
Subject: Re: ms2gt .gpd and .mpp file creation
Posted by [katb](#) on Fri, 16 Jul 2010 05:46:14 GMT
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OK so I finally have it all working now so here is a post for others having similar issues with ms2gt reprojection tool for MODIS data!

There were two problems:

1) ms2gt likes to run in tcsh (i was using bash with a few workarounds)

2) the gpd file needs to be fine tuned for your particular area

Map Origin X and Map Origin Y (top left corner of desired projected grid space) is distance in metres from prescribed Map Origin Lat/Long point (-32.7, 146.1) to the desired lat/long coordinates for the top-left corner (in this case i wanted the top-left corner of my reprojection area to be -34.23, 143.51) of the area you wish to reproject data to. So for this case the top left corner of the projected grid is to the west (negative X or left) and to the south (negative Y or down).

for a reprojection grid bound by top-left lat/long of -34.23, 143.51 and bottom-right lat/long -43.89, 151.0 in Lambert Conformal Conic reprojection space the gpd file ended up looking like this

Map Projection: Lambert Conic Conformal Ellipsoid

Map Reference Latitude: -27.5

Map Second Reference Latitude: -35.0

Map Reference Longitude: 146.1

Map Equatorial Radius: 6378137.0

Map Eccentricity: 0.081819190843

Map Origin Latitude: -32.7

Map Origin Longitude: 146.1

Map Origin X: -238500

Map Origin Y: -172500

Grid Map Units per Cell: 500

Grid Width: 1400

Grid Height: 2300

Grid Map Origin Column: -0.5

Grid Map Origin Row: -0.5

use crtest and xytest to test your .gpd file reprojection coordinates and lat/longs prior to running ms2gt.

hope this is useful to someone, somewhere, sometime.

cheers
