
Subject: Re: displaying an image in simple geographic coordinates

Posted by [Peter Albert](#) on Fri, 25 May 2007 06:48:11 GMT

[View Forum Message](#) <> [Reply to Message](#)

I think you are mixing two things: the way in which your data is defined (i.e. geographic coordinates, WGS84) and the way it is displayed (i.e. projection). Nothing prevents you from displaying your data in any projection you like. I guess, what you actually have in mind is equirectangular, or plate carrée projection. This is actually the default projection, so if you call `map_set` or the other projection routines without any projection-related keyword, you should get what you expect.

However, for your actual task of overplotting point data, you are not restricted to this projection. With

`plots, lonValues, latValues, pysm = 4, /data`

after the projection, you should get the point data displayed correctly regardless of the projection.

Regards,

Peter

On 25 Mai, 00:28, Matt <mmsmith1...@gmail.com> wrote:

> On May 24, 4:52 pm, David Fanning <n...@dfanning.com> wrote:

>

>

>

>> Matt writes:

>>> does anyone know how i can display an image in simple geographic
>>> coordinates using IDL? all documentation that i have read deals with
>>> reprojection images to various projections or reprojecting a window to
>>> a given image's projection. geographic coordinates is never listed as
>>> an option in any of these functions. maybe it's because i'm dealing
>>> with cartesian coordinates not a projected space per se? but my data
>>> is in lat/lon wgs84 and i need to plot point data that is in decimal
>>> degrees (wgs84) as well. any suggestions?

>

>> Here is an article that describes one way to do this:

>

>> http://www.dfanning.com/map_tips/precipmap.html

>

>> Cheers,

>

>> David

>
>> --
>> David Fanning, Ph.D.
>> Fanning Software Consulting, Inc.
>> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>
>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
>
> Thanks for the response. I checked out your link and it's very useful.
> It still leaves me with one question: it seems like you need to set up
> or initialize a projection before using map commands. what if your
> data is in geographic coordinates, which are not listed as a supported
> map structure? i suspect that there is something quite simple that i'm
> missing here. any thoughts?
