
Subject: Georeferencing in ENVI

Posted by [glinka](#) on Mon, 26 Nov 2001 16:53:48 GMT

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First I would like to thank Chris Jengo and Logan Lindquist for providing insight to my last question. I am an obvious beginner at this, so help is always very much appreciated.

I have been using ENVI 3.4 to georeference Landsat 7 TM+ imagery using 1:50 000 scale NTS mapsheets in UTM zone 12 with Nad27 datum. I warped the image in the first degree polynomial using nearest neighbor resampling (my RMS error was 1.5). Here's the issue. When I go back and compare the NTS mapsheets to my newly warped image the areas on the NTS map and on the image don't line up. I checked a few locations and they're off anywhere from 1 to 9 pixels in either the x or y direction (I used the cursor location indicator). I would chalk this up to extremely poor georeferencing, but when I go back to the original image and enter the Northing and Easting for the point that was off by 1 (x) and 9 (y) the RMS error for this point was shows to be about 1.3 with relatively even errors in x (0.4) and y (0.8). I would have expected the RMS error for this one point to be large indicating that my georeferencing was poor, but I'm not sure what this is telling me. Does anyone know why this is happening? I am apt not to trust the location idicator, but then I don't know how to enter training areas for a classification nor will I understand the accuracy of my data. I'm confused!

Thank you in advance,
Kristen Glinka
