
Subject: Polar contour on top of polar map ??
Posted by [meek](#) on Mon, 30 May 2005 15:59:02 GMT
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Please ! What is wrong with the the following program -
the polar map is fine, the contour is restricted by the
map limits, but is confined to less than half the
map area - a sector of about 60 degrees (terminated
at the pole, and with curved radii boundaries.)

I want the contour to overlay the map (or vice versa).

Thanks for any hint!

Chris

```
-----  
;polarma1.pro - fiddle with polar grid / contour  
pp=!pi/180.  
  
    print, '.ps (1) or screen(2)?'  
    read, isel  
    if isel eq 1 then set_plot, 'ps'  
    if isel eq 2 then set_plot, 'win' ;screen  
  
    !P.font=0  
    if isel eq 1 then device, /color, /portrait, yoffset=3., ysize=21., scale_factor=1 .0  
nlat=16 ;make this even!  
minlat=90-nlat*2.5  
along=fltarr(144)  
alat=fltarr(nlat)  
zzz=fltarr(144, nlat)  
for j=0, 143 do along(j)=pp*(j*2.5); azimuth, radians  
for i=0, nlat-1 do alat(i)=90-i*2.5 ;N lat  
for i=0, nlat-1 do begin  
    for j=0, 143 do begin  
  
        x= sin(2.*!pi*(i*2.5)/20.)  
        y= sin(2.*!pi*(j*2.5)/60. +4)  
  
        zzz(j,i)=100*(x+y)  
  
    endfor  
endfor  
  
map_set, /noerase, /isotropic, /continent, 90., /azimuthal, $  
/grid, londel=30, latdel=5, $  
pos=[0.01, 0.01, .99, .99], $
```

```
    limit=[minlat,-180.,90.,180.],$ latmin,lonmin,latmax,lonmax
    xmargin=0.,ymargin=0.
    rad=fltarr(nlats)
    for i=0,nlats-1 do $
        rad(i)=alat(i)

    polar_contour,/overplot,zzz,along,rad,$
        levels=[-100.,-50.,-0.,+50.,+100.]

    if isel eq 1 then close ; so i can get idl.ps without exit idl
end
```
