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Geog 577 Advanced Remote Sensing
Spring 2007
Due: 5pm March 1, 2007

Lab 3 Geometric Rectification

This file, the Imagine project files (.lap) and the image summary files are all located in my students2 folder. I haven't deleted the pyramid files yet; this could be done to free up more disk space if necessary.

1) Time spent registering each image:

Images done: B011.tif~H011.tif. Each image took about an hour to select geometric control points (GCPs) and to resample the image for rectification. However, there were these exceptions:

B011 – This was my first image done, and it took 2 hours (had problems finding reference points in the right side of the image, and getting errors below 10. Then when I got the output image, everything looked unacceptably shifted from the reference image, so I had to redo the GCPs.)

G011 – took the longest. Redid the GCPs 4 times, and still couldn't get the roads on the right side of the image to overlap perfectly. There were so few areas that hadn't changed between the two images that it was very difficult to find places that remained the same.

H011 – I thought the last one took a long time, but this one took even longer. I spent a total of 5 hours on this one, just trying to get the error under 10%. Like the previous image, this one also had few areas that remained the same between the two images, which limited the location of GCPs. This must be a warped image, because when most points match up well, there are one or two points that do not.

2) Image summary files:

The summary files are in my student directory (students2).