Subject: Re: ms2gt MODIS reprojection toolkit
Posted by lbusett@yahoo.it on Wed, 28 Apr 2010 08:25:41 GMT
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On 27 Apr, 11:43, Maarten <maarten.sn...@knmi.nl> wrote:
> Hi Folks,
>
> I'm trying to set up the 'modis swath to grid toolkit' reprojection
> software [1]. With some other background documents [2, 3], I think I
> have the tools set up correctly (the verification in [1] passes), but
> it seems I can't get the thing to run properly. Oh, in case you're
> wondering why I post in this group: the code is a collision of IDL,
> Perl and C, with more folks over here with knowledge of map
> projections than in the Perl and C newsgroups.
>
> I'd like to reproject to a Cylindrical Equidistant grid (yes, I've
> read [3]), for later use with other satellite data (OMI/Aura most
> likely). The trouble with MODIS is that it is just too much data, and
> I always found plotting it too hard to bother. However, with the
> recent eruption of Eyjafjallajökull we felt the need to combine MODIS/
> Aqua (RGB, aerosol) with OMI/Aura (aerosol, SO2). So, here I am,
> trying to get ms2gt to run, to have at least one of the instruments on
> an easy to visualize grid.
>
> The Cylindrical Equidistant map projection is one of the supported
> projections according to the documentation, however, no matter how
> hard I try, I always get a message that Cylindrical Equidistant is not
> supported (followed by a list of supported projections which,
> annoyingly, includes Cylindrical Equidistant).
>
> * Can someone supply me with a working set of configuration files to
> start with MODIS 1KM data (so the 250 and 500 m channels are
> aggregated into 1 km bins) and end up with a Cylindrical Equidistand
> grid?
>
> * If someone has a suggestion on how to do this with reasonable
> accuracy within IDL alone, then I'm all ears.
>
> So, with that last question I even managed to get back to the main
> subject of the newsgroup...
>
> Best,
>
> Maarten
>
> [1]http://nsidc.org/data/modis/ms2gt/
> [2]http://geospatialmethods.org/documents/ppgc.html
> [3]http://nsidc.org/data/psq/grids/ece_grids.html~

Hi Marteen,

for reprojecting SWATH MODIS data you may also consider to use the MODIS Reprojection Tool Swath software (https://lpdaac.usgs.gov/lpdaac/tools/modis_reprojection_tool_swath).
I used it to process MODIS raw radiance data and I found it very easy to use. It can easily be called from an IDL application with a simple SPAWN command.
The supported output projections do not include the cylindrical equidistant, but I think that the equirectangular projection (which is instead available) should be equivalent to it.

Hope it helps,

Lorenzo
