## 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 View Forum Message <> Reply to Message

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

--

David Fanning, Ph.D.

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Subject: Re: Overlay Point Sources on Maps Posted by David Fanning on Tue, 28 Nov 2006 01:14:13 GMT View Forum Message <> Reply to Message

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 View Forum Message <> Reply to Message

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 tvscl, 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 View Forum Message <> Reply to Message

## 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
- > tvscl, 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

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.")