
Subject: Drawing map in 3D plot

Posted by [K. Bowman](#) on Fri, 25 Jun 2004 17:09:40 GMT

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I'm trying to draw a map underneath a simple 3D box plot (direct graphics).

Here's an example:

```
x = -180.0 + 360.0*RANDOMU(seed, 100)    ;Make some random data
y = -90.0 + 180.0*RANDOMU(seed, 100)
z =      1000.0*RANDOMU(seed, 100)
```

```
PLOT_3DBOX, x, y, z, $
  PSYM  = 3, $
  XTITLE = 'Longitude', $
  XSTYLE = 1, $
  X RANGE = [-180.0, 180.0], $
  XTICKS = 4, $
  XMINOR = 3, $
  YTITLE = 'Latitude', $
  YSTYLE = 1, $
  Y RANGE = [-90.0, 90.0], $
  YTICKS = 6, $
  YMINOR = 3, $
  ZTITLE = 'Altitude (hPa)', $
  ZSTYLE = 1, $
  Z RANGE = [1000.0, 0.0], $
  ZTICKS = 5, $
  ZMINOR = 2
```

```
MAP_SET, /T3D, /CONT, Z = 1000.0, /NOERASE, $
  LIMIT = [-90.0, -180.0, 90.0, 180.0], /NOBORDER, $
  POSITION = [!X.WINDOW[0], !Y.WINDOW[0], !X.WINDOW[1], !Y.WINDOW[1]]
```

Any idea why the Antarctic coastline is cut off? The gap appears to be related to the aspect ratio of the window. Try changing the shape of the window (either tall or wide) and rerun the commands above. Apparently, coastlines are not drawn close the bottom of the window.

This is in a new IDL session. I have not set any margins, etc. It happens with both the X and PS devices.

Any idea how to fix this?

Thanks, Ken Bowman

IDL Version 6.0, Mac OS X (darwin ppc m32).
