
Subject: Re: Fast Filled Contour Plots

Posted by [lecacheux.alain](#) on Tue, 17 Apr 2012 22:18:54 GMT

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On 17 avr, 21:33, David Fanning <n...@idlcoyote.com> wrote:

> As I was working on this, Chris Torrence graciously supplied
> some IDL 8.x code to do the same thing. I've included the
> code Chris sent me in the article. Unfortunately, it
> probably does more to expose the limitations of the new
> function graphics system than it does to illuminate the
> features. But, perhaps I have done something wrong. If
> anyone has suggestions (Alain?) for how I can fix this,
> I am all ears.

Your welcome, David.

The problem in Chris Torrence's code comes from the fact that the longitude range in MAP_CONTINENTS is -180°,180° by default, while you are using 0°,360° in your example. The trick would be to overplot a suitable map over your image:

```
im = IMAGE(scaledData, x, y, RGB_TABLE=rgb, XRange=xrange,  
YRange=yrange, GRID_UNITS='degrees', POSITION=[0.1,0.1,0.9,0.9])  
mp = map('EQUIRECTANGULAR', LIMIT=limit, LABEL_POSITION=0,  
POSITION=[0.1,0.1,0.9,0.9], /CURRENT)  
mc = MapContinents(FILL_COLOR=!COLOR.DARK_GRAY, LIMIT=limit)
```

Everything is now correctly clipped and displayed, including the grid overlay.

Note the use of FILL_COLOR instead of COLOR to get continents of the right color.

There is no bug here, just tricky usage of partly (un)documented keywords...

alx.
