
Subject: mapping data & grid (MAP_SET MAP_GRID)
Posted by [Kenneth Mankoff](#) on Wed, 02 Feb 2000 08:00:00 GMT
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Hi all,

i'm making global images, with grids, according to the following instructions:

1. draw the globe on the screen so that the _geomagnetic_ pole is centered.
2. draw the grids according to the _geographic_ poles.

The code i use is the following:

```
;;; data is a 2d array, sorted on latitude and longitude.  
;;; the geomagnetic pole in the north is at (82, -90), for 1999.  
MAP_SET, 82, -90, /ortho  
img = MAP_PATCH(data, xstart=xx, ystart=yy, lon0=lon0, lon1=lon1)  
TV, img, xx, yy  
MAP_GRID    ;;; <--- ERROR!!
```

This map_grid puts the grid centered on the pole of the data. The pole i want to center it on is different, due to the different coordinate systems.

A new map_set to change the coordinates will not work, because the map_grid erases the screen after a map_set

I have tried plotting to the Z-buffer, reading it, and re-displaying it to X, but TV does not have a NO_ERASE keyword as far as i can tell, so the data part of the image gets erased again.

thanks,
-ken
