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.")