
Subject: Overlaying a coordinate grid on a contour plot
Posted by [sjklawik](#) on Wed, 17 Sep 2003 23:36:02 GMT
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Hello,

I have two semi-related problems.

Problem #1:

I am trying to make a contour plot of telescope results right around the North celestial pole. Right at the NCP this plot is really in polar coordinates of Right Ascension and Declination. When I attempt to use the procedure `Polar_contour` the edges of the map are spread out uniformly. The map really should look like a circular patch on the sky with a sawtooth irregular edge. The `polar_contour` procedure blurs the edge into a thinly sampled, smooth circle. Any ideas what could be happening?

To bypass this problem I have re-gridded my data into a square patch on the sky with dummy rectangular coordinates of row and column. When I plot this using the regular `Contour` procedure the map looks like I expect it to.

Problem #2: How can I overlay a labeled polar coordinate grid on top of the contour plot? (Over a plot created with `Contour` or `Polar_contour`?)

Thank you,
Slade

```
window, 4, xsize=700, ysize=700
```

```
CONTOUR, twodimvaluearray, levels= [{level value array}] ,  
background=133, charsize=2, color=030, /device, C_COLORS = [{color  
value levels}], TITLE=titlestring, XTITLE='Columns', YTITLE='Rows',  
ZTITLE='mJy', /isotropic, min_value=-380000.
```

```
window, 5, xsize=700, ysize=700
```

```
POLAR_CONTOUR, onedimvaluearray, onedimRAarray, (90.-onedimDECarray),  
levels=[{level value array}], background=133, charsize=2, color=030,  
C_COLORS = [{color value levels}], min_value=-380000, /device,  
background=133, /isotropic
```
