## 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 View Forum Message <> Reply to Message

## 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.")