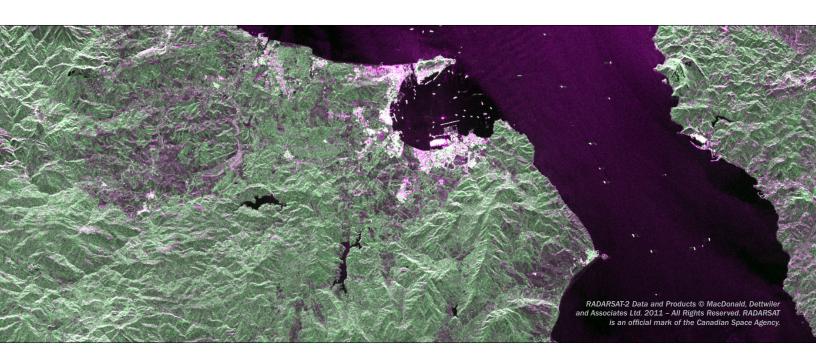
SOCET GXP° AT-A-GLANCE

SYNTHETIC APERTURE RADAR (SAR) CAPABILITIES



ANAMORPHIC CORRECTION

 Toggles square pixels for Sensor Independent Complex Data (SICD)

AUTOMATIC APPLICATION OF ENHANCEMENTS BASED ON IMAGE AND SENSOR TYPE

CHANGE DETECTION

Two-color multi-view (2CMV)

COLORIZATION

Customizable look-up tables

COMPLEX DATA VISUALIZATION

- Allow real-time switching to view phase, inphase (I), and quadrature (Q) data
- Convert I and Q values to magnitude on the fly
- COSMO-SkyMed complex (HDF5)
- RADARSAT-2 complex (TIFF)
- RISAT-1 complex (CEOS)
- Sentinel-1A complex (TIFF)
- SICD
- TanDEM-X complex (COSAR)
- TerraSAR-X complex (COSAR)

ORTHO-ON-THE-FLY

 Works for complex, detected, and derived products

ORTHOPHOTO GENERATION

- Customizable seamlines
- Orthomosaics

POLARIMETRIC COLOR COMPOSITES

POLARIMETRIC DECOMPOSITIONS

- Accomplished using band math functionality
- Pauli decompositions

RIGOROUS SAR SENSOR MODELS

- COSMO-SkyMed
- COSMO-SkyMed complex
- RADARSAT-1
- RADARSAT-2 complex
- RADARSAT-2 north aligned
- RADARSAT-2 orbit aligned
- Sentinel-1A complex
- Sentinel-1A GRD
- TanDEM-X complex
- TerraSAR-X
- TerraSAR-X complex

SLANT TO GROUND PLANE TOGGLE

- Enabled for all complex data

SUB APERTURE STACK

- Anamorphic correction toggles square pixels for all output frames
- Color composite sub aperture stack generation
- Configurable number of output frames
- Customizable animation rates for visualizing stack as a movie

TERRAIN EXTRACTION FROM STEREO SAR IMAGERY

- RADARSAT strategy included
- Bare earth terrain generation (DTM)
- Surface model terrain generation (DSM)

THRESHOLD LOOK-UP TABLES

 Filters out low returns while highlighting high returns

TRANSPARENCY THRESHOLD

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