
Subject: Re: Georeferencing Errors

Posted by [K. Bowman](#) on Tue, 02 Nov 2004 20:07:37 GMT

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In article <ce4903f3.0411021020.112e251f@posting.google.com>, will.mccarty@msfc.nasa.gov (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 = -99.995833333333334  
> uly = 39.995833333333333  
> 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
```

I don't have the data set, but you might try

```
ulx = -99.995833333333334D0  
uly = 39.995833333333333D0  
dx = 0.008333333333333D0  
dy = 0.008333333333333D0
```

```
lat = DBLARR(4800,6000)
```

As it is, you are not getting the precision you think you are.

Or, it might be a pixel corner/center thing.

Ken Bowman
