21h 23m 12.9s	-65° 51' 20"	13.9	Galaxy	0.015x0.003	Pavo	
IC 5165	22h 11m 25.4s	-64° 29' 21"	13.9	Galaxy	0.010x0.003	Tucana	
IC 5187	22h 19m 30.8s	-59° 30' 60"	13.9	Galaxy	0.004x0.004	Tucana	
IC 5247	22h 48m 01.5s	-65° 10' 42"	13.9	Galaxy	0.010x0.003	Tucana	
IC 5256	22h 50m 59.4s	-68° 35' 41"	13.9	Galaxy	0.009x0.004	Indus	
IC 4892	19h 51m 26.2s	-70° 10' 53"	14.0	Galaxy	0.013x0.002	Pavo	
IC 5073	21h 05m 08.5s	-72° 36' 56"	14.0	Galaxy	0.01x0.008	Pavo	
IC 5074	21h 02m 29.2s	-63° 04' 55"	14.0	Galaxy	0.006x0.005	Pavo	
IC 5280	23h 04m 57.8s	-65° 06' 37"	14.0	Galaxy	0.011x0.004	Tucana	
IC 4904	20h 00m 32.1s	-70° 08' 04"	14.1	Galaxy	0.008x0.006	Pavo	
IC 5185	22h 19m 02.1s	-65° 46' 01"	14.1	Galaxy	0.004x0.003	Tucana	
IC 5197	22h 21m 02.4s	-60° 02' 44"	14.1	Galaxy	0.009x0.004	Tucana	
IC 5272	23h 00m 40.0s	-65° 05' 45"	14.1	Galaxy	0.01x0.006	Tucana	
IC 4934	20h 09m 04.4s	-69° 25' 38"	14.2	Galaxy	0.013x0.003	Pavo	
IC 4968	20h 16m 27.7s	-64° 44' 33"	14.2	Galaxy	0.006x0.005	Pavo	
IC 5190	22h 20m 13.8s	-59° 47' 31"	14.2	Galaxy	0.01x0.005	Tucana	

Table 224: Main objects visible on chart 217 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5203	22h 23m 46.5s	-59° 40' 55"	14.2	Galaxy	0.010x0.005	Tucana	
IC 5245	22h 46m 08.6s	-65° 15' 45"	14.2	Galaxy	0.006x0.005	Tucana	
IC 4903	20h 00m 07.5s	-70° 24' 13"	14.3	Galaxy	0.011x0.003	Pavo	
IC 4921	20h 05m 05.1s	-67° 46' 27"	14.3	Galaxy	0.005x0.003	Pavo	
IC 5024	20h 41m 58.4s	-71° 02' 37"	14.3	Galaxy	0.007x0.006	Pavo	
IC 5055	20h 54m 37.1s	-68° 22' 33"	14.3	Galaxy	0.005x0.003	Pavo	
IC 5218	22h 29m 17.5s	-60° 18' 08"	14.3	Galaxy	0.010x0.004	Tucana	
IC 5220	22h 29m 13.7s	-59° 37' 50"	14.3	Galaxy	0.009x0.002	Tucana	
IC 5230	22h 36m 51.4s	-61° 27' 13"	14.3	Galaxy	0.009x0.003	Tucana	
IC 5277	23h 03m 07.6s	-65° 06' 03"	14.3	Galaxy	0.004x0.004	Tucana	
NGC 7278	22h 29m 34.2s	-60° 04' 37"	14.4	Galaxy	0.006x0.004	Tucana	
IC 4974-1	20h 16m 58.8s	-61° 48' 04"	14.4	Galaxy	0.004x0.004	Pavo	IC 4974-1
IC 4982	20h 22m 13.3s	-70° 56' 56"	14.4	Galaxy	0.005x0.002	Pavo	
IC 5107	21h 29m 42.8s	-65° 39' 22"	14.4	Galaxy	0.008x0.003	Pavo	
IC 5108	21h 34m 32.2s	-72° 34' 43"	14.4	Galaxy	0.01x0.003	Indus	
IC 5147	22h 00m 47.8s	-65° 21' 46"	14.4	Galaxy	0.01x0.005	Indus	
IC 5154	22h 05m 51.0s	-66° 01' 35"	14.4	Galaxy	0.004x0.002	Indus	
IC 5229	22h 36m 01.5s	-61° 17' 16"	14.4	Galaxy	0.005x0.005	Tucana	
IC 5234	22h 41m 24.9s	-65° 43' 50"	14.4	Galaxy	0.008x0.003	Tucana	
IC 5236	22h 42m 44.2s	-66° 31' 24"	14.4	Galaxy	0.006x0.003	Tucana	
IC 5044	20h 52m 30.5s	-71° 49' 50"	14.5	Galaxy	0.005x0.003	Pavo	
IC 5045	20h 52m 39.3s	-71° 50' 29"	14.5	Galaxy	0.005x0.003	Pavo	
IC 5173A	22h 16m 07.9s	-69° 16' 33"	14.5	Galaxy	0.011x0.002	Indus	IC 5173A, Southern Integral-sign
IC 5206	22h 25m 22.5s	-66° 45' 58"	14.5	Galaxy	0.007x0.005	Tucana	
IC 5207	22h 24m 41.8s	-60° 28' 26"	14.5	Galaxy	0.012x0.007	Tucana	
IC 5257	22h 53m 28.4s	-67° 19' 24"	14.5	Galaxy	0.005x0.003	Indus	
IC 4972	20h 19m 35.4s	-70° 51' 24"	14.6	Galaxy	0.01x0.001	Pavo	
IC 5028	20h 44m 57.6s	-65° 34' 52"	14.6	Galaxy	0.01x0.008	Pavo	
IC 5099	21h 23m 28.6s	-70° 54' 19"	14.6	Galaxy	0.005x0.003	Pavo	
IC 5129	21h 49m 10.3s	-65° 18' 12"	14.6	Galaxy	0.005x0.005	Indus	
IC 5140	21h 55m 41.0s	-67° 14' 44"	14.6	Galaxy	0.016x0.002	Indus	
IC 5158	22h 07m 47.7s	-67° 25' 45"	14.6	Galaxy	0.007x0.005	Indus	
IC 5232	22h 38m 55.3s	-68° 46' 39"	14.6	Galaxy	0.005x0.002	Indus	
IC 5301	23h 20m 05.5s	-69° 27' 50"	14.6	Galaxy	0.011x0.005	Indus	
IC 4974-2	20h 16m 59.8s	-61° 48' 24"	14.7	Galaxy	0.004x0.003	Pavo	IC 4974-2
IC 4976	20h 17m 13.9s	-61° 49' 08"	14.7	Galaxy	0.007x0.003	Pavo	
IC 5095	21h 18m 44.3s	-59° 52' 17"	14.7	Galaxy	0.007x0.003	Pavo	
IC 5118	21h 43m 49.3s	-71° 17' 58"	14.7	Galaxy	0.009x0.002	Indus	
IC 5182	22h 17m 23.2s	-65° 21' 52"	14.7	Galaxy	0.005x0.003	Tucana	
IC 5196	22h 21m 28.6s	-65° 18' 49"	14.7	Galaxy	0.010x8.333	Tucana	
IC 5060	20h 56m 33.6s	-71° 34' 04"	14.8	Galaxy	0.008x0.001	Pavo	
IC 4953	20h 11m 34.7s	-62° 44' 16"	14.9	Galaxy	0.005x0.003	Pavo	
IC 5051	20h 54m 11.3s	-71° 43' 12"	14.9	Galaxy	0.005x0.003	Pavo	
IC 5215	22h 28m 14.5s	-65° 53' 26"	14.9	Galaxy	0.005x0.004	Tucana	
IC 5221	22h 30m 13.9s	-65° 48' 42"	14.9	Galaxy	0.004x0.003	Tucana	
IC 4990	20h 23m 06.5s	-66° 49' 56"	15.0	Galaxy	0.006x0.003	Pavo	

Table 224: Main objects visible on chart 217 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5048	20h 53m 29.2s	-71° 43' 55"	15.0	Galaxy	0.005x0.004	Pavo	
IC 5213	22h 26m 17.2s	-60° 23' 03"	15.0	Galaxy	0.005x0.004	Tucana	
IC 5238	22h 42m 39.5s	-60° 39' 48"	15.0	Galaxy	0.006x0.002	Tucana	
IC 4993	20h 23m 37.6s	-66° 55' 36"	15.1	Galaxy	0.004x0.004	Pavo	
IC 5010	20h 32m 04.7s	-66° 02' 10"	15.1	Galaxy	0.005x0.002	Pavo	
IC 5173B	22h 16m 01.8s	-69° 16' 39"	15.1	Galaxy	0.002x0.001	Indus	IC 5173B
IC 5219	22h 30m 00.1s	-65° 48' 04"	15.1	Galaxy	0.006x0.004	Tucana	
IC 5091	21h 19m 16.7s	-70° 34' 35"	15.2	Galaxy	0.004x0.003	Pavo	
IC 5093	21h 20m 25.7s	-70° 32' 44"	15.2	Galaxy	0.005x0.002	Pavo	
IC 5205	22h 23m 59.9s	-59° 41' 43"	15.2	Galaxy	0.006x0.003	Tucana	
IC 4971	20h 18m 54.6s	-70° 33' 49"	15.3	Galaxy	0.006x0.002	Pavo	
IC 5200	22h 23m 32.9s	-65° 40' 30"	15.3	Galaxy	0.005x0.003	Tucana	
IC 4962	20h 18m 35.4s	-71° 04' 24"	15.4	Galaxy	0.009x0.001	Pavo	
IC 5286	23h 11m 04.2s	-68° 09' 20"	15.4	Galaxy	0.007x0.001	Indus	

7.219 Main objects visible on chart 218

Table 225: Main objects visible on chart 218

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 292	00h 53m 22.3s	-72° 43' 52"	2.3	Galaxy	2.659x1.709	Tucana	Small Magellanic Cloud
NGC 104	00h 24m 52.6s	-71° 58' 50"	4.0	Globular cluster	0.416x0.416	Tucana	CALDWELL 106, 47 Tucanae
NGC 362	01h 03m 50.7s	-70° 45' 05"	6.8	Globular cluster	0.116x0.116	Tucana	CALDWELL 104
NGC 330	00h 56m 56.6s	-72° 21' 54"	9.6	Globular cluster	0.011x0.011	Tucana	
NGC 3766	01h 04m 27.3s	-72° 43' 39"	10.9	Open cluster	0.008x0.008	Tucana	CALDWELL 97
NGC 1528	00h 33m 40.8s	-73° 01' 01"	11.0	Open cluster	0.014x0.014	Tucana	
NGC 2997	00h 54m 02.7s	-72° 05' 56"	11.0	Open cluster	0.005x0.005	Tucana	
NGC 3610	01h 02m 47.0s	-71° 30' 37"	11.0	Open cluster	0.013x0.013	Tucana	
NGC 643	01h 35m 18.5s	-75° 27' 54"	11.0	Open cluster	0.012x0.012	Hydrus	
NGC 121	00h 27m 34.0s	-71° 26' 14"	11.2	Globular cluster	0.012x0.012	Tucana	
NGC 4192	01h 08m 49.6s	-72° 47' 15"	11.2	Open cluster	0.02x0.02	Tucana	M98
NGC 6920	20h 46m 34.6s	-79° 56' 03"	11.2	Galaxy	0.015x0.012	Octans	
NGC 7098	21h 46m 01.4s	-75° 01' 39"	11.3	Galaxy	0.033x0.021	Octans	
IC 4651	01h 16m 12.0s	-73° 13' 46"	11.5	Open cluster	0.016x0.016	Tucana	
NGC 7095	21h 54m 44.4s	-81° 26' 46"	11.5	Galaxy	0.033x0.027	Octans	
NGC 2422	00h 44m 13.2s	-73° 20' 39"	12.0	Open cluster	0.007x0.007	Tucana	M47
NGC 2903	00h 51m 52.4s	-73° 03' 53"	12.0	Open cluster	0.006x0.006	Tucana	
NGC 306	00h 54m 52.8s	-72° 08' 42"	12.0	Open cluster	0.006x0.006	Tucana	
NGC 3718	01h 04m 01.0s	-71° 58' 07"	12.0	Open cluster	0.062x0.062	Tucana	
NGC 4589	01h 15m 23.8s	-71° 27' 22"	12.0	Open cluster	0.012x0.012	Tucana	
643A	01h 30m 55.5s	-75° 57' 45"	12.0	Open cluster	0.016x0.016	Hydrus	643A
IC 1611	01h 00m 24.5s	-72° 14' 09"	12.0	Open cluster	0.008x0.008	Tucana	
NGC 2223	00h 41m 24.7s	-73° 17' 14"	12.2	Open cluster	0.005x0.005	Tucana	
NGC 2659	00h 47m 49.8s	-73° 22' 45"	12.2	Open cluster	0.008x0.008	Tucana	
NGC 4111	01h 08m 29.7s	-71° 40' 22"	12.2	Open cluster	0.010x0.010	Tucana	

Table 225: Main objects visible on chart 218 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2204	00h 41m 11.1s	-73° 18' 20"	12.4	Open cluster	0.006x0.006	Tucana	
NGC 4609	01h 15m 07.7s	-73° 11' 48"	12.5	Open cluster	0.008x0.008	Tucana	CALDWELL 98
NGC 7637	23h 27m 47.7s	-81° 48' 43"	12.5	Galaxy	0.017x0.015	Octans	
IC 1612	01h 00m 35.3s	-72° 16' 27"	12.5	Open cluster	0.005x0.005	Tucana	
NGC 4168	01h 08m 31.7s	-72° 15' 40"	12.6	Open cluster	0.01x0.01	Tucana	
NGC 1761	00h 36m 41.6s	-73° 04' 02"	12.7	Open cluster	0.008x0.008	Tucana	
NGC 2311	00h 41m 47.3s	-73° 15' 14"	12.7	Open cluster	0.006x0.006	Tucana	
NGC 2567	00h 46m 32.4s	-73° 24' 32"	12.7	Open cluster	0.005x0.005	Tucana	
NGC 2945	00h 53m 42.5s	-73° 16' 59"	12.7	Open cluster	0.006x0.006	Tucana	
NGC 3390	00h 58m 18.7s	-74° 22' 31"	12.8	Open cluster	0.018x0.018	Tucana	
IC 1624	01h 05m 56.3s	-71° 56' 47"	12.9	Open cluster	0.005x0.005	Tucana	
NGC 2670	00h 48m 41.5s	-73° 10' 34"	13.0	Open cluster	0.020x0.020	Tucana	
NGC 3953	01h 05m 41.9s	-71° 53' 53"	13.0	Open cluster	0.141x0.141	Tucana	
NGC 796	01h 56m 57.7s	-74° 07' 57"	13.0	Open cluster	0.006x0.006	Hydrus	
NGC 2693	00h 48m 59.3s	-73° 26' 01"	13.3	Open cluster	0.005x0.005	Tucana	
NGC 4220	01h 09m 58.9s	-71° 40' 16"	13.4	Open cluster	0.0x0.0	Tucana	
643B	01h 39m 31.1s	-74° 55' 14"	13.5	Galaxy	0.012x0.002	Hydrus	643B
IC 5109	21h 35m 28.0s	-74° 01' 51"	13.6	Galaxy	0.007x0.005	Indus	
IC 5123	21h 46m 26.5s	-72° 20' 13"	13.6	Galaxy	0.012x0.004	Indus	
IC 5130	21h 52m 04.6s	-73° 54' 46"	13.6	Galaxy	0.015x0.005	Indus	
IC 5103	21h 30m 59.9s	-73° 59' 24"	14.1	Galaxy	0.006x0.004	Pavo	
IC 5173A	22h 16m 07.9s	-69° 16' 33"	14.5	Galaxy	0.011x0.002	Indus	IC 5173A, Southern Integral-sign
IC 5040	20h 54m 28.6s	-76° 37' 03"	14.6	Galaxy	0.006x0.005	Octans	
IC 5026	20h 50m 46.8s	-78° 00' 05"	14.8	Galaxy	0.019x0.002	Octans	
643C	01h 42m 05.0s	-75° 10' 37"	15.0	Galaxy	0.010x0.001	Hydrus	
IC 5173B	22h 16m 01.8s	-69° 16' 39"	15.1	Galaxy	0.002x0.001	Indus	IC 5173B

7.220 Main objects visible on chart 219

Table 226: Main objects visible on chart 219

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
LMC	05h 23m 25.5s	-69° 44' 14"	0.5	Galaxy	3.6x3.6	Dorado	Large Magellanic Cloud
NGC 292	00h 53m 22.3s	-72° 43' 52"	2.3	Galaxy	2.659x1.709	Tucana	Small Magellanic Cloud
NGC 362	01h 03m 50.7s	-70° 45' 05"	6.8	Globular cluster	0.116x0.116	Tucana	CALDWELL 104
NGC 330	00h 56m 56.6s	-72° 21' 54"	9.6	Globular cluster	0.011x0.011	Tucana	
NGC 1712	04h 50m 52.8s	-69° 22' 40"	10.0	Open cluster	0.020x0.020	Dorado	
NGC 1711	04h 50m 28.6s	-69° 57' 20"	10.1	Open cluster	0.02x0.02	Mensa	
NGC 3766	01h 04m 27.3s	-72° 43' 39"	10.9	Open cluster	0.008x0.008	Tucana	CALDWELL 97
NGC 2997	00h 54m 02.7s	-72° 05' 56"	11.0	Open cluster	0.005x0.005	Tucana	
NGC 3610	01h 02m 47.0s	-71° 30' 37"	11.0	Open cluster	0.013x0.013	Tucana	
NGC 643	01h 35m 18.5s	-75° 27' 54"	11.0	Open cluster	0.012x0.012	Hydrus	
NGC 1727	04h 52m 14.4s	-69° 18' 57"	11.1	Open cluster	0.020x0.020	Dorado	
NGC 4192	01h 08m 49.6s	-72° 47' 15"	11.2	Open cluster	0.02x0.02	Tucana	M98
NGC 1466	03h 44m 28.6s	-71° 36' 57"	11.4	Globular cluster	0.015x0.015	Hydrus	

