
Subject: Overlay Point Source Data on a Map --
http://www.idlcoyote.com/map_tips/ptsource.html
Posted by [Xiao Yu](#) on Sat, 21 Mar 2015 01:50:00 GMT
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Hello, all

My name is Xiao Yu. And I am a new IDL programmer.

I have similar case from Dr.David W. Fanning's website:
http://www.idlcoyote.com/map_tips/ptsource.html

I want to output my window display to a postscript file. However, the IDL always show me a error message as following:

% TVRD: Unable to read from current device: PS.

Data could be download at the end of web link http://www.idlcoyote.com/map_tips/ptsource.html as 'ptsource_carbon.sav'

This is main code that will shows display window:

PRO PointSourceOverlay

```
; Obtain the data: lat, lon, soilc.
```

```
Restore, File='ptsource_carbon.sav'
```

```
; Set up color model, open window.
```

```
cgSetColorState, 0, Current=currentState
```

```
cgDisplay, 600, 400, /Free, Title='Point Source Overlay on Map'
```

```
; Set up the soil carbon colors.
```

```
soil_colors = ['purple', 'dodger blue', 'dark green', 'lime green', $  
              'green yellow', 'yellow', 'hot pink', 'crimson']
```

```
TVLCT, cgColor(soil_colors, /Triple), 1
```

```
soilc_colors = BytScl(soilc, Top=7) + 1B
```

```
; Set up the map projecton data space.
```

```
cgErase
```

```
cgMap_Set, /Cylindrical, /NoBorder, /NoErase, $
```

```
Limit=[-60, -180, 90, 180], Position=[0.1, 0.1, 0.8, 0.9]
```

```
; Create a land mask.
```

```
cgMap_Continents, Color='black', /Fill
```

```
mask = TVRD()
```

```
; Plot only those points that are over "land".
```

```
dc = Convert_Coord(lon, lat, /Data, /To_Device)
```

```
indices = Where(mask[dc[0,*],dc[1,*]] EQ 0)
```

```
symbol = cgSymCat(15)
```

```
PlotS, lon[indices ], lat[indices ], PSym=symbol, $
```

```
Color=soilc_colors[indices ], SymSize=0.5
```

```
; Pretty everything up.
```

```
cgMap_Continents, Color='charcoal'
```

```
cgMap_Grid, /Box, Color='charcoal'
```

```
cgColorbar, /Vertical, Position=[0.87, 0.1, 0.9, 0.9], Bottom=1, NColors=8, $
```

```
Divisions=8, Minor=0, YTicklen=1, Range=[0,Max(soilc)], AnnotateColor='charcoal', $  
/Right, Title='Ton/ha', Format='(F5.3)'
```

```
; Switch back to color model in effect before we changed it.
```

```
cgSetColorState, currentState
```

END

Thanks in advance,

Xiao
