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Subject: Re: map\_proj\_\* help

Posted by [David Fanning](#) on Fri, 12 Jun 2009 19:32:39 GMT

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David Fanning writes:

> I've come to the tentative conclusion that it is NOT  
> possible to navigate this image with IDL map projections.  
> I do note that ENVI (which uses its own map projection  
> software) \*is\* able to navigate the image correctly.  
>  
> This is MOST disconcerting. But not, unfortunately,  
> all that surprising to me. I could still be wrong  
> (I \*hope\* I am), but the current seems to be running  
> in the other direction. :-(

Oh, never mind. I figured it out. :-(

Here you go. The good news is I probably got another  
web page article out of it. :-)

```
.*****  
,  
file = 'G:\data\pine_2009084_1545_modis_ch02.tif'  
image = Read_Tiff(file, Geo=geotag)  
image = BytScl(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=-70, CENTER_LON=-100)  
  
; Set the limits of the image.  
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]  
  
; Set up the map coordinate space.  
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=-110, LONLAB=-75, /LABEL  
*****  
,
```

Didn't I tell you we would probably have it whipped by Friday!  
This is pretty much how map projections go. At least for me.

Cheers,

David

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David Fanning, Ph.D.

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

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

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