Subject: Basic cgMap and cgMapPlotS tutorial
Posted by Brian Daniel on Mon, 17 Sep 2012 17:26:32 GMT
View Forum Message <> Reply to Message

I've never worked much with maps in IDL, so now that I need to, I thought I'd start with the Coyote tools. From the documentation, the cgMapPlotS object seems like exactly what I need, which is to plot specific lat/lons onto a map with continents or other shapefiles on top.

Here's my code:

```
center_lat = 36.099510
center_lon = -5.3362050
latXRange = [35.905270,  36.171590]
lonYRange = [-5.6205900,  -5.0512100]

; Create cgMap object
oMap = Obj_New('cgMap', 'UTM', /LatLon_Ranges, $
  Center_Latitude=center_lat,Center_Longitude=center_lon,$
  XRange=latXRange,YRange=lonYRange, /Window,$
  Position=[0.05,0.95,0.05,0.95],Title='cgMap Test',Land_Color='brown')

print, latXRange, lonYRange
```

The above code prints:
```
    4669305.1     4713144.8
   -801136.78    -722963.25
```

So latRange and lonRange's values were changed, I'm assuming to be in units of meters. center_lat/lon values are unchanged. Then, I attempt to create a cgMapPlotS object to plot the center_lat and center_lon position with a symbol:

```
oMapPlotS = Obj_New('cgMapPlotS', oMap, color='red', Lats=center_lat, Lons=center_lon, PSym=1 )
```

I get the following error:

CGMAPPLOTS::INIT--> CGCONTAINER::INIT: Incorrect number of arguments.

The only argument asked of cgMapPlotS is that of a cgMap object, which I provided. What am I missing?

Thanks in advance!
-Brian