
Subject: Plotting data on orthographic globe projection
Posted by [Sir Loin Steak](#) on Tue, 28 Feb 2012 21:32:53 GMT
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Hi all

I have some data in a (72,36) array, corresponding to 72 longitudes and 36 latitudes. I am wanting to plot them onto a globe, and so have used IDLs `map_set` and `contour` routines. However, depending upon which angle I choose to view the image, there are problems with the filling of the contours.

As an example, see the four images at <http://www.physics.open.ac.uk/~lsteale/globe.png>. I have plotted the exact same data in each image, the only difference being I changed the value of 'loncentre' in the plotting routine below:

```
;-----  
lat = findgen(36)*180/35-90  
lon = findgen(72)*360/71-180  
latcentre=30  
loncentre=-70  
angle=0  
map_set,latcentre,loncentre,angle,/orthographic,/isotropic  
loadct, 13  
contour,reverse(vapour(*,*,250),2),lon,lat,/overplot,  
levels=findgen(30), /fill  
map_grid, latdel=5, londel=5, glinestyle=0, glinethick=0.5  
;-----
```

Has anyone used these routines and experienced the same problem? Or can anyone suggest any other routines that produce something similar? I'm stumped!

Many thanks,

Liam
