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 consentration 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.")

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.