Table 226: Main objects visible on chart 219 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 1704	04h 49m 48.7s	-69° 43' 34"	11.5	Open cluster	0.014x0.014	Dorado	
IC 4651	01h 16m 12.0s	-73° 13' 46"	11.5	Open cluster	0.016x0.016	Tucana	
IC 2051	03h 49m 48.3s	-83° 46' 42"	11.5	Galaxy	0.021x0.013	Mensa	
NGC 1840	05h 05m 03.7s	-71° 44' 22"	11.8	Open cluster	0.005x0.005	Mensa	
NGC 1754	04h 54m 08.4s	-70° 24' 48"	12.0	Open cluster	0.0x0.0	Mensa	
NGC 2422	00h 44m 13.2s	-73° 20' 39"	12.0	Open cluster	0.007x0.007	Tucana	M47
NGC 2903	00h 51m 52.4s	-73° 03' 53"	12.0	Open cluster	0.006x0.006	Tucana	
NGC 306	00h 54m 52.8s	-72° 08' 42"	12.0	Open cluster	0.006x0.006	Tucana	
NGC 3718	01h 04m 01.0s	-71° 58' 07"	12.0	Open cluster	0.062x0.062	Tucana	
NGC 4589	01h 15m 23.8s	-71° 27' 22"	12.0	Open cluster	0.012x0.012	Tucana	
643A	01h 30m 55.5s	-75° 57' 45"	12.0	Open cluster	0.016x0.016	Hydrus	643A
IC 1611	01h 00m 24.5s	-72° 14' 09"	12.0	Open cluster	0.008x0.008	Tucana	
NGC 1698	04h 48m 59.9s	-69° 04' 59"	12.1	Open cluster	0.013x0.013	Dorado	
NGC 1695	04h 47m 39.2s	-69° 20' 34"	12.2	Open cluster	0.012x0.012	Dorado	
NGC 1766	04h 55m 48.8s	-70° 11' 51"	12.2	Open cluster	0.005x0.005	Mensa	
NGC 2223	00h 41m 24.7s	-73° 17' 14"	12.2	Open cluster	0.005x0.005	Tucana	
NGC 2659	00h 47m 49.8s	-73° 22' 45"	12.2	Open cluster	0.008x0.008	Tucana	
NGC 4111	01h 08m 29.7s	-71° 40' 22"	12.2	Open cluster	0.010x0.010	Tucana	
NGC 1651	04h 37m 24.3s	-70° 33' 01"	12.3	Open cluster	0.020x0.020	Mensa	
NGC 2204	00h 41m 11.1s	-73° 18' 20"	12.4	Open cluster	0.006x0.006	Tucana	
NGC 1702	04h 49m 20.6s	-69° 49' 14"	12.5	Open cluster	0.008x0.008	Mensa	
NGC 4062	01h 08m 00.7s	-69° 46' 49"	12.5	Galaxy	0.021x0.008	Tucana	
NGC 4609	01h 15m 07.7s	-73° 11' 48"	12.5	Open cluster	0.008x0.008	Tucana	CALDWELL 98
IC 1612	01h 00m 35.3s	-72° 16' 27"	12.5	Open cluster	0.005x0.005	Tucana	
NGC 1775	04h 56m 43.7s	-70° 24' 09"	12.6	Open cluster	0.005x0.005	Mensa	
NGC 4168	01h 08m 31.7s	-72° 15' 40"	12.6	Open cluster	0.01x0.01	Tucana	
NGC 1629	04h 29m 24.8s	-71° 47' 59"	12.7	Open cluster	0.008x0.008	Hydrus	
NGC 2311	00h 41m 47.3s	-73° 15' 14"	12.7	Open cluster	0.006x0.006	Tucana	
NGC 2567	00h 46m 32.4s	-73° 24' 32"	12.7	Open cluster	0.005x0.005	Tucana	
NGC 2945	00h 53m 42.5s	-73° 16' 59"	12.7	Open cluster	0.006x0.006	Tucana	
NGC 1777	04h 55m 21.1s	-74° 15' 28"	12.8	Open cluster	0.017x0.017	Mensa	
NGC 3390	00h 58m 18.7s	-74° 22' 31"	12.8	Open cluster	0.018x0.018	Tucana	
NGC 1693	04h 47m 33.6s	-69° 18' 45"	12.9	Open cluster	0.005x0.005	Dorado	
NGC 2012	05h 21m 18.0s	-79° 50' 07"	12.9	Galaxy	0.009x0.005	Mensa	
IC 1624	01h 05m 56.3s	-71° 56' 47"	12.9	Open cluster	0.005x0.005	Tucana	
NGC 2144	05h 38m 58.7s	-82° 06' 36"	13.0	Galaxy	0.011x0.009	Mensa	
NGC 2670	00h 48m 41.5s	-73° 10' 34"	13.0	Open cluster	0.020x0.020	Tucana	
NGC 3953	01h 05m 41.9s	-71° 53' 53"	13.0	Open cluster	0.141x0.141	Tucana	
NGC 796	01h 56m 57.7s	-74° 07' 57"	13.0	Open cluster	0.006x0.006	Hydrus	
NGC 1789	04h 57m 35.7s	-71° 52' 26"	13.1	Open cluster	0.012x0.012	Mensa	
NGC 1956	05h 18m 42.2s	-77° 42' 43"	13.1	Galaxy	0.015x0.006	Mensa	
IC 2160	05h 54m 40.6s	-76° 55' 05"	13.1	Galaxy	0.017x0.006	Mensa	
NGC 1722	04h 51m 44.9s	-69° 22' 10"	13.2	Open cluster	0.008x0.008	Dorado	
NGC 2693	00h 48m 59.3s	-73° 26' 01"	13.3	Open cluster	0.005x0.005	Tucana	
NGC 4220	01h 09m 58.9s	-71° 40' 16"	13.4	Open cluster	0.0x0.0	Tucana	
643B	01h 39m 31.1s	-74° 55' 14"	13.5	Galaxy	0.012x0.002	Hydrus	643B

Table 226: Main objects visible on chart 219 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2103	04h 39m 06.6s	-76° 48' 08"	13.6	Galaxy	0.015x0.002	Mensa	
NGC 1673	04h 42m 33.4s	-69° 47' 17"	14.1	Open cluster	0.005x0.005	Mensa	
NGC 1841	04h 42m 42.8s	-83° 57' 52"	14.1	Globular cluster	0.02x0.02	Mensa	
NGC 1751	04h 54m 04.8s	-69° 46' 41"	14.5	Open cluster	0.014x0.014	Mensa	
IC 2089	04h 32m 19.5s	-75° 30' 11"	14.5	Galaxy	0.009x0.007	Mensa	
IC 2142	05h 32m 11.8s	-78° 00' 27"	14.7	Galaxy	0.006x0.003	Mensa	
643C	01h 42m 05.0s	-75° 10' 37"	15.0	Galaxy	0.010x0.001	Hydrus	
IC 2054	04h 06m 40.4s	-78° 12' 22"	15.6	Galaxy	0.004x0.003	Mensa	

7.221 Main objects visible on chart 220

Table 227: Main objects visible on chart 220

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
LMC	05h 23m 25.5s	-69° 44' 14"	0.5	Galaxy	3.6x3.6	Dorado	Large Magellanic Cloud
IC 1848	05h 07m 13.8s	-71° 10' 22"	9.7	Open cluster	0.016x0.016	Mensa	
NGC 1845	05h 05m 34.1s	-70° 33' 29"	10.2	Open cluster	0.166x0.166	Mensa	
NGC 2442	07h 36m 20.3s	-69° 34' 18"	10.4	Galaxy	0.05x0.041	Volans	
NGC 1837	05h 04m 44.5s	-70° 41' 25"	10.6	Open cluster	0.010x0.010	Mensa	
NGC 2018	05h 31m 06.0s	-71° 03' 13"	10.9	Open cluster	0.023x0.023	Mensa	
NGC 2025	05h 32m 16.8s	-71° 42' 13"	10.9	Open cluster	0.015x0.015	Mensa	
IC 2051	03h 49m 48.3s	-83° 46' 42"	11.5	Galaxy	0.021x0.013	Mensa	
NGC 1840	05h 05m 03.7s	-71° 44' 22"	11.8	Open cluster	0.005x0.005	Mensa	
NGC 1944	05h 21m 37.6s	-72° 28' 40"	11.8	Open cluster	0.027x0.027	Mensa	
NGC 2000	05h 27m 11.9s	-71° 51' 55"	11.9	Open cluster	0.014x0.014	Mensa	
NGC 2173	05h 57m 35.3s	-72° 58' 38"	11.9	Open cluster	0.02x0.02	Mensa	
NGC 1914	05h 17m 25.5s	-71° 14' 15"	12.0	Open cluster	0.018x0.018	Mensa	
NGC 2203	06h 04m 05.5s	-75° 26' 25"	12.0	Open cluster	0.027x0.027	Mensa	
NGC 1651	04h 37m 24.3s	-70° 33' 01"	12.3	Open cluster	0.020x0.020	Mensa	
NGC 2121	05h 47m 56.1s	-71° 28' 33"	12.4	Open cluster	0.022x0.022	Mensa	
NGC 2213	06h 10m 25.4s	-71° 31' 59"	12.4	Open cluster	0.017x0.017	Mensa	
NGC 1833	05h 04m 10.4s	-70° 42' 27"	12.5	Open cluster	0.017x0.017	Mensa	
NGC 1629	04h 29m 24.8s	-71° 47' 59"	12.7	Open cluster	0.008x0.008	Hydrus	
NGC 1777	04h 55m 21.1s	-74° 15' 28"	12.8	Open cluster	0.017x0.017	Mensa	
NGC 1890	05h 13m 28.4s	-72° 03' 28"	12.8	Open cluster	0.01x0.01	Mensa	
NGC 2199	06h 04m 19.6s	-73° 24' 07"	12.8	Galaxy	0.016x0.006	Mensa	
NGC 2012	05h 21m 18.0s	-79° 50' 07"	12.9	Galaxy	0.009x0.005	Mensa	
NGC 2190	06h 00m 31.4s	-74° 43' 33"	12.9	Open cluster	0.016x0.016	Mensa	
NGC 2144	05h 38m 58.7s	-82° 06' 36"	13.0	Galaxy	0.011x0.009	Mensa	
NGC 2161	05h 55m 12.7s	-74° 21' 07"	13.0	Open cluster	0.018x0.018	Mensa	
NGC 2466	07h 45m 06.8s	-71° 27' 19"	13.0	Galaxy	0.013x0.011	Volans	
NGC 1789	04h 57m 35.7s	-71° 52' 26"	13.1	Open cluster	0.012x0.012	Mensa	
NGC 1956	05h 18m 42.2s	-77° 42' 43"	13.1	Galaxy	0.015x0.006	Mensa	
IC 2160	05h 54m 40.6s	-76° 55' 05"	13.1	Galaxy	0.017x0.006	Mensa	
NGC 1861	05h 10m 10.2s	-70° 45' 20"	13.2	Open cluster	0.01x0.01	Mensa	

Table 227: Main objects visible on chart 220 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 2209	06h 08m 05.9s	-73° 50' 29"	13.2	Open cluster	0.023x0.023	Mensa	
IC 2164	06h 06m 15.7s	-75° 22' 04"	13.4	Galaxy	0.009x0.007	Mensa	
IC 2103	04h 39m 06.6s	-76° 48' 08"	13.6	Galaxy	0.015x0.002	Mensa	
NGC 1841	04h 42m 42.8s	-83° 57' 52"	14.1	Globular cluster	0.02x0.02	Mensa	
IC 2089	04h 32m 19.5s	-75° 30' 11"	14.5	Galaxy	0.009x0.007	Mensa	
IC 2142	05h 32m 11.8s	-78° 00' 27"	14.7	Galaxy	0.006x0.003	Mensa	
IC 2054	04h 06m 40.4s	-78° 12' 22"	15.6	Galaxy	0.004x0.003	Mensa	

7.222 Main objects visible on chart 221

Table 228: Main objects visible on chart 221

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 3059	09h 50m 18.5s	-74° 00' 21"	11.0	Galaxy	0.03x0.026	Carina	
NGC 3195	10h 09m 06.7s	-80° 56' 48"	11.6	Planetary Nebula	0.005x0.004	Chamaeleon	CALDWELL 109
NGC 3149	10h 03m 29.1s	-80° 30' 35"	12.6	Galaxy	0.016x0.015	Chamaeleon	
IC 3104	12h 19m 52.7s	-79° 49' 50"	12.6	Galaxy	0.030x0.014	Chamaeleon	
NGC 2915	09h 26m 05.8s	-76° 42' 19"	12.7	Galaxy	0.015x0.007	Chamaeleon	
NGC 2012	05h 21m 18.0s	-79° 50' 07"	12.9	Galaxy	0.009x0.005	Mensa	
NGC 2466	07h 45m 06.8s	-71° 27' 19"	13.0	Galaxy	0.013x0.011	Volans	
IC 2160	05h 54m 40.6s	-76° 55' 05"	13.1	Galaxy	0.017x0.006	Mensa	
NGC 3620	11h 16m 41.7s	-76° 18' 56"	13.3	Galaxy	0.022x0.009	Chamaeleon	
IC 2596	10h 34m 38.3s	-73° 19' 60"	13.8	Galaxy	0.01x0.006	Carina	
IC 2142	05h 32m 11.8s	-78° 00' 27"	14.7	Galaxy	0.006x0.003	Mensa	

7.223 Main objects visible on chart 222

Table 229: Main objects visible on chart 222

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4372	12h 26m 49.6s	-72° 45' 29"	7.2	Globular cluster	0.041x0.041	Musca	CALDWELL 108
NGC 4833	13h 00m 48.4s	-70° 58' 15"	8.4	Globular cluster	0.116x0.116	Musca	CALDWELL 105
IC 4499	15h 03m 20.4s	-82° 16' 59"	10.1	Globular cluster	0.066x0.066	Apus	
NGC 3059	09h 50m 18.5s	-74° 00' 21"	11.0	Galaxy	0.03x0.026	Carina	
NGC 3195	10h 09m 06.7s	-80° 56' 48"	11.6	Planetary Nebula	0.005x0.004	Chamaeleon	CALDWELL 109
NGC 5612	14h 36m 10.4s	-78° 27' 57"	12.1	Galaxy	0.015x0.009	Apus	
IC 2980	11h 58m 24.6s	-73° 47' 07"	12.4	Galaxy	0.01x0.008	Musca	
NGC 3149	10h 03m 29.1s	-80° 30' 35"	12.6	Galaxy	0.016x0.015	Chamaeleon	
IC 3104	12h 19m 52.7s	-79° 49' 50"	12.6	Galaxy	0.030x0.014	Chamaeleon	
NGC 2915	09h 26m 05.8s	-76° 42' 19"	12.7	Galaxy	0.015x0.007	Chamaeleon	
IC 4377	14h 18m 47.3s	-75° 43' 44"	12.7	Galaxy	0.014x0.005	Apus	
NGC 3620	11h 16m 41.7s	-76° 18' 56"	13.3	Galaxy	0.022x0.009	Chamaeleon	
IC 4448	14h 42m 41.9s	-78° 53' 08"	13.5	Galaxy	0.008x0.006	Apus	

Table 229: Main objects visible on chart 222 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 2596	10h 34m 38.3s	-73° 19' 60"	13.8	Galaxy	0.01x0.006	Carina	

7.224 Main objects visible on chart 223

Table 230: Main objects visible on chart 223

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 4833	13h 00m 48.4s	-70° 58' 15"	8.4	Globular cluster	0.116x0.116	Musca	CALDWELL 105
NGC 6101	16h 27m 52.9s	-72° 14' 27"	9.2	Globular cluster	0.041x0.041	Apus	CALDWELL 107
IC 4499	15h 03m 20.4s	-82° 16' 59"	10.1	Globular cluster	0.066x0.066	Apus	
NGC 6209	16h 57m 06.8s	-72° 36' 51"	11.8	Galaxy	0.016x0.013	Apus	
NGC 5833	15h 13m 47.7s	-72° 55' 32"	12.0	Galaxy	0.017x0.008	Apus	
NGC 5967	15h 50m 30.8s	-75° 43' 38"	12.0	Galaxy	0.022x0.014	Apus	
IC 4595	16h 22m 39.8s	-70° 11' 03"	12.0	Galaxy	0.022x0.004	Triangulum Australe	
IC 4618	17h 00m 25.9s	-77° 01' 08"	12.0	Galaxy	0.014x0.010	Apus	
NGC 5612	14h 36m 10.4s	-78° 27' 57"	12.1	Galaxy	0.015x0.009	Apus	
NGC 6183	16h 43m 37.5s	-69° 24' 20"	12.2	Galaxy	0.015x0.005	Triangulum Australe	
IC 4522	15h 13m 36.3s	-75° 55' 33"	12.3	Galaxy	0.016x0.004	Apus	
NGC 5967A	15h 49m 14.0s	-75° 50' 29"	12.6	Galaxy	0.016x0.012	Apus	5967A
IC 3104	12h 19m 52.7s	-79° 49' 50"	12.6	Galaxy	0.030x0.014	Chamaeleon	
IC 4377	14h 18m 47.3s	-75° 43' 44"	12.7	Galaxy	0.014x0.005	Apus	
IC 4555	15h 50m 47.2s	-78° 14' 00"	12.8	Galaxy	0.015x0.004	Apus	
NGC 5799	15h 07m 26.2s	-72° 30' 06"	12.9	Galaxy	0.007x0.005	Apus	
IC 4545	15h 44m 39.5s	-81° 40' 58"	12.9	Galaxy	0.015x0.007	Apus	
IC 4633	17h 16m 29.3s	-77° 33' 19"	13.0	Galaxy	0.033x0.025	Apus	
IC 4578	15h 55m 22.8s	-74° 52' 40"	13.1	Galaxy	0.01x0.004	Apus	
IC 4641	17h 27m 23.1s	-80° 09' 44"	13.1	Galaxy	0.010x0.010	Apus	
IC 4647	17h 29m 17.4s	-80° 12' 33"	13.3	Galaxy	0.013x0.006	Apus	
IC 4333	14h 08m 21.9s	-84° 21' 30"	13.4	Galaxy	0.013x0.003	Octans	
IC 4448	14h 42m 41.9s	-78° 53' 08"	13.5	Galaxy	0.008x0.006	Apus	
IC 4640	17h 27m 09.0s	-80° 04' 42"	13.6	Galaxy	0.007x0.006	Apus	
IC 4608	16h 49m 32.7s	-77° 31' 12"	13.7	Galaxy	0.007x0.006	Apus	
IC 4644	17h 26m 53.8s	-73° 57' 13"	13.9	Galaxy	0.015x0.003	Apus	
IC 4484	14h 49m 34.2s	-73° 22' 52"	14.0	Galaxy	0.021x0.002	Apus	
IC 4635	17h 18m 22.3s	-77° 30' 28"	14.0	Galaxy	0.025x0.005	Apus	

7.225 Main objects visible on chart 224

Table 231: Main objects visible on chart 224

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6101	16h 27m 52.9s	-72° 14' 27"	9.2	Globular cluster	0.041x0.041	Apus	CALDWELL 107
IC 4499	15h 03m 20.4s	-82° 16' 59"	10.1	Globular cluster	0.066x0.066	Apus	

Table 231: Main objects visible on chart 224 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6920	20h 46m 34.6s	-79° 56' 03"	11.2	Galaxy	0.015x0.012	Octans	
NGC 6209	16h 57m 06.8s	-72° 36' 51"	11.8	Galaxy	0.016x0.013	Apus	
NGC 6808	19h 45m 51.1s	-70° 35' 17"	11.8	Galaxy	0.013x0.007	Pavo	
NGC 5967	15h 50m 30.8s	-75° 43' 38"	12.0	Galaxy	0.022x0.014	Apus	
IC 4595	16h 22m 39.8s	-70° 11' 03"	12.0	Galaxy	0.022x0.004	Triangulum Australe	
IC 4618	17h 00m 25.9s	-77° 01' 08"	12.0	Galaxy	0.014x0.010	Apus	
NGC 5612	14h 36m 10.4s	-78° 27' 57"	12.1	Galaxy	0.015x0.009	Apus	
IC 4704	18h 30m 00.8s	-71° 35' 48"	12.1	Galaxy	0.0125x0.01	Pavo	
NGC 6653	18h 46m 52.3s	-73° 14' 35"	12.2	Galaxy	0.014x0.012	Pavo	
IC 4682	18h 18m 33.3s	-71° 34' 27"	12.2	Galaxy	0.019x0.013	Pavo	
IC 4712	18h 33m 14.0s	-71° 40' 48"	12.2	Galaxy	0.019x0.01	Pavo	
IC 4522	15h 13m 36.3s	-75° 55' 33"	12.3	Galaxy	0.016x0.004	Apus	
IC 4654	17h 39m 28.9s	-74° 23' 26"	12.4	Galaxy	0.013x0.009	Apus	
NGC 5967A	15h 49m 14.0s	-75° 50' 29"	12.6	Galaxy	0.016x0.012	Apus	5967A
IC 4661	17h 53m 21.8s	-74° 02' 10"	12.7	Galaxy	0.013x0.01	Apus	
IC 4705	18h 30m 17.8s	-71° 40' 49"	12.7	Galaxy	0.01x0.006	Pavo	
IC 4555	15h 50m 47.2s	-78° 14' 00"	12.8	Galaxy	0.015x0.004	Apus	
NGC 6557	18h 24m 00.3s	-76° 34' 22"	12.9	Galaxy	0.013x0.009	Octans	
IC 4545	15h 44m 39.5s	-81° 40' 58"	12.9	Galaxy	0.015x0.007	Apus	
IC 4633	17h 16m 29.3s	-77° 33' 19"	13.0	Galaxy	0.033x0.025	Apus	
IC 4578	15h 55m 22.8s	-74° 52' 40"	13.1	Galaxy	0.01x0.004	Apus	
IC 4641	17h 27m 23.1s	-80° 09' 44"	13.1	Galaxy	0.010x0.010	Apus	
IC 4647	17h 29m 17.4s	-80° 12' 33"	13.3	Galaxy	0.013x0.006	Apus	
IC 4887	19h 50m 13.7s	-69° 32' 27"	13.4	Galaxy	0.008x0.006	Pavo	
IC 4448	14h 42m 41.9s	-78° 53' 08"	13.5	Galaxy	0.008x0.006	Apus	
IC 4864	19h 42m 39.7s	-77° 30' 52"	13.5	Galaxy	0.012x0.003	Octans	
IC 4929	20h 08m 39.5s	-71° 37' 41"	13.5	Galaxy	0.011x0.003	Pavo	
IC 4640	17h 27m 09.0s	-80° 04' 42"	13.6	Galaxy	0.007x0.006	Apus	
IC 4608	16h 49m 32.7s	-77° 31' 12"	13.7	Galaxy	0.007x0.006	Apus	
IC 4899	19h 56m 21.4s	-70° 32' 29"	13.7	Galaxy	0.008x0.005	Pavo	
IC 4964	20h 19m 27.6s	-73° 49' 42"	13.8	Galaxy	0.010x0.005	Pavo	
IC 4644	17h 26m 53.8s	-73° 57' 13"	13.9	Galaxy	0.015x0.003	Apus	
IC 4841	19h 22m 48.4s	-72° 11' 29"	13.9	Galaxy	0.008x0.005	Pavo	
IC 4635	17h 18m 22.3s	-77° 30' 28"	14.0	Galaxy	0.025x0.005	Apus	
IC 4853	19h 32m 47.1s	-71° 01' 52"	14.0	Galaxy	0.009x0.002	Pavo	
IC 4892	19h 51m 26.2s	-70° 10' 53"	14.0	Galaxy	0.013x0.002	Pavo	
IC 4747	18h 48m 08.3s	-72° 36' 33"	14.1	Galaxy	0.009x0.001	Pavo	
IC 4822	19h 16m 52.8s	-72° 24' 31"	14.2	Galaxy	0.005x0.002	Pavo	
IC 4903	20h 00m 07.5s	-70° 24' 13"	14.3	Galaxy	0.011x0.003	Pavo	
IC 5025	20h 47m 12.6s	-76° 55' 05"	14.4	Galaxy	0.012x0.002	Octans	
IC 5040	20h 54m 28.6s	-76° 37' 03"	14.6	Galaxy	0.006x0.005	Octans	
IC 5022	20h 43m 17.3s	-76° 23' 04"	14.7	Galaxy	0.007x0.005	Octans	
IC 4825	19h 19m 23.9s	-72° 42' 55"	14.8	Galaxy	0.003x0.002	Pavo	
IC 4912	20h 09m 15.8s	-77° 18' 16"	14.8	Galaxy	0.009x0.003	Octans	
IC 5026	20h 50m 46.8s	-78° 00' 05"	14.8	Galaxy	0.019x0.002	Octans	
IC 4746	18h 48m 05.8s	-72° 39' 03"	15.2	Galaxy	0.004x0.004	Pavo	

