
Subject: Re: Missing fill colours in contour plot

Posted by [Sir Loin Steak](#) on Wed, 16 Jan 2013 09:51:49 GMT

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On Wednesday, January 16, 2013 12:11:50 AM UTC, tortoise...@gmail.com wrote:

> On Tuesday, 15 January 2013 22:14:04 UTC, Coyote wrote:

>

>> 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/~lstele/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 knowledgable folks on here will know!

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>>> 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):

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>
>>> minv = floor(min(array))
>
>>
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>
>>> maxv = ceil(max(array))
>
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>
>>> maxval = max([abs(array),abs(array)])
>
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>
>>>
>
>>
>
>>> clevels = -maxval + findgen(ncont)/(ncont-1)*2*maxval
>
>>
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>>>
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>>
>
>>> ccol = floor(findgen(ncont)/(ncont-1)*250)
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>>> I am then plotting my contour plot as:
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>
>>> device, decomposed=0
>
>>
>
>>>
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>>
>
>>> bwr_colour, red_vec, grn_vec, blu_vec
>
>>
>
>>>
>
>>
>
>>> tvlct, red_vec, grn_vec, blu_vec
>
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>
>>>
>
>>
>
>>> contour, array, lon, lat, $
>
>>
>
>>>
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>
>>> 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, $
>
>>
>
>>>
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>
>>> title=plotsym+' (all motions) / g m!u-1!n s!u-1!n'
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>>> If anyone can offer any suggestions then I'll be very grateful, as it's bugging me now!
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>> 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.
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>> http://www.idlcoyote.com/color_tips/fill_colors.html
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>
>> If that doesn't work, I'd try cgCONTOUR. That routine will fill up the "normal" hole Contour
creates.
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>
>> http://www.idlcoyote.com/tips/contour_hole.php
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>> Cheers,
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>
>> David
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>
> Thanks David - I'll give both a try tomorrow and see what happens!

Hmm, well neither `cell_fill` nor `cgcontour` fix the problem. I'll have to have another fiddle and see what I can do, but it seems like it should work!
