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Subject: Re: ms2gt .gpd and .mpp file creation  
Posted by [katb](#) on Tue, 08 Jun 2010 01:03:37 GMT  
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On Jun 7, 10:50 pm, David Fanning <n...@dfanning.com> wrote:

> katb writes:

>> I am hoping someone can help shed some light on this problem. I am  
>> trying to reproject MODIS MOD02HKM 500m hdf data to Lambert Conic  
>> Conformal Ellipsoid projection at 500m resolution using ms2gt. The  
>> tutorials execute fine so my software configuration (links to IDL) are  
>> ok. I am having difficulties preparing .gpd and .mpp files for  
>> Australia as most of the examples are for Greenland or for another  
>> projection. I also believe the errors are related to the number of  
>> columns and rows I have entered for the .gpd files. I have tried  
>> downloading David Fanning's gpd\_viewer however it does not support the  
>> projection I require.

>

>> My gpd file is as follows:

>

>> test.mpp        map projection parameters  
>> Map Projection: Lambert Conic Conformal Ellipsoid  
>> Map Reference Latitude:     -35.0  
>> Map Second Reference Latitude: -40.0  
>> Map Reference Longitude:    140.0  
>> Map Scale: 1  
>> Map Equatorial Radius: 6378.137  
>> Map Eccentricity:    0.081819190843  
>> Grid Map Units per Cell: 0.50  
>> Grid Width: 2200  
>> Grid Height: 1700  
>> Grid Map Origin Column: 1099.5  
>> Grid Map Origin Row: 849.5

>

>> My .mpp file is as follows:

>> Lambert Conic Conformal Ellipsoid  
>> -36.5  147.0  lat0 lon0  
>> 0.0        rotation  
>> 0.50       scale (km/pixel)  
>> -36.5  147.0  center lat lon  
>> -35.0  144.0  lat min max  
>> -38.0  150.0  lon min max  
>> 1753 760     grid  
>> 0.00  00.00  label lat lon  
>> 1 0 0        cil bdy riv

>

>> The error I receive when I execute ms2gt for two adjacent hdf files in  
>> the listfile.txt is as follows:

>

>> fornav: ReadImage: error reading tester\_cols\_02708\_00406\_00000\_20.img  
>  
> Sigh... These GPD files always confuse me. I think there are  
> only two or three people in the world who understand them.  
> Fortunately, they work with me, so I can check later.  
>  
> But that said, I would make a couple of changes here. You  
> don't need an mpp file here, so you can eliminate that  
> complication. And I would express your distances in meters  
> (this may be a personal preference). But I would try a GPD  
> file like this:  
>  
> Map Projection: Lambert Conic Conformal Ellipsoid  
> Map Reference Latitude: -35.0  
> Map Second Reference Latitude: -40.0  
> Map Reference Longitude: 140.0  
> Map Equatorial Radius: 6378137.0  
> Map Eccentricity: 0.081819190843  
> Map Origin Latitude: -27.0  
> Map Origin Longitude: 140.0  
> Map Origin X: -550000  
> Map Origin Y: 425000  
> Grid Map Units per Cell: 500  
> Grid Width: 2200  
> Grid Height: 1700  
> Grid Map Origin Column: -0.5  
> Grid Map Origin Row: -0.5  
>  
> Cheers,  
>  
> David  
>  
> --  
> David Fanning, Ph.D.  
> Fanning Software Consulting, Inc.  
> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>  
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thanks Klemen - I thought ms2gt would be easier as i haven't had a great deal of idl experience! If I can't get this going soon I will probably resort to idl directly.

Thanks for your input David - I will try your suggestion, I know you are quite knowledgeable in this area so just quickly do you have any suggestions for determining the number of rows and number of columns required for the resulting grid? I have been following ms2gt tutorials and I find 'gtest' confusing.

Thanks again.  
Kat

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