Table 231: Main objects visible on chart 224 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4893	19h 52m 35.6s	-72° 27' 47"	15.2	Galaxy	0.004x0.003	Pavo	
IC 4928	20h 12m 36.8s	-77° 15' 17"	15.7	Galaxy	0.005x0.001	Octans	

7.226 Main objects visible on chart 225

Table 232: Main objects visible on chart 225

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
NGC 6920	20h 46m 34.6s	-79° 56' 03"	11.2	Galaxy	0.015x0.012	Octans	
NGC 7098	21h 46m 01.4s	-75° 01' 39"	11.3	Galaxy	0.033x0.021	Octans	
NGC 7095	21h 54m 44.4s	-81° 26' 46"	11.5	Galaxy	0.033x0.027	Octans	
NGC 6808	19h 45m 51.1s	-70° 35' 17"	11.8	Galaxy	0.013x0.007	Pavo	
NGC 6653	18h 46m 52.3s	-73° 14' 35"	12.2	Galaxy	0.014x0.012	Pavo	
NGC 6932	20h 44m 05.8s	-73° 33' 12"	12.3	Galaxy	0.018x0.013	Pavo	
NGC 7637	23h 27m 47.7s	-81° 48' 43"	12.5	Galaxy	0.017x0.015	Octans	
IC 5071	21h 03m 09.0s	-72° 34' 17"	12.5	Galaxy	0.028x0.006	Pavo	
NGC 6557	18h 24m 00.3s	-76° 34' 22"	12.9	Galaxy	0.013x0.009	Octans	
IC 4641	17h 27m 23.1s	-80° 09' 44"	13.1	Galaxy	0.010x0.010	Apus	
IC 4647	17h 29m 17.4s	-80° 12' 33"	13.3	Galaxy	0.013x0.006	Apus	
IC 4864	19h 42m 39.7s	-77° 30' 52"	13.5	Galaxy	0.012x0.003	Octans	
IC 4929	20h 08m 39.5s	-71° 37' 41"	13.5	Galaxy	0.011x0.003	Pavo	
IC 5009	20h 34m 28.3s	-72° 06' 19"	13.5	Galaxy	0.01x0.005	Pavo	
IC 4640	17h 27m 09.0s	-80° 04' 42"	13.6	Galaxy	0.007x0.006	Apus	
IC 5014	20h 37m 13.7s	-73° 23' 22"	13.6	Galaxy	0.004x0.004	Pavo	
IC 5069	21h 01m 57.1s	-71° 44' 22"	13.6	Galaxy	0.007x0.007	Pavo	
IC 5109	21h 35m 28.0s	-74° 01' 51"	13.6	Galaxy	0.007x0.005	Indus	
IC 5123	21h 46m 26.5s	-72° 20' 13"	13.6	Galaxy	0.012x0.004	Indus	
IC 5130	21h 52m 04.6s	-73° 54' 46"	13.6	Galaxy	0.015x0.005	Indus	
IC 4899	19h 56m 21.4s	-70° 32' 29"	13.7	Galaxy	0.008x0.005	Pavo	
IC 5075	21h 06m 23.4s	-71° 47' 44"	13.7	Galaxy	0.009x0.003	Pavo	
IC 4964	20h 19m 27.6s	-73° 49' 42"	13.8	Galaxy	0.010x0.005	Pavo	
IC 4992	20h 25m 20.6s	-71° 30' 22"	13.8	Galaxy	0.019x0.001	Pavo	
IC 5102	21h 27m 58.3s	-73° 13' 53"	13.8	Galaxy	0.007x0.005	Pavo	
IC 4841	19h 22m 48.4s	-72° 11' 29"	13.9	Galaxy	0.008x0.005	Pavo	
IC 4945	20h 13m 10.9s	-70° 57' 29"	13.9	Galaxy	0.01x0.0025	Pavo	
IC 4853	19h 32m 47.1s	-71° 01' 52"	14.0	Galaxy	0.009x0.002	Pavo	
IC 5073	21h 05m 08.5s	-72° 36' 56"	14.0	Galaxy	0.01x0.008	Pavo	
IC 4747	18h 48m 08.3s	-72° 36' 33"	14.1	Galaxy	0.009x0.001	Pavo	
IC 5103	21h 30m 59.9s	-73° 59' 24"	14.1	Galaxy	0.006x0.004	Pavo	
IC 4822	19h 16m 52.8s	-72° 24' 31"	14.2	Galaxy	0.005x0.002	Pavo	
IC 5087	21h 16m 11.4s	-73° 41' 53"	14.2	Galaxy	0.005x0.003	Pavo	
IC 5066	20h 58m 55.0s	-73° 04' 38"	14.3	Galaxy	0.005x0.005	Pavo	
IC 4982	20h 22m 13.3s	-70° 56' 56"	14.4	Galaxy	0.005x0.002	Pavo	
IC 5025	20h 47m 12.6s	-76° 55' 05"	14.4	Galaxy	0.012x0.002	Octans	
IC 5108	21h 34m 32.2s	-72° 34' 43"	14.4	Galaxy	0.01x0.003	Indus	

Table 232: Main objects visible on chart 225 (continuation)

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 5044	20h 52m 30.5s	-71° 49' 50"	14.5	Galaxy	0.005x0.003	Pavo	
IC 5045	20h 52m 39.3s	-71° 50' 29"	14.5	Galaxy	0.005x0.003	Pavo	
IC 5085	21h 15m 18.7s	-74° 01' 40"	14.5	Galaxy	0.005x0.005	Pavo	
IC 5040	20h 54m 28.6s	-76° 37' 03"	14.6	Galaxy	0.006x0.005	Octans	
IC 5022	20h 43m 17.3s	-76° 23' 04"	14.7	Galaxy	0.007x0.005	Octans	
IC 5118	21h 43m 49.3s	-71° 17' 58"	14.7	Galaxy	0.009x0.002	Indus	
IC 4825	19h 19m 23.9s	-72° 42' 55"	14.8	Galaxy	0.003x0.002	Pavo	
IC 4912	20h 09m 15.8s	-77° 18' 16"	14.8	Galaxy	0.009x0.003	Octans	
IC 5026	20h 50m 46.8s	-78° 00' 05"	14.8	Galaxy	0.019x0.002	Octans	
IC 5060	20h 56m 33.6s	-71° 34' 04"	14.8	Galaxy	0.008x0.001	Pavo	
IC 5072	21h 03m 46.6s	-72° 54' 59"	14.8	Galaxy	0.006x0.003	Pavo	
IC 5008	20h 34m 40.4s	-72° 37' 56"	14.9	Galaxy	0.009x0.003	Pavo	
IC 5051	20h 54m 11.3s	-71° 43' 12"	14.9	Galaxy	0.005x0.003	Pavo	
IC 5077	21h 10m 44.6s	-73° 34' 00"	14.9	Galaxy	0.005x0.005	Pavo	
IC 5016	20h 37m 33.2s	-72° 50' 53"	15.0	Galaxy	0.005x0.005	Pavo	
IC 5048	20h 53m 29.2s	-71° 43' 55"	15.0	Galaxy	0.005x0.004	Pavo	
IC 4746	18h 48m 05.8s	-72° 39' 03"	15.2	Galaxy	0.004x0.004	Pavo	
IC 4893	19h 52m 35.6s	-72° 27' 47"	15.2	Galaxy	0.004x0.003	Pavo	
IC 4958	20h 17m 34.4s	-72° 39' 19"	15.2	Galaxy	0.002x0.002	Pavo	
IC 4962	20h 18m 35.4s	-71° 04' 24"	15.4	Galaxy	0.009x0.001	Pavo	
IC 4928	20h 12m 36.8s	-77° 15' 17"	15.7	Galaxy	0.005x0.001	Octans	

7.227 Main objects visible on chart 226

Table 233: Main objects visible on chart 226

Name	Right ascension	Declination	Mag.	Type	Angular radius (°)	Constellation	Note
IC 4499	15h 03m 20.4s	-82° 16' 59"	10.1	Globular cluster	0.066x0.066	Apus	
NGC 6920	20h 46m 34.6s	-79° 56' 03"	11.2	Galaxy	0.015x0.012	Octans	
IC 2051	03h 49m 48.3s	-83° 46' 42"	11.5	Galaxy	0.021x0.013	Mensa	
NGC 6438A	18h 28m 25.5s	-85° 23' 42"	11.6	Galaxy	0.022x0.008	Octans	6438A
NGC 6438	18h 28m 08.1s	-85° 23' 26"	11.7	Galaxy	0.013x0.011	Octans	NGC 6438A
IC 4545	15h 44m 39.5s	-81° 40' 58"	12.9	Galaxy	0.015x0.007	Apus	
NGC 2144	05h 38m 58.7s	-82° 06' 36"	13.0	Galaxy	0.011x0.009	Mensa	
IC 4333	14h 08m 21.9s	-84° 21' 30"	13.4	Galaxy	0.013x0.003	Octans	
NGC 2573	01h 29m 42.4s	-89° 14' 33"	13.5	Galaxy	0.015x0.005	Octans	Polarissima australis
NGC 2573A	23h 17m 59.8s	-89° 01' 33"	13.9	Galaxy	0.017x0.005	Octans	2573A
NGC 1841	04h 42m 42.8s	-83° 57' 52"	14.1	Globular cluster	0.02x0.02	Mensa	
NGC 2573B	23h 13m 42.8s	-89° 01' 03"	14.5	Galaxy	0.012x0.004	Octans	2573B

7.228 Main stars visible on chart 1

Table 234: Main stars visible on chart 1

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Polaris / Cynosura	Alp UMi	02h 54m 18.3s	+89° 20' 24"	1,679e-05	-5,745e-08	-16.42	-0.0	-	132.63	-	Ursa Minor

7.229 Main stars visible on chart 2

Table 235: Main stars visible on chart 2

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.230 Main stars visible on chart 3

Table 236: Main stars visible on chart 3

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.231 Main stars visible on chart 4

Table 237: Main stars visible on chart 4

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Kochab	Bet UMi	14h 50m 40.2s	+74° 04' 55"	-5,791e-07	5,537e-08	16.96	-	-	40.14	-	Ursa Minor

7.232 Main stars visible on chart 5

Table 238: Main stars visible on chart 5

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Dziban	Psi1 Dra	17h 41m 37.2s	+72° 08' 30"	-	-	-	-0.0	-	1000.00	-	Draco
Kochab	Bet UMi	14h 50m 40.2s	+74° 04' 55"	-5,791e-07	5,537e-08	16.96	-	-	40.14	-	Ursa Minor

7.233 Main stars visible on chart 6

Table 239: Main stars visible on chart 6

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Dziban	Psi1 Dra	17h 41m 37.2s	+72° 08' 30"	-	-	-	-0.0	-	1000.00	-	Draco
Kochab	Bet UMi	14h 50m 40.2s	+74° 04' 55"	-5,791e-07	5,537e-08	16.96	-	-	40.14	-	Ursa Minor

7.234 Main stars visible on chart 7

Table 240: Main stars visible on chart 7

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Dziban	Psi1 Dra	17h 41m 37.2s	+72° 08' 30"	-	-	-	-0.0	-	1000.00	-	Draco
Kochab	Bet UMi	14h 50m 40.2s	+74° 04' 55"	-5,791e-07	5,537e-08	16.96	-	-	40.14	-	Ursa Minor

7.235 Main stars visible on chart 8

Table 241: Main stars visible on chart 8

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alrai	Gam Cep	23h 40m 06.2s	+77° 43' 58"	-1,086e-06	6,137e-07	-42.82	-0.0	-	14.10	-	Cepheus
Dziban	Psi1 Dra	17h 41m 37.2s	+72° 08' 30"	-	-	-	-0.0	-	1000.00	-	Draco
Kochab	Bet UMi	14h 50m 40.2s	+74° 04' 55"	-5,791e-07	5,537e-08	16.96	-	-	40.14	-	Ursa Minor

7.236 Main stars visible on chart 9

Table 242: Main stars visible on chart 9

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alrai	Gam Cep	23h 40m 06.2s	+77° 43' 58"	-1,086e-06	6,137e-07	-42.82	-0.0	-	14.10	-	Cepheus
Dziban	Psi1 Dra	17h 41m 37.2s	+72° 08' 30"	-	-	-	-0.0	-	1000.00	-	Draco
Kochab	Bet UMi	14h 50m 40.2s	+74° 04' 55"	-5,791e-07	5,537e-08	16.96	-	-	40.14	-	Ursa Minor

7.237 Main stars visible on chart 10

Table 243: Main stars visible on chart 10

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Cih	Gam Cas	00h 57m 48.6s	+60° 48' 50"	2,542e-07	-1,852e-08	-6.8	-0.0	-	187.97	-	Cassiopeia

Table 243: Main stars visible on chart 10 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Rucbar / Ksora	Del Cas	01h 27m 00.5s	+60° 19' 42"	2,896e-06	-2,386e-07	6.7	-	-	30.48	-	Cassiopeia
Segin	Eps Cas	01h 55m 42.6s	+63° 45' 28"	3,508e-07	-9,182e-08	-8.3	-0.0	-	126.26	-	Cassiopeia
Gianfar	Lam Dra	11h 32m 27.2s	+69° 13' 53"	-5,627e-07	-9,304e-08	6.6	-	-	102.15	-	Draco
Dubhe	Alp UMa	11h 04m 49.4s	+61° 39' 13"	-1,374e-06	-1,682e-07	-9.4	-0.0	-	37.68	-	Ursa Major
Museida	8400048 (Pi UMa)	08h 41m 46.1s	+64° 15' 48"	-6,647e-07	1,280e-07	14.7	4.6	K0	77.40	-	Ursa Major

7.238 Main stars visible on chart 11

Table 244: Main stars visible on chart 11

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Cih	Gam Cas	00h 57m 48.6s	+60° 48' 50"	2,542e-07	-1,852e-08	-6.8	-0.0	-	187.97	-	Cassiopeia
Rucbar / Ksora	Del Cas	01h 27m 00.5s	+60° 19' 42"	2,896e-06	-2,386e-07	6.7	-	-	30.48	-	Cassiopeia
Segin	Eps Cas	01h 55m 42.6s	+63° 45' 28"	3,508e-07	-9,182e-08	-8.3	-0.0	-	126.26	-	Cassiopeia
Gianfar	Lam Dra	11h 32m 27.2s	+69° 13' 53"	-5,627e-07	-9,304e-08	6.6	-	-	102.15	-	Draco
Dubhe	Alp UMa	11h 04m 49.4s	+61° 39' 13"	-1,374e-06	-1,682e-07	-9.4	-0.0	-	37.68	-	Ursa Major
Museida	8400048 (Pi UMa)	08h 41m 46.1s	+64° 15' 48"	-6,647e-07	1,280e-07	14.7	4.6	K0	77.40	-	Ursa Major

7.239 Main stars visible on chart 12

Table 245: Main stars visible on chart 12

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Cih	Gam Cas	00h 57m 48.6s	+60° 48' 50"	2,542e-07	-1,852e-08	-6.8	-0.0	-	187.97	-	Cassiopeia
Rucbar / Ksora	Del Cas	01h 27m 00.5s	+60° 19' 42"	2,896e-06	-2,386e-07	6.7	-	-	30.48	-	Cassiopeia
Segin	Eps Cas	01h 55m 42.6s	+63° 45' 28"	3,508e-07	-9,182e-08	-8.3	-0.0	-	126.26	-	Cassiopeia
Gianfar	Lam Dra	11h 32m 27.2s	+69° 13' 53"	-5,627e-07	-9,304e-08	6.6	-	-	102.15	-	Draco
Thuban	Alp Dra	14h 04m 52.7s	+64° 17' 25"	-6,316e-07	8,344e-08	-13.0	-0.0	-	92.94	-	Draco
Dubhe	Alp UMa	11h 04m 49.4s	+61° 39' 13"	-1,374e-06	-1,682e-07	-9.4	-0.0	-	37.68	-	Ursa Major
Museida	8400048 (Pi UMa)	08h 41m 46.1s	+64° 15' 48"	-6,647e-07	1,280e-07	14.7	4.6	K0	77.40	-	Ursa Major
Pherkad	Gam UMi	15h 20m 42.8s	+71° 46' 12"	-2,757e-07	8,678e-08	-3.9	-0.0	-	149.25	-	Ursa Minor

7.240 Main stars visible on chart 13

Table 246: Main stars visible on chart 13

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Cih	Gam Cas	00h 57m 48.6s	+60° 48' 50"	2,542e-07	-1,852e-08	-6.8	-0.0	-	187.97	-	Cassiopeia
Rucbar / Ksora	Del Cas	01h 27m 00.5s	+60° 19' 42"	2,896e-06	-2,386e-07	6.7	-	-	30.48	-	Cassiopeia
Segin	Eps Cas	01h 55m 42.6s	+63° 45' 28"	3,508e-07	-9,182e-08	-8.3	-0.0	-	126.26	-	Cassiopeia
Gianfar	Lam Dra	11h 32m 27.2s	+69° 13' 53"	-5,627e-07	-9,304e-08	6.6	-	-	102.15	-	Draco
Nodus I	Zet Dra	17h 08m 50.5s	+65° 41' 33"	-2,408e-07	9,507e-08	-17.7	-0.0	-	100.70	-	Draco
Thuban	Alp Dra	14h 04m 52.7s	+64° 17' 25"	-6,316e-07	8,344e-08	-13.0	-0.0	-	92.94	-	Draco
Dubhe	Alp UMa	11h 04m 49.4s	+61° 39' 13"	-1,374e-06	-1,682e-07	-9.4	-0.0	-	37.68	-	Ursa Major
Museida	8400048 (Pi UMa)	08h 41m 46.1s	+64° 15' 48"	-6,647e-07	1,280e-07	14.7	4.6	K0	77.40	-	Ursa Major
Pherkad	Gam UMi	15h 20m 42.8s	+71° 46' 12"	-2,757e-07	8,678e-08	-3.9	-0.0	-	149.25	-	Ursa Minor

