
Subject: Re: Horrible map reprojections

Posted by [Martin Schultz](#) on Thu, 07 Sep 2000 11:01:20 GMT

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Ben Marriage wrote:

>
> Hi all,
>
> IDL> print,!VERSION
> { x86 linux unix 5.3 Nov 11 1999}
>
> I'm trying to set up a particular map reprojection, and get some rather
> horrible results. Can somebody try this on their machine to see if it is
> reproducible please?
>
> window,0,xs=1000,ys=300
> map_set,0,180,0,limit=,xmar=0,\$
> ymar=0,noborder=1,/grid,clip=0,/iso,/mercator
> map_continents,/hires
>
> One effect is that the reprojection does not extend all the way to the
> right hand side of the plotting area (should be 0 deg long, instead it
> is about -10 deg long). Another problem is this produces lines cutting
> across the window (caused by the map_continents part).
>
> This is only part of the problem, when trying to contour some data using
> a similar reprojection, I get lines cutting across the contour plot. I
> thought it might be a missing data problem, so set all missing data to
> !VALUES.F_NAN. No difference.
>
> Has anybody else had a similar problem/solution?
>
> Thanks,
> Ben

There are two things wrong here:

- (1) make sure that the "center" longitude is at the center of your LIMIT (or at least within and not at the border)
- (2) you can get rid off the silly lines if you omit the clip=0 keyword.

The following looks ok to me (same version and platform as you have):

```
map_set,0,180,limit=[-30,0,30,360],xmar=0,$  
  ymar=0,noborder=1,/grid,/iso,/mercator  
map_continents,/hires
```

Cheers,

Martin

--

```

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```
