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Subject: Re: GridData Conundrum

Posted by [David Fanning](#) on Mon, 19 Apr 2010 14:03:05 GMT

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Klemen writes:

> Hi David, I have no problems with GRIDDATA; take a look at the code.  
> The only problem I had was the triangulate function - you might have  
> problems with collinear points on the poles if you don't remove  
> them).

Ah, ha! Thanks, Klemen.

This is similar to what I had originally done, but I couldn't overcome that darn collinear points problem. Eventually, I made triangles from the original data XY and that "worked", so I thought that must be right. It never occurred to me that the pole points could be the problem.

Just one correction to your code. You set up a polar stereographic map projection like this:

```
map=map_proj_init(106, DATUM=8, /GCTP, center_lon=-45., center_lat=90.)
```

This is incorrect. In the polar stereographic projection (only!!) the CENTER\_LAT keyword is actually the TRUE\_SCALE\_LATITUDE keyword. (This is being fixed, thank goodness, in IDL 8.0, since \*everyone\* makes this mistake.)

[http://www.dfanning.com/map\\_tips/polarstereo.html](http://www.dfanning.com/map_tips/polarstereo.html)

The projection should really be set up like this:

```
map=map_proj_init(106, DATUM=8, /GCTP, center_lon=-45., center_lat=70.)
```

I'm really grateful for your help. :-)

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.")

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