Subject: filled contour chart problems
Posted by psbeps on Tue, 15 Mar 2005 18:31:39 GMT
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I am having problems getting some filled contour charts of sea surface temperature to look right on a new Linux machine. They look fine on the old machine with the exact same program, and other types of contour charts on the new machine are fine. The old machine had IDL Version 5.3 and the new machine has IDL Version 6.1.

The contouring and filling is correct, and the graphic size is correct (the entire image size), but the graphic position and size of just the contoured area (without the color bar etc) is incorrect. I suppressed the lat/lon box using xstyle and ystyle=4 in the contour command since it does not line up with the (correct) lat/lon box from PLOT.

Also, I can't get it to do the contouring, grid lines, and continents all at once. I can either have it do just the continents and grid lines, or just the contoured part without continents or grid lines. When I take longitude and latitude off of the contour commands, the size changes, but is still wrong. When I try to have contouring and continents together, I get this error:
MAP_CONTINENTS: Map transform not established.
When I try to have contouring and grid lines, I get this error:
MAP_GRID: map_grid---Current ploting device must have mapping coordinates
It's as if it is not recognizing MAP_SET?
I can get it to draw solid grid lines using PLOT since MAP_GRID does not work (although I wanted dotted lines using MAP_GRID).
Any help in being able to solve these problems would be greatly appreciated. Sometimes I also get an underflow error but not always.

Jill

Here is the code:

```
MAP_SET, 0, plon0, /NOBORDER, COLOR=drawColor, $
        LIMIT=[lat_b,lon_b,lat_e,lon_e], $
        POSITION=position

contour, arr, levels=c_levels, $
      longitude, latitude, $
      /cell_fill, /closed, c_colors=c_colors, $
      position=position, $
      xstyle=4, ystyle=4, $
      min_value=ROUND(min_input), max_value=ROUND(max_input)
contour, arr, levels = c_levels, c_thick = .1,$
      longitude, latitude, $
```

```
        c_labels=c_labels, c_charsize=1.2, $
        min_value=ROUND(min_input), max_value=ROUND(max_input), $
        position=position, /overplot

; Draw the Continents.
if region EQ 'global50' then MAP_CONTINENTS, /COASTS, COLOR=drawColor
else $
if region EQ 'global100' then MAP_CONTINENTS, /COASTS, COLOR=drawColor
else $
if region EQ 'namerica' then MAP_CONTINENTS, /COASTS, COLOR=drawColor
else $
MAP_CONTINENTS, /CONT, /COUNTRIES, /USA, COLOR=drawColor

; Draw the grid lines.
MAP_GRID, color=drawColor, lons=lon_b, lats=lat_b, londel=londel,
latdel=latdel

PLOT, [lon_b, lon_e],[lat_b, lat_e], /NODATA, $
      XStyle=1, YStyle=1, Xticks=num_lon_labels-1,
Yticks=num_lat_labels-1, $
      POSITION=position, /NoErase, $
      title=title, xtitle=xtitle, Color=drawColor, $
      Charsize=char_size, $
      YTICKV=[lat_labels], XTICKV=[lon_labels], $
;      XTICKLEN=-0.01, YTICKLEN=-0.01
      XTICKLEN=1, YTICKLEN=1
```