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Subject: mapping problem

Posted by [mkmvarma](#) on Wed, 03 Apr 2013 19:58:29 GMT

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Hello,

I have a question regarding map plotting. I am using coyote library to plot it. I can plot a global contour map but there are some things that I would like to change in the plot.

- 1) It plots a nice map but there is a white line along zero degree longitude. How can I fill this in?
- 2) It puts labels on all of the 4 axes and all I need is label on only two axes.

The plotting statement I use is as follows:

```
cgLoadCT, 33, NColors=nlevels, Bottom=1,Clip=[0, 255]
```

```
;cgLoadCT, 33, /Brewer, NColors=10, Bottom=1, /Reverse
```

```
position = [0.1, 0.30, 0.8, 0.95]; [0.125, 0.125, 0.9, 0.800]
```

```
cbposition = [0.1, 0.25, 0.8, 0.26];[0.125, 0.865, 0.9, 0.895]
```

```
; Set up the map projection and overlay the contour plot.
```

```
cgMap_Set, POSITION=position
```

```
cgContour, anomaly, lon, lat, /overplot, /Cell_Fill, $
```

```
  C_Colors=Indgen(nlevels)+1, Levels=levels,charsize=0.6,$
```

```
  title='Precipitation Trend'
```

```
Cgtext,0.45,0.99,ALIGNMENT=0.5,/NORMAL,'Precipitation Trend (1996-2009)',$
```

```
  charsize=0.8
```

```
cgMap_Grid, Map=map, /Box,lonlabel=3,latlabel=3,charsize=0.6
```

```
cgMap_Continents, Map=map, Color='black'
```

```
cgColorbar, Range=[(Min(levels)), (Max(levels))], OOB_High=nlevels, $
```

```
  NColors=nlevels-1, Bottom=1, /Discrete, $
```

```
  Title='Trend (mm/day/decade)', $
```

```
  POSITION=cbposition,charsize=0.8;[0.88,0.9,0.90,0.8];[x0,y0, x1,y1]
```

Thanks,

Mahesh

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Subject: Re: mapping problem

Posted by [David Fanning](#) on Sat, 06 Apr 2013 12:50:30 GMT

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mkmvarma@gmail.com writes:

- > I have a question regarding map plotting. I am using coyote library to plot it. I can plot a global contour map but there are some things that I would like to change in the plot.
- > 1) It plots a nice map but there is a white line along zero degree longitude. How can I fill this in?

Generally, you have to extend the last column of your data to wrap around to the first column. You have to do the same thing to your longitude vector:

```
lons = [lons, lons[0]]  
data = [data, data[0,*]]
```

- > 2) It puts labels on all of the 4 axes and all I need is label on only two axes.

Not much you can do about this in direct graphics. You can use the function graphics map projections. They only label two of the four axes when they create box axes on maps.

You could, I suppose, poke around in Map\_Grid to make it do what you want, but this doesn't really seem worth the time it would take to me.

Cheers,

David

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

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