
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](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

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