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Subject: Re: contour outside the limits

Posted by [David Fanning](#) on Thu, 15 Sep 2005 17:35:34 GMT

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lajam@caramail.com writes:

```
> I'm using the contour function to draw values on a sub-region of a map.
> The problem is that I obtain contour outside the limits I have defined.
> I read the idl guide and went on this group but I didn't find the right
> way to draw the contour. I have contour outside the limits only on one
> side of my sub-region for the region between (-10.5E;-41.5E) and
> latitude=57.5N. Hereafter my code:
>
> nlevels=24
> labels=fltarr(nlevels)
> limits=[40,-60,80,0]
> colors = fltarr(nlevels)
> for i = 0, nlevels-1 do begin
>   colors(i) = 10 + i * (229-20) / (nlevels-1)
> endfor
> labels=[-1,0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22]
> map_set, /cylindrical, color=white, /noerase, /continents,
> Limit=limits, xmargin=5, ymargin=10
> map_continents, color = black, mlinethick= 2.0
> map_grid,/box_axes
>
> x=sst_nadr[1,*] ; the longitude between -10.5E and -41.5E
> y=sst_nadr[2,*] ; the latitude between 44.5N and 57.5N
> sst=transpose(sst_nadr[3,*]) ; the values
> contour,sst,x,y, levels = labels, c_colors = colors, /overplot,
> /cell_fill, /irregular
>
>
> Does anybody have an idea of the "bug"?
```

XSTYLE=1 and YSTYLE=1 keywords are missing on your Contour command. Does anybody else really like automatic axis scaling? :-(

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: contour outside the limits

Posted by [lajam](#) on Fri, 16 Sep 2005 08:33:25 GMT

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thank you for the answer but I had already tried the xstyle and ystyle keyword with values=1 and it changed nothing.

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Subject: Re: contour outside the limits

Posted by [David Fanning](#) on Fri, 16 Sep 2005 12:54:45 GMT

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[lajam@caramail.com](mailto:lajam@caramail.com) writes:

> thank you for the answer but I had already tried the xstyle and ystyle  
> keyword with values=1 and it changed nothing.

Humm, well then, I suppose the problem is in the gridding of the data into a 2D array (with the use of the IRREGULAR keyword). I would try gridding the data yourself with TRIGRID and TRIANGULATE, taking care that the values are in the range you want. I would also make sure the X and Y values contain the limits you are looking for.

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: contour outside the limits

Posted by [btt](#) on Fri, 16 Sep 2005 13:45:13 GMT

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[lajam@caramail.com](mailto:lajam@caramail.com) wrote:

> thank you for the answer but I had already tried the xstyle and ystyle  
> keyword with values=1 and it changed nothing.  
>

Here's a snippet from the IDL 6.2 online docs ...

Graphics Keywords: Accepts all graphics keywords accepted by PLOT except for: LINESTYLE, PSYM, SYMSIZE. See Graphics Keywords Accepted.

That means the NOCLIP keyword is available to you. The default

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behavior is for CONTOUR to clip - but with the OVERPLOT keyword set maybe there is something going amiss. In any event, I suggest trying setting NOCLIP = 0 explicitly in your call to CONTOUR.

Cheers,  
Ben

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Subject: Re: contour outside the limits  
Posted by [lajam](#) on Fri, 16 Sep 2005 15:18:42 GMT  
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thanks for the help. Actually adding noclip=0 changed nothing. The solution was to use TRIANGULATE (as David suggested it) and then add the keyword TRIANGULATION=triangles in the contour function. Now it's fixed.

Cheers,

Cedric

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