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Subject: Re: Plot and Plots

Posted by [David Fanning](#) on Thu, 31 Jan 2008 22:22:34 GMT

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pb24 writes:

> I have no trouble displaying the graticule and the continents using  
> MAP\_GRID, and MAP\_CONTINENTS. The problem is that once I have these  
> displayed, I'd like to plot the satellite image footprint on top by  
> taking the four image corner coordinates and using PLOTS. I have done  
> this using PLOTS when used in combination with MAP\_SET (and with a  
> stereographic projection), but I want ideally, to have a \*polar  
> stereographic\* projection (they are not the same sadly - map  
> projections!!). That is why I am having to use MAP\_PROJ\_INIT with 106  
> projection number a GCTP type. Hope that makes my initial post a  
> little clearer.

Yeah, sorry, I should have used 106 in my example,  
but after consulting with the map projection experts  
around here, we are at a loss as to how a polar stereographic  
projection is any different from a stereographic  
projection, centered on a pole. :-)

If you were successful plotting your image footprint  
using MAP\_SET, I would guess the values are in lat/lon  
space. If you want to do the same thing with a GCTP  
projection (and you \*always\* do, forget you ever heard  
about MAP\_SET, is my advice), you will need to transform  
the image values into UV space (with MAP\_PROJ\_FORWARD) and  
set up the UV coordinate space as I explained in the  
previous post.

Cheers,

David

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Coyote's Guide to IDL Programming ([www.dfanning.com](http://www.dfanning.com))

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

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