7.241 Main stars visible on chart 14

Table 247: Main stars visible on chart 14

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Cih	Gam Cas	00h 57m 48.6s	+60° 48' 50"	2,542e-07	-1,852e-08	-6.8	-0.0	-	187.97	-	Cassiopeia
Rucbar / Ksora	Del Cas	01h 27m 00.5s	+60° 19' 42"	2,896e-06	-2,386e-07	6.7	-	-	30.48	-	Cassiopeia
Segin	Eps Cas	01h 55m 42.6s	+63° 45' 28"	3,508e-07	-9,182e-08	-8.3	-0.0	-	126.26	-	Cassiopeia
Gianfar	Lam Dra	11h 32m 27.2s	+69° 13' 53"	-5,627e-07	-9,304e-08	6.6	-	-	102.15	-	Draco
Nodus I	Zet Dra	17h 08m 50.5s	+65° 41' 33"	-2,408e-07	9,507e-08	-17.7	-0.0	-	100.70	-	Draco
Thuban	Alp Dra	14h 04m 52.7s	+64° 17' 25"	-6,316e-07	8,344e-08	-13.0	-0.0	-	92.94	-	Draco
Dubhe	Alp UMa	11h 04m 49.4s	+61° 39' 13"	-1,374e-06	-1,682e-07	-9.4	-0.0	-	37.68	-	Ursa Major
Museida	8400048 (Pi UMa)	08h 41m 46.1s	+64° 15' 48"	-6,647e-07	1,280e-07	14.7	4.6	K0	77.40	-	Ursa Major
Pherkad	Gam UMi	15h 20m 42.8s	+71° 46' 12"	-2,757e-07	8,678e-08	-3.9	-0.0	-	149.25	-	Ursa Minor

7.242 Main stars visible on chart 15

Table 248: Main stars visible on chart 15

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Gianfar	Lam Dra	11h 32m 27.2s	+69° 13' 53"	-5,627e-07	-9,304e-08	6.6	-	-	102.15	-	Draco
Nodus I	Zet Dra	17h 08m 50.5s	+65° 41' 33"	-2,408e-07	9,507e-08	-17.7	-0.0	-	100.70	-	Draco
Nodus II	Del Dra	19h 12m 33.3s	+67° 41' 35"	1,221e-06	4,456e-07	24.71	-	-	29.87	-	Draco
Thuban	Alp Dra	14h 04m 52.7s	+64° 17' 25"	-6,316e-07	8,344e-08	-13.0	-0.0	-	92.94	-	Draco
Tyl	Eps Dra	19h 48m 06.2s	+70° 18' 49"	1,139e-06	1,895e-07	2.69	-	-	45.37	-	Draco
Dubhe	Alp UMa	11h 04m 49.4s	+61° 39' 13"	-1,374e-06	-1,682e-07	-9.4	-0.0	-	37.68	-	Ursa Major
Museida	8400048 (Pi UMa)	08h 41m 46.1s	+64° 15' 48"	-6,647e-07	1,280e-07	14.7	4.6	K0	77.40	-	Ursa Major

Table 248: Main stars visible on chart 15 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Pherkad	Gam UMi	15h 20m 42.8s	+71° 46' 12"	-2,757e-07	8,678e-08	-3.9	-0.0	-	149.25	-	Ursa Minor

7.243 Main stars visible on chart 16

Table 249: Main stars visible on chart 16

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alderamin	Alp Cep	21h 19m 00.5s	+62° 39' 44"	1,585e-06	2,380e-07	-15.8	-0.0	-	15.04	-	Cepheus
Alfirk	Bet Cep	21h 28m 53.1s	+70° 38' 24"	1,827e-07	4,068e-08	-8.2	-0.0	-	210.08	-	Cepheus
Gianfar	Lam Dra	11h 32m 27.2s	+69° 13' 53"	-5,627e-07	-9,304e-08	6.6	-	-	102.15	-	Draco
Nodus I	Zet Dra	17h 08m 50.5s	+65° 41' 33"	-2,408e-07	9,507e-08	-17.7	-0.0	-	100.70	-	Draco
Nodus II	Del Dra	19h 12m 33.3s	+67° 41' 35"	1,221e-06	4,456e-07	24.71	-	-	29.87	-	Draco
Thuban	Alp Dra	14h 04m 52.7s	+64° 17' 25"	-6,316e-07	8,344e-08	-13.0	-0.0	-	92.94	-	Draco
Tyl	Eps Dra	19h 48m 06.2s	+70° 18' 49"	1,139e-06	1,895e-07	2.69	-	-	45.37	-	Draco
Dubhe	Alp UMa	11h 04m 49.4s	+61° 39' 13"	-1,374e-06	-1,682e-07	-9.4	-0.0	-	37.68	-	Ursa Major
Museida	8400048 (Pi UMa)	08h 41m 46.1s	+64° 15' 48"	-6,647e-07	1,280e-07	14.7	4.6	K0	77.40	-	Ursa Major
Pherkad	Gam UMi	15h 20m 42.8s	+71° 46' 12"	-2,757e-07	8,678e-08	-3.9	-0.0	-	149.25	-	Ursa Minor

7.244 Main stars visible on chart 17

Table 250: Main stars visible on chart 17

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alderamin	Alp Cep	21h 19m 00.5s	+62° 39' 44"	1,585e-06	2,380e-07	-15.8	-0.0	-	15.04	-	Cepheus
Alfirk	Bet Cep	21h 28m 53.1s	+70° 38' 24"	1,827e-07	4,068e-08	-8.2	-0.0	-	210.08	-	Cepheus
Gianfar	Lam Dra	11h 32m 27.2s	+69° 13' 53"	-5,627e-07	-9,304e-08	6.6	-	-	102.15	-	Draco
Nodus I	Zet Dra	17h 08m 50.5s	+65° 41' 33"	-2,408e-07	9,507e-08	-17.7	-0.0	-	100.70	-	Draco
Nodus II	Del Dra	19h 12m 33.3s	+67° 41' 35"	1,221e-06	4,456e-07	24.71	-	-	29.87	-	Draco
Thuban	Alp Dra	14h 04m 52.7s	+64° 17' 25"	-6,316e-07	8,344e-08	-13.0	-0.0	-	92.94	-	Draco
Tyl	Eps Dra	19h 48m 06.2s	+70° 18' 49"	1,139e-06	1,895e-07	2.69	-	-	45.37	-	Draco
Dubhe	Alp UMa	11h 04m 49.4s	+61° 39' 13"	-1,374e-06	-1,682e-07	-9.4	-0.0	-	37.68	-	Ursa Major
Pherkad	Gam UMi	15h 20m 42.8s	+71° 46' 12"	-2,757e-07	8,678e-08	-3.9	-0.0	-	149.25	-	Ursa Minor

7.245 Main stars visible on chart 18

Table 251: Main stars visible on chart 18

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alderamin	Alp Cep	21h 19m 00.5s	+62° 39' 44"	1,585e-06	2,380e-07	-15.8	-0.0	-	15.04	-	Cepheus
Alfirk	Bet Cep	21h 28m 53.1s	+70° 38' 24"	1,827e-07	4,068e-08	-8.2	-0.0	-	210.08	-	Cepheus
Nodus I	Zet Dra	17h 08m 50.5s	+65° 41' 33"	-2,408e-07	9,507e-08	-17.7	-0.0	-	100.70	-	Draco
Nodus II	Del Dra	19h 12m 33.3s	+67° 41' 35"	1,221e-06	4,456e-07	24.71	-	-	29.87	-	Draco
Thuban	Alp Dra	14h 04m 52.7s	+64° 17' 25"	-6,316e-07	8,344e-08	-13.0	-0.0	-	92.94	-	Draco
Tyl	Eps Dra	19h 48m 06.2s	+70° 18' 49"	1,139e-06	1,895e-07	2.69	-	-	45.37	-	Draco
Pherkad	Gam UMi	15h 20m 42.8s	+71° 46' 12"	-2,757e-07	8,678e-08	-3.9	-0.0	-	149.25	-	Ursa Minor

7.246 Main stars visible on chart 19

Table 252: Main stars visible on chart 19

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alderamin	Alp Cep	21h 19m 00.5s	+62° 39' 44"	1,585e-06	2,380e-07	-15.8	-0.0	-	15.04	-	Cepheus
Alfirk	Bet Cep	21h 28m 53.1s	+70° 38' 24"	1,827e-07	4,068e-08	-8.2	-0.0	-	210.08	-	Cepheus
Nodus I	Zet Dra	17h 08m 50.5s	+65° 41' 33"	-2,408e-07	9,507e-08	-17.7	-0.0	-	100.70	-	Draco
Nodus II	Del Dra	19h 12m 33.3s	+67° 41' 35"	1,221e-06	4,456e-07	24.71	-	-	29.87	-	Draco
Tyl	Eps Dra	19h 48m 06.2s	+70° 18' 49"	1,139e-06	1,895e-07	2.69	-	-	45.37	-	Draco
Pherkad	Gam UMi	15h 20m 42.8s	+71° 46' 12"	-2,757e-07	8,678e-08	-3.9	-0.0	-	149.25	-	Ursa Minor

7.247 Main stars visible on chart 20

Table 253: Main stars visible on chart 20

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Achird	Eta Cas	00h 50m 12.3s	+57° 54' 37"	9,890e-06	-2,712e-06	8.44	-	-	5.95	-	Cassiopeia
Caph	Bet Cas	00h 10m 09.0s	+59° 14' 56"	4,949e-06	-8,715e-07	4.3	-	-	16.78	-	Cassiopeia
Schedar	Alp Cas	00h 41m 32.4s	+56° 38' 09"	4,474e-07	-1,558e-07	-4.31	-0.0	-	69.98	-	Cassiopeia
Miram	Eta Per	02h 52m 01.4s	+55° 58' 08"	1,403e-07	-6,564e-08	-1.07	-0.0	-	269.54	-	Perseus
Mirfak	Alp Per	03h 25m 37.0s	+49° 55' 26"	1,786e-07	-1,272e-07	-2.04	-0.0	-	155.28	-	Perseus
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.248 Main stars visible on chart 21

Table 254: Main stars visible on chart 21

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Achird	Eta Cas	00h 50m 12.3s	+57° 54' 37"	9,890e-06	-2,712e-06	8.44	-	-	5.95	-	Cassiopeia
Caph	Bet Cas	00h 10m 09.0s	+59° 14' 56"	4,949e-06	-8,715e-07	4.3	-	-	16.78	-	Cassiopeia
Schedar	Alp Cas	00h 41m 32.4s	+56° 38' 09"	4,474e-07	-1,558e-07	-4.31	-0.0	-	69.98	-	Cassiopeia
Miram	Eta Per	02h 52m 01.4s	+55° 58' 08"	1,403e-07	-6,564e-08	-1.07	-0.0	-	269.54	-	Perseus
Mirfak	Alp Per	03h 25m 37.0s	+49° 55' 26"	1,786e-07	-1,272e-07	-2.04	-0.0	-	155.28	-	Perseus
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.249 Main stars visible on chart 22

Table 255: Main stars visible on chart 22

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Achird	Eta Cas	00h 50m 12.3s	+57° 54' 37"	9,890e-06	-2,712e-06	8.44	-	-	5.95	-	Cassiopeia
Caph	Bet Cas	00h 10m 09.0s	+59° 14' 56"	4,949e-06	-8,715e-07	4.3	-	-	16.78	-	Cassiopeia
Schedar	Alp Cas	00h 41m 32.4s	+56° 38' 09"	4,474e-07	-1,558e-07	-4.31	-0.0	-	69.98	-	Cassiopeia
Miram	Eta Per	02h 52m 01.4s	+55° 58' 08"	1,403e-07	-6,564e-08	-1.07	-0.0	-	269.54	-	Perseus
Mirfak	Alp Per	03h 25m 37.0s	+49° 55' 26"	1,786e-07	-1,272e-07	-2.04	-0.0	-	155.28	-	Perseus
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.250 Main stars visible on chart 23

Table 256: Main stars visible on chart 23

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Achird	Eta Cas	00h 50m 12.3s	+57° 54' 37"	9,890e-06	-2,712e-06	8.44	-	-	5.95	-	Cassiopeia
Caph	Bet Cas	00h 10m 09.0s	+59° 14' 56"	4,949e-06	-8,715e-07	4.3	-	-	16.78	-	Cassiopeia
Schedar	Alp Cas	00h 41m 32.4s	+56° 38' 09"	4,474e-07	-1,558e-07	-4.31	-0.0	-	69.98	-	Cassiopeia
Miram	Eta Per	02h 52m 01.4s	+55° 58' 08"	1,403e-07	-6,564e-08	-1.07	-0.0	-	269.54	-	Perseus
Mirfak	Alp Per	03h 25m 37.0s	+49° 55' 26"	1,786e-07	-1,272e-07	-2.04	-0.0	-	155.28	-	Perseus
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major

Table 256: Main stars visible on chart 23 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.251 Main stars visible on chart 24

Table 257: Main stars visible on chart 24

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Achird	Eta Cas	00h 50m 12.3s	+57° 54' 37"	9,890e-06	-2,712e-06	8.44	-	-	5.95	-	Cassiopeia
Caph	Bet Cas	00h 10m 09.0s	+59° 14' 56"	4,949e-06	-8,715e-07	4.3	-	-	16.78	-	Cassiopeia
Schedar	Alp Cas	00h 41m 32.4s	+56° 38' 09"	4,474e-07	-1,558e-07	-4.31	-0.0	-	69.98	-	Cassiopeia
Miram	Eta Per	02h 52m 01.4s	+55° 58' 08"	1,403e-07	-6,564e-08	-1.07	-0.0	-	269.54	-	Perseus
Mirfak	Alp Per	03h 25m 37.0s	+49° 55' 26"	1,786e-07	-1,272e-07	-2.04	-0.0	-	155.28	-	Perseus
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.252 Main stars visible on chart 25

Table 258: Main stars visible on chart 25

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Achird	Eta Cas	00h 50m 12.3s	+57° 54' 37"	9,890e-06	-2,712e-06	8.44	-	-	5.95	-	Cassiopeia
Caph	Bet Cas	00h 10m 09.0s	+59° 14' 56"	4,949e-06	-8,715e-07	4.3	-	-	16.78	-	Cassiopeia
Schedar	Alp Cas	00h 41m 32.4s	+56° 38' 09"	4,474e-07	-1,558e-07	-4.31	-0.0	-	69.98	-	Cassiopeia
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco

Table 258: Main stars visible on chart 25 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco
Miram	Eta Per	02h 52m 01.4s	+55° 58' 08"	1,403e-07	-6,564e-08	-1.07	-0.0	-	269.54	-	Perseus
Mirfak	Alp Per	03h 25m 37.0s	+49° 55' 26"	1,786e-07	-1,272e-07	-2.04	-0.0	-	155.28	-	Perseus
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.253 Main stars visible on chart 26

Table 259: Main stars visible on chart 26

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco
Miram	Eta Per	02h 52m 01.4s	+55° 58' 08"	1,403e-07	-6,564e-08	-1.07	-0.0	-	269.54	-	Perseus
Mirfak	Alp Per	03h 25m 37.0s	+49° 55' 26"	1,786e-07	-1,272e-07	-2.04	-0.0	-	155.28	-	Perseus
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.254 Main stars visible on chart 27

Table 260: Main stars visible on chart 27

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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Table 260: Main stars visible on chart 27 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco
Mirfak	Alp Per	03h 25m 37.0s	+49° 55' 26"	1,786e-07	-1,272e-07	-2.04	-0.0	-	155.28	-	Perseus
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.255 Main stars visible on chart 28

Table 261: Main stars visible on chart 28

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Erakis	21430096 (Mu Cep)	21h 44m 03.6s	+58° 51' 47"	4,872e-08	-1,406e-08	19.4	4.0	Ma	1612.90	Pulsating (Semi-irr)	Cepheus
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.256 Main stars visible on chart 29

Table 262: Main stars visible on chart 29

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Erakis	21430096 (Mu Cep)	21h 44m 03.6s	+58° 51' 47"	4,872e-08	-1,406e-08	19.4	4.0	Ma	1612.90	Pulsating (Semi-irr)	Cepheus
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.257 Main stars visible on chart 30

Table 263: Main stars visible on chart 30

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Erakis	21430096 (Mu Cep)	21h 44m 03.6s	+58° 51' 47"	4,872e-08	-1,406e-08	19.4	4.0	Ma	1612.90	Pulsating (Semi-irr)	Cepheus
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Merak	Bet UMa	11h 02m 55.0s	+56° 17' 08"	7,131e-07	1,624e-07	-13.1	-0.0	-	24.45	-	Ursa Major

Table 263: Main stars visible on chart 30 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.258 Main stars visible on chart 31

Table 264: Main stars visible on chart 31

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Erakis	21430096 (Mu Cep)	21h 44m 03.6s	+58° 51' 47"	4,872e-08	-1,406e-08	19.4	4.0	Ma	1612.90	Pulsating (Semi-irr)	Cepheus
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco
Alcor	13250029	13h 25m 56.6s	+54° 53' 40"	1,017e-06	-8,193e-08	-8.9	4.0	A5	24.88	Pulsating	Ursa Major
Alioth	Eps UMa	12h 54m 49.0s	+55° 51' 45"	9,692e-07	-3,995e-08	-12.7	-0.0	-	25.31	-	Ursa Major
Benetnash	Eta UMa	13h 48m 14.9s	+49° 13' 26"	-9,011e-07	-7,229e-08	-13.4	-0.0	-	31.87	-	Ursa Major
Megrez	Del UMa	12h 16m 18.6s	+56° 55' 58"	9,276e-07	3,539e-08	-15.3	-0.0	-	24.69	-	Ursa Major
Mizar	Zet UMa	13h 24m 38.9s	+54° 49' 54"	1,004e-06	-1,259e-07	-6.31	-0.0	-	26.31	-	Ursa Major
Phekda	Gam UMa	11h 54m 46.2s	+53° 35' 41"	8,817e-07	5,338e-08	-11.9	-0.0	-	25.50	-	Ursa Major

7.259 Main stars visible on chart 32

Table 265: Main stars visible on chart 32

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Erakis	21430096 (Mu Cep)	21h 44m 03.6s	+58° 51' 47"	4,872e-08	-1,406e-08	19.4	4.0	Ma	1612.90	Pulsating (Semi-irr)	Cepheus
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco

Table 265: Main stars visible on chart 32 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco

7.260 Main stars visible on chart 33

Table 266: Main stars visible on chart 33

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Erakis	21430096 (Mu Cep)	21h 44m 03.6s	+58° 51' 47"	4,872e-08	-1,406e-08	19.4	4.0	Ma	1612.90	Pulsating (Semi-irr)	Cepheus
Arrakis	17050064 (Mu Dra)	17h 05m 42.6s	+54° 26' 49"	-5,505e-07	3,583e-07	-14.3	5.5	F5	26.97	-	Draco
Etamin	Gam Dra	17h 57m 01.5s	+51° 29' 15"	-6,603e-08	-1,105e-07	-27.91	-0.0	-	47.30	-	Draco
Grumium	17530125 (Xi Dra)	17h 53m 50.5s	+56° 52' 13"	8,305e-07	3,801e-07	-25.8	3.7	K0	34.18	-	Draco
Kuma	17320028 (Nu Dra)	17h 32m 31.9s	+55° 10' 21"	1,261e-06	2,628e-07	-15.2	4.9	A5	30.34	Eruptive (Irr)	Draco
Rastaban	Bet Dra	17h 30m 50.4s	+52° 17' 19"	-1,260e-07	5,954e-08	-21.0	-0.0	-	116.55	-	Draco

7.261 Main stars visible on chart 34

Table 267: Main stars visible on chart 34

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.262 Main stars visible on chart 35

Table 268: Main stars visible on chart 35

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.263 Main stars visible on chart 36

Table 269: Main stars visible on chart 36

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.264 Main stars visible on chart 37

Table 270: Main stars visible on chart 37

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.265 Main stars visible on chart 38

Table 271: Main stars visible on chart 38

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.266 Main stars visible on chart 39

Table 272: Main stars visible on chart 39

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.267 Main stars visible on chart 40

Table 273: Main stars visible on chart 40

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.268 Main stars visible on chart 41

Table 274: Main stars visible on chart 41

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.269 Main stars visible on chart 42

Table 275: Main stars visible on chart 42

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Almak	Gam1 And	02h 05m 00.7s	+42° 24' 55"	2,825e-07	-2,465e-07	-11.7	-0.0	-	108.81	-	Andromeda
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major

