
Subject: Colorbar problems

Posted by [francesco.spada](#) on Tue, 17 Apr 2001 19:57:30 GMT

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Please could you help me with this colorbar problems?

When I plot the topography I use this lines:

```
cctop=intarr(20)
cctop(0)=10
cctop(1)=100
FOR i=1,19 DO BEGIN
    cctop(i) = cctop(i-1) + 4
endfor
;
contour,z, POSITION=[0.15, 0.15, 0.95, 0.75],$
    xstyle=9,xtitle='x-axis (km)',ystyle=9,ytitle='y-axis (km)', $

levels=[-.1,.0,25,50,100,200,300,400,500,600,700,800,900,1000,1250,1500,$
    1750,2000,2500,3000], $
ticklen=-0.02, c_colors=cctop,charsize=1.5,/fill
```

but I don't know if is possible to set up David colobar in a correct way

(or if you have a better idea for plotting topography).

The biggest problem is that I plot levels with irregular distance, the only idea I have is putting the same "irregularity" in cctop!! but I think is more than bad programming :-((

I have a similar problem here

```
level_var=FLTARR(14)
color_var=FLTARR(N_ELEMENTS(level_topo))
step_col=14
FOR i=0,N_ELEMENTS(level_var)-1 DO BEGIN

    level_var(i)=MIN(var2d)+i*(MAX(var2d)*1.1-MIN(var2d))/N_ELEMENTS(level_var)
ENDFOR
;
CONTOUR,var2d,XSTYLE=1,YSTYLE=1,xf,yf,LEVELS=level_var, $
    POSITION=xposition, CHARSIZE=chr_sz, $
    TITLE=title,XTITLE=xtitle,YTITLE=ytitle,/nodata
CONTOUR,var2d,XSTYLE=1,YSTYLE=1,xf,yf,LEVELS=level_var, $
    C_COLORS=color_var, ; could be that without this line it's all right
...
/OVERPLOT,/FILL
CONTOUR,var2d,XSTYLE=1,YSTYLE=1,xf,yf,LEVELS=level_var, $
/OVERPLOT, COLOR=3,THICK=tck
```

Subject: Re: Colorbar problems

Posted by [davidf](#) on Thu, 26 Apr 2001 01:02:11 GMT

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Francesco (francesco.spada@jrc.it) writes:

```
> When I plot the topography I use this lines:
>
> cctop=intarr(20)
> cctop(0)=10
> cctop(1)=100
> FOR i=1,19 DO BEGIN
>   cctop(i) = cctop(i-1) + 4
> endfor
> ;
> contour,z, POSITION=[0.15, 0.15, 0.95, 0.75],$
>   xstyle=9,xtitle='x-axis (km)',ystyle=9,ytitle='y-axis (km)', $
>
> levels=[-.1,.0,25,50,100,200,300,400,500,600,700,800,900,1000,1250,1500,$
>   1750,2000,2500,3000], $
>   ticklen=-0.02, c_colors=cctop,charsize=1.5,/fill
>
> but I don't know if is possible to set up David colorbar in a correct
> way
> (or if you have a better idea for plotting topography).
> The biggest problem is that I plot levels with irregular distance,
> the only idea I have is putting the same "irregularity" in cctop!!
> but I think is more than bad programming :-((
```

I realize this reply is belated, but I don't see a reply in my newsreader.

My COLORBAR routine has absolutely no problem with irregular contour levels. Just use [XY]TICKV, etc.

But I do think it odd that you would use noncontiguous color values. I've never done this. Add although I admit to being terribly jet-lagged, I can't for the life of me come up with a scenario where I would. If you wanted likely colors in indices 10 to 100, wouldn't you do something like this:

```
LOADCT, 33, NColors=90, Bottom=10
Colorbar, XTickV=levels, NColors=90, Bottom=10
```

Cheers,

David

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