Subject: mapping/zooming

Posted by delp on Thu, 10 Aug 1995 07:00:00 GMT

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I'm trying to display a map of the north polar region.

First, I'd like to have the window initialized with the continents between 55-90 degrees lat displayed. I've tried

map_set, 90, /grid, /continent, /azimuthal, limit=[55,-180,90,180]

but I get floating point errors. Any ideas?

Second, I'd like to draw a bounding box and have it's contents zoomed to fill the display. I've written the code to draw the bounding box, I'm assuming that all I need to do is recreate my map projection with the new center and dimension parameters. Is this correct?

Third, does IDL provide routines to convert screen coordinates to lat/lon in a given projection (and vice-versa)?

Thanks alot,

Steve

Subject: Re: mapping/zooming

Posted by svenw on Fri, 11 Aug 1995 07:00:00 GMT

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lena@jaameri.gsfc.nasa.gov (Jelena Marshak) writes:

>>

- > I have produced a number of polar region data visualization plots and
- > I don't see anything wrong with using

>

> map set,90,/grid,/continent,/azimuthal,limit=[55,-180,90,180]

>

> It works on my computer.

>

-Lena Marshak

Yes, you are right. I was wrong, but I have managed to get errors with certain choices of parameters.

__

Sven Wallman http://www.update.uu.se/~svempa/

"Of what importance is mere money when there are worlds to be conquered people to be enslaved?" -- Doctor Doom Subject: Re: mapping/zooming Posted by afl on Fri, 11 Aug 1995 07:00:00 GMT

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	n article <delp.95aug10103516@vexcel.vexcel.com>, delp@vexcel.com (Steve Delp)</delp.95aug10103516@vexcel.vexcel.com>
١	writes:
	>

- |> I'm trying to display a map of the north polar region.
- > First, I'd like to have the window initialized with the continents between
- |> 55-90 |> degrees lat displayed. I've tried

|> degrees lat displayed. I've tried |>

|> map_set, 90, /grid, /continent, /azimuthal, limit=[55,-180,90,180]

This worked fine under IDL 4.0 Also, you may want to add the /iso keyword.

- |> but I get floating point errors. Any ideas?
- |> _

|>

- |> Second, I'd like to draw a bounding box and have it's contents zoomed to fill
- > the display.
- |> I've written the code to draw the bounding box, I'm assuming that all I need
- > to do is
- |> recreate my map projection with the new center and dimension parameters. Is
- |> this correct?

Sorry, but I don't understand what you are trying to do.

- |> Third, does IDL provide routines to convert screen coordinates to lat/lon in
- |> a given
- |> projection (and vice-versa)?

|>

Look at the documentation for cursor.

Subject: Re: mapping/zooming

Posted by svenw on Fri, 11 Aug 1995 07:00:00 GMT

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delp@vexcel.com (Steve Delp) writes:

- > I'm trying to display a map of the north polar region.
- > First, I'd like to have the window initialized with the continents between 55-90
- > degrees lat displayed. I've tried
- > map_set, 90, /grid, /continent, /azimuthal, limit=[55,-180,90,180]
- > but I get floating point errors. Any ideas?

I'm no expert on projections, but you can't have the north pole as a center. Try using 89 instead of 90, but the map will probably look somewhat distorted.

- > Second, I'd like to draw a bounding box and have it's contents zoomed to fill the display.
- > I've written the code to draw the bounding box, I'm assuming that all I need to do is
- > recreate my map projection with the new center and dimension parameters. Is this correct?

I think so ..

- > Third, does IDL provide routines to convert screen coordinates to lat/lon in a given
- > projection (and vice-versa)?

Yes, convert_coord does that. Just make sure where your point of origin is. xv has its origin in the upper-left corner.

--

Sven Wallman http://www.update.uu.se/~svempa/ "Of what importance is mere money when there are worlds to be conquered people to be enslaved?" -- Doctor Doom