Table 275: Main stars visible on chart 42 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.270 Main stars visible on chart 43

Table 276: Main stars visible on chart 43

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra
Algol	Bet Per	03h 09m 20.8s	+41° 01' 25"	1,919e-08	-8,048e-09	4.0	-	-	27.57	-	Perseus
Misam	Kap Per	03h 10m 43.1s	+44° 55' 28"	1,183e-06	-6,952e-07	29.4	-	-	34.57	-	Perseus
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.271 Main stars visible on chart 44

Table 277: Main stars visible on chart 44

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Azaleh	Zet Aur	05h 03m 44.4s	+41° 06' 01"	6,078e-08	-1,004e-07	11.32	-	-	240.96	-	Auriga
Capella	Alp Aur	05h 18m 01.3s	+46° 00' 52"	5,252e-07	-2,070e-06	29.19	-	-	13.12	-	Auriga
Hoedus 2	Eta Aur	05h 07m 46.8s	+41° 15' 25"	2,028e-07	-3,290e-07	7.3	-	-	74.63	-	Auriga
Menkalinan	Bet Aur	06h 00m 51.0s	+44° 56' 50"	-3,866e-07	-4,606e-09	-15.75	-0.0	-	24.87	-	Auriga
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes

Table 277: Main stars visible on chart 44 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.272 Main stars visible on chart 45

Table 278: Main stars visible on chart 45

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.273 Main stars visible on chart 46

Table 279: Main stars visible on chart 46

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes

Table 279: Main stars visible on chart 46 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra
Talitha	Iot UMa	09h 00m 25.9s	+47° 58' 12"	-3,200e-06	-1,044e-06	9.0	-	-	14.51	-	Ursa Major
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.274 Main stars visible on chart 47

Table 280: Main stars visible on chart 47

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra
Tania Australis	10220058 (Mu UMa)	10h 23m 23.7s	+41° 24' 30"	-5,207e-07	1,653e-07	-20.5	3.0	K5	76.28	Eclipsing	Ursa Major
Tania Borealis	Lam UMa	10h 18m 10.5s	+42° 49' 26"	-1,196e-06	-2,234e-07	18.1	-	-	42.16	-	Ursa Major

7.275 Main stars visible on chart 48

Table 281: Main stars visible on chart 48

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Asterion	Bet CVn	12h 34m 35.6s	+41° 15' 35"	-4,552e-06	1,419e-06	6.52	-	-	8.44	-	Canes Venatici
Cor Caroli	Alp1 CVn	12h 56m 50.8s	+38° 13' 05"	-1,439e-06	2,700e-07	-0.6	-0.0	-	36.90	-	Canes Venatici
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus

Table 281: Main stars visible on chart 48 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra

7.276 Main stars visible on chart 49

Table 282: Main stars visible on chart 49

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Haris	Gam Boo	14h 32m 48.1s	+38° 13' 49"	-7,149e-07	7,328e-07	-32.4	-0.0	-	26.61	-	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra

7.277 Main stars visible on chart 50

Table 283: Main stars visible on chart 50

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alkalurops	15240088 (Mu Boo)	15h 25m 10.3s	+37° 18' 53"	-9,010e-07	4,106e-07	-12.1	4.3	F0	37.09	Pulsating	Bootes
Nekkar	Bet Boo	15h 02m 37.5s	+40° 19' 13"	-2,556e-07	-1,399e-07	-18.4	-0.0	-	69.06	-	Bootes
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra

7.278 Main stars visible on chart 51

Table 284: Main stars visible on chart 51

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Deneb	Alp Cyg	20h 42m 02.8s	+45° 20' 43"	1,385e-08	8,969e-09	-4.9	-0.0	-	432.90	-	Cygnus
Sadir	Gam Cyg	20h 22m 52.5s	+40° 18' 54"	1,518e-08	-4,412e-09	-6.4	-0.0	-	561.80	-	Cygnus
Vega	Alp Lyr	18h 37m 32.9s	+38° 48' 05"	1,250e-06	1,388e-06	-20.6	-0.0	-	7.68	-	Lyra

7.279 Main stars visible on chart 52

Table 285: Main stars visible on chart 52

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah Alpheratz	/ Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Ras Elased Bo-realis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.280 Main stars visible on chart 53

Table 286: Main stars visible on chart 53

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah Alpheratz	/ Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Ras Elased Bo-realis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus

Table 286: Main stars visible on chart 53 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.281 Main stars visible on chart 54

Table 287: Main stars visible on chart 54

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah / Alpheratz	Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.282 Main stars visible on chart 55

Table 288: Main stars visible on chart 55

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah Alpheratz	/ Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.283 Main stars visible on chart 56

Table 289: Main stars visible on chart 56

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah Alpheratz	/ Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus

Table 289: Main stars visible on chart 56 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menke	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.284 Main stars visible on chart 57

Table 290: Main stars visible on chart 57

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah	/ Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Alpheratz											
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menke	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major

Table 290: Main stars visible on chart 57 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.285 Main stars visible on chart 58

Table 291: Main stars visible on chart 58

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah Alpheratz	/ Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstata	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.286 Main stars visible on chart 59

Table 292: Main stars visible on chart 59

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah Alpheratz	/ Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebsuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Bo- realis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.287 Main stars visible on chart 60

Table 293: Main stars visible on chart 60

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirach	Bet And	01h 10m 44.7s	+35° 42' 56"	1,049e-06	-5,440e-07	0.06	-0.0	-	60.53	-	Andromeda
Sirrah Alpheratz	/ Alp And	00h 09m 19.3s	+29° 11' 23"	7,626e-07	-7,924e-07	-10.1	-0.0	-	29.74	-	Andromeda
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebsuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini

Table 293: Main stars visible on chart 60 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.288 Main stars visible on chart 61

Table 294: Main stars visible on chart 61

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstata	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus

Table 294: Main stars visible on chart 61 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Metallah	Alp Tri	01h 54m 06.8s	+29° 39' 57"	6,032e-08	-1,136e-06	-12.6	-0.0	-	19.42	-	Triangulum
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.289 Main stars visible on chart 62

Table 295: Main stars visible on chart 62

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Atiks	Omi Per	03h 45m 27.1s	+32° 20' 38"	4,691e-08	-5,057e-08	12.2	-	-	343.64	-	Perseus
Menkhib	Zet Per	03h 55m 16.1s	+31° 56' 08"	3,294e-08	-4,809e-08	20.6	-	-	230.41	-	Perseus
Alcyone	Eta Tau	03h 48m 33.5s	+24° 09' 34"	1,027e-07	-2,117e-07	5.4	-	-	123.61	-	Taurus
Atlas	3490031	03h 50m 14.2s	+24° 06' 26"	9,454e-08	-2,167e-07	8.5	3.6	B8	116.69	Pulsating	Taurus
Electra	3440134	03h 45m 56.9s	+24° 10' 07"	1,142e-07	-2,177e-07	12.4	3.7	B5	113.64	-	Taurus
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Maia	3450121	03h 46m 54.1s	+24° 25' 22"	1,120e-07	-2,182e-07	7.6	3.9	B5	110.38	-	Taurus
Merope	3460042	03h 47m 23.9s	+24° 00' 11"	1,120e-07	-2,070e-07	6.2	4.2	B5	110.13	-	Taurus
Taygeta	3450036	03h 46m 17.0s	+24° 31' 21"	1,033e-07	-2,017e-07	5.2	4.3	B5	114.29	-	Taurus
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major

Table 295: Main stars visible on chart 62 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alula Boreale	11180058 (Nu Uma)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.290 Main stars visible on chart 63

Table 296: Main stars visible on chart 63

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hassaleh	Iot Aur	04h 58m 10.1s	+33° 11' 35"	3,933e-08	-7,214e-08	17.78	-	-	151.29	-	Auriga
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Elnath	Bet Tau	05h 27m 25.9s	+28° 37' 16"	1,257e-07	-8,415e-07	9.2	-	-	41.05	-	Taurus
Alula Australe	11180026 (Xi Uma)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu Uma)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.291 Main stars visible on chart 64

Table 297: Main stars visible on chart 64

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Castor	Alp Gem	07h 35m 44.6s	+31° 50' 50"	-1,093e-06	-7,039e-07	5.4	-	-	15.60	-	Gemini
Mebstuta	Eps Gem	06h 45m 02.3s	+25° 06' 42"	-2,983e-08	-5,992e-08	7.77	-	-	259.07	-	Gemini
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini

Table 297: Main stars visible on chart 64 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.292 Main stars visible on chart 65

Table 298: Main stars visible on chart 65

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Pollux	Bet Gem	07h 46m 24.9s	+27° 58' 53"	-3,441e-06	-2,220e-07	3.23	-	-	10.36	-	Gemini
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Matar	Eta Peg	22h 43m 50.9s	+30° 18' 57"	7,384e-08	-1,245e-07	4.17	-	-	65.70	-	Pegasus
Scheat	Bet Peg	23h 04m 39.0s	+28° 10' 51"	1,031e-06	6,639e-07	7.99	-	-	60.10	-	Pegasus
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.293 Main stars visible on chart 66

Table 299: Main stars visible on chart 66

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes

Table 299: Main stars visible on chart 66 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Ras Elased Borealis	9520135 (Mu Leo)	09h 53m 47.0s	+25° 55' 17"	-1,166e-06	-2,662e-07	13.8	3.9	K0	40.78	-	Leo
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Matar	Eta Peg	22h 43m 50.9s	+30° 18' 57"	7,384e-08	-1,245e-07	4.17	-	-	65.70	-	Pegasus
Scheat	Bet Peg	23h 04m 39.0s	+28° 10' 51"	1,031e-06	6,639e-07	7.99	-	-	60.10	-	Pegasus
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.294 Main stars visible on chart 67

Table 300: Main stars visible on chart 67

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Matar	Eta Peg	22h 43m 50.9s	+30° 18' 57"	7,384e-08	-1,245e-07	4.17	-	-	65.70	-	Pegasus
Scheat	Bet Peg	23h 04m 39.0s	+28° 10' 51"	1,031e-06	6,639e-07	7.99	-	-	60.10	-	Pegasus
Alula Australe	11180026 (Xi UMa)	11h 19m 08.3s	+31° 25' 40"	-2,443e-06	-2,841e-06	-16.0	3.8	G0	7.30	-	Ursa Major
Alula Boreale	11180058 (Nu UMa)	11h 19m 26.8s	+32° 59' 45"	-1,542e-07	1,333e-07	-9.2	3.5	K0	129.20	-	Ursa Major

7.295 Main stars visible on chart 68

Table 301: Main stars visible on chart 68

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Matar	Eta Peg	22h 43m 50.9s	+30° 18' 57"	7,384e-08	-1,245e-07	4.17	-	-	65.70	-	Pegasus
Scheat	Bet Peg	23h 04m 39.0s	+28° 10' 51"	1,031e-06	6,639e-07	7.99	-	-	60.10	-	Pegasus

7.296 Main stars visible on chart 69

Table 302: Main stars visible on chart 69

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Izar	Eps Boo	14h 45m 46.4s	+26° 59' 57"	-2,774e-07	1,022e-07	-16.31	-0.0	-	62.11	-	Bootes
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Matar	Eta Peg	22h 43m 50.9s	+30° 18' 57"	7,384e-08	-1,245e-07	4.17	-	-	65.70	-	Pegasus
Scheat	Bet Peg	23h 04m 39.0s	+28° 10' 51"	1,031e-06	6,639e-07	7.99	-	-	60.10	-	Pegasus

7.297 Main stars visible on chart 70

Table 303: Main stars visible on chart 70

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alphecca	Alp CrB	15h 35m 27.0s	+26° 39' 18"	6,528e-07	-4,343e-07	1.7	-	-	23.01	-	Corona Borealis
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Matar	Eta Peg	22h 43m 50.9s	+30° 18' 57"	7,384e-08	-1,245e-07	4.17	-	-	65.70	-	Pegasus

Table 303: Main stars visible on chart 70 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Scheat	Bet Peg	23h 04m 39.0s	+28° 10' 51"	1,031e-06	6,639e-07	7.99	-	-	60.10	-	Pegasus

7.298 Main stars visible on chart 71

Table 304: Main stars visible on chart 71

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Albireo	Bet1 Cyg	19h 31m 26.8s	+27° 59' 54"	-3,935e-08	-2,982e-08	-24.07	-0.0	-	133.16	-	Cygnus
Gienah	Eps Cyg	20h 46m 56.4s	+34° 02' 19"	2,079e-06	1,603e-06	-12.41	-0.0	-	22.29	-	Cygnus
Maasym	Lam Her	17h 31m 28.0s	+26° 05' 53"	1,016e-07	8,058e-08	-26.51	-0.0	-	113.25	-	Hercules
Sarin	Del Her	17h 15m 46.3s	+24° 49' 09"	-1,132e-07	-7,586e-07	-40.0	-0.0	-	23.04	-	Hercules
Sheliak	Bet Lyr	18h 50m 44.7s	+33° 23' 04"	1,103e-08	-1,711e-08	2.2	-	-	294.99	-	Lyra
Sulaphat	Gam Lyr	18h 59m 37.0s	+32° 42' 55"	-1,780e-08	5,381e-09	-20.2	-0.0	-	190.11	-	Lyra
Matar	Eta Peg	22h 43m 50.9s	+30° 18' 57"	7,384e-08	-1,245e-07	4.17	-	-	65.70	-	Pegasus
Scheat	Bet Peg	23h 04m 39.0s	+28° 10' 51"	1,031e-06	6,639e-07	7.99	-	-	60.10	-	Pegasus

7.299 Main stars visible on chart 72

Table 305: Main stars visible on chart 72

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo

Table 305: Main stars visible on chart 72 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.300 Main stars visible on chart 73

Table 306: Main stars visible on chart 73

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.301 Main stars visible on chart 74

Table 307: Main stars visible on chart 74

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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Table 307: Main stars visible on chart 74 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.302 Main stars visible on chart 75

Table 308: Main stars visible on chart 75

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini

Table 308: Main stars visible on chart 75 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.303 Main stars visible on chart 76

Table 309: Main stars visible on chart 76

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo

Table 309: Main stars visible on chart 76 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Ras Australis	Elsed Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.304 Main stars visible on chart 77

Table 310: Main stars visible on chart 77

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Elsed Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.305 Main stars visible on chart 78

Table 311: Main stars visible on chart 78

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.306 Main stars visible on chart 79

Table 312: Main stars visible on chart 79

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer

Table 312: Main stars visible on chart 79 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.307 Main stars visible on chart 80

Table 313: Main stars visible on chart 80

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini

Table 313: Main stars visible on chart 80 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Algenib	Gam Peg	00h 14m 09.9s	+15° 17' 01"	9,947e-09	-4,499e-08	3.2	-	-	120.05	-	Pegasus
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.308 Main stars visible on chart 81

Table 314: Main stars visible on chart 81

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Hamal	Alp Ari	02h 08m 11.5s	+23° 32' 48"	9,965e-07	-7,179e-07	-14.64	-0.0	-	20.18	-	Aries
Mesarthim	Gam1 Ari	01h 54m 31.3s	+19° 23' 00"	4,238e-07	-5,183e-07	3.7	-	-	1000.00	-	Aries
Sheratan	Bet Ari	01h 55m 38.3s	+20° 53' 43"	5,121e-07	-5,353e-07	-3.1	-0.0	-	17.99	-	Aries
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules

Table 314: Main stars visible on chart 81 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Elased Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.309 Main stars visible on chart 82

Table 315: Main stars visible on chart 82

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo

Table 315: Main stars visible on chart 82 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Ras Australis	Elased Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta
Ain	Eps Tau	04h 29m 40.2s	+19° 13' 08"	5,451e-07	-1,835e-07	38.5	-	-	44.96	-	Taurus
Aldebaran	Alp Tau	04h 36m 57.3s	+16° 32' 39"	3,208e-07	-9,160e-07	54.26	-	-	20.43	-	Taurus

7.310 Main stars visible on chart 83

Table 316: Main stars visible on chart 83

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Aus- Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Bore- Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Elased Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.311 Main stars visible on chart 84

Table 317: Main stars visible on chart 84

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Alhena	Gam Gem	06h 38m 45.1s	+16° 22' 57"	6,979e-08	-2,665e-07	-12.63	-0.0	-	33.51	-	Gemini
Mekbuda	Zet Gem	07h 05m 10.5s	+20° 32' 33"	-3,775e-08	-1,988e-09	2.8	-	-	421.94	-	Gemini
Tejat Posterior	6220217 (Mu Gem)	06h 24m 03.0s	+22° 30' 10"	2,982e-07	-5,275e-07	54.8	2.9	Ma	71.07	Pulsating (Irr Superg)	Gemini
Tejat Prior	Eta Gem	06h 15m 57.9s	+22° 29' 60"	-3,278e-07	-5,876e-08	22.39	-	-	117.92	-	Gemini
Wasat	Del Gem	07h 21m 11.8s	+21° 56' 52"	-7,910e-08	-4,746e-08	4.1	-	-	18.54	-	Gemini
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.312 Main stars visible on chart 85

Table 318: Main stars visible on chart 85

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Asellus Australis	Del Cnc	08h 45m 42.3s	+18° 05' 13"	-9,015e-08	-1,111e-06	17.14	-	-	40.03	-	Cancer
Asellus Borealis	Gam Cnc	08h 44m 19.5s	+21° 24' 09"	-5,392e-07	-1,914e-07	28.7	-	-	55.56	-	Cancer
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices

Table 318: Main stars visible on chart 85 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Elased Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Markab	Alp Peg	23h 05m 39.5s	+15° 18' 09"	3,035e-07	-2,002e-07	-2.7	-0.0	-	40.88	-	Pegasus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.313 Main stars visible on chart 86

Table 319: Main stars visible on chart 86

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Adhafera	Zet Leo	10h 17m 41.3s	+23° 19' 37"	9,716e-08	-3,316e-08	-21.4	-0.0	-	84.03	-	Leo
Algieba	Gam1 Leo	10h 20m 57.7s	+19° 44' 59"	1,602e-06	-7,413e-07	-36.98	-0.0	-	38.52	-	Leo
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Ras Elased Australis	Eps Leo	09h 46m 52.2s	+23° 41' 26"	-2,416e-07	-4,465e-08	4.48	-	-	75.64	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Markab	Alp Peg	23h 05m 39.5s	+15° 18' 09"	3,035e-07	-2,002e-07	-2.7	-0.0	-	40.88	-	Pegasus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.314 Main stars visible on chart 87

Table 320: Main stars visible on chart 87

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Coxa	The Leo	11h 15m 11.0s	+15° 19' 51"	-3,033e-07	-3,835e-07	7.3	-	-	50.61	-	Leo
Denebola	Bet Leo	11h 49m 58.6s	+14° 28' 17"	-2,493e-06	-5,559e-07	-0.2	-0.0	-	11.00	-	Leo
Zosma	Del Leo	11h 15m 03.8s	+20° 25' 29"	7,424e-07	-6,297e-07	-20.9	-0.0	-	17.91	-	Leo
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Markab	Alp Peg	23h 05m 39.5s	+15° 18' 09"	3,035e-07	-2,002e-07	-2.7	-0.0	-	40.88	-	Pegasus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.315 Main stars visible on chart 88

Table 321: Main stars visible on chart 88

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Diadem	Alp Com	13h 10m 51.8s	+17° 26' 05"	-2,202e-06	6,848e-07	-16.05	-0.0	-	17.83	-	Coma Berenices
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Markab	Alp Peg	23h 05m 39.5s	+15° 18' 09"	3,035e-07	-2,002e-07	-2.7	-0.0	-	40.88	-	Pegasus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.316 Main stars visible on chart 89

Table 322: Main stars visible on chart 89

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Arcturus	Alp Boo	14h 16m 29.0s	+19° 05' 22"	-5,613e-06	-9,697e-06	-5.19	-0.0	-	11.26	-	Bootes
Mufrid	Eta Boo	13h 55m 32.5s	+18° 18' 29"	-3,114e-07	-1,727e-06	0.7	-	-	11.40	-	Bootes
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus

Table 322: Main stars visible on chart 89 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Markab	Alp Peg	23h 05m 39.5s	+15° 18' 09"	3,035e-07	-2,002e-07	-2.7	-0.0	-	40.88	-	Pegasus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.317 Main stars visible on chart 90

