
Subject: Re: Map spanning Dateline?

Posted by [Martin Schultz](#) on Wed, 03 Feb 1999 08:00:00 GMT

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John Kwiatkowski wrote:

>
> I can't figure out how to draw a map that spans the International
> Dateline, i.e., the meridian where longitude is 180 (or -180).
>
> If I go right up to the dateline but not over it, I get a nice map
> including Japan:
> map_set,/grid, /continent,limit = [0,100,50,180]
>
> However, if I cross the dateline I get some gridlines but no Japan:
> map_set,/grid, /continent,limit = [0,100,50,-160]
>
> If I use the limit keyword with 8 elements, either
> map_set,/grid, /continent,limit = [50,100,50,-160,0,-160,0,100] or
> map_set,/grid, /continent,limit = [0,100,50,100,50,-160,0,-160]
> I get a blank window.
>
> Also, I can't seem to get the limit (4 element) keyword to behave.
> For example , if I want a map of Florida limit =[20,-88,30,-80]
> map_set,limit=[20,-88,30,-80],/cont,/label
>
> I get a map from 20 to 26 lat and -88 to -82 lon. How can I force it
> to listen to my limits?
>
> Thanks for any help,
> John Kwiatkowski

Oh yeah! My fun subject ;-)

You'll need to set the map origin somewhere within your LIMITs and make sure that limit is monotonically increasing. Example:

```
map_set,0,175,limit=[-50,140,50,210]
```

that should work.

BTW: If you are planning to overlay contours on your map: make sure your data is sorted correctly and within your map range. This has caused so much trouble already ...

Martin.

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