

---

Subject: Re: Function Graphics Map Projection Woes  
Posted by [David Fanning](#) on Mon, 19 Sep 2011 15:43:28 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

David Fanning writes:

```
> I have *COMPLETELY* regularly spaced longitude and latitude
> vectors.
>
> IDL> help, lon,lat
> LON      DOUBLE  = Array[96]
> LAT      DOUBLE  = Array[73]
>
> IDL> print, lon
>     0.00000000   3.7500000   7.5000000   11.250000
> 15.000000   18.750000   22.500000   26.250000
> 30.00000...
> IDL> print, lat
>     90.000000   87.500000   85.000000   82.500000
> 80.000000   77.500000   75.000000   72.500000
> 70.00000 ...
>
> I try to display this image in a map projection like this:
>
> imgObj = Image(tnmin, lon, lat, limit=[-90,-180,90, 180], $
>                 grid_units=2, map_projection='Cylindrical')
>
> And I get this error:
>
> % IMAGE: X and Y parameters must be evenly spaced
>
> What the @*%$!
```

OK, that error message sucks! What it means is that  
the vectors have to go from small values to large  
values. Sheesh!

This code \*finally\* give me what I want:

```
imgObj = Image(tnmin, lon, Reverse(lat), limit=[-90,0,90,360], $
               grid_units=2, map_projection='Cylindrical')
```

Cheers,

David

--  
David Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>  
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

---