Table 323: Main stars visible on chart 90

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Kajam	Ome Her	16h 26m 14.9s	+13° 59' 35"	1,987e-07	-2,908e-07	-5.9	-0.0	-	76.69	-	Hercules
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Rutilicus	Bet Her	16h 30m 59.7s	+21° 27' 05"	-5,166e-07	-7,461e-08	-25.91	-0.0	-	42.66	-	Hercules
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Markab	Alp Peg	23h 05m 39.5s	+15° 18' 09"	3,035e-07	-2,002e-07	-2.7	-0.0	-	40.88	-	Pegasus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.318 Main stars visible on chart 91

Table 324: Main stars visible on chart 91

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Rotanev	Bet Del	20h 38m 23.6s	+14° 39' 31"	5,916e-07	-2,330e-07	-22.7	-0.0	-	30.93	-	Delphinus
Sualocin	Alp Del	20h 40m 28.4s	+15° 58' 36"	2,713e-07	4,106e-08	-3.4	-0.0	-	77.82	-	Delphinus
Ras Algethi	Alp1 Her	17h 15m 28.1s	+14° 22' 16"	-8,509e-08	2,279e-07	-33.1	-	-	1000.00	-	Hercules
Ras Alhague	Alp Oph	17h 35m 46.2s	+12° 32' 53"	5,368e-07	-1,074e-06	11.7	-	-	14.90	-	Ophiuchus
Markab	Alp Peg	23h 05m 39.5s	+15° 18' 09"	3,035e-07	-2,002e-07	-2.7	-0.0	-	40.88	-	Pegasus
Sham	Alp Sge	19h 40m 54.1s	+18° 03' 23"	7,693e-08	-9,527e-08	1.72	-	-	130.38	-	Sagitta

7.319 Main stars visible on chart 92

Table 325: Main stars visible on chart 92

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljdhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrisha	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.320 Main stars visible on chart 93

Table 326: Main stars visible on chart 93

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljdhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrisha	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.321 Main stars visible on chart 94

Table 327: Main stars visible on chart 94

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljdhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo

Table 327: Main stars visible on chart 94 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrisha	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.322 Main stars visible on chart 95

Table 328: Main stars visible on chart 95

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljdhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrisha	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.323 Main stars visible on chart 96

Table 329: Main stars visible on chart 96

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljdhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion

Table 329: Main stars visible on chart 96 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrisha	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.324 Main stars visible on chart 97

Table 330: Main stars visible on chart 97

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljdhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrisha	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.325 Main stars visible on chart 98

Table 331: Main stars visible on chart 98

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljdhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion

Table 331: Main stars visible on chart 98 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alrisha	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.326 Main stars visible on chart 99

Table 332: Main stars visible on chart 99

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljidhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrisha	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.327 Main stars visible on chart 100

Table 333: Main stars visible on chart 100

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljidhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion

Table 333: Main stars visible on chart 100 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrishah	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindematrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.328 Main stars visible on chart 101

Table 334: Main stars visible on chart 101

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Kaffaljidhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrishah	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindematrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.329 Main stars visible on chart 102

Table 335: Main stars visible on chart 102

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor

Table 335: Main stars visible on chart 102 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Kaffaljdhma	Gam Cet	02h 44m 14.1s	+03° 18' 39"	-7,094e-07	-7,084e-07	-4.9	-0.0	-	24.41	-	Cetus
Menkar	Alp Cet	03h 03m 13.4s	+04° 09' 34"	-5,060e-08	-3,726e-07	-26.08	-0.0	-	76.39	-	Cetus
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Alrishah	Alp Psc	02h 02m 58.8s	+02° 50' 60"	1,575e-07	1,939e-10	7.5	-	-	46.17	-	Pisces
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.330 Main stars visible on chart 103

Table 336: Main stars visible on chart 103

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.331 Main stars visible on chart 104

Table 337: Main stars visible on chart 104

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Bellatrix	Gam Ori	05h 26m 05.9s	+06° 21' 53"	-3,956e-08	-6,244e-08	18.2	-	-	77.40	-	Orion
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Heka	Lam Ori	05h 36m 07.8s	+09° 56' 41"	-1,673e-09	-1,425e-08	30.1	-	-	336.70	-	Orion
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.332 Main stars visible on chart 105

Table 338: Main stars visible on chart 105

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Betelgeuse	Alp Ori	05h 56m 08.8s	+07° 24' 32"	1,346e-07	5,478e-08	21.91	-	-	152.67	-	Orion
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.333 Main stars visible on chart 106

Table 339: Main stars visible on chart 106

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Gomeisa	Bet CMi	07h 28m 07.6s	+08° 15' 06"	-2,536e-07	-1,856e-07	22.0	-	-	49.58	-	Canis Minor
Procyon	Alp CMi	07h 40m 14.6s	+05° 10' 39"	-3,479e-06	-5,027e-06	-3.2	-0.0	-	3.51	-	Canis Minor
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Homam	Zet Peg	22h 42m 21.6s	+10° 55' 32"	3,812e-07	-5,517e-08	6.1	-	-	44.44	-	Pegasus
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.334 Main stars visible on chart 107

Table 340: Main stars visible on chart 107

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Acubens	Alp Cnc	08h 59m 28.2s	+11° 47' 13"	2,142e-07	-1,437e-07	-12.1	-0.0	-	57.74	-	Cancer
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Homam	Zet Peg	22h 42m 21.6s	+10° 55' 32"	3,812e-07	-5,517e-08	6.1	-	-	44.44	-	Pegasus
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.335 Main stars visible on chart 108

Table 341: Main stars visible on chart 108

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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Table 341: Main stars visible on chart 108 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Regulus	Alp Leo	10h 09m 19.7s	+11° 52' 43"	-1,233e-06	2,710e-08	5.9	-	-	24.31	-	Leo
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Homam	Zet Peg	22h 42m 21.6s	+10° 55' 32"	3,812e-07	-5,517e-08	6.1	-	-	44.44	-	Pegasus
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindematrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.336 Main stars visible on chart 109

Table 342: Main stars visible on chart 109

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Homam	Zet Peg	22h 42m 21.6s	+10° 55' 32"	3,812e-07	-5,517e-08	6.1	-	-	44.44	-	Pegasus
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindematrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo
Zavijah	Bet Vir	11h 51m 38.0s	+01° 39' 48"	3,590e-06	-1,311e-06	4.71	-	-	10.93	-	Virgo

7.337 Main stars visible on chart 110

Table 343: Main stars visible on chart 110

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus

Table 343: Main stars visible on chart 110 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Homam	Zet Peg	22h 42m 21.6s	+10° 55' 32"	3,812e-07	-5,517e-08	6.1	-	-	44.44	-	Pegasus
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput
Minelauva	Del Vir	12h 56m 30.7s	+03° 17' 60"	-2,283e-06	-2,561e-07	-18.87	-0.0	-	60.83	-	Virgo
Vindemiatrix	Eps Vir	13h 03m 04.4s	+10° 51' 46"	-1,352e-06	9,677e-08	-14.29	-0.0	-	33.60	-	Virgo

7.338 Main stars visible on chart 111

Table 344: Main stars visible on chart 111

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Homam	Zet Peg	22h 42m 21.6s	+10° 55' 32"	3,812e-07	-5,517e-08	6.1	-	-	44.44	-	Pegasus
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput

7.339 Main stars visible on chart 112

Table 345: Main stars visible on chart 112

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Homam	Zet Peg	22h 42m 21.6s	+10° 55' 32"	3,812e-07	-5,517e-08	6.1	-	-	44.44	-	Pegasus
Unukalai	Alp Ser	15h 45m 09.4s	+06° 22' 12"	6,530e-07	2,172e-07	2.63	-	-	22.68	-	Serpens Caput

7.340 Main stars visible on chart 113

Table 346: Main stars visible on chart 113

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alshain	Bet Aql	19h 56m 11.8s	+06° 27' 10"	2,209e-07	-2,336e-06	-40.07	-0.0	-	13.70	-	Aquila
Altair	Alp Aql	19h 51m 39.7s	+08° 55' 01"	2,631e-06	1,868e-06	-26.6	-0.0	-	5.13	-	Aquila
Deneb Okab	Del Aql	19h 26m 24.3s	+03° 09' 07"	1,236e-06	4,000e-07	-34.0	-0.0	-	15.53	-	Aquila
Tarazed	Gam Aql	19h 47m 06.9s	+10° 39' 30"	8,380e-08	-1,445e-08	-2.79	-0.0	-	121.07	-	Aquila
Cebalrai	Bet Oph	17h 44m 21.7s	+04° 33' 40"	-2,016e-07	7,725e-07	-12.53	-0.0	-	25.09	-	Ophiuchus
Enif	Eps Peg	21h 45m 04.2s	+09° 57' 30"	1,325e-07	2,133e-09	3.39	-	-	211.42	-	Pegasus
Homam	Zet Peg	22h 42m 21.6s	+10° 55' 32"	3,812e-07	-5,517e-08	6.1	-	-	44.44	-	Pegasus

7.341 Main stars visible on chart 114

Table 347: Main stars visible on chart 114

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion

7.342 Main stars visible on chart 115

Table 348: Main stars visible on chart 115

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion

Table 348: Main stars visible on chart 115 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Porrina	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo

7.343 Main stars visible on chart 116

Table 349: Main stars visible on chart 116

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrina	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.344 Main stars visible on chart 117

Table 350: Main stars visible on chart 117

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus

Table 350: Main stars visible on chart 117 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.345 Main stars visible on chart 118

Table 351: Main stars visible on chart 118

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.346 Main stars visible on chart 119

Table 352: Main stars visible on chart 119

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus

Table 352: Main stars visible on chart 119 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.347 Main stars visible on chart 120

Table 353: Main stars visible on chart 120

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion

Table 353: Main stars visible on chart 120 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrina	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.348 Main stars visible on chart 121

Table 354: Main stars visible on chart 121

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrina	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.349 Main stars visible on chart 122

Table 355: Main stars visible on chart 122

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus

Table 355: Main stars visible on chart 122 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.350 Main stars visible on chart 123

Table 356: Main stars visible on chart 123

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo

Table 356: Main stars visible on chart 123 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.351 Main stars visible on chart 124

Table 357: Main stars visible on chart 124

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Baten Kaitos	Zet Cet	01h 52m 21.0s	-10° 14' 48"	2,011e-07	-1,806e-07	7.8	-	-	72.05	-	Cetus
Mira Ceti	Omi Cet	02h 20m 15.4s	-02° 53' 48"	4,529e-08	-1,151e-06	63.5	-	-	91.66	-	Cetus
Azha	Eta Eri	02h 57m 18.5s	-08° 49' 39"	3,796e-07	-1,067e-06	-20.32	-0.0	-	41.86	-	Eridanus
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elchemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.352 Main stars visible on chart 125

Table 358: Main stars visible on chart 125

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Rana	Del Eri	03h 44m 06.7s	-09° 42' 13"	-4,583e-07	3,605e-06	-6.28	-0.0	-	9.04	-	Eridanus
Zibal	Zet Eri	03h 16m 42.6s	-08° 45' 14"	-1,717e-09	2,235e-07	-5.8	-0.0	-	33.65	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra

Table 358: Main stars visible on chart 125 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Zuben Elscemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.353 Main stars visible on chart 126

Table 359: Main stars visible on chart 126

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Cursa	Bet Eri	05h 08m 44.2s	-05° 03' 52"	-4,031e-07	-3,655e-07	-6.0	-0.0	-	27.40	-	Eridanus
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elscemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Alnilam	Eps Ori	05h 37m 07.7s	-01° 11' 30"	6,983e-09	-3,782e-09	27.3	-	-	606.06	-	Orion
Alnitak	Zet Ori	05h 41m 40.1s	-01° 56' 04"	1,547e-08	9,842e-09	18.5	-	-	225.73	-	Orion
Hatysa	Iot Ori	05h 36m 18.9s	-05° 53' 58"	6,921e-09	-2,230e-09	27.6	-	-	714.29	-	Orion
Mintaka	Del Ori	05h 32m 55.6s	-00° 17' 14"	3,103e-09	-3,345e-09	18.5	-	-	212.31	-	Orion
Rigel	Bet Ori	05h 15m 24.2s	-08° 10' 55"	6,417e-09	2,424e-09	17.8	-	-	264.55	-	Orion
Saiph	Kap Ori	05h 48m 36.7s	-09° 39' 52"	7,180e-09	-6,206e-09	20.5	-	-	198.41	-	Orion
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.354 Main stars visible on chart 127

Table 360: Main stars visible on chart 127

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrina	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.355 Main stars visible on chart 128

Table 361: Main stars visible on chart 128

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrina	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.356 Main stars visible on chart 129

Table 362: Main stars visible on chart 129

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Alfard	Alp Hya	09h 28m 28.3s	-08° 44' 15"	-7,469e-08	1,666e-07	-4.27	-0.0	-	55.28	-	Hydra
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra

Table 362: Main stars visible on chart 129 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.357 Main stars visible on chart 130

Table 363: Main stars visible on chart 130

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.358 Main stars visible on chart 131

Table 364: Main stars visible on chart 131

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elschemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Porrima	Gam Vir	12h 42m 34.4s	-01° 32' 51"	-2,981e-06	2,974e-07	-20.42	-0.0	-	11.68	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.359 Main stars visible on chart 132

Table 365: Main stars visible on chart 132

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elchemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus
Heze	Zet Vir	13h 35m 36.9s	-00° 41' 15"	-1,360e-06	2,378e-07	-13.2	-0.0	-	22.71	-	Virgo
Spica	Alp Vir	13h 26m 08.6s	-11° 15' 17"	-2,093e-07	-1,487e-07	1.0	-	-	76.57	-	Virgo

7.360 Main stars visible on chart 133

Table 366: Main stars visible on chart 133

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Zuben Elakribi	Del Lib	15h 01m 56.2s	-08° 35' 22"	-3,111e-07	-2,308e-08	-38.7	-0.0	-	90.01	-	Libra
Zuben Elchemali	Bet Lib	15h 17m 58.7s	-09° 26' 54"	-4,821e-07	-9,527e-08	-35.6	-0.0	-	56.75	-	Libra
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus

7.361 Main stars visible on chart 134

Table 367: Main stars visible on chart 134

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius
Yed Posterior	Eps Oph	16h 19m 16.5s	-04° 44' 06"	4,057e-07	1,967e-07	-9.18	-0.0	-	32.64	-	Ophiuchus
Yed Prior	Del Oph	16h 15m 17.4s	-03° 44' 22"	-2,310e-07	-6,920e-07	-19.27	-0.0	-	52.47	-	Ophiuchus

7.362 Main stars visible on chart 135

Table 368: Main stars visible on chart 135

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sadalmelik	Alp Aqr	22h 06m 42.5s	-00° 13' 54"	8,848e-08	-4,552e-08	6.85	-	-	160.51	-	Aquarius
Sadalsuud	Bet Aqr	21h 32m 30.3s	-05° 29' 28"	9,143e-08	-3,980e-08	6.28	-	-	164.74	-	Aquarius

7.363 Main stars visible on chart 136

Table 369: Main stars visible on chart 136

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus

7.364 Main stars visible on chart 137

Table 370: Main stars visible on chart 137

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus

7.365 Main stars visible on chart 138

Table 371: Main stars visible on chart 138

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus

Table 371: Main stars visible on chart 138 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus

7.366 Main stars visible on chart 139

Table 372: Main stars visible on chart 139

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus

7.367 Main stars visible on chart 140

Table 373: Main stars visible on chart 140

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus
Zuben genubi	El-Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra

7.368 Main stars visible on chart 141

Table 374: Main stars visible on chart 141

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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Table 374: Main stars visible on chart 141 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El-Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.369 Main stars visible on chart 142

Table 375: Main stars visible on chart 142

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El-Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.370 Main stars visible on chart 143

Table 376: Main stars visible on chart 143

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major

Table 376: Main stars visible on chart 143 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El-Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.371 Main stars visible on chart 144

Table 377: Main stars visible on chart 144

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Diphda	Bet Cet	00h 44m 29.5s	-17° 53' 17"	1,185e-06	1,551e-07	13.32	-	-	29.53	-	Cetus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El-Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.372 Main stars visible on chart 145

Table 378: Main stars visible on chart 145

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus

Table 378: Main stars visible on chart 145 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.373 Main stars visible on chart 146

Table 379: Main stars visible on chart 146

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Zaurak	Gam Eri	03h 58m 52.2s	-13° 27' 30"	3,070e-07	-5,484e-07	60.81	-	-	62.34	-	Eridanus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.374 Main stars visible on chart 147

Table 380: Main stars visible on chart 147

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Arneb	Alp Lep	05h 33m 31.5s	-17° 48' 38"	1,813e-08	5,721e-09	25.1	-	-	680.27	-	Lepus

Table 380: Main stars visible on chart 147 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Nihal	Bet Lep	05h 29m 01.0s	-20° 44' 46"	-2,603e-08	-4,170e-07	-14.2	-0.0	-	49.16	-	Lepus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.375 Main stars visible on chart 148

Table 381: Main stars visible on chart 148

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Mirzam	Bet CMa	06h 23m 29.6s	-17° 57' 58"	-1,646e-08	-3,782e-09	33.7	-	-	151.06	-	Canis Major
Muliphein	Gam CMa	07h 04m 34.4s	-15° 39' 40"	-7,048e-10	-5,507e-08	32.0	-	-	135.50	-	Canis Major
Sirius	Alp CMa	06h 45m 56.5s	-16° 44' 31"	-2,764e-06	-5,930e-06	-5.5	-0.0	-	2.64	-	Canis Major
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Deneb Algiedi	Del Cap	21h 48m 01.9s	-16° 02' 41"	1,321e-06	-1,438e-06	-3.4	-0.0	-	11.87	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.376 Main stars visible on chart 149

Table 382: Main stars visible on chart 149

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Skat	Del Aqr	22h 55m 36.2s	-15° 43' 29"	-2,147e-07	-1,352e-07	17.4	-	-	49.24	-	Aquarius
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Deneb Algiedi	Del Cap	21h 48m 01.9s	-16° 02' 41"	1,321e-06	-1,438e-06	-3.4	-0.0	-	11.87	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra

Table 382: Main stars visible on chart 149 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.377 Main stars visible on chart 150

Table 383: Main stars visible on chart 150

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Skat	Del Aqr	22h 55m 36.2s	-15° 43' 29"	-2,147e-07	-1,352e-07	17.4	-	-	49.24	-	Aquarius
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Deneb Algiedi	Del Cap	21h 48m 01.9s	-16° 02' 41"	1,321e-06	-1,438e-06	-3.4	-0.0	-	11.87	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.378 Main stars visible on chart 151

Table 384: Main stars visible on chart 151

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Skat	Del Aqr	22h 55m 36.2s	-15° 43' 29"	-2,147e-07	-1,352e-07	17.4	-	-	49.24	-	Aquarius
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Deneb Algiedi	Del Cap	21h 48m 01.9s	-16° 02' 41"	1,321e-06	-1,438e-06	-3.4	-0.0	-	11.87	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.379 Main stars visible on chart 152

Table 385: Main stars visible on chart 152

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Skat	Del Aqr	22h 55m 36.2s	-15° 43' 29"	-2,147e-07	-1,352e-07	17.4	-	-	49.24	-	Aquarius
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Deneb Algiedi	Del Cap	21h 48m 01.9s	-16° 02' 41"	1,321e-06	-1,438e-06	-3.4	-0.0	-	11.87	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.380 Main stars visible on chart 153

Table 386: Main stars visible on chart 153

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Skat	Del Aqr	22h 55m 36.2s	-15° 43' 29"	-2,147e-07	-1,352e-07	17.4	-	-	49.24	-	Aquarius
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Deneb Algiedi	Del Cap	21h 48m 01.9s	-16° 02' 41"	1,321e-06	-1,438e-06	-3.4	-0.0	-	11.87	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra
Zuben genubi	El- Alp1 Lib	14h 51m 41.1s	-16° 04' 16"	-6,873e-07	-2,862e-07	-23.47	-0.0	-	22.98	-	Libra
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.381 Main stars visible on chart 154

Table 387: Main stars visible on chart 154

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Skat	Del Aqr	22h 55m 36.2s	-15° 43' 29"	-2,147e-07	-1,352e-07	17.4	-	-	49.24	-	Aquarius
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Deneb Algiedi	Del Cap	21h 48m 01.9s	-16° 02' 41"	1,321e-06	-1,438e-06	-3.4	-0.0	-	11.87	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Zuben Elakrab	Gam Lib	15h 36m 32.2s	-14° 50' 54"	3,276e-07	3,612e-08	-26.71	-0.0	-	50.03	-	Libra

