## Subject: Re: U Re: Fitting a map to an image
Posted by Sean Raffuse on Thu, 06 Jun 2002 23:06:24 GMT

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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


"Andrew Cool" <andrew.cool@dsto.defence.gov.au> wrote in message
news:3CFFE54D.EFC98763@dsto.defence.gov.au...
> 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.
. .
>>
>> ;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 tvread procedure***
>>
>>  -Sean Raffuse
>
>  Sean,
>
>  I'd say there's no way that you can just TV an image and *then*
>  call MAP_SET to define the geographic data space!
>
>  Try along the lines of :-
>
>  1. Map_set .. blah,blah
>  2. geo_warped_image = Map_image(image,.. blah,blah)
>  3. TV, geo_warped_image, xpos,ypos.. blah,blah
>       3. map_continents, /usa, color = 254, mlinethick=2
>
>
>  Andrew
>
>  ------------------------------------------------------------ --------------
---
>  Andrew D. Cool            .->-.
>  Electromagnetics & Propagation Group          '-<-'
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>  Please remove the crap from my email address to reply ;-)
>  ------------------------------------------------------------ --------------
---
```