

## Purpose

- To provide high spectral and spatial resolution hyperspectral image examples of British Columbia mineral exploration and mining sites to facilitate the evaluation of this technology by the general exploration community.
- To collect hyperspectral imagery over a variety of mineral • deposit types and exploration terrains.
- To provide web-based access to the imagery for downloading and on-line preliminary analysis.
- To provide additional web-based analysis tools for use with hyperspectral imagery and include common spectral libraries to the analysis process.

## Hyperspectral Imagery by SpecTIR, LLC

### Instrument: AISA DUAL (Eagle and Hawk sensors) Collection by Terra Remote Sensing Inc. for SpecTIR

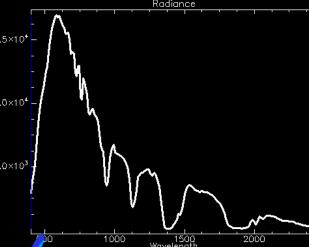


- 178 bands .4 .97 & .97- 2.45 nm
- 296 pixels wide
- 1.5 metre GSD/pixel, 1155 AGL
- Pushbroom array sensor
- Flown with LiDAR
- August 1, 2007

### Image Cube

Spectral Resolution: 9.1 – 12.6 nm Spatial Resolution: 1.5 metres Atmos. Correction: ATCOR4 Orthorectification: GLT (Geographic ookup Table) UTM zone 10, WGS 84

