
Subject: Re: Georeferencing Errors

Posted by [Kelly Dean](#) on Thu, 04 Nov 2004 05:21:49 GMT

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You are on the right track, but try this instead...

TVscl, MAP_PATCH(z, lon, lat, missing=-9999, XSTART=x0, YSTART=y0), x0, y0

This will allow your image to be placed in the same location as your map. So there is no need to add XMargin=0 and YMargin=0 parameters in the MAP_SET declaration.

Kelly Dean
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Will McCarty wrote:

```
> OK, I've posted on this before, and this time I'm using a bit of a
> more common dataset (GTOPO30 terrain elevation), but getting similar
> geolocation errors. Thus I'm interested in seeing what (if anything)
> you guys can come up with. I use the following code:
>
> --test_lat_lon.pro
> ulx = -99.99583333333334
> uly = 39.99583333333333
> dx = 0.008333333333333
> dy = 0.008333333333333
>
> lat = fltarr(4800,6000)
> lon = lat
> for i = 0, 4799 do begin
>   for j = 0, 5999 do begin
>     lat[i,j] = uly - dy*j
>     lon[i,j] = ulx + dx*i
>   endfor
> endfor
>
> openr,1,'W100N40.DEM'
> z = intarr(4800,6000)
> readu,1,z
> close,1
>
> z = swap_endian(z)
> map_set,mean(lat),mean(lon),/cylindrical,limit=[min(lat),min (lon),max(lat),max(lon)],/noborder
>
> rmz = map_patch(z,lon,lat,missing=-9999)
> tvscl,rmz
```

> map_continents
> end
> ---end
>
> to put the topographic info to a projection. The result is at
> <http://vortex.nsstc.uah.edu/~mccarty/georef-err.png>. Clearly there
> are some georeferencing errors. I've tried both idl 5.6 (my normal
> version) as well as 6.0. Similarly, I've tried multiple projections.
> I've got some theories, but i'm looking to the experts on this one.
>
> Thanks for any help you folks can provide.
>
> Will
