
Subject: [Q] map_grid and rotated maps
Posted by [marq](#) on Wed, 19 Jun 1996 07:00:00 GMT
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Hi,

I ran into the following problem with map_grid (with IDL 4.0.1b on Linux):

```
map_set, 50., 0., /stereo, /iso, /grid, /cont
```

works as expected (by me), producing a north polar stereographic projection with the Greenwich meridian centered, continent outlines and a grid with meridians every 45 degrees. BUT using

```
map_set, 90., 30., /stereo, /iso, /grid, /cont
```

creates a correctly rotated map with the 30E meridian pointing downwards, but the grid has not been rotated. Thus, continent outlines are plotted correctly, but not the grid lines.

For a stereographic projection, the rot parameter is a possible workaround;

```
map_set, 90., 0., 30., /stereo, /iso, /cont, /grid
```

produces what I need.

When using the orthographic projection, however, I'm somewhat lost:

```
map_set, 50., 0., /ortho, /iso, /cont, /grid
```

generates the desired view of the globe from above the Greenwich meridian.

```
map_set, 50., 30., /ortho, /iso, /cont, /grid
```

generates the same but centered above 30E; with correct continents, but an unrotated longitude/latitude grid. Obviously, the rot parameter does not help here, as it rotates (roughly) the earth's axis. Worse, the latitudes do not coincide with 'reasonable' ones (like the equator).

Does anyone know of a possible workaround? Might there even be a routine available to draw specified longitude and latitude lines based on the current map projection?

Thank you very much,

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draw specified longitudes / latitudes
