
Subject: precisely specifying size of MAP

Posted by [Bruce Macintosh](#) on Tue, 25 Mar 1997 08:00:00 GMT

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Is there any way to *precisely* specify the size of a map projection?

I have ground-based images of various solar-system objects. I'd like to overlay a lat/long grid on them; using `map_set` (and possibly `map_grid`) seems much easier than drawing the grid manually. However, in spite of my best efforts with the `POSITION` keyword the map always comes out slightly smaller than I want to; I have to print a copy out, physically measure the map, and then adjust the image size accordingly.

For example,

```
set_plot,'ps'  
device,xsize=5,ysize=5,/inches  
  map_set,0.0,0.0,/ortho,position=[0.2,0.2,0.8,0.8],xmargin=0, ymargin=0,$  
/isotropic,/noborder  
map_grid  
device,/close  
$lpr idl.ps
```

produces a globe somewhat more than 1/16" too small. If I hadn't specified `/noborder`, the outer box surrounding the map would have been 3" on a side...what I want is a way to get rid of the space between the map and that border. I know I could just measure the difference, but it seems to vary somewhat with different devices/map sizes/etc.

Bruce
