
Subject: Re: Inverse Map Projection Help
Posted by [Paul Levine](#) on Sun, 24 Feb 2008 19:54:48 GMT
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On 2008-02-22 09:48:38 -0800, mankoff <mankoff@gmail.com> said:

```
>>  
>>> Polar Stereographic projection with 71=B0S as the latitude of true scale  
>>> and 0=B0E as the central meridian.  
>  
>  
> ;; this is the projection the data is distributed on  
> stereo = map_proj_init('Polar Stereographic', /GCTP, DATUM=8, $  
>          CENTER_LONGITUDE=0, CENTER_LATITUDE=-90)
```

You must change the CENTER_LATITUDE to -71

Polar stereographic projections are free of areal distortion at only one latitude, with areal distortion increasing both north and south of this latitude. In the case of your data, that latitude is 71 south. FWIW, the northern-hemisphere sea ice data distributed by the NSIDC is centered at 70 north.

HTH,
Paul
