
Subject: Re: Color Data with Colorbar OOB Colors
Posted by [David Fanning](#) on Wed, 04 Dec 2013 00:36:14 GMT
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Morgan Silverman writes:

> I apologize for not being clear. No this is not a contour plot. I am plotting individual latitude vs longitude points as symbols. I want each of those points colored by the corresponding altitude but only colored up to 2 km, above they should all be the same color. I still need to be able to see all points though. When I tried to limit, I also limit plotting the locations above 2 km. I've included a bit of plotting code. I hope this helps

I would do it like this:

```
DAQlon = cgScaleVector(Randomu(seed, 100), -75.5, -77.75)
DAQlat = cgScaleVector(Randomu(seed, 100), 38.25, 40.0)
DAQalt = cgScaleVector(Randomu(seed, 100), 0.0, 3.0)
shoredata = 'gshhs_i.b'
```

```
tooHigh = Where(DAQalt GT 2.0, count)
colors=bytsc1(DAQalt, Top = 254)
IF count GT 0 THEN colors[tooHigh] = 255
cgLoadCT, 33, NColors=254
TVLCT, cgColor('charcoal', /Triple), 255
```

```
lonrange = [-77.75, -75.5] ; Flight 7,8,9,12,13,14
latrange=[38.25, 40] ; Flight 7,8,9,12,13,14
limit = [latrange(0),lonrange(0),latrange(1),lonrange(1)]
pp=[0.1,0.1,0.82,0.95]
```

```
cgplot, DAQlon, DAQlat, /nodata, xstyle=1, ystyle=1, $
  xrange=lonrange, yrange=latrange, position=pp
cgMap_set, 38.25, -76.5, limit=limit, /lambert, $
  /noerase, position=pp ;37,-76.35 for zoomed in...37.2, -76.7 zoomed
out
cgMap_GSHHS, ShoreData, Fill=1, Level=3, Color='black', /Outline
cgplots, DAQlon, DAQlat, psym=2, color=colors
cgColorbar, divisions=4, range=[0,2], /Vertical, /right, $
  charsize=1, position=[0.83,0.1,0.86,0.9], NColors=254, $
  OOB_High='charcoal'
END
```

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
