
Subject: Re: Creating a .kml file from data with a geostationary map projection
Posted by [David Fanning](#) on Fri, 02 Oct 2015 14:40:55 GMT
[View Forum Message](#) <> [Reply to Message](#)

ian.j.ashpole@gmail.com writes:

> I have some data that i would like to be able to display in Google Earth. The data are in geostationary map projection, and i understand from reading around (predominantly here: http://www.idlcoyote.com/cg_tips/image2kml.php) that these need to be reprojected to an equirectangular map projection first. Unfortunately, this is where i come unstuck! If anybody would be able to help me with this it would be most appreciated.

>

> Data that i would like to plot are here (netcdf format):

> https://www.dropbox.com/s/49ri4ib7rju0j0s/data_to_plot.nc?dl=0

>

> The lon,lat values for each cell in that file are here:

> https://www.dropbox.com/s/m53d2tn6ccd6jto/lonlats.NA_MiddleE_ast.nc?dl=0

I read the data into the variables, bt, lons, and lats. Then, as a quick and dirty exercise, I did this:

```
i = where(lons le 360 and lats le 90)
img = cgwarptomap(bt[i], lons[i], lats[i], Resolution=[1331, 605], $
  Map=imgmap, /SetRange) ; took a few seconds to grid
cgloadct, 33
cgdisplay, aspect=img
cgimage, img, /scale, /keep, xrange=imgmap.xrange, $
  yrange=imgmap.yrange, /save
snap = cgsnapshot()
cgimage2kml, snap, imgmap, transparent=50
```

Opened the resulting KML file in Google Earth. Looks promising. :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
