Subject: Re: how to initialize a projection from its specification? Posted by David Fanning on Wed, 17 Apr 2013 16:50:52 GMT

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## nata writes:

- > How can I initialize a mapping projection in IDL using the following specification?
- > http://www.nco.ncep.noaa.gov/pmb/docs/on388/tableb.html#GRID 130

> I want to remap (by bilinear interpolation) one image (that is projected in the specified grid) to another projection, by using MAP\_PROJ\_IMAGE.

> I do have the lat/lon values of the image but it seems that I cannot use MAP\_PATCH if my final projection is initialized using MAP\_PROJ\_INIT.

> Any ideas?

Well, you seem to be mixing a couple of things up here. :-)

If you want to take an image in one map projection and re-project it to another map projection, then MAP\_PROJ\_IMAGE is exactly what you want:

http://www.idlcoyote.com/map\_tips/warpimage.html

You simply create a map structure for the current projection and one for the desired projection, and Map\_Proj\_Image does a great job.

On the other hand, if you are considering MAP\_PATCH, that is another problem altogether. Here you have an image and a lat/lon value for each pixel in the image, and you wish to display this image on a map projection. This is more of a display solution than an analytical solution.

I have written the equivalent of Map\_Patch for the Map\_Proj\_\*\*\* method of creating the map projection. It is called cgWarpToMap. You can learn more about it here:

http://www.idlcoyote.com/idldoc/cg/cgwarptomap.html

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.")

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