
Subject: Map Projected Contour plot - function graphics - how to change the contoured data....

Posted by [Geo](#) on Tue, 01 Dec 2015 22:03:52 GMT

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Hi there,

OK so I have set up a map-projected contour plot by doing this:

```
mp1 = map('Equirectangular', CENTER_LONGITUDE=0, $  
  POSITION=[0.1,0.1,0.90,0.75], $  
  LABEL_POSITION = 0, /BOX_AXES, $  
  /box_antialias, $  
  GRID_LATITUDE = 30, GRID_LONGITUDE = 45, $  
  /CURRENT, ASPECT_RATIO=0, LIMIT=[-89.99, -180, 89.99, 180])
```

etc., etc.

and then the contour plot....

```
cn = contour(data1, lon, lat, overplot = overplot, name='the_contour_plot',$ GRID_UNITS=2,  
MAP_PROJECTION='Equirectangular', $  
  RGB_TABLE=rgb, /CURRENT, RGB_INDICES=Indgen(nlevels), $  
  C_VALUE=levels, /FILL)
```

So I'm contour plotting 'data1' on a standard equirectangular map. So far, fine.

Now I want to change the contour plot to show the next dataset in the sequence (lets call it data2 - it has the same dimensions as data1)

This looks to be simple:

```
cn.setdata, data2
```

But this doesn't work - I get:

```
% Not supported for MAPPROJECTION graphics.
```

So obviously, when the contour plot is 'map projected' it won't do an update to the contour plot data itself.

Any idea how I can get around this? In general I am wanting to do lots of contour plotting with different map projections - but I need to be able to change the data (like when you go from time T to time T+1).

Thanks for any help,

Geo