Table 387: Main stars visible on chart 154 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus
Acrab	Bet1 Sco	16h 06m 29.2s	-19° 51' 12"	-2,680e-08	-1,165e-07	-1.0	-0.0	-	123.92	-	Scorpius
Dschubba	Del Sco	16h 01m 24.1s	-22° 40' 18"	-5,363e-08	-1,717e-07	-6.0	-0.0	-	150.60	-	Scorpius

7.382 Main stars visible on chart 155

Table 388: Main stars visible on chart 155

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Skat	Del Aqr	22h 55m 36.2s	-15° 43' 29"	-2,147e-07	-1,352e-07	17.4	-	-	49.24	-	Aquarius
Algiedi	Alp1 Cap	20h 18m 38.6s	-12° 27' 05"	1,141e-07	6,206e-09	-25.79	-0.0	-	174.52	-	Capricornus
Dabih	Bet1 Cap	20h 22m 01.2s	-14° 43' 24"	2,252e-07	3,578e-08	-19.0	-0.0	-	100.20	-	Capricornus
Deneb Algiedi	Del Cap	21h 48m 01.9s	-16° 02' 41"	1,321e-06	-1,438e-06	-3.4	-0.0	-	11.87	-	Capricornus
Nashira	Gam Cap	21h 41m 05.1s	-16° 34' 49"	9,492e-07	-1,088e-07	-31.2	-0.0	-	48.15	-	Capricornus
Sabik	Eta Oph	17h 11m 24.7s	-15° 44' 45"	2,021e-07	4,808e-07	-2.4	-0.0	-	27.09	-	Ophiuchus

7.383 Main stars visible on chart 156

Table 389: Main stars visible on chart 156

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis

7.384 Main stars visible on chart 157

Table 390: Main stars visible on chart 157

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major

Table 390: Main stars visible on chart 157 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis

7.385 Main stars visible on chart 158

Table 391: Main stars visible on chart 158

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis

7.386 Main stars visible on chart 159

Table 392: Main stars visible on chart 159

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis

7.387 Main stars visible on chart 160

Table 393: Main stars visible on chart 160

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis

7.388 Main stars visible on chart 161

Table 394: Main stars visible on chart 161

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis

7.389 Main stars visible on chart 162

Table 395: Main stars visible on chart 162

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.390 Main stars visible on chart 163

Table 396: Main stars visible on chart 163

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.391 Main stars visible on chart 164

Table 397: Main stars visible on chart 164

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.392 Main stars visible on chart 165

Table 398: Main stars visible on chart 165

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis

Table 398: Main stars visible on chart 165 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.393 Main stars visible on chart 166

Table 399: Main stars visible on chart 166

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.394 Main stars visible on chart 167

Table 400: Main stars visible on chart 167

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Phact	Alp Col	05h 40m 18.1s	-34° 03' 56"	9,248e-09	-1,203e-07	35.0	-	-	80.13	-	Columba
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.395 Main stars visible on chart 168

Table 401: Main stars visible on chart 168

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Adara	Eps CMa	06h 59m 20.0s	-28° 59' 51"	1,795e-08	6,448e-09	27.3	-	-	124.22	-	Canis Major
Aludra	Eta CMa	07h 24m 48.4s	-29° 20' 21"	-2,302e-08	2,817e-08	41.1	-	-	609.76	-	Canis Major
Furud	Zet CMa	06h 21m 00.3s	-30° 04' 21"	4,100e-08	1,954e-08	32.2	-	-	111.11	-	Canis Major
Wezen	Del CMa	07h 09m 07.4s	-26° 25' 22"	-1,689e-08	1,605e-08	33.67	-	-	492.61	-	Canis Major
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.396 Main stars visible on chart 169

Table 402: Main stars visible on chart 169

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Fomalhaut	Alp PsA	22h 58m 38.5s	-29° 31' 35"	1,835e-06	-7,983e-07	6.5	-	-	7.70	-	Piscis Austrinus
Azmidiske	7490069 (Xi Pup)	07h 50m 03.1s	-24° 54' 21"	-2,982e-08	-3,394e-09	2.0	3.3	G0	413.22	-	Puppis
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.397 Main stars visible on chart 170

Table 403: Main stars visible on chart 170

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Fomalhaut	Alp PsA	22h 58m 38.5s	-29° 31' 35"	1,835e-06	-7,983e-07	6.5	-	-	7.70	-	Piscis Austrinus
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.398 Main stars visible on chart 171

Table 404: Main stars visible on chart 171

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alchiba	Alp Crv	12h 09m 20.7s	-24° 49' 45"	5,312e-07	-1,900e-07	2.8	-	-	14.94	-	Corvus
Fomalhaut	Alp PsA	22h 58m 38.5s	-29° 31' 35"	1,835e-06	-7,983e-07	6.5	-	-	7.70	-	Piscis Austrinus
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.399 Main stars visible on chart 172

Table 405: Main stars visible on chart 172

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Fomalhaut	Alp PsA	22h 58m 38.5s	-29° 31' 35"	1,835e-06	-7,983e-07	6.5	-	-	7.70	-	Piscis Austrinus
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.400 Main stars visible on chart 173

Table 406: Main stars visible on chart 173

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Fomalhaut	Alp PsA	22h 58m 38.5s	-29° 31' 35"	1,835e-06	-7,983e-07	6.5	-	-	7.70	-	Piscis Austrinus
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.401 Main stars visible on chart 174

Table 407: Main stars visible on chart 174

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Fomalhaut	Alp PsA	22h 58m 38.5s	-29° 31' 35"	1,835e-06	-7,983e-07	6.5	-	-	7.70	-	Piscis Austrinus
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius
Antares	Alp Sco	16h 30m 30.8s	-26° 28' 14"	-6,556e-08	-1,130e-07	-3.5	-0.0	-	169.78	-	Scorpius

7.402 Main stars visible on chart 175

Table 408: Main stars visible on chart 175

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Fomalhaut	Alp PsA	22h 58m 38.5s	-29° 31' 35"	1,835e-06	-7,983e-07	6.5	-	-	7.70	-	Piscis Austrinus
Kaus Australis	Eps Sgr	18h 25m 22.0s	-34° 22' 28"	-2,316e-07	-6,021e-07	-15.0	-0.0	-	43.94	-	Sagittarius
Nunki	Sig Sgr	18h 56m 22.8s	-26° 16' 22"	8,187e-08	-2,590e-07	-11.2	-0.0	-	69.83	-	Sagittarius

7.403 Main stars visible on chart 176

Table 409: Main stars visible on chart 176

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Ankaa	Alp Phe	00h 27m 10.2s	-42° 12' 30"	1,528e-06	-1,727e-06	74.6	-	-	25.97	-	Phoenix
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.404 Main stars visible on chart 177

Table 410: Main stars visible on chart 177

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Ankaa	Alp Phe	00h 27m 10.2s	-42° 12' 30"	1,528e-06	-1,727e-06	74.6	-	-	25.97	-	Phoenix
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.405 Main stars visible on chart 178

Table 411: Main stars visible on chart 178

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Ankaa	Alp Phe	00h 27m 10.2s	-42° 12' 30"	1,528e-06	-1,727e-06	74.6	-	-	25.97	-	Phoenix
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.406 Main stars visible on chart 179

Table 412: Main stars visible on chart 179

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Ankaa	Alp Phe	00h 27m 10.2s	-42° 12' 30"	1,528e-06	-1,727e-06	74.6	-	-	25.97	-	Phoenix
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.407 Main stars visible on chart 180

Table 413: Main stars visible on chart 180

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Ankaa	Alp Phe	00h 27m 10.2s	-42° 12' 30"	1,528e-06	-1,727e-06	74.6	-	-	25.97	-	Phoenix
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.408 Main stars visible on chart 181

Table 414: Main stars visible on chart 181

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Ankaa	Alp Phe	00h 27m 10.2s	-42° 12' 30"	1,528e-06	-1,727e-06	74.6	-	-	25.97	-	Phoenix
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.409 Main stars visible on chart 182

Table 415: Main stars visible on chart 182

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Ankaa	Alp Phe	00h 27m 10.2s	-42° 12' 30"	1,528e-06	-1,727e-06	74.6	-	-	25.97	-	Phoenix
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.410 Main stars visible on chart 183

Table 416: Main stars visible on chart 183

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Ankaa	Alp Phe	00h 27m 10.2s	-42° 12' 30"	1,528e-06	-1,727e-06	74.6	-	-	25.97	-	Phoenix
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.411 Main stars visible on chart 184

Table 417: Main stars visible on chart 184

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Acamar	The1 Eri	02h 58m 56.7s	-40° 14' 00"	-2,835e-07	9,211e-08	11.9	-	-	29.76	-	Eridanus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.412 Main stars visible on chart 185

Table 418: Main stars visible on chart 185

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.413 Main stars visible on chart 186

Table 419: Main stars visible on chart 186

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.414 Main stars visible on chart 187

Table 420: Main stars visible on chart 187

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Alnair	Alp Gru	22h 09m 21.6s	-46° 52' 23"	8,999e-07	-7,150e-07	10.9	-	-	30.97	-	Grus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.415 Main stars visible on chart 188

Table 421: Main stars visible on chart 188

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Alnair	Alp Gru	22h 09m 21.6s	-46° 52' 23"	8,999e-07	-7,150e-07	10.9	-	-	30.97	-	Grus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius
Suhail	Lam Vel	09h 08m 39.5s	-43° 30' 21"	-1,603e-07	6,555e-08	17.6	-	-	166.94	-	Vela

7.416 Main stars visible on chart 189

Table 422: Main stars visible on chart 189

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Alnair	Alp Gru	22h 09m 21.6s	-46° 52' 23"	8,999e-07	-7,150e-07	10.9	-	-	30.97	-	Grus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius

7.417 Main stars visible on chart 190

Table 423: Main stars visible on chart 190

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Alnair	Alp Gru	22h 09m 21.6s	-46° 52' 23"	8,999e-07	-7,150e-07	10.9	-	-	30.97	-	Grus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius

Table 423: Main stars visible on chart 190 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius

7.418 Main stars visible on chart 191

Table 424: Main stars visible on chart 191

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Menkent	The Cen	14h 07m 44.9s	-36° 27' 28"	-3,134e-06	-2,512e-06	1.3	-	-	18.03	-	Centaurus
Alnair	Alp Gru	22h 09m 21.6s	-46° 52' 23"	8,999e-07	-7,150e-07	10.9	-	-	30.97	-	Grus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius

7.419 Main stars visible on chart 192

Table 425: Main stars visible on chart 192

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alnair	Alp Gru	22h 09m 21.6s	-46° 52' 23"	8,999e-07	-7,150e-07	10.9	-	-	30.97	-	Grus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius

7.420 Main stars visible on chart 193

Table 426: Main stars visible on chart 193

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Alnair	Alp Gru	22h 09m 21.6s	-46° 52' 23"	8,999e-07	-7,150e-07	10.9	-	-	30.97	-	Grus
Rucbat	Alp Sgr	19h 25m 07.8s	-40° 34' 49"	1,947e-07	-5,779e-07	-0.7	-0.0	-	55.74	-	Sagittarius
Shaula	Lam Sco	17h 34m 49.9s	-37° 06' 55"	-5,185e-08	-1,493e-07	-3.0	-0.0	-	175.13	-	Scorpius

7.421 Main stars visible on chart 194

Table 427: Main stars visible on chart 194

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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Table 427: Main stars visible on chart 194 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina
Achernar	Alp Eri	01h 38m 22.9s	-57° 08' 45"	7,794e-07	-1,854e-07	18.6	-	-	42.75	-	Eridanus

7.422 Main stars visible on chart 195

Table 428: Main stars visible on chart 195

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Achernar	Alp Eri	01h 38m 22.9s	-57° 08' 45"	7,794e-07	-1,854e-07	18.6	-	-	42.75	-	Eridanus

7.423 Main stars visible on chart 196

Table 429: Main stars visible on chart 196

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Achernar	Alp Eri	01h 38m 22.9s	-57° 08' 45"	7,794e-07	-1,854e-07	18.6	-	-	42.75	-	Eridanus

7.424 Main stars visible on chart 197

Table 430: Main stars visible on chart 197

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Achernar	Alp Eri	01h 38m 22.9s	-57° 08' 45"	7,794e-07	-1,854e-07	18.6	-	-	42.75	-	Eridanus

7.425 Main stars visible on chart 198

Table 431: Main stars visible on chart 198

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Achernar	Alp Eri	01h 38m 22.9s	-57° 08' 45"	7,794e-07	-1,854e-07	18.6	-	-	42.75	-	Eridanus

7.426 Main stars visible on chart 199

Table 432: Main stars visible on chart 199

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Achernar	Alp Eri	01h 38m 22.9s	-57° 08' 45"	7,794e-07	-1,854e-07	18.6	-	-	42.75	-	Eridanus

7.427 Main stars visible on chart 200

Table 433: Main stars visible on chart 200

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Achernar	Alp Eri	01h 38m 22.9s	-57° 08' 45"	7,794e-07	-1,854e-07	18.6	-	-	42.75	-	Eridanus

7.428 Main stars visible on chart 201

Table 434: Main stars visible on chart 201

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina

Table 434: Main stars visible on chart 201 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Peacock	Alp Pav	20h 27m 03.6s	-56° 40' 33"	6,099e-08	-4,170e-07	2.0	-	-	54.82	-	Pavo

7.429 Main stars visible on chart 202

Table 435: Main stars visible on chart 202

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Canopus	Alp Car	06h 24m 21.1s	-52° 42' 22"	1,594e-07	1,127e-07	20.3	-	-	94.79	-	Carina
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Peacock	Alp Pav	20h 27m 03.6s	-56° 40' 33"	6,099e-08	-4,170e-07	2.0	-	-	54.82	-	Pavo

7.430 Main stars visible on chart 203

Table 436: Main stars visible on chart 203

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Avior	Eps Car	08h 22m 52.9s	-59° 34' 04"	-2,438e-07	1,069e-07	11.6	-	-	185.53	-	Carina
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Peacock	Alp Pav	20h 27m 03.6s	-56° 40' 33"	6,099e-08	-4,170e-07	2.0	-	-	54.82	-	Pavo

7.431 Main stars visible on chart 204

Table 437: Main stars visible on chart 204

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Peacock	Alp Pav	20h 27m 03.6s	-56° 40' 33"	6,099e-08	-4,170e-07	2.0	-	-	54.82	-	Pavo

7.432 Main stars visible on chart 205

Table 438: Main stars visible on chart 205

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Gacrux	Gam Cru	12h 32m 10.5s	-57° 12' 50"	2,521e-07	-1,285e-06	21.0	-	-	27.15	-	Crux
Mimosa	Bet Cru	12h 48m 47.1s	-59° 47' 13"	-4,128e-07	-7,844e-08	10.3	-	-	85.40	-	Crux
Peacock	Alp Pav	20h 27m 03.6s	-56° 40' 33"	6,099e-08	-4,170e-07	2.0	-	-	54.82	-	Pavo

7.433 Main stars visible on chart 206

Table 439: Main stars visible on chart 206

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Peacock	Alp Pav	20h 27m 03.6s	-56° 40' 33"	6,099e-08	-4,170e-07	2.0	-	-	54.82	-	Pavo

7.434 Main stars visible on chart 207

Table 440: Main stars visible on chart 207

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Peacock	Alp Pav	20h 27m 03.6s	-56° 40' 33"	6,099e-08	-4,170e-07	2.0	-	-	54.82	-	Pavo

7.435 Main stars visible on chart 208

Table 441: Main stars visible on chart 208

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Miaplacidus	Bet Car	09h 13m 23.4s	-69° 47' 29"	-2,188e-06	5,282e-07	-5.1	-0.0	-	34.70	-	Carina

7.436 Main stars visible on chart 209

Table 442: Main stars visible on chart 209

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Miaplacidus	Bet Car	09h 13m 23.4s	-69° 47' 29"	-2,188e-06	5,282e-07	-5.1	-0.0	-	34.70	-	Carina
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux

7.437 Main stars visible on chart 210

Table 443: Main stars visible on chart 210

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Miaplacidus	Bet Car	09h 13m 23.4s	-69° 47' 29"	-2,188e-06	5,282e-07	-5.1	-0.0	-	34.70	-	Carina
Agena	Bet Cen	14h 05m 06.6s	-60° 27' 32"	-3,263e-07	-1,123e-07	5.9	-	-	120.19	-	Centaurus
Toliman	Alp1 Cen	14h 40m 50.6s	-60° 54' 30"	-3,660e-05	2,296e-06	-21.4	-0.0	-	1.32	-	Centaurus
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux

7.438 Main stars visible on chart 211

Table 444: Main stars visible on chart 211

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Miaplacidus	Bet Car	09h 13m 23.4s	-69° 47' 29"	-2,188e-06	5,282e-07	-5.1	-0.0	-	34.70	-	Carina
Agena	Bet Cen	14h 05m 06.6s	-60° 27' 32"	-3,263e-07	-1,123e-07	5.9	-	-	120.19	-	Centaurus
Toliman	Alp1 Cen	14h 40m 50.6s	-60° 54' 30"	-3,660e-05	2,296e-06	-21.4	-0.0	-	1.32	-	Centaurus
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Atria	Alp TrA	16h 50m 35.2s	-69° 03' 29"	2,437e-07	-1,531e-07	-3.0	-0.0	-	119.76	-	Triangulum Australe

7.439 Main stars visible on chart 212

Table 445: Main stars visible on chart 212

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Miaplacidus	Bet Car	09h 13m 23.4s	-69° 47' 29"	-2,188e-06	5,282e-07	-5.1	-0.0	-	34.70	-	Carina
Agena	Bet Cen	14h 05m 06.6s	-60° 27' 32"	-3,263e-07	-1,123e-07	5.9	-	-	120.19	-	Centaurus
Toliman	Alp1 Cen	14h 40m 50.6s	-60° 54' 30"	-3,660e-05	2,296e-06	-21.4	-0.0	-	1.32	-	Centaurus
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Atria	Alp TrA	16h 50m 35.2s	-69° 03' 29"	2,437e-07	-1,531e-07	-3.0	-0.0	-	119.76	-	Triangulum Australe

7.440 Main stars visible on chart 213

Table 446: Main stars visible on chart 213

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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Table 446: Main stars visible on chart 213 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Miaplacidus	Bet Car	09h 13m 23.4s	-69° 47' 29"	-2,188e-06	5,282e-07	-5.1	-0.0	-	34.70	-	Carina
Agena	Bet Cen	14h 05m 06.6s	-60° 27' 32"	-3,263e-07	-1,123e-07	5.9	-	-	120.19	-	Centaurus
Toliman	Alp1 Cen	14h 40m 50.6s	-60° 54' 30"	-3,660e-05	2,296e-06	-21.4	-0.0	-	1.32	-	Centaurus
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Atria	Alp TrA	16h 50m 35.2s	-69° 03' 29"	2,437e-07	-1,531e-07	-3.0	-0.0	-	119.76	-	Triangulum Australe

7.441 Main stars visible on chart 214

Table 447: Main stars visible on chart 214

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Miaplacidus	Bet Car	09h 13m 23.4s	-69° 47' 29"	-2,188e-06	5,282e-07	-5.1	-0.0	-	34.70	-	Carina
Agena	Bet Cen	14h 05m 06.6s	-60° 27' 32"	-3,263e-07	-1,123e-07	5.9	-	-	120.19	-	Centaurus
Toliman	Alp1 Cen	14h 40m 50.6s	-60° 54' 30"	-3,660e-05	2,296e-06	-21.4	-0.0	-	1.32	-	Centaurus
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Atria	Alp TrA	16h 50m 35.2s	-69° 03' 29"	2,437e-07	-1,531e-07	-3.0	-0.0	-	119.76	-	Triangulum Australe

