Subject: Re: Make the plots invisible
Posted by David Fanning on Thu, 15 Nov 2012 14:43:21 GMT
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Alain writes:

> You should have read more carefully and executed the code
> I sent previously. It is pretty close of what you want.
> A slightly modified version follows:

OK, close. I think this is nearly what we want, except
for those extraneous labels. Here is a picture of
the final output:

http://www.idlcoyote.com/misc/fg_map_final.png

> The trick is to draw the map first, then to overplot the
> filled and line contours.

Yes, I would have probably discovered this trick for
myself, had I spent another 8-10 hours on the problem!
I certainly wouldn't have discovered it in the
documentation.

Thanks for your help!

David

```
;*****************************************************
PRO FG_Map_Contour

  restore, 'air.nc.data.sav'
  nlevels = 12
  xrange = [Min(lon), Max(lon)]
  yrange = [Min(lat), Max(lat)]
  center_lon = (xrange[1]-xrange[0])/2.0 + xrange[0]
  nlevels = 12
  levels = cgConLevels(Float(data), NLevels=nlevels+1, $
      MinValue=Floor(Min(data)), STEP=step, Factor=1)
  mylat = 40.6  ; Latitude of Fort Collins, Colorado.
  mylon = 254.9 ; Longitude of Fort Collins, Colorado.

  cgLoadCT, 2, /Reverse, /Brewer, NColors=nlevels, RGB_Table=rgb
  rgb[11,*] = [255, 255, 255]

  win = WINDOW(WINDOW_TITLE = 'Function Graphics', $
    dimensions = [700, 600])
```

```
  win.Refresh, /Disable

mp = map('Equirectangular', CENTER_LONGITUDE=180, $
  POSITION=[0.1,0.1,0.90,0.80], $
  LABEL_POSITION = 0, BOX_AXES=1, $
  GRID_LATITUDE = 30, GRID_LONGITUDE = 45, $
  /CURRENT, ASPECT_RATIO=0)
mp['Longitudes'].LABEL_ANGLE = 90

cn = contour(data, lon, lat, /OVERPLOT, $
  GRID_UNITS=2, MAP_PROJECTION='Equirectangular', $
  RGB_TABLE=rgb, /CURRENT, RGB_INDICES=Indgen(nlevels), $
  C_VALUE=levels, /FILL)

cn1 = contour(data, lon, lat, /OVERPLOT, $
  GRID_UNITS=2, MAP_PROJECTION='Equirectangular', $
  RGB_TABLE=rgb, /CURRENT, $
  C_VALUE=levels, C_COLOR=!Color.White)

  c = MapContinents(Color=cgColor('tomato', /Triple, /Row))

  cb = Colorbar(Tickname=levels, RGB_TABLE=rgb, Range=[Min(levels), $
    Max(levels)], $
    Major=11, /Border_On, Title='Temperature $\deg$K', $
    Position=[0.1, 0.88, 0.9, 0.93], Minor=0, TAPER=3)

  s = Symbol(mylon, mylat, /Data, /Current, 'Star', $
     /Sym_Filled, Sym_Color='red')

  win.Refresh
END
;*****************************************************
```

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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thue. ("Perhaps thou speakest truth.")