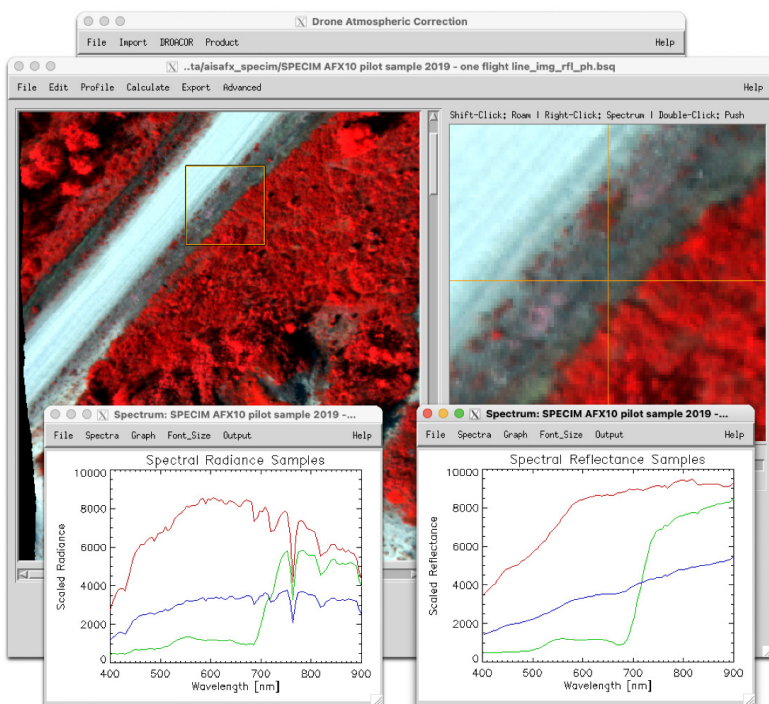


Drone Atmospheric Correction

A new generation for reflectance retrieval from UAV based imagery designed for hyper-spectral and multispectral instruments. Automatic directory based processing, fully physical self-adjusting calculation.



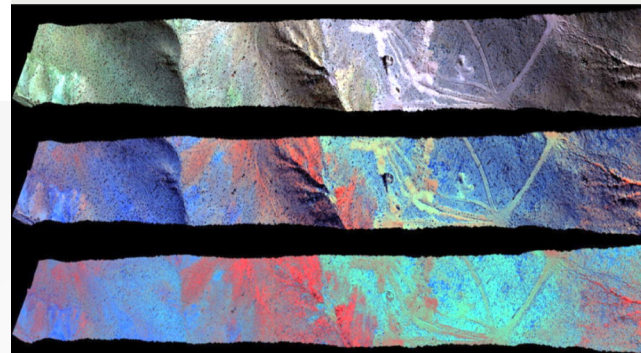
*DROACOR spectral reflectance retrieval from AISA FX imagery
(data courtesy of Specim Inc, Finland)*

Fully Featured

- Automatic physical reflectance retrieval method,
- LibRadtran radiative transfer model based atmospheric parameters,
- Inflight radiometric calibration,
- Specific low flight altitude adjacency irradiance correction,
- Self-calibrating reflectance retrieval using image statistics,
- Spectral calibration for VNIR and SWIR using oxygen band positions,
- Water vapor retrieval by spectral fitting technique
- Aerosol optical thickness estimate by enhanced dark object method, and
- Adaptive atmospheric feature treatment and spectral polishing.

ADVANCED TOOLS

- Below-cloud reflectance retrieval,
- Ground based/horizontally acquired data correction,
- Mosaic cloud de-shading and BRDF correction,
- Multi-file multi-index vegetation index calculation,
- Spectral angle mineral mapping,
- Thermal Infrared data processing,
- Topographic illumination correction based on digital surface model input, and
- Built-in GLIMPS image analysis tool.



*DROACOR mineralogy results for Cuprite Nevada. NEO Hypspx Mjolnir
VS-620 scene - data courtesy of Echo Labs Inc, Canada.*

EASE OF USE

DROACOR® can be used out of the box for supported sensor systems (see below). The mostly automatic data import and pre configured atmospheric correction makes it usable without expert knowledge about atmospheric compensation.

SUPPORTED SENSOR SYSTEMS

Automated data import and data processing is supported for:

- Hyperspectral: NEO Mjolnir, Specim AISA, Headwall Hyperspec, Reson Pika, Corning Shark.
- Multispectral: Micasense RedEdge, DB2 Laquinta, Standard RGB TIFFs
- .. more systems and thermal sensors upon request.