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Subject: Re: expanded area is shown when trying to plot an image on a map

Posted by [David Fanning](#) on Wed, 26 Oct 2011 22:40:26 GMT

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Zhang Bo writes:

```
> I have a north hemisphere 2D concentration array. 360*90
> I set up a map
> map_set, /mercator, 0, -50, limit = [ymin, xmin, ymax, xmax], $
>   color = cgcolor('black'), $
>   position = [xregion(0), yreg_bot(0), xregion(1), yreg_bot(1)], $
>   charsize = 1, /noerase
>
> I warp the image
> new_img = map_image(img, startx,starty,/BILINEAR, /WHOLE_MAP, $
>   latmin = 1, latmax = 90, lonmin = -179, $
>   lonmax = 180, compress = 1)
>
> and then I show the image
> TV, new_img, startx,starty
>
> My problems are:
> 1 Since I have a color bar to show, I squeeze the map by setting
> posiont in map_set. However, the img shown by TV does not squeeze.
> 2 Although I set up start position for TV, data are shown outside the
> map area and overlap with plot title.
> Basically I am asking when you have a global data set, how to plot the
> data any place you want to zoom in and also make sure the data align
> with the lat-lon postion correctly.
```

I would say, use Coyote Library routines. :-)

For example, cgImage honors the Position keyword:

```
cgImage, new_image, $
    Position=[xregion(0), yreg_bot(0), xregion(1), yreg_bot(1)]
```

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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