
Subject: Find out which area is covered in a map plot
Posted by [M. Suklitsch](#) on Fri, 12 Mar 2010 15:28:20 GMT
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Hi, everybody!

Once in a while I run into the problem that I want to know which area is actually displayed in a map projection.

For example, I have a Lambert projection displaying Europe and want to plot wind barbs (using Coyote's WINDBARB routine) on top of it. Problem is, the wind data is on a regular grid, which means that at least in the corners (depending on the projection etc.) wind barbs outside the map get plotted (see <http://martin.suklitsch.at/img/1.1999051700.png> for an example of what I mean).

Therefore my question: is there a way to get the outermost lat/lon values of the projection? If I had this information I could use IDLgrROI to obtain the indices within my wind array which are located within the map, set all others to NaN and plot the barbs as usual....

Any help is appreciated!
Best regards,
Martin

Subject: Re: Find out which area is covered in a map plot
Posted by [David Fanning](#) on Mon, 15 Mar 2010 12:45:54 GMT
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M. Suklitsch writes:

> Thanks, David. Though I must admit it seems I have missed the spot
> where it says "using MAP_SET is bad". ;-)
>
> Anyway, there's obviously *no* easy way to get the information I need,
> that's the main message I get from your reply.

I don't think I said that. I think I said there is no easy way, given that I don't know anything at all about what command you used to set up the map projection. It may be as simple as reading the UV_BOX field of the event structure.

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: Find out which area is covered in a map plot
Posted by [David Fanning](#) on Mon, 15 Mar 2010 12:48:24 GMT
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David Fanning writes:

> I don't think I said that. I think I said there
> is no easy way, given that I don't know anything
> at all about what command you used to set up the
> map projection. It may be as simple as reading
> the UV_BOX field of the event structure.

Whoops! I mean "map structure", of course.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
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Subject: Re: Find out which area is covered in a map plot
Posted by [M. Suklitsch](#) on Tue, 16 Mar 2010 07:55:17 GMT
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On Mar 15, 1:48 pm, David Fanning <n...@dfanning.com> wrote:

> David Fanning writes:
>> I don't think I said that. I think I said there
>> is no easy way, given that I don't know anything
>> at all about what command you used to set up the
>> map projection. It may be as simple as reading
>> the UV_BOX field of the event structure.
>

> Whoops! I mean "map structure", of course.
>
> 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.")

OK, after having started two different replies I think I finally got your point. But I have to think it through more thoroughly. Thanks again!

Cheers,
Martin
