<div align="center">

Exercise #4B

Subsetting an Image

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Objective

- **To define a portion of an image and store it as an *Imagine* file.**

You will now create a subset of the your image to save as a new file for classifying. Choose an area from the Los Angeles image (los_angeles_890628_7_band.img) or your downloaded image that you are familiar with for your subset.

Subsetting an Image

This is useful when you are only interested in a portion of the full image. It is much more time and space efficient to save that portion of the image to its own file for manipulation.

Open the Landsat image file (.img file) in the Viewer. Zoom in to get a clear view of the area you wish to create a new (subsetted) image of. You will outline this area with a rectangle. On the Viewer toolbar select Utility -> Inquire Box. A rectangle will appear in your viewer. You can move and resize the box by dragging the sides. Place it and size it over the area you wish to subset. Select Interpreter -> Utilities -> Subset. On the Subset window select the correct Input File (<yourfile>.img). Under Output file, go to the same folder and then enter an appropriate file name for the area you have chosen (eg. los_angeles_subset). Click on the box labelled "From Inquire Box". This will change the upper and lower right and left coordinates to reflect the area you have defined within your box. Then click OK. Your output file (<your_file>_subset) will be created.

Helen Cox, Jan 10, 2008