
Subject: plot

Posted by [collier](#) on Fri, 10 Jan 1997 08:00:00 GMT

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Hi there,

IDL is new to me. Recently I tried to generate a filled contour plot with labels on southern hemisphere by using `map_set` and `contour` (I am using `idl` v4.0.1 on a `sgi` workstation) such as the following. By default without `c_colors`, `idl` will fill the areas with less grid values by darker grey colors, with larger values lighter. But `idl` doesn't fill all the hemisphere leaving many parts of area white. This is confusing and misleading, since white filling (actually some of them not filled at all) means large grid values. I also tried by specifying `c_colors` to all contours (see below) but to no avail. For the same data, by using NCAR graphics one can produce a very good smoothly, continously shaded, labeled contours on the hemisphere.

Can anybody tell me how to do this by `idl`? (I like using `idl`, because it has good mathematical and statistical functions).

If I change `/fill` into `/cell_fill` in the fillowing code as suggested by the User's Guide P19-14, there will be no filling at all, why?

The max. `Nlevels` is 29. is there a way of increasing this?

```
; use Polar Stereographic Projection
!P.FONT=0
map_set, -90,0,0, /stereo,limit=[-90,-180,0,180],title=tit
; contour, dats,los,las,nlevels=25,c_charsize=1.0,/overplot,/fill
contour, dats,los,las,nlevels=25,c_charsize=1.0,/overplot,/fill, $
c_colors=[7*255,240,210,180,150,120,90,12*60]
contour, dats,los,las,nlevels=25,c_charsize=1.0,/follow,/overplot
map_continents, mlinethick=2
map_grid, latdel=30,londel=30,glinethick=2,lonlab=0
```

I will be very grateful if someone can help me on these questions.
Thanks in advance.

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