

GEOG457 Advanced Remote Sensing Winter 2016

DEM assignments: Geowall and Terrain Bender (10%)

Assemble a DEM and imagery for the same area using the Terrain Bender software to depict in pseudo-3D (perspectives on lab machine), and on the Geowall in 'true 3D'

We recommend ~ 2000 x 2000 pixel area; TerrainBender has a 4000 x 4000 pixel limit ?

The area could be anywhere - available DEMs will be described in class lectures; SPOT imagery is available for Canada on *geobase.ca* (10/20 metres res) or Landsat globally from *earthexplorer.usgs.gov*

A. Terrain bender

Using the same data assembled for the Geowall, generate and capture as .jpg, two images from TerrainBender as shown in the lab, with perspective selected to best illustrate the qualities of your area.

- a. Hypsometric image with hillshading (topographic)
- b. Texture image (Landsat etc..) draped on the DEM – check for enhancements

Include a page description with any extra issues on data preparation, written such that another could repeat your work - feel free to use bullet format, list data sources.

Evaluation based on description and images (open office or word document): **Mar 22**

B. Geowall

Assembled layers are formatted and displayed using ArcScene, for presentation on the Geowall. Selected vectors could also be included, but not required.

One page description of the process and any data gathering issues not already discussed in a. above. Include any summary conclusions on the value of this medium for these data (compared to normal screen display)

Evaluation based on brief presentation on the Geowall: **Mar 22 or 23**