
Subject: IDL 5.2.1 -- bug in filled contours?

Posted by [Bob Yantosca](#) on Tue, 26 Oct 1999 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi all,

I've noticed a potential bug in IDL 5.2.1 when you try to overplot filled contours atop a map. Basically, what happens is that you get a small square of color that covers a tiny square centered on Lat=0, Lon=0, instead of covering the entire map area.

See below for a test program I've devised to illustrate the error. The first plot (with regular color contours) comes out fine. When you use the /FILL keyword then you run into this bug. (I tried /CELL_FILL too, but that didn't make any difference).

Per Martin Schultz's suggestion, I tried resetting the Y-axis indices so that the poles were -89.9 and +89.9 (instead of -90 and +90), but on my system (SGI-IRIX), that didn't help at all.

Any suggestions?

Thanks much,

Bob Yantosca
bmy@io.harvard.edu

```
-----
pro Test_Contour
  loadct, 27                ; EOS-B Colortable
  !P.MULTI = [0, 1, 2, 0, 0] ; 2 plots per page
  TmpData = Dist(72, 46)    ; Test array for plot
  XArr = findgen(72)*5.0 - 180.0 ; X-indices
  YArr = findgen(46)*4.0 - 90.0 ; Y-indices
  C_Levels = findgen(10)*4   ; Contour levels
  C_Colors = findgen(10)*10  ; Contour colors

  ; Call MAP_SET and CONTOUR with unfilled color contours
  Map_Set, /Grid, /Continents, Color=2, $
    Title='IDL 5.2 Color Contours (OK)'

  Contour, TmpData, XArr, YArr, $
    Levels=C_Levels, C_Colors=C_Colors, /OverPlot

  ; Call MAP_SET and CONTOUR with filled contours
  Map_Set, /Grid, /Continents, Color=2, /Advance, $
    Title='IDL 5.2 Filled Contours (/FILL)...screwed up'
```

```
Contour, TmpData, XArr, YArr, $  
  Levels=C_Levels, C_Colors=C_Colors, /OverPlot, /Fill  
end
```

Bob Yantosca | Phone: (617) 495-4517 \ "Ooooh...floor pie!"
Scientific Programmer | FAX: (617) 495-4551 \ -- Homer J. Simpson
Atmospheric Chemistry | Email: bmy@io.harvard.edu +-----
Harvard University | WWW: <http://www-as.harvard.edu/people/staff/bmy/>
