Subject: Re: IDL 5.2.1 -- bug in filled contours?
Posted by Charles Cavanaugh on Tue, 26 Oct 1999 07:00:00 GMT
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<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
<html>
Bob,
<p>We ugraded, we saw, we reported.   This bug is alive inside
the IDL demo as well.

Fire up the demo, click on "Earth Sciences", click on "Mapping".
Look familiar?

We grabbed a 5.3 beta version and the bug was still there.
<p>Charles

<p>Bob Yantosca wrote:
<blockquote TYPE=CITE>Hi all,
<p>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.
<p>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).
<p>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.
<p>Any suggestions?
<p>Thanks much,
<p>Bob Yantosca

bmy@io.harvard.edu
<p> ---------- ----------

pro Test_Contour

   loadct, 27   &nbs
p;   &nbs p;   &nbs
p;   &nbs p;
; EOS-B Colortable

   !P.MULTI = [0, 1, 2, 0, 0]   &nbs
p;
; 2 plots per page

   TmpData = Dist(72, 46)   &nb
sp;   &nb sp;

; 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   &nb
sp;   &nb sp;
; Contour levels

   C_Colors = findgen(10)*10   &n
bsp;
; Contour colors
<p>   ; Call MAP_SET and CONTOUR with unfilled color contours

   Map_Set, /Grid, /Continents, Color=2, $

      Title='IDL 5.2 Color Contours (OK)'
<p>   Contour, TmpData, XArr, YArr, $

      Levels=C_Levels, C_Colors=C_Colors,
/OverPlot
<p>   ; Call MAP_SET and CONTOUR with filled contours

   Map_Set, /Grid, /Continents, Color=2, /Advance,
$

      Title='IDL 5.2 Filled Contours (/FILL)...screwed
up'
<p>   Contour, TmpData, XArr, YArr, $

      Levels=C_Levels, C_Colors=C_Colors,
/OverPlot, /Fill

end
<p>----

Bob Yantosca   &a mp;nbsp;
| Phone: (617) 495-4517   \ "Ooooh...floor pie!"

Scientific Programmer | FAX: (617) 495-4551
\   -- Homer J. Simpson

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/a></blockquote>

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