
Subject: Creating a .kml file from data with a geostationary map projection

Posted by [ian.j.ashpole](#) on Fri, 02 Oct 2015 12:21:27 GMT

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Hi all,

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

Thanks,

Ian

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

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ian.j.ashpole@gmail.com writes:

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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.")

Subject: Re: Creating a .kml file from data with a geostationary map projection

Posted by [ian.j.ashpole](#) on Thu, 22 Oct 2015 17:00:48 GMT

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Hi David,

Thanks very much for your reply and effort - i've only just seen it, as notifications have been switched off for some reason! I'll work through your suggestion and see how i do.

Many thanks again

Ian
