
Subject: Overlay Point Sources on Maps

Posted by [David Fanning](#) on Sat, 25 Nov 2006 17:49:28 GMT

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Folks,

I have been asked several times lately how to overlay point sources on map projections. I have written an article that explains how I would do it. You can find it here

http://www.dfanning.com/map_tips/ptsource.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Overlay Point Sources on Maps

Posted by [zhangxiangkun](#) on Tue, 28 Nov 2006 00:32:18 GMT

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Hi, David

I am also concerned with this problem. Thanks for your solution.

But I cannot get the ptsource_carbon.sav. The link is

ftp://www.dfanning.com/map_tips/ptsource_carbon.sav.

Is it right?

Xiangkun

Subject: Re: Overlay Point Sources on Maps

Posted by [David Fanning](#) on Tue, 28 Nov 2006 00:58:08 GMT

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zhangxiangkun@gmail.com writes:

> I am also concerned with this problem. Thanks for your solution.

> But I cannot get the ptsource_carbon.sav. The link is

> ftp://www.dfanning.com/map_tips/ptsource_carbon.sav.

> Is it right?

Yes, I just tried the link directly from your note. Works correctly for me. Are you trying to "save as" into a local IDL directory?

Cheers,

David

--

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Subject: Re: Overlay Point Sources on Maps

Posted by [David Fanning](#) on Tue, 28 Nov 2006 01:14:13 GMT

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zhangxiangkun@gmail.com writes:

- > I am also concerned with this problem. Thanks for your solution.
- > But I cannot get the ptsource_carbon.sav. The link is
- > ftp://www.dfanning.com/map_tips/ptsource_carbon.sav.
- > Is it right?

Hang on. Perhaps it is the FTP thing that is not working.
I've changed the link to HTTP in the article. That seems to work better

http://www.dfanning.com/map_tips/ptsource_carbon.sav

Cheers,

David

--

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Subject: Re: Overlay Point Sources on Maps

Posted by [greg michael](#) on Tue, 28 Nov 2006 19:37:33 GMT

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I spent a while messing around with griddata() before I realised you could do this:

```
restore,"ptsource_carbon.sav"  
device,decomposed=0  
loadct,39  
grid=fltarr(360,180)  
grid[lon+180,lat+90]=soilc  
tvsc1, grid
```

This particular dataset is simpler than I first thought - the points are already gridded at 1x1 degree. The odd thing is that many points are repeated (up to 8 times). The values, though, seem to be the same in these cases. In general I think a gridding approach is more robust for this type of problem.

regards,
Greg

Subject: Re: Overlay Point Sources on Maps
Posted by [David Fanning](#) on Tue, 28 Nov 2006 19:45:31 GMT
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greg michael writes:

```
> I spent a while messing around with griddata() before I realised you  
> could do this:  
>  
> restore,"ptsource_carbon.sav"  
> device,decomposed=0  
> loadct,39  
> grid=fltarr(360,180)  
> grid[lon+180,lat+90]=soilc  
> tvsc1, grid  
>  
> This particular dataset is simpler than I first thought - the points  
> are already gridded at 1x1 degree. The odd thing is that many points  
> are repeated (up to 8 times). The values, though, seem to be the same  
> in these cases. In general I think a gridding approach is more robust  
> for this type of problem.
```

Humm. Guess I should have realized this is possible, too.
It makes using the land mask a bit different.

Well, there are often several ways to skin this cat.

Cheers,

David

--

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