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Subject: Re: Map Projections

Posted by [David Fanning](#) on Fri, 15 Jan 2010 20:52:58 GMT

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Bennett writes:

- > I currently have data with an associated latitude and longitude
- > frame. I've seen David Fanning's "Navigating GOES Images" example but
- > the process does not seem to work for my data.
- > When I say it does not work the resulting projection results in
- > showing much less of the data than it should based on the lat/lon
- > limits.

How are you choosing the "limits"? These are not necessarily the corners of your image.

- > Does the data inherently have to be North up and east/west going right/
- > left? My data is presented in an orientation where North is at an
- > angle as are the other directions where the bottom of the image is not
- > lowest latitude etc... Is there a special way to handle the
- > projection for these types of datasets?

No, pick the upper-left corner of the rectangular image as your starting point, and you should be good to go. What kind of map projection is this, what is the lat/lon in the upper left corner, what size is your image in pixels, and what is the resolution of a pixel in meters? (You *can* determine the later number from the lat/lon corners of your image.)

- > The end result I'm looking for is a GeoTiff. I would think that with
- > all this information at my fingertips IDL would make this easy but
- > alas it is not.

You have been reading WAY too many marketing materials. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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