
Subject: Re: question for contour on a shpere
Posted by [kishore1818](#) on Thu, 07 Jun 2007 18:56:40 GMT
[View Forum Message](#) <> [Reply to Message](#)

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
```

```
limit=[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
```

```
Ions = [-180,-150,-120, -90, -60, -30, 0, 30, 60, 90, 120, 150, 180]
```

```
lonnames = strtrim(Ions, 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
```