
Subject: Re: matchup of Map_set & contour

Posted by [David Fanning](#) on Wed, 03 Sep 2003 14:43:38 GMT

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Son writes:

- > I want to overlap contour lines on a map.
- > However, I think it doesn't match exactly (I checked the gridlines)..
- > especially, as it goes to the edge..
- > Could someone know how to fix it?

Well, I think you want to call CONTOUR *after* you do your MAP_SET. This will require you to use the OVERPLOT keyword. And on map projections you MUST use the CELL_FILL keyword on the CONTOUR command, rather than the FILL keyword. I think the code should look more like this:

```
;-----
lon = FINDGEN(91)
lat = FINDGEN(115)
x = 17.0 + lon*(1/6.0)
y = 23.0 + lat*(1/6.0)

seed=1L
temp = sin(x)^2 * cos(x)
z = DIST(91,115)

LOADCT, 39

WINDOW,1,TITLE='WORLD MAP',xsize=800,ysize=900

MAP_SET, /CYLINDRICAL, LIMIT=[23.0,17.0,42.0,32.0], /CONTINENTS $
, /HIRES, Mlinethick=1., position=[0.1,0.1,0.9,0.9] $
, /Noerase,, /ISOTROPIC
CONTOUR, z, x, y, /Follow, NLevels=20, XStyle=1, $
YStyle=1, /NoErase, /CELL_FILL, /OVERPLOT
MAP_CONTINENTS, /HIRES,color=255, /FILL_CONTINENTS, /CYLINDRICAL
MAP_CONTINENTS, /COAST, color=0, /HIRES, /CYLINDRICAL
MAP_GRID, charsize=1.25, color=100, latdel=2, lonel=2, $
/BOX_axes, GLineStyle=2
```

That seems to look correct (more or less) to me. :-)

Cheers,

David

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