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Subject: Re: Horrible map reprojections

Posted by [Liam E. Gumley](#) on Thu, 07 Sep 2000 14:21:27 GMT

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Ben Marriage wrote:

```
> 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=[-30,-180,30,180],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).
```

I prefer to use the MAP\_SET keyword SCALE to create map projections which fill a window:

```
window, /free, xsize=1000, ysize=300
map_set, 0, 180, xmargin=0, ymargin=0, scale=165e6, /mercator
map_continents
map_grid, /label
```

```
> 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.
```

It might be an artifact of the projection. Try it again using the projection I suggest above.

Cheers,

Liam.

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