Radiance Spectrum

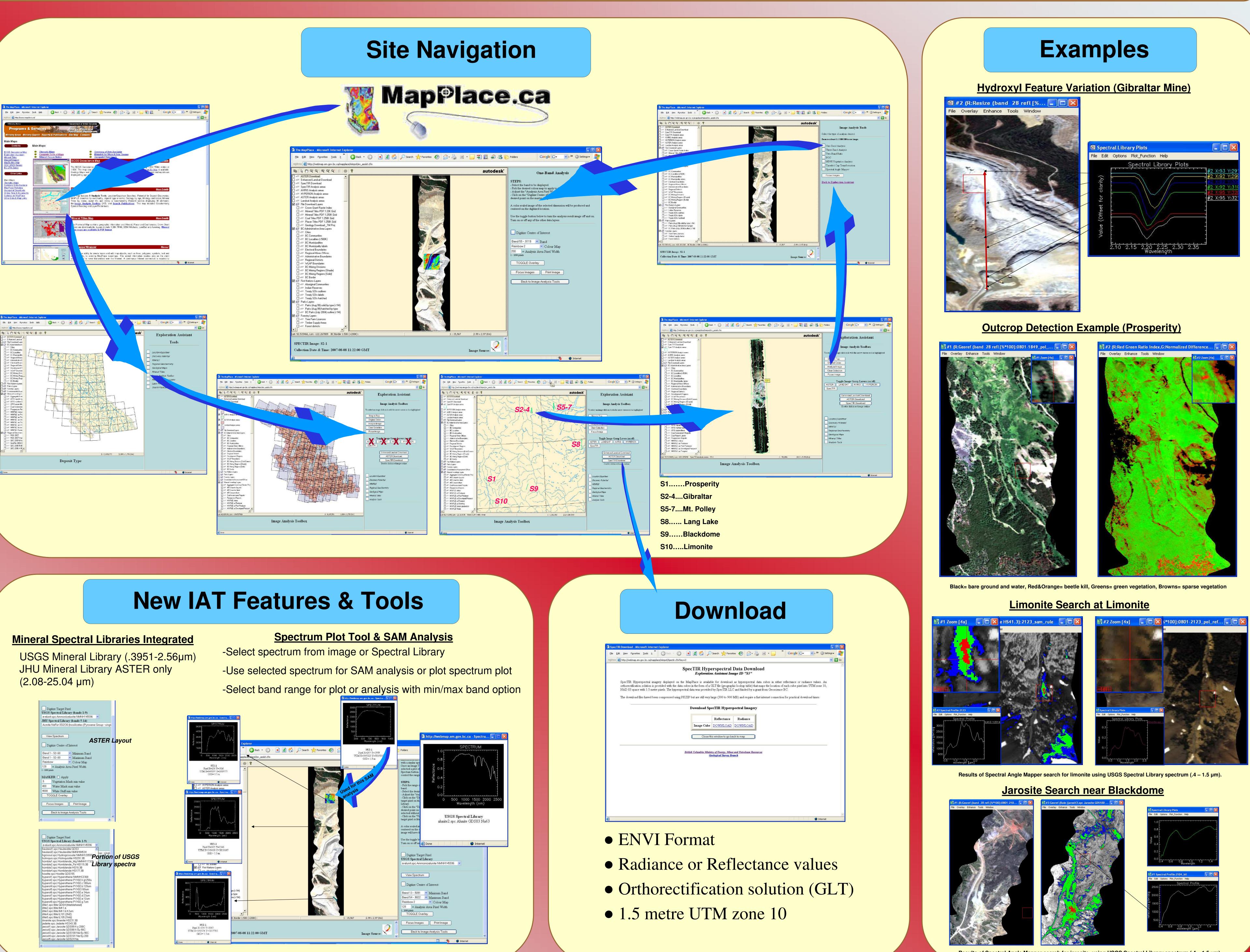




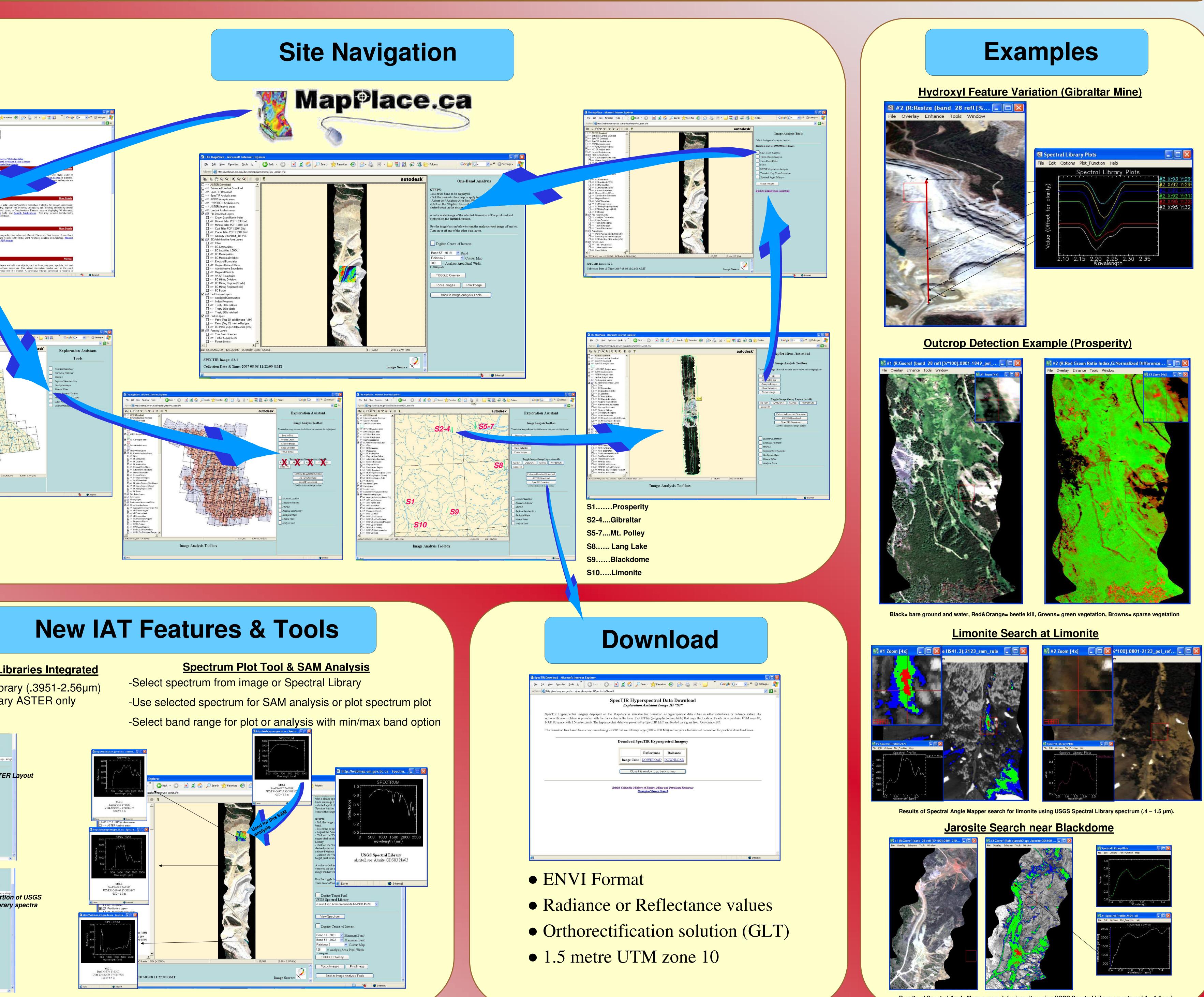
Reflectance Spectrum

## **BC Hyperspectral Imagery Demonstration Project – On The MapPlace**

## Ward E Kilby & Caleen E Kilby



JHU Mineral Library ASTER only (2.08-25.04 µm)





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Results of Spectral Angle Mapper search for jarosite using USGS Spectral Library spectrum (.4 – 1.5 µm).