Subject: Fitting a map to an image Posted by Sean Raffuse on Thu, 06 Jun 2002 20:59:16 GMT View Forum Message <> Reply to Message

Hello.

I have an image of known size and flat geocoordinates. I want to overlay the US states vector in a display window on top of the image. My problem is that I cannot get the two to match up properly. There seems to be a border on the vector, but the image draws to the edge of the window. I tried using the noborder keyword on my call to map_set and also tried setting the !x and !y margins to zero. No luck. Can you help? Here is the relevant code. . .

```
;set margins to zero
x_margin = !x.margin
y_margin = !y.margin
!x.margin = [0,0]
!y.margin = [0,0]
;write output to screen
Device, decomposed=0
image = reverse(InArray1, 2)
LoadCT, 40
scaledImage = bytscl(image, Min=0, Max=0.5, Top=255)
window, 0, xsize=nscans, ysize=nlines
TV, scaledImage
;setup the map
xspan = pixelsize*nscans
yspan = pixelsize*nlines
upperleftlat = mc[3]
upperleftlon = mc[2]
lowerlat = upperleftlat - yspan
rightlon = upperleftlon + xspan
map set, limit=[lowerlat,upperleftlon,upperleftlat,rightlon], /noborder,
/noerase
map continents, /usa, color = 254, mlinethick=2
;write to jpeg
image = tvread(filename=out_name, /JPEG, /nodialog, Quality=100)
***thanks to David Fanning for the tyread procedure***
-Sean Raffuse
```

Subject: sec: U Re: Fitting a map to an image Posted by Andrew Cool on Thu, 06 Jun 2002 23:22:13 GMT

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```
Sean Raffuse wrote:
```

```
> Hello.
```

- > I have an image of known size and flat geocoordinates. I want to overlay
- > the US states vector in a display window on top of the image. My problem is
- > that I cannot get the two to match up properly. There seems to be a border
- > on the vector, but the image draws to the edge of the window. I tried using
- > the noborder keyword on my call to map_set and also tried setting the !x and
- > !y margins to zero. No luck. Can you help? Here is the relevant code. . .

I may as well throw in the example...

PRO USA

```
Device, decomposed=0
```

```
window
LoadCT, 40
!P.position=[0.1,0.1,0.9,0.9]
lowerlat = 25
upperleftlat = 50
upperleftlon = 360-140
rightlon = 360-60
```

```
LONMIN = upperleftlon,$
LONMAX = rightlon,$
COMPRESS = 1)
```

TV, BYTSCL(geo_warped_image), startx,starty,/device

```
map_continents, /usa, color = 200, mlinethick=2
MAP_GRID,/BOX,color = 200
```

END

Andrew D. Cool .->-. Electromagnetics & Propagation Group

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Please remove the crap from my email address to reply ;-)

Subject: Sec: U Re: Fitting a map to an image Posted by Andrew Cool on Thu, 06 Jun 2002 23:30:33 GMT View Forum Message <> Reply to Message

Sean Raffuse wrote:

>

- > I don't know if this is unwise, but I don't want to warp the image any. It
- > has already been georeferenced once using ENVI. All I need is a window and
- > map setting that matches the image, which has defined size and
- > geocoordinates with geographic lat/lon projection. I'd rather warp the map
- > then the large image.

>

> -Sean

Well, I'll shut then, and leave it to the satellite guys out there.

But 3D into 2D doesn't normally go without something getting warped along the way.

Andrew

Andrew D. Cool .->-

Electromagnetics & Propagation Group '-<-'

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