

Hello together,

thanks for your help ! I think I will convert my geographical coordinates to rectangular coordinates and will plot them.

Klemens

Rick Towler wrote:

> "David Fanning" wrote in message...

>

>> Klemens Barfus writes:

>>

>>

>>> Once again the question from above:

>>> I try to visualize 3d-data of an atmospheric model. Coordinates in x-

>>> and y-direction are in geographical coordinates and z is in m.

>>> I thought of using SCALE3D and Map_set to generate the

>>> Coordinate-System. This doesn't work, because vertikal lines in the

>>> coordianate system are not plotted. Horizontal lines look fine, though I

>>> do not know if it is a buck from the program that it works.

>>> Does anybody of you working atmospheric data has a tip or some example

>>> code for me ?

>>

>> I don't know exactly how to do this, but I do know

>> I would NOT be using IDL direct graphics to do it.

>> That's a fool's game, it seems to me. :-)

>>

>> I think I would try to do something like the Fly-Through

>> demo, with some kind of map as the base of the elevation

>> data. Presumably RSI knows how to create map projections

>> in object graphics. Maybe you could get them to share

>> that information with the rest of us. :-)

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>

> I agree with David that object graphics would be far more flexible but I

> can't claim it will be easier than a direct graphics approach. Then again,

> it might. I dropped direct graphics a long time ago.

>

> What sort of visualization are you going for? How many layers in z? Do you

> just want to plot a surface where x/y are in geographical coords or

> something more complicated?

>

> Regardless of the details, use the MAP_PROJ_* routines (IDL 5.6+) to convert

> your x/y data to and from cartesian coords suitable for use in object

> graphics.
>
> If you want to plot some surfaces, use this converted data to create an
> IDLgrSurface object. Assuming x,y, and z contain your data and you have
> scaled them appropriately:
>
> oSurface = OBJ_NEW('IDLgrSurface', x, y, z, \$
> COLOR=[100,100,100], STYLE=1)
> oModel = OBJ_NEW('IDLgrModel')
> oModel -> Add, oSurface
>
> XOBJVIEW, oModel, /BLOCK
>
> OBJ_DESTROY, oModel
>
>
> The above will get you started. If you have 6.0 and you want to plot a few
> surfaces and annotate then try using the iTools. If you don't have 6.0 or
> are opposed to the iTools then look at David's fscSurface program
> (www.dfanning.com). And if you are looking to do something entirely
> different, at least the MAP_PROJ_* routines will get you started.
>
>
> -Rick
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