

GEOG357 Update, Nov 26 2020

Today's Lab: finish extracting your area – keep the extent manageable if you can to avoid having to pan; continue with data enhancement (see below)

Friday: course summary/review, RS software; second exam tips; other notices

Monday: Roger returns ungraded assignments / reviews (yes, really !)

Wednesday: second exam (similar format to midterm)

Thursday: last lab, tips on project report; demos by anyone unable to attend Friday

Friday: class project demos ~ 4 minutes each – format outlines in class (Nov 27) e.g. 3-4 slides: area overview, (vector) results so far; expected final results

Questions ?

Project tips:

Subset area might ideally be ~ 1000-1600 x 800-1200 pixels (with exceptions) - *see also pansharpen below*

For higher res. / smaller areas consider: a. Sentinel (10m)
b. pansharpen Landsat 8 (15m) etc..

Pansharp is usually applied to Visible bands, but one could also experiment with 654 combo.

As a minimum the pansharpened result can be used for final display if not analysis

Remember – all new channels / bitmaps / vectors should be in the same .pix file as the bands

Let me know soon if you plan to use / need a DEM – all BC are in: L:\data\dem25m_utm folder .. but may need some conversion for input into .pix files

Project models as a guide (but may vary)

Essentially you are completing an extended lab, from the start by downloading image data, and write-up/report

1. Preliminary unsupervised classification followed by Supervised classification with accuracy assessment (more than the quick one we did in lab); extraction of a selected class(es) to vectors, with area calculation.

2. Use of thresholding (or classification) to extract selected features, smooth, vectorise and calculate area .. e.g. fires, glaciers, alpine areas etc..

3. Use of 2 or more images to quantify change (we only visually compared in the change assignment). This could involve comparison/subtraction of two indices or classifications – I mentioned the ‘matrix’ task in class, but use only if it really appeals to you.

All: final output of selected vector features overlain on original image. More details on final output coming next week, with a sample from previous years. -see also lab 10