

---

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(lnArray1, 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

---