
Subject: IDL 5.2.1 -- bug in filled contours?

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

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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
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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
```

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Subject: Re: IDL 5.2.1 -- bug in filled contours?
Posted by [Ole Bossing Christens](#) on Mon, 01 Nov 1999 08:00:00 GMT
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Hi all,

I posted and reported the same problem a while back. It seems to be SGI/IRIX specific, happens with both /fill and /cell_fill. RSI says that it is caused by an IRIX compiler bug (!) and that it will be fixed in IDL5.3.

Greetings, Ole

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