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Subject: IDL map\_set question

Posted by [Wayne Keith](#) on Tue, 13 May 1997 07:00:00 GMT

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I am fairly new to IDL and am having trouble with the map\_set function making an orthographic projection. I can do the default, but in the reference guide it says "If the keyword LIMIT is not set, the region of the globe mapped to the UV plane is the hemisphere around the center of the projection." I am doing a plot with the North pole centered and would like to limit the plot at 30deg, but I can't figure out how to make the LIMIT keyword work properly for this projection style. Following the reference guide directions for LIMIT I keep getting floating point errors. Can anyone help?

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Error message of the week: ...File not found. Should I fake it? (Y/N)  
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Subject: Re: IDL map\_set question

Posted by [wmc](#) on Wed, 14 May 1997 07:00:00 GMT

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In article ya023080001305971750250001@news.frii.com, davidf@dfanning.com (David Fanning) instructed:

> Wayne Keith <waynek@spacsun.rice.edu> enquired:

>> I am fairly new to IDL and am having trouble with the map\_set function  
>> making an orthographic projection.  
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>> reference guide directions for LIMIT I keep getting floating point  
>> errors. Can anyone help?

> Polar orthographic? Auh, oh.

> I tried this and didn't get any errors:

> IDL> Map\_Set, /Ortho, 90, 0, /Grid, /Cont, Limit=[30,-180, 90, 180], /Label

This works for me too (of course it does, it comes from DF ;-). You might want to add /iso, too).

However, your problem with FP errors is familiar... I have a slight feeling that is sometimes occurs when you get the SWNE the wrong way round in the limit variable... but I can't reproduce it just now...

...Haha, yes I can. Actually it seems to occur if you make S and N the same. Look:

```
wmc> Map_Set, /Ortho, 90, /Grid, /Cont, Limit=[80,30, 80, 90], /Label,/iso  
% Program caused arithmetic error: Floating illegal operand
```

However, this is not a sensible thing to do...

- William

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