
Subject: Re: Missing fill colours in contour plot
Posted by [DavidF\[1\]](#) on Tue, 15 Jan 2013 22:14:04 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Tuesday, January 15, 2013 1:56:23 PM UTC-7, [lj...@fsmail.net](#) wrote:

> I am trying to do a contour plot of a latitude-longitude array, but I keep getting gaps in my plot, as shown in the following image: <http://www.physics.open.ac.uk/~lsteel/contour.png>. I'm stumped as to the reason, as it's not as if it's missing contours at the very end ranges of the contour values - it's somewhere in between. Anyhow, I'm sure the knowledgeable folks on here will know!

>
>
>

> I have defined a blue-white-red colour scheme and loaded it in with tvlct, but the problem occurs with other colour schemes too. I am calculating my contour levels and colours as follows (with ncont the number of contours I'm plotting):

>
>
>
> minv = floor(min(array))
>
> maxv = ceil(max(array))
>
> maxval = max([abs(array),abs(array)])
>
> clevels = -maxval + findgen(ncont)/(ncont-1)*2*maxval
>
> ccol = floor(findgen(ncont)/(ncont-1)*250)

>
>
>

> I am then plotting my contour plot as:

>
>
>

> device, decomposed=0
>
> bwr_colour, red_vec, grn_vec, blu_vec
>
> tvlct, red_vec, grn_vec, blu_vec
>
> contour, array, lon, lat, \$
>
> levels=clevels, c_colors=ccol, /fill, \$
>
> background=cgColor('white'), color=cgColor('black'), \$
>
> xrange=[-180,180], yrange=[-90,90], xstyle=1, ystyle=1, \$
>

```
> yticks=6, ytickv=[-90,-60,-30,0,30,60,90], $
>
> xticks=6, xtickv=[-180,-120,-60,0,60,120,180], $
>
> xtitle='Longitude', ytitle='Latitude', charsize=1.5, $
>
> title=plotsym+' (all motions) / g m!u-1!n s!u-1!n'
>
>
>
> If anyone can offer any suggestions then I'll be very grateful, as it's bugging me now!
```

Just seeing "lon", "lat", and "contour" causes me to think that one of your problems is that you should be using the CELL_FILL keyword, rather than the FILL keyword.

http://www.idlcoyote.com/color_tips/fill_colors.html

If that doesn't work, I'd try cgCONTOUR. That routine will fill up the "normal" hole Contour creates.

http://www.idlcoyote.com/tips/contour_hole.php

Cheers,

David
