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Subject: Finding map SCALE given latitude.

Posted by [Grady Daub](#) on Tue, 06 Jul 1999 07:00:00 GMT

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I'm making orbit plots. There will be 2 plots, one each of the north and south poles.

```
MAP_SET,/cont,color=0,-90,0,0,pos=[.1,.75,.9,.90],scale=100e 6
```

would show you what I mean. (Using a window shaped like a sheet of paper.)

Is there an easy (or complicated, for that matter) way to determine the SCALE= factor to set for the plot to include only up to a certain latitude circle?

What I need is a rectangular box (centered on the pole), about 20 degrees tall and exactly 90 degrees wide (those in latitude). The data will be plotted in a similar box, below the map plot, with the data corresponding to the orbit position directly above it.

This all could probably be done with LIMIT= , but, then I'd have to worry about aspect ratio's. It seems simpler to make a box with POSITION= , then scale the earth until it shows the +/- 45 degrees latitude circle at the left/right edges. (top/bottom range doesn't really matter.)

Have I explained this adequately?

I should really buy D.Fanning's book, but, I don't expect to be using IDL after July. :-/

-Grady Daub

p.s.- would you believe that my name's not in the spell checker? :-(

(Remove MMER and ZOOKS to reply by e-mail.)

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