Subject: Re: Map Projected Contour plot - function graphics - how to change the contoured data.... Posted by chris torrence@NOSPAM on Wed, 02 Dec 2015 19:24:49 GMT View Forum Message <> Reply to Message On Tuesday, December 1, 2015 at 3:03:56 PM UTC-7, Geo wrote: > 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 the 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).

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> Thanks for any help,

> Geo

Hi Geo,

I just found & fixed a bug in the graphics code, where it was giving the same "name" to both the contour plot and the map projection. So the "cn" reference that was being returned was actually the map projection instead of the contour.

As a workaround, you can simply remove 'name="the_contour_plot" and the problem should go away.

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Cheers,
Chris
p.s. here's a simple reproduce:
mp1 = map('Equirectangular', CENTER_LONGITUDE=0, /DEBUG, $
 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])
data1 = dist(50)
lon = findgen(50)*3
lat = findgen(50)*2 - 50
cn = contour(data1, lon, lat, overplot = 1,$
 GRID_UNITS=2, MAP_PROJECTION='Equirectangular', $
 RGB_TABLE=33, /CURRENT, /FILL)
help, cn
cn.setdata, 35*hanning(50,50)
```