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

Posted by [Zhang Bo](#) on Wed, 26 Oct 2011 22:27:46 GMT

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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.

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