
Subject: Re: Help needed in remapping data using IDL

Posted by [kaba](#) on Wed, 05 May 2010 21:24:55 GMT

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On May 5, 7:50 am, David Fanning <n...@dfanning.com> wrote:

> kaba writes:

>

>> Hello Guys, I am relative a new IDL programer who would appreciate
>> some help in how to remap a sample data from satellite projection to
>> Lambert Conformal.

>

>> Here are the detail of What I have done so far:

>> ...

>

>> When I plot this using on a window, the map projection looks right but
>> the data does not seem to be remapped correctly.

>> This is my first time using map_proj_init and map_pro_image. Please
>> help.

>

> It seems natural to want to work with latitude and
> longitude coordinates when you are working with map
> projections, but resist that thought! To do this kind
> of reprojection properly, you want to be in XY space.
> (IDL sometimes calls this UV space, but in any case
> it is a rectangular space where things make a lot of
> sense, as opposed to, say, lat/lon space where they
> don't.)

>

> Have a look at this article for additional information:

>

> http://www.dfanning.com/map_tips/warpimage.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.")

Ph.D Fanning

Thanks for the link, I have downloaded both the coyote and catalyst
libraries.

I have started writing a new code based on the article you send me,
and I have a question.

(1) My input file in this case is HDF 4 not netCDF. Hence I get an error message when I call the subroutine FindMapBoundy(). How do I get around this issue?

Subject: Re: Help needed in remapping data using IDL
Posted by [David Fanning](#) on Wed, 05 May 2010 22:38:40 GMT
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kaba writes:

> Thanks for the link, I have downloaded both the coyote and catalyst
> libraries.
> I have started writing a new code based on the article you send me,
> and I have a question.
>
> (1) My input file in this case is HDF 4 not netCDF. Hence I get an
> error message when I call the subroutine
> FindMapBoundy(). How do I get around this issue?

You will have to get the corner lat/lon points from the geolocation information in the HDF 4 file and convert them to XY points using MAP_PROJ_FORWARD. This will allow you to find the "boundary" XY values. You can see how I have done this for netCDF files in ndcf_coord.pro in the catalyst/source/coordinates directory. In fact, if you want to write a hdf_coord function, please do! :-)

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.")
