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Subject: Re: IDL 5.2.1 -- bug in filled contours?
Posted by [R.Bauer](#) on Wed, 27 Oct 1999 07:00:00 GMT
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Bob Yantosca wrote:

```
> 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  
>
```

/cell_fill works

I am using
IDL5.2.1 on WinNT

You should never use /fill with overplots on maps.
The failure on your platform is that's /cell_fill won't work.

R.Bauer
