
Subject: Re: question for contour on a shpere
Posted by [kishore1818](#) on Thu, 07 Jun 2007 18:56:40 GMT
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On Jun 4, 8:24 am, y...@spaceweather.ac.cn wrote:
> Hi, could you help me?
>
> I want to plot contours on a sphere's surface, how to do it?
>
> My data is full three-dimensional, that is (r, theta, phi, Var)
>
> I attached one example with this email.

Hi Friend,

recently I plotted a contour on sphere. I used like this,
lvls1=(min(pv1)-10.)+findgen(20)*(max(pv1)+5.-min(pv1))/20.
;lvls1=fix(lvls1)
;clrs1=fix(5+findgen(20)*(264-0)/20)
clrs1=fix(2+findgen(20)*(255-0)/20)

x1=0.05 & x2=0.55
y1=0.5 & y2=0.9
limt=[15,0,90,360]
pos1=[x1,y1,x2,y2]
MAP_SET, /STEREO, 90, 0,limit=limt,position=pos1, \$
 /ISOTROPIC,/noborder,latdel=15,londel=30, \$
 TITLE='JRA-25 Potential Vorticity',charsize=1.0
CONTOUR, pv1, lon, lat,position=pos1,c_colors=clrs1,levels=lvls1, \$
 /OVERPLOT, /cell_FILL,/noerase,/follow

lons = [-180,-150,-120, -90, -60, -30, 0, 30, 60, 90, 120, 150, 180]
lonnames = strtrim(lons, 1)
MAP_GRID, limit=limt,latdel=15,lonalign=.5, \$
 londel=30,glinestyle=0,thick=1,label=2

MAP_CONTINENTS, limit=limt,thick=2,/label

;***temperature contour
tem1=smooth(tem1,10)
lvls2=190.+findgen(11)*(245.-190.)/11.
print,lvls2
ct_color
CONTOUR, tem1, lon,
lat,position=pos1,levels=lvls2,color=295,c_charthick=1.2, \$
 c_linestyle=(lvls2 lt 0.0),thick=5,c_charsize=1.2,/noerase,/follow,/overplot
