
Subject: Re: map MODIS HDF data to Mercator conformal projection

Posted by [K. Bowman](#) on Mon, 09 May 2005 17:04:23 GMT

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In article <1115656061.013044.326330@f14g2000cwb.googlegroups.com>, zhangyw3982@sina.com wrote:

> I am a primary learner of IDL. Now I want to use the IDL to reproject
> the HDF data to Mercator conformal projection. I can use the IDL read
> it and TVSCL it, but I can't map it. I try to use the map_set and
> map_image. But I can't do it. I have the question? If the IDL can do
> what I hope? If it can, can you give me some help or some good ideas? I
> use the Windows system, I have take the MRT(modis reprojection tool)and
> MRTSwath. And I also try the MS2GT, all of the tools can give me most
> help. But I only want to use the IDL to it, can I? Thanks a lot

It is very difficult to tell from the documentation, but MAP_IMAGE is designed to plot data that is on a regular longitude-latitude grid. If you are trying to plot swath (scan) data, you will need to use a different approach.

The simplest is to call MAP_SET and then use PLOTS to plot each satellite field of view (fov). You need to know the longitude and latitude of every fov. Set the display color for each fov with the COLOR keyword of PLOTS. If you need a larger plotting marker than PSYM = 3 provides, see the USERSYM procedure.

Ken Bowman
