
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

Subject: Re: Overlay Point Source Data on a Map --
http://www.idlcoyote.com/map_tips/ptsource.html
Posted by [David Fanning](#) on Sat, 21 Mar 2015 02:07:00 GMT
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Xiao Yu writes:

```
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```

Download the code that you find here:

<http://idlcoyote.com/gallery/index.html#POINTSOURCE>

That will show you how to do this in PostScript.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")

Subject: Re: Overlay Point Source Data on a Map --
http://www.idlcoyote.com/map_tips/ptsource.html
Posted by [Xiao Yu](#) on Mon, 23 Mar 2015 02:54:15 GMT
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Dr.Fanning, Thanks a lot!!!
Xiao

On Friday, March 20, 2015 at 9:07:05 PM UTC-5, David Fanning wrote:

> Xiao Yu writes:
>
>> My name is Xiao Yu. And I am a new IDL programmer.
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>
> That will show you how to do this in PostScript.
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
> Sepore ma de ni thue. ("Perhaps thou speakest truth.")
