
Subject: Map Projection Clarification

Posted by [morganlsilverman](#) on Tue, 18 Feb 2014 20:42:25 GMT

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Hello,

I'm trying to set up a map projection using

```
mapCoord = Obj_New('cgMap', 'Lambert Conformal Conic', Ellipsoid='WGS 84', /GCTP,  
limit=limit, $
```

```
position=plotPosition, center_latitude=38.5, center_longitude=-77.5, STANDARD_PAR1=40,  
STANDARD_PAR2=-39). I honestly am just following examples I've seen but don't understand  
what each piece means and can't for the life of me find answers anywhere. At the moment I'm just  
getting a white screen when using mapCoord compared to cgMap_set. I'm creating a filled  
contour plot of lat/lon data.
```

Is there a list of different ellipsoid options to use? I see people use 24, 19, etc but I can't find what those correspond to. I know I need to use the same ellipsoid as what the data I have was created with, but I don't know how to relate that to options in IDL. Also, is there a list somewhere of GCTP map projections use in IDL? Lastly, what are standard_par1 and standard_par2. I know they're some sort of defined parallels but I don't know how to choose what those are? Could someone please explain those settings to me.

Thank you,

Sincerely,
Morgan
