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Subject: Re: circles and squares

Posted by Liam E. Gumley on Mon, 17 Jul 2000 07:00:00 GMT

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Kenneth Mankoff wrote:

> i am having trouble making circular globes in IDL. Here is some sample  
> code for X:  
>  
> window, xsize=500, ysize=500 ; should be square, pixels are...  
> map\_set, 0, 0, /ortho, /horiz, /grid ; produces a rectangle and oval  
>  
> ;;;in ps:  
> set\_plot, 'ps'  
> device, xsize=10, ysize=10 ; should be a 10x10 cm square image  
> map\_set, 0, 0, /ortho, /horiz, /grid ; produces a 10x10.5 grid  
>  
> any suggestions or ideas as to why the above code produces rectangles with  
> ovals inside rather than squares containing circles?

Try adding the ISOTROPIC keyword to the MAP\_SET call:

map\_set, 0, 0, /isotropic, /ortho, /horiz, /grid, /cont

Alternatively, use the SCALE keyword to define your map projection:

map\_set, 0, 0, scale=75e6, /ortho, /horiz, /grid, /cont

This way the map scale stays the same regardless of the display size or aspect ratio.

Cheers,

Liam.

<http://cimss.ssec.wisc/~gumley>

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