

GEOG457 PROJECT 2016: 25%

Purpose: to apply some of the techniques learned during the course, on an area of interest

The project could focus on any part(s) of the course

Default template in the absence of other schemes:

- Download a Landsat 8 scene for an area of interest
- Subset a manageable area - I usually suggest ~ a screen display (~1800 x 1200): this avoids panning and zooming and focuses on data processing.
- Apply data fusion / pansharpening to enhance resolution - note that if the PAN band is 1800 x 1200, then the corresponding MS bands are 900 x 600.
- Apply enhancement / classification to highlight features of interest
- Include DEM / DEM channels as appropriate
- Generate 3D image - using Geomatica, ArcScene, QGIS or Terrain Bender
- Submit images and explanatory text as document - summary, geographic area/data, methods, results, images selected, conclusions.
- Other data: MODIS, RADAR, Hyperspectral, Planetary, SPOT (2005-10)

Further possibilities based on this week's Google Earth Engine lab ...

Notes: other data available: PG LiDAR, ALRF LiDAR and High-res photography, RapidEye 5m 2013 data for Mt. Robson Park and PG.