
Subject: RE: Polar contour on top of polar map ??
Posted by [meek](#) on Tue, 07 Jun 2005 07:19:44 GMT
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To answer my own question, in case someone else is interested ...

Using contour (not polar_contour) works; but to avoid a small gap, the i/p matrix should go 1 azimuth bin beyond 360 deg. Also , for contour, the azimuths should be in degrees.
Chris

In a previous article, meek@skyway.usask.ca wrote:

```
> 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 bondaries.)
>
> 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); azim, 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, loncel=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
```
