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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

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

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

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

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

Posted by [Zhang Bo](#) on Wed, 26 Oct 2011 23:16:40 GMT

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On Oct 26, 6:40 pm, David Fanning <n...@dfanning.com> wrote:

> 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], \$

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>> position = [xregion(0), yreg\_bot(0), xregion(1), yreg\_bot(1)], \$

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>> position in map\_set. However, the img shown by TV does not squeeze.

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>> with the lat-lon position 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

> --

> David Fanning, Ph.D.

> Fanning Software Consulting, Inc.

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

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

Thanks, again! David. Coyote Library fixes problem as usually.

I was hesitated to use Coyote Library when the build-in function

works, but it seems it's better to be familiar with it as earlier as better.

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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 23:51:47 GMT  
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Zhang Bo writes:

> Thanks, again! David. Coyote Library fixes problem as usually.  
>  
> I was hesitated to use Coyote Library when the build-in function  
> works, but it seems it's better to be familiar with it as earlier as  
> better.

You know, most of these graphics problems have been solved now. I really don't understand people who insist on working with brain-dead IDL commands like TV and Contour. But, I guess some people just enjoy the pain. :-)

Cheers,

David

--

David Fanning, Ph.D.  
Fanning Software Consulting, Inc.  
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>  
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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Subject: Re: expanded area is shown when trying to plot an image on a map  
Posted by [Zhang Bo](#) on Thu, 27 Oct 2011 04:37:55 GMT  
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On Oct 26, 7:51 pm, David Fanning <n...@dfanning.com> wrote:

> Zhang Bo writes:  
>> Thanks, again! David. Coyote Library fixes problem as usually.  
>  
>> I was hesitated to use Coyote Library when the build-in function  
>> works, but it seems it's better to be familiar with it as earlier as  
>> better.  
>  
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> Cheers,  
>  
> David  
>  
> --  
> David Fanning, Ph.D.  
> Fanning Software Consulting, Inc.  
> Coyote's Guide to IDL Programming:<http://www.idlcoyote.com/>  
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

I learn IDL mostly by reading pros from old people who work in my field. So I got the idea kind of out of date. I wish I had somebody could tell me this when I started IDL.

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