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Subject: Re: Newbie needs help...

Posted by [davidf](#) on Wed, 10 Jan 2001 20:18:25 GMT

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Bruce Bowler ([bbowler@bigelow.org](mailto:bbowler@bigelow.org)) writes:

> karmic confusion reigns supreme...

Now we *\*are\** getting somewhere... :-)

> I have this big huge array (here  
> after referred to as a BHA) of data (BHAd) an equally sized BHA of  
> latitudes (BHAlat) of each point in BHAd and another BHA of longitudes  
> (BHAlon) of each point in BHAd. NB, row x of BHAlat is not constant,  
> neither is column y of BHAlon  
>  
> I understand map\_set, I understand map\_grid, I understand map\_continents  
> (well, not in the tao-ist sense of the word). map\_image is where I'm  
> getting confused... how does map\_image know about BHAlat and BHAlon  
> when they are not inputs to the process?

Ah, this is what IDL doesn't do. Liam does this by taking each one of your pixels (I'm paraphrasing here) and putting it over on your map one by one. Then he sees that he has a very holey map (pun intended in this case), so he "fills it in" with some kind of dilation thing, if I remember correctly. (Where *\*is\** Liam, anyway!?) That's why he doesn't want you to trust the numbers. He has had to fudge them a bit. But they look great!

I guess if I were in your shoes, I might try to reformat the part of the image I was interested in onto a regular lat/lon grid. I'd probably try to use TRIANGULATE and TRIGRID first, to see if that would work. You will jimmy the numbers, of course, but no way around that if you want to use IDL. Then, I would put the regular lat/lon image on the map using Map\_Image.

There are probably other ways to warp the image onto the map, but there is no getting around the need to do it. What you would prefer, I'm sure, is to have a map warped to the image. But this is NOT possible in IDL.

Then, I would get the specified value from the regular lat/lon grid, if I couldn't figure out

a way to get a better number from my original array. Remember that the display *\*IS\** only a display. You are not really looking at your data. All you want to do is have the display *\*represent\** your data in a more or less faithful way. I think Liam's solution is as good as you are likely to get for actually displaying your data.

Once you have the display, getting the actual value out of your data set shouldn't be terribly hard. You might need some kind of look-up table for indexing, but this should be fairly straightforward.

Cheers,

David

P.S. Let's just say I really wish Liam would step in here. :-(

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