
Subject: Satellite projection contour plots

Posted by [Matt\[3\]](#) on Wed, 30 Mar 2011 16:10:46 GMT

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Hi All,

I'm trying to create a few contour plots on a satellite map projection. Mostly they look great, but from some viewing angles (the lon/lat that the 'satellite' is over), there seems to be some strange artifacts in my eps and png output. For example, I've put a plot up here (<http://dl.dropbox.com/u/13779929/h00200.png>) which looks good in the tropics, but goes a little crazy at the high-latitudes.

I've checked the output with antialiasing turned off (or on, whichever it is), but same result. There are hints of similar behavior for other projections, but not as severe as with the satellite. Other color tables and number of contour levels etc. seem to lead to the same result.

The map has been created using Dave Fanning's routines and the old fashioned map_set (see below). If there's something I'm missing, or if there's a better way to do this with the new graphics, I'd love to hear it!

Cheers,

Matt

```
ps_start, filename=outeps, /nomatch, ysize=ysize, xsize=xsize,  
xoffset=0., yoffset=0.
```

```
!p.multi=[0, 2, 1]  
pos=[0.05, 0.1, 0.8, 0.9]  
cgloadct, 0
```

```
MAP_SET, angle_lat, angle_lon, 0., position=pos, /noborder, /  
satellite, SAT_P=[3., 0., 0.]
```

```
cgLoadCT, 25, /brewer, nColors=CtN, /reverse
```

```
cgcontour, IM_append, lon_append, lat, levels=indgen(ctN)+ctB, /  
fill, /overplot  
;IM_append is the image, scaled to be a floating point number  
between 0. and 255. (CtN=256, CtB=0).
```

```
cgloadct, 0  
map_continents, thick=2
```

;Color bar plotted here

ps_end, /png
