
Subject: using map_set with postscript device
Posted by [pepperjack](#) on Fri, 21 Nov 2008 04:36:59 GMT
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Hello

I'm trying to overplot a contour with a map using contour /
overplot followed by map_set ... /noerase. It works fine when I output
it to my screen, but when I output it to a .eps file the map_set turns
the entire plot one colour so I lose my contours.

Here is my code:

```
set_plot, 'ps'  
device, /encapsulated, filename='chi.eps'  
device, /color  
!p.region = [0.0, 0.1, 1, 1]  
loadct, 33  
range = max(chi) - min(chi)  
step = range/20.  
clevs = (indgen(21)*step) + min(chi)  
ccols = indgen(20)*(254/19)  
contour, chi, x, y, levels=clevs, c_col=ccols, /cell_fill, /overplot  
map_set, /noerase, /continents, /grid, /isotropic  
colorbar, clevs, ccols, format='(i4)'  
device, /close
```

I'd really appreciate any help anyone can offer with this.

Thanks.

Subject: Re: using map_set with postscript device
Posted by [David Fanning](#) on Sun, 23 Nov 2008 22:45:51 GMT
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pepperjack writes:

- > Is there an easier way to work out what vectors should go in the
- > POSITION keyword? These numbers appear to be totally random to me, and
- > I found them through trial and error...

I think they appear random to you for a couple of reasons.
First, you muck around with !P.REGION, which is going to
throw every thing completely off. POSITION is specified
as the lower-left x and y, and upper right x and y of
a rectangle that specifies the location of the axes, in
normalized coordinates. (Coordinates that go from 0 to 1 in

the "window".) When you muck up !P.REGION who knows what the numbers mean? :-)

Secondly, since you are issuing the MAP_SET command *after* the CONTOUR command, the contour command is being drawn on the axis that were specified in the program you ran *before* you called this one!!!! This will tend to *REALLY* throw you off the track. In fact, it will make you absolutely crazy sooner or later, because nothing will ever make any sense to you.

I'll be honest with you, if this program works, it is a miracle, and I think you should be satisfied with that. :-)

I'd have a look at this article to at least see in which order things *should* be done in:

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

Cheers,

David

>
> Is there a way to manage the file size of the resulting .eps? I need
> to compile about 100 of these figures into a latex document and it is
> rapidly growing to an unmanageable size.
>
>

--

David Fanning, Ph.D.
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
