Subject: Re: Gridded MODIS lat/lon array
Posted by David Fanning on Thu, 27 Mar 2014 13:13:26 GMT
View Forum Message <> Reply to Message

ddt88 writes:

> Hello David, I'm working with a large number of files so I want to avoid having to convert each hdf to geotiff for processing efficiency. I'm quite confused with the geotiff info and can't understand how I could extract the same information from the metadata of HDF files.

The information to navigate the image is in the metadata of the HDF file. You are given the projection information (Sinusodial with spherical datum) and the projected XY meter locations of the upper left point and the lower right point of the image. Then, you are told the dimensions of the image (4800x4800 in my case). This is everything you need to know to navigate the image. For example, for the MOD09GQ image I have here, I set the map coordinate object up like this:

```
IDL> map =cgmap('sinusoidal', ellipsoid=9, $
       xrange=[6671703.118000d, 7783653.637667d], $
       yrange=[3335851.559000d, 4447802.078667d], $
       position=[0,0,1,1])
IDL> cgDisplay, 800, 800
IDL> cgImage, image, Stretch=2
IDL> cgMap_Grid, /Label, /cgGrid, Color='goldenrod', Map=map
```

I'm not sure why you think you need to make a GeoTiff file out of it for "processing efficiency".

I read the information out of the file with NCDF_Browser. But, I'm sure it is possible to read the metadata out of the file directly, too.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: http://www.idlcoyote.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")