
Subject: Re: map_proj_* help

Posted by [David Fanning](#) on Fri, 12 Jun 2009 15:47:38 GMT

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David Fanning writes:

> OK, I guess I am giving up on this as a lost cause. I
> have tried enough variations now that I am absolutely
> convinced it is NOT possible to navigate this image
> with the information provided. The numbers don't make
> sense.

I can get closer if I navigate the GeoTiff image you
can download from the same place, but I still can't
line my grid up with the illustration on the web page:

```
.*****  
,  
file = 'G:\data\pine_2009084_1545_modis_ch02.tif'  
image = Read_Tiff(file, Geo=geotag)  
image = ByteScl(Reverse(image,2))  
  
; Display map in window.  
pos = [0.1, 0.1, 0.9, 0.9]  
TVImage, image, POSITION=pos, /KEEP_ASPECT, /NOINTERP, /ERASE  
  
; Set up Map Projection. Polar Stereographic, WGS-84 Datum.  
map = Map_Proj_Init(106, DATUM=8, CENTER_LAT=-90, CENTER_LON=-70)  
  
s = Size(image, /Dimensions)  
  
xscale = geotag.ModelPixelScaleTag[0]  
yscale = geotag.ModelPixelScaleTag[1]  
tp      = geotag.ModelTiePointTag[3:4]  
  
xOrigin = tp[0]  
yOrigin = tp[1] - (yscale * s[1])  
xEnd = xOrigin + (xscale * s[0])  
yEnd = tp[1]  
  
Plot, [xorigin, xend], [yorigin, yend], $  
      XStyle=5, YStyle=5, /NoData, POSITION=pos, /NOERASE  
  
; Draw map grids.  
Map_Grid, MAP_STRUCTURE=map, LONDEL=5, LATDEL=1, $  
      LATLAB=-105, LONLAB=-72, /LABEL  
END  
.*****  
,
```

I do notice in the output from listgeo that there is the following tag in the file:

ProjStraightVertPoleLongGeoKey (Double 1): -100

I wonder if this has something to do with the problem. If so, there is nothing I can do about it in IDL. :-(

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
