Subject: Re: map: integerized sinusoidal Posted by David Fanning on Tue, 17 Feb 2009 20:59:13 GMT View Forum Message <> Reply to Message

## Roman writes:

- > After trying out for several days to map (hundreds of) MODIS MOD14A2
- > products in IDL, I hope someone can help me here! I went through
- > older comments on that but I really don't know where is my mistake!
- > The dataset and the boundaries of the continents/coast lines dont fitt
- > to each other. In the upper right corner yes but than it gets worse to
- > the lower right corner!

>

- Thank you in advance for any help cheers Roman
- Datasets are HDF files, 1200 x 1200 rows/columns, resoultion 1 km in
- > integerized sinusoidal projection.

Humm. Well, you seem surprised by this result, but nowhere in your code do you set up an integerized sinusoidal projection. You appear to be using a cylindrical projection. I'm pretty sure that if the data is in one projection, and the overlays are in another, that the chances of good alignment are pretty poor, indeed. :-)

IDL does have an integerized sinusoidal projection, but you will have to use MAP\_PROJ\_INIT to set it up, and you will have to pass the map structure created by MAP PROJ INIT to Map Continents and Map Grid, so they will be able to draw on the map. I've never used this projection, but it has a number of 131. I am not sure it will be available in your version of IDL. It may have been added \*after\* IDL 5.6.

Your code will look something like this:

```
window, xsize=800, ysize=800
position = [0.1, 0.1, 0.9, 0.9]
mapStruct = Map Proj Init(131, ...)
TVScale, image, Position=position, /KEEP
Plot, mapStruct.uv box[[0,2]], mapStruct.uv box[[1,3]], $
 Pos=position, /NODATA, /NOERASE
Map_Continents, MAP_STRUCTURE=mapStruct
Map_Grid, MAP_STRUCTURE=mapStruct
```

Cheers.

David

David Fanning, Ph.D. Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")