
Subject: Grid lines misaligned when using CONTOUR and MAP_SET

Posted by [Matt Francis](#) on Thu, 07 Mar 2013 22:23:19 GMT

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I want to do something pretty simple, which is to create a map with continents and overlay contours. The bare bones of the key part of the code looks like this:

```
position = [pos_xmin,pos_ymin,pos_xmax,pos_ymax]
Contour,data,lons,lats, /Fill, Levels=contourLevels, c_colors=contourColours,position=position
Map_set,0,180,/continents,/cyl,/grid,/NoErase,position=position
```

It looks like map_set (or actually map_grid) is making grid lines within the region specified by position, but is leaving room for some non-existent annotation and therefore becomes misaligned with respect to the co-ordinates established by CONTOUR.

How can this be done correctly? Should I be using MAP_PROJ_INIT?
