

## Space

### Space

- + ancillary\_variables: Space [0..\*]
- + comment: string [0..1]
- + history: string [0..1]
- + institution: string [0..1]
- + references: string [0..1]
- + source: string [0..1]
- + standard\_error\_multiplier: float [0..1]
- + title: string [0..1]

Name: Proposed CF data model  
 Author: bnl, jmg, dch, dl  
 Version: 0.3  
 Created: 12/04/2011 12:13:00  
 Updated: 29/11/2011 13:52:17

### CellMethods

0..\*

## Grid

### Grid

#### constraints

{The dimensions of the grid are the unique set of the dimensions of all Dimension Coordinates and Auxiliary Coordinates.}  
 {In all the Coordinates associated with the grid, no value of the axis attribute may occur more than once.}  
 {There may be at most one Dimension Coordinate per dimension}

### Transform

- + coordinate: Coordinate [0..\*]
- + name: string
- + scalar: scalar [0..\*]
- + space: Space [0..\*]

0..1

0..1

0..\*

0..\*

0..\*

### CellMeasures

- + measure: string

### DimensionCoordinate

- + axis: char [0..1]
- + bounds: Variable [0..1]
- + calendar: string [0..1]
- + climatology: Variable [0..1]
- + compress: Coordinate [0..\*]
- + leap\_month: int [0..1]
- + leap\_year: int [0..1]
- + month\_lengths: Array [0..1]
- + positive: string [0..1]

#### constraints

{One dimensional or scalar}  
 {Numeric}  
 {Monotonic}

### AuxiliaryCoordinate

- + axis: char [0..1]
- + bounds: Variable [0..1]
- + calendar: string [0..1]
- + climatology: Variable [0..1]
- + leap\_month: int [0..1]
- + leap\_year: int [0..1]
- + month\_lengths: Array [0..1]

### «abstract» Variable

- + data: Array [0..1]
- + dimensions: string [0..\*] {ordered}
- + long\_name: string [0..1]
- + shape: int [0..\*] {ordered}
- + standard\_name: string [0..1]
- + units: string [0..1]