
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

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, X RANGE=[125,132], $  
  Y RANGE=[33,39], Z RANGE=[0, 900], CHAR SIZE=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
```