7.442 Main stars visible on chart 215

Table 448: Main stars visible on chart 215

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Miaplacidus	Bet Car	09h 13m 23.4s	-69° 47' 29"	-2,188e-06	5,282e-07	-5.1	-0.0	-	34.70	-	Carina
Agena	Bet Cen	14h 05m 06.6s	-60° 27' 32"	-3,263e-07	-1,123e-07	5.9	-	-	120.19	-	Centaurus
Toliman	Alp1 Cen	14h 40m 50.6s	-60° 54' 30"	-3,660e-05	2,296e-06	-21.4	-0.0	-	1.32	-	Centaurus
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Atria	Alp TrA	16h 50m 35.2s	-69° 03' 29"	2,437e-07	-1,531e-07	-3.0	-0.0	-	119.76	-	Triangulum Australe

7.443 Main stars visible on chart 216

Table 449: Main stars visible on chart 216

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Agena	Bet Cen	14h 05m 06.6s	-60° 27' 32"	-3,263e-07	-1,123e-07	5.9	-	-	120.19	-	Centaurus

Table 449: Main stars visible on chart 216 (continuation)

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Toliman	Alp1 Cen	14h 40m 50.6s	-60° 54' 30"	-3,660e-05	2,296e-06	-21.4	-0.0	-	1.32	-	Centaurus
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Acrux	Alp1 Cru	12h 27m 36.8s	-63° 11' 55"	-3,793e-07	-7,127e-08	-11.2	-	-	1000.00	-	Crux
Atria	Alp TrA	16h 50m 35.2s	-69° 03' 29"	2,437e-07	-1,531e-07	-3.0	-0.0	-	119.76	-	Triangulum Australe

7.444 Main stars visible on chart 217

Table 450: Main stars visible on chart 217

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
Atria	Alp TrA	16h 50m 35.2s	-69° 03' 29"	2,437e-07	-1,531e-07	-3.0	-0.0	-	119.76	-	Triangulum Australe

7.445 Main stars visible on chart 218

Table 451: Main stars visible on chart 218

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.446 Main stars visible on chart 219

Table 452: Main stars visible on chart 219

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.447 Main stars visible on chart 220

Table 453: Main stars visible on chart 220

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.448 Main stars visible on chart 221

Table 454: Main stars visible on chart 221

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.449 Main stars visible on chart 222

Table 455: Main stars visible on chart 222

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.450 Main stars visible on chart 223

Table 456: Main stars visible on chart 223

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.451 Main stars visible on chart 224

Table 457: Main stars visible on chart 224

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.452 Main stars visible on chart 225

Table 458: Main stars visible on chart 225

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.453 Main stars visible on chart 226

Table 459: Main stars visible on chart 226

Name	Other Names	Right ascension	Declination	dRA(rad/yr)	dDEC(rad/yr)	dVr (km/s)	Mag.	Spectral type	Dist. (pc)	Variable	Constellation
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7.454 Novae and Supernovae

Table 460: Novae and Supernovae

Name	Type	Right ascension	Declination	Magnitude	Date of observation	Constellation	Chart
SN2015 aj	SUPERNOVA	06h 30m 23.9s	+74° 17' 48"	18.3	Sep 2	Camelopardalis	4
SN2015 aj	SUPERNOVA	06h 30m 23.9s	+74° 17' 48"	18.3	Sep 2	Camelopardalis	5
SN2015 ai	SUPERNOVA	13h 48m 39.8s	+61° 43' 54"	16.3	Jul 2	Ursa Major	16
SN2015 G	SUPERNOVA	20h 37m 38.9s	+66° 11' 00"	15.5	Mar 23	Cepheus	18
SN2015 G	SUPERNOVA	20h 37m 38.9s	+66° 11' 00"	15.5	Mar 23	Cepheus	19
SN2015 bk	SUPERNOVA	07h 05m 01.3s	+58° 11' 22"	20.6	Dec 31	Lynx	24
SN2015 bl	SUPERNOVA	09h 01m 10.8s	+53° 11' 39"	20.0	Dec 30	Ursa Major	25
SN2015 as	SUPERNOVA	10h 09m 21.0s	+51° 45' 22"	16.0	Nov 15	Ursa Major	26
SN2015 Q	SUPERNOVA	11h 48m 32.3s	+55° 52' 14"	16.0	Jun 17	Ursa Major	27
SN2015 ba	SUPERNOVA	14h 33m 06.9s	+49° 48' 51"	16.7	Nov 28	Bootes	28
SN2015 ba	SUPERNOVA	14h 33m 06.9s	+49° 48' 51"	16.7	Nov 28	Bootes	29
SN2015 af	SUPERNOVA	19h 28m 01.9s	+54° 24' 49"	18.4	Aug 9	Cygnus	31
SN2015 af	SUPERNOVA	19h 28m 01.9s	+54° 24' 49"	18.4	Aug 9	Cygnus	32
SN2015 az	SUPERNOVA	03h 10m 53.3s	+41° 02' 33"	17.6	Nov 30	Perseus	36
SN2015 az	SUPERNOVA	03h 10m 53.3s	+41° 02' 33"	17.6	Nov 30	Perseus	37
SN2015 A	SUPERNOVA	09h 42m 20.8s	+35° 48' 20"	16.6	Jan 9	Leo Minor	41
SN2015 bb	SUPERNOVA	14h 52m 19.1s	+40° 31' 28"	17.0	Nov 16	Bootes	45
SN2015 V	SUPERNOVA	17h 50m 04.9s	+36° 08' 20"	15.9	Apr 4	Hercules	47
SN2015 N	SUPERNOVA	21h 43m 59.4s	+43° 39' 46"	17.6	Jul 6	Cygnus	50
SN2015 ag	SUPERNOVA	00h 43m 19.8s	+29° 44' 36"	19.1	Aug 6	Andromeda	52
SN2015 K	SUPERNOVA	23h 36m 46.5s	+23° 42' 51"	16.3	Apr 25	Pegasus	52
SN2015 ac	SUPERNOVA	23h 17m 35.7s	+34° 05' 42"	16.8	Jul 28	Pegasus	52
SN2015 ae	SUPERNOVA	23h 48m 00.8s	+29° 35' 08"	17.3	Aug 6	Pegasus	52
SN2015 ag	SUPERNOVA	00h 43m 19.8s	+29° 44' 36"	19.1	Aug 6	Andromeda	53
SN2015 ar	SUPERNOVA	01h 08m 20.2s	+32° 29' 45"	18.8	Nov 11	Pisces	53
SN2015 bg	SUPERNOVA	02h 48m 41.1s	+34° 59' 02"	17.8	Dec 16	Perseus	54
SN2015 am	SUPERNOVA	02h 10m 13.3s	+32° 04' 56"	18.7	Aug 13	Triangulum	54
SN2015 I	SUPERNOVA	07h 18m 50.8s	+23° 18' 40"	15.7	May 2	Gemini	58
SN2015 U	SUPERNOVA	07h 30m 04.1s	+33° 46' 53"	16.4	Feb 13	Gemini	58
SN2015 X	SUPERNOVA	07h 17m 51.0s	+29° 49' 23"	17.2	Feb 13	Gemini	58
SN2015 Y	SUPERNOVA	09h 03m 41.4s	+25° 51' 46"	17.9	Apr 11	Cancer	59
SN2015 Y	SUPERNOVA	09h 03m 41.4s	+25° 51' 46"	17.9	Apr 11	Cancer	60
SN2015 A	SUPERNOVA	09h 42m 20.8s	+35° 48' 20"	16.6	Jan 9	Leo Minor	60
SN2015 aq	SUPERNOVA	09h 26m 50.1s	+34° 11' 53"	15.6	Sep 21	Leo Minor	60
SN2015 bh	SUPERNOVA	09h 10m 40.9s	+33° 02' 54"	19.1	Feb 7	Lynx	60
SN2015 M	SUPERNOVA	13h 01m 24.3s	+27° 52' 53"	17.2	May 13	Coma Berenices	63
SN2015 aa	SUPERNOVA	13h 13m 44.9s	+28° 42' 13"	20.6	May 19	Coma Berenices	63
SN2015 bi	SUPERNOVA	14h 33m 03.3s	+26° 14' 48"	16.6	Dec 31	Bootes	64
SN2015 V	SUPERNOVA	17h 50m 04.9s	+36° 08' 20"	15.9	Apr 4	Hercules	67
SN2015 ac	SUPERNOVA	23h 17m 35.7s	+34° 05' 42"	16.8	Jul 28	Pegasus	71
SN2015 K	SUPERNOVA	23h 36m 46.5s	+23° 42' 51"	16.3	Apr 25	Pegasus	72
SN2015 bf	SUPERNOVA	23h 25m 43.4s	+15° 22' 49"	17.3	Dec 12	Pegasus	72
SN2015 ax	SUPERNOVA	01h 19m 13.1s	+15° 11' 38"	17.2	Oct 30	Pisces	73
SN2015 ay	SUPERNOVA	01h 10m 43.8s	+13° 24' 13"	16.8	Oct 3	Pisces	73
SN2015 ab	SUPERNOVA	02h 29m 33.6s	+20° 21' 55"	17.3	Jul 10	Aries	74
SN2015 ad	SUPERNOVA	02h 49m 41.8s	+14° 23' 12"	16.9	Jul 29	Aries	74

Table 460: Novae and Supernovae (continuation)

Name	Type	Right ascension	Declination	Magnitude	Date of observation	Constellation	Chart
SN2015 I	SUPERNOVA	07h 18m 50.8s	+23° 18' 40"	15.7	May 2	Gemini	78
SN2015 W	SUPERNOVA	06h 58m 44.0s	+13° 33' 15"	16.8	Jan 12	Gemini	78
SN2015 bm	SUPERNOVA	12h 08m 55.1s	+19° 38' 26"	16.9	Dec 28	Coma Berenices	82
SN2015 D	SUPERNOVA	13h 13m 34.8s	+12° 30' 19"	17.5	Jan 18	Virgo	83
SN2015 Z	SUPERNOVA	15h 05m 32.2s	+12° 33' 34"	17.5	Jun 16	Bootes	85
SN2015 O	SUPERNOVA	18h 14m 38.9s	+13° 14' 38"	18.3	Jun 22	Ophiuchus	87
N Aql 2015	NOVA	19h 22m 39.4s	+15° 11' 32"	14.7	2015-06-05 13:09:07	Aquila	88
SN2015 bf	SUPERNOVA	23h 25m 43.4s	+15° 22' 49"	17.3	Dec 12	Pegasus	91
SN2015 ap	SUPERNOVA	02h 06m 10.0s	+06° 11' 16"	17.3	Sep 8	Pisces	94
SN2015 E	SUPERNOVA	03h 14m 30.8s	+00° 19' 02"	17.0	Jan 13	Cetus	95
SN2015 bc	SUPERNOVA	05h 23m 55.2s	-00° 07' 20"	18.1	Dec 2	Orion	97
SN2015 bn	SUPERNOVA	11h 34m 36.9s	+00° 37' 35"	19.9	Feb 15	Leo	103
SN2015 D	SUPERNOVA	13h 13m 34.8s	+12° 30' 19"	17.5	Jan 18	Virgo	104
SN2015 at	SUPERNOVA	13h 35m 36.9s	+09° 14' 49"	16.6	Jul 11	Virgo	104
SN2015 R	SUPERNOVA	13h 45m 28.1s	+04° 41' 30"	17.8	Apr 9	Virgo	105
SN2015 at	SUPERNOVA	13h 35m 36.9s	+09° 14' 49"	16.6	Jul 11	Virgo	105
SN2015 Z	SUPERNOVA	15h 05m 32.2s	+12° 33' 34"	17.5	Jun 16	Bootes	106
SN2015 ah	SUPERNOVA	23h 01m 19.8s	+01° 43' 26"	15.9	Aug 6	Pisces	113
SN2015 E	SUPERNOVA	03h 14m 30.8s	+00° 19' 02"	17.0	Jan 13	Cetus	117
SN2015 bc	SUPERNOVA	05h 23m 55.2s	-00° 07' 20"	18.1	Dec 2	Orion	119
SN2015 be	SUPERNOVA	05h 14m 57.2s	-10° 36' 19"	18.0	Dec 6	Orion	119
SN2015 bd	SUPERNOVA	11h 24m 41.2s	-01° 12' 18"	15.9	Dec 7	Leo	124
SN2015 bd	SUPERNOVA	11h 24m 41.2s	-01° 12' 18"	15.9	Dec 7	Leo	125
SN2015 bn	SUPERNOVA	11h 34m 36.9s	+00° 37' 35"	19.9	Feb 15	Leo	125
SN2015 B	SUPERNOVA	12h 55m 32.2s	-12° 40' 09"	15.0	Jan 5	Corvus	126
SN2015 P	SUPERNOVA	12h 51m 27.1s	-10° 58' 32"	18.2	Jun 7	Virgo	126
N Sct 2016?	NOVA	18h 26m 29.3s	-09° 46' 51"	13.4	2016-06-07 06:28:48	Scutum	131
SN2015 an	SUPERNOVA	08h 25m 03.8s	-18° 50' 01"	15.2	Sep 13	Puppis	143
SN2015 H	SUPERNOVA	10h 55m 34.9s	-21° 10' 00"	16.9	Feb 10	Hydra	145
SN2015 B	SUPERNOVA	12h 55m 32.2s	-12° 40' 09"	15.0	Jan 5	Corvus	147
SN2015 C	SUPERNOVA	13h 19m 27.9s	-14° 42' 24"	16.4	Jan 7	Virgo	147
N Oph 2015/1	NOVA	17h 30m 17.0s	-18° 46' 59"	11.9	2015-06-29 18:23:02	Ophiuchus	151
N Oph 2015/2	NOVA	17h 35m 53.8s	-24° 09' 43"	11.7	2015-06-11 09:54:35	Ophiuchus	151
N Sgr 2015/4	NOVA	18h 24m 03.0s	-19° 13' 35"	11.3	2015-07-01 09:01:26	Sagittarius	151
N Sct 2017?	NOVA	18h 32m 47.3s	-14° 18' 05"	8.5	2017-06-19 09:50:24	Scutum	151
N Sct 2017?	NOVA	18h 32m 47.3s	-14° 18' 05"	8.5	2017-06-19 09:50:24	Scutum	152
SN2015 au	SUPERNOVA	22h 31m 57.0s	-13° 54' 22"	17.7	Nov 10	Aquarius	155
SN2015 ao	SUPERNOVA	01h 51m 40.8s	-35° 55' 12"	17.7	Oct 6	Fornax	157
SN2015 ao	SUPERNOVA	01h 51m 40.8s	-35° 55' 12"	17.7	Oct 6	Fornax	158
N Oph 2017/2	NOVA	17h 19m 51.4s	-24° 55' 26"	9.4	2017-06-11 08:57:59	Ophiuchus	170
N Sco 2015	NOVA	17h 04m 37.9s	-35° 05' 45"	8.2	2015-06-11 20:05:17	Scorpius	170
N Sco 2016/2	NOVA	17h 24m 01.6s	-31° 59' 34"	11.6	2016-06-06 11:32:38	Scorpius	170
N Oph 2015/2	NOVA	17h 35m 53.8s	-24° 09' 43"	11.7	2015-06-11 09:54:35	Ophiuchus	171
N Oph 2016	NOVA	17h 36m 59.4s	-29° 35' 01"	10.6	2016-06-11 19:13:26	Ophiuchus	171
N Oph 2017/1	NOVA	17h 40m 52.6s	-24° 58' 26"	13.6	2017-06-08 18:01:35	Ophiuchus	171
N Oph 2017/2	NOVA	17h 19m 51.4s	-24° 55' 26"	9.4	2017-06-11 08:57:59	Ophiuchus	171

Table 460: Novae and Supernovae (continuation)

Name	Type	Right ascension	Declination	Magnitude	Date of observation	Constellation	Chart
N Sgr 2015/1	NOVA	18h 15m 32.2s	-25° 54' 11"	9.5	2015-06-12 20:26:53	Sagittarius	171
N Sgr 2015/2	NOVA	18h 38m 05.3s	-28° 54' 41"	4.6	2015-06-15 15:12:58	Sagittarius	171
N Sgr 2015/3	NOVA	18h 04m 41.0s	-28° 15' 59"	8.7	2015-06-27 10:18:12	Sagittarius	171
N Sgr 2016/1?	NOVA	17h 51m 06.1s	-29° 14' 53"	13.7	2016-06-12 05:02:59	Sagittarius	171
N Sgr 2016/2?	NOVA	18h 02m 15.1s	-26° 31' 39"	10.7	2016-06-08 12:46:05	Sagittarius	171
N Sgr 2016/3?	NOVA	18h 11m 36.1s	-27° 29' 42"	9.8	2016-06-20 09:11:31	Sagittarius	171
N Sgr 2016/4?	NOVA	18h 22m 00.4s	-28° 21' 40"	13.7	2016-06-25 00:28:48	Sagittarius	171
	NOVA	17h 49m 23.5s	-32° 35' 31"	12.7	2015-06-15 00:00:00	Scorpius	171
N Sco 2016/2	NOVA	17h 24m 01.6s	-31° 59' 34"	11.6	2016-06-06 11:32:38	Scorpius	171
N Sco 2016??	NOVA	17h 44m 08.9s	-33° 26' 09"	12.3	2016-06-07 00:00:00	Scorpius	171
N Sgr 2015/2	NOVA	18h 38m 05.3s	-28° 54' 41"	4.6	2015-06-15 15:12:58	Sagittarius	172
SN2015 ao	SUPERNOVA	01h 51m 40.8s	-35° 55' 12"	17.7	Oct 6	Fornax	177
Vel	NOVA	08h 51m 05.4s	-47° 49' 33"	11.3	2017-06-24 09:21:36	Vela	182
Vel	NOVA	08h 51m 05.4s	-47° 49' 33"	11.3	2017-06-24 09:21:36	Vela	183
N Lup 2016	NOVA	15h 30m 16.1s	-44° 53' 20"	5.6	2016-06-24 00:14:24	Lupus	187
N Lup 2016	NOVA	15h 30m 16.1s	-44° 53' 20"	5.6	2016-06-24 00:14:24	Lupus	188
N Sco 2017	NOVA	16h 53m 32.2s	-37° 56' 03"	12.8	2017-06-01 20:41:17	Scorpius	188
N Sco 2015	NOVA	17h 04m 37.9s	-35° 05' 45"	8.2	2015-06-11 20:05:17	Scorpius	189
N Sco 2016/1	NOVA	17h 39m 32.9s	-37° 25' 41"	10.4	2016-06-10 14:57:33	Scorpius	189
N Sco 2017	NOVA	16h 53m 32.2s	-37° 56' 03"	12.8	2017-06-01 20:41:17	Scorpius	189
SN2015 av	SUPERNOVA	20h 30m 50.1s	-43° 46' 48"	17.6	Nov 16	Microscopium	191
SN2015 S	SUPERNOVA	00h 32m 17.5s	-49° 29' 36"	17.1	Jul 22	Phoenix	194
SN2015 aw	SUPERNOVA	02h 07m 01.7s	-51° 56' 20"	15.9	Jul 12	Eridanus	195
Vel	NOVA	08h 51m 05.4s	-47° 49' 33"	11.3	2017-06-24 09:21:36	Vela	199
N Nor 2016?	NOVA	15h 43m 07.2s	-53° 11' 31"	12.4	2016-06-08 08:24:00	Norma	203
SN2015 al	SUPERNOVA	19h 26m 38.4s	-53° 33' 51"	18.5	Aug 10	Telescopium	205
SN2015 T	SUPERNOVA	23h 08m 29.4s	-61° 23' 30"	17.3	Jun 16	Tucana	208
SN2015 F	SUPERNOVA	07h 36m 12.3s	-69° 32' 50"	16.8	Mar 9	Volans	211
SN2015 J	SUPERNOVA	07h 35m 02.7s	-69° 10' 18"	19.3	Apr 27	Volans	211
SN2015 bj	SUPERNOVA	09h 20m 08.0s	-68° 59' 18"	16.6	Nov 23	Carina	212
N Cen 2017?	NOVA	13h 22m 07.7s	-63° 47' 57"	10.9	2017-06-25 01:55:12	Centaurus	213
N Cen 2017?	NOVA	13h 22m 07.7s	-63° 47' 57"	10.9	2017-06-25 01:55:12	Centaurus	214
SN2015 L	SUPERNOVA	22h 03m 32.6s	-61° 34' 20"	17.0	Jun 14	Indus	217
SN2015 ak	SUPERNOVA	22h 16m 38.2s	-65° 27' 29"	16.0	Aug 18	Tucana	217
SN2015 F	SUPERNOVA	07h 36m 12.3s	-69° 32' 50"	16.8	Mar 9	Volans	220