
Subject: Re: Plot and Plots

Posted by [David Fanning](#) on Thu, 31 Jan 2008 19:27:35 GMT

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pb24 writes:

> I am trying to produce a graphic showing continent outlines,
> coastlines etc, with a graticule and the footprint of a satellite
> image. I can do all this by using MAP_SET, and then I use PLOTS to
> plot a vector of the image coordinates. Using MAP_SET however, I can
> only specify a STEREOGRAPHIC projection, when I want a POLAR
> STEREOGRAPHIC projection.
>
> To get a POLAR STEREOGRAPHIC projection I need to use MAP_PROJ_INIT
> and then PLOT to display the graticule. However when I do this I cant
> seem to get PLOTS to display the image footprint. I have converted my
> image footprint coordinates from lat./long. to cartesian using
> MAP_PROJ_FORWARD, but using PLOTS just doesnt work. Any ideas from
> anyone would be gratefully received. Is it not possible to use PLOT
> and PLOTS together??

I suspect the problem is the way you are using PLOT to set
up your UV data coordinate space. The code will look something
like this:

```
polar = Map_Proj_Init(1, CENTER_LAT=90, CENTER_LON=0)
uvgraticule = Map_Proj_Forward(graticule, MAP_STRUCTURE=polar)
uv_box = polar.uv_box
Plot, uv_box[[0, 2]], uv_box[[1, 3]], Position=[0.1,0.1,0.9,0.9], $
    /Nodata, XStyle=5, YStyle=5, /NoErase
Oplot, uvgraticule ; Or MAP_grid, MAP_STRUCT=polar, /LABEL, etc.
```

Cheers,

David

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Coyote's Guide to IDL Programming (www.dfanning.com)

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