Subject: 3d displaying with x=longitude, y=latitude, z=altitude, but not yet working (T_T)
Posted by kim20026 on Wed, 02 May 2007 12:57:02 GMT
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Good day, everyone. I would like to ask a question on 3d displaying.

I have this data file.

dat1.txt:
Sokcho 38.2500 128.5667 17.8
Cheorwon 38.1500 127.3000 154.2
Dongducheon 37.9000 127.0667 112.5
Daeguallyeong 37.6833 128.7667 842.5
Chuncheon 37.9000 127.7333 76.8

I read this file as follows.
readcol, 'dat1.txt', city, lat, lon, alt, format = 'A, 3F'

And then I am going to display these data into 3d.
x = lon,
y = lat,
z = alt

Based on the a procedure on www.dfanning.com, I tried this way below
but the results was not what I wanted to. Is there anyone to help
me?

Harry

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```
PRO SCATTER3D_altitude

  ; Read the data file.

readcol, 'dat1.txt', city, lat, lon, alt,  format='A, 3F7.2'
n=n_elements(lat)

vsym, 24 , /fill

  ; Load a color table and create colors for the scatterplot.

LOADCT, 38, NCOLORS=!D.N_COLORS-1
TVLCT, 70, 70, 70, !D.N_COLORS-1
zcolors = BYTSCL(alt, TOP=!D.N_COLORS-2)

  ; Set the 3D coordinate space with axes.
```

```
SURFACE, DIST(5), /NODATA, /SAVE, XRANGE=[125,132], $
   YRANGE=[33,39], ZRANGE=[0, 900], CHARSIZE=1.5, COLOR=!D.N_COLORS-2,
BACKGROUND=!D.N_COLORS-1, $

   ; Plot the random points in 3D space with a diamond shape.

PLOTS, lon, lat, alt, PSYM=4, COLOR=zcolors, /T3D

   ; Connect the data points to the XY plane of the plot.

FOR j=0, n-1 DO PLOTS, [lon(j), lon(j)], [lat(j), lat(j)], [0,
alt(j)], COLOR=zcolors(j), /T3D

END
```