**Proposed domains**

LL = lower left; UR = upper right

***North Central River Forecast Center***

LL: 37 N 106 W

UR: 54 N 81 W

***Alaska Pacific River Forecast Center***

LL: 54 N 169 W

UR: 72 N 129 W

**Cylindrical equidistant**

Here is a sample header from a netCDF3 file containing a cylindrical equidistant projection:

dimensions:

y = 600 ;

x = 1600 ;

variables:

double validTime ;

validTime:units = "Seconds since 1970-1-1 00:00:00.00 0:00" ;

byte image(y, x) ;

image:long\_name = "river\_flooding" ;

image:units = "none" ;

// global attributes:

:depictorName = "something" ;

:projName = "CYLINDRICAL\_EQUIDISTANT" ;

:projIndex = 8 ;

:lat00 = 17.f ;

:lon00 = -131.f ;

:latNxNy = 52.f ;

:lonNxNy = -64.f ;

:centralLat = 0.f ;

:centralLon = -97.5f ;

:latDxDy = 34.7f ;

:lonDxDy = -97.5f ;

:dyKm = 7.f ;

:dxKm = 7.f ;

:rotation = 0.f ;

:xMin = 0.f ;

:xMax = 0.f ;

:yMin = 0.f ;

:yMax = 0.f ;

The header will also need these global attributes to ensure AWIPS II compliance:

:source = "SSEC" ;

:satelliteName = "VIIRS" ;

:channel = "River Flooding" ;

Information necessary for completing the header:

* Grid dimensions (x and y)
* Final corner points (if any slight adjustments)
* Grid spacing at some coordinate internal to grid (spacing need not be symmetric)
  + Latitude, longitude, dx spacing, dy spacing