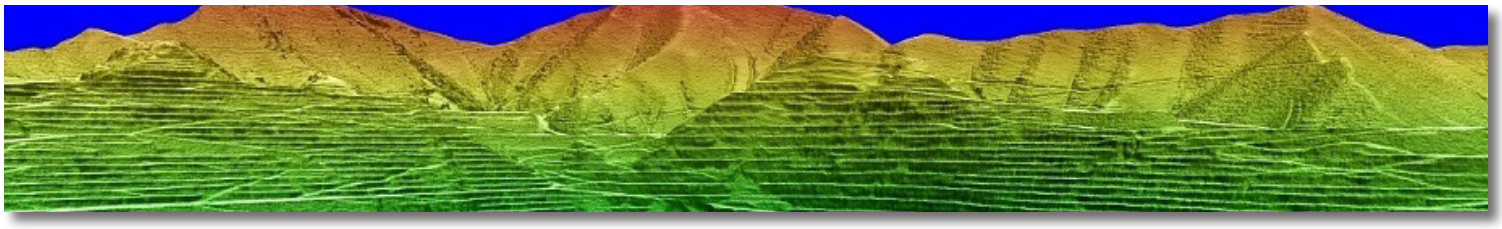
PhotoSat Surveying Services
for Mining Projects

PhotoSat™
Leaders in Satellite Surveying for Mining and Energy
www.photosat.ca



High Detail Surveying: 15-30cm Accuracy Satellite Survey

PhotoSat has invented a process to produce elevation suverys (DEM) from satellite photos with accuracies better than 20cm. We have completed over 900 projects globally. Proof of accuracy reports are on the Resources page of our website.

Used by engineers for:

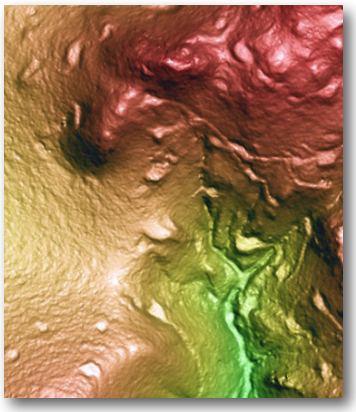
- Engineering grade surveying
- Feasilibity studies
- Reserve & resource estimates
- Mine planning & construction
- Structural geology
- Mining volumes & tailings monitoring as the project advances

Data Features:

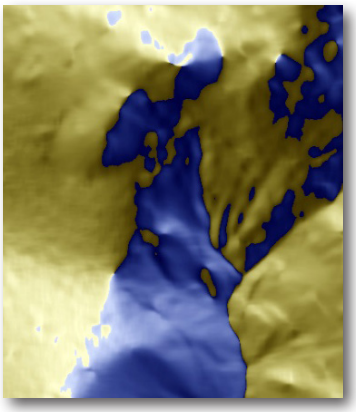
- Shortens timelines and eliminates surveying delays
- Cost-effective alternative to LiDAR, drones, & ground surveying
- Satellites reduce the need for field crews
- Photos can be collected anywhere in the world, no permits required
- Fast data delivery, usually within 1-3 weeks of collection

Satellite ortho photo

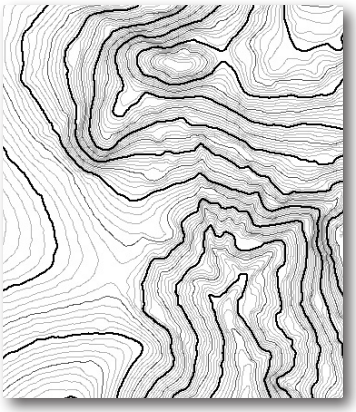
Colour elevation image



Slope direction (aspect)



50cm contours



Deliverables:

- 1m bare earth elevation grid (DTM)
- 1m (or 50cm) contours
- 50cm satellite ortho photo
- 1m colour elevation image
- 1m slope direction (aspect) image

Regional Mapping: 2m Accuracy Satellite Surveying

For larger project areas PhotoSat offers a 3m elevation grid (DEM) with 2m vertical accuracy produced from 1.5m satellite photos.

Deliverables:

- 3m surface elevation grid (DSM), accurate to 2m
- 1.5m satellite ortho photo

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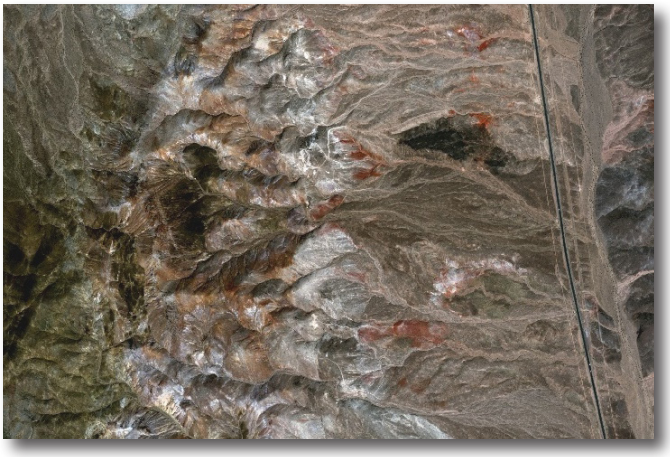
High Resolution Alteration Mapping

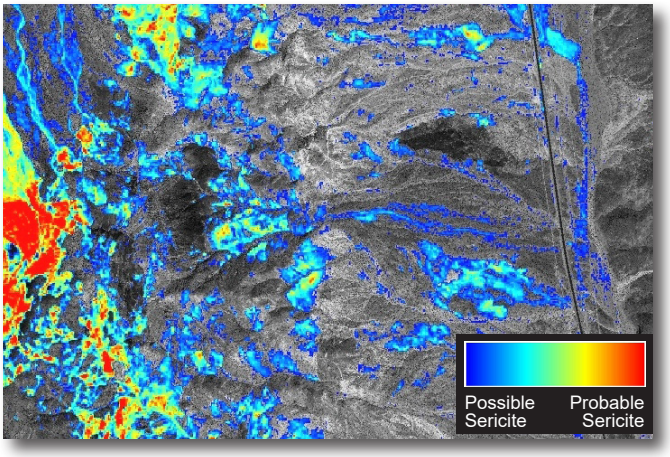
For detailed geological processing PhotoSat provides alteration mapping using DigitalGlobe's WorldView-3 satellite. This produces the highest resolution SWIR alteration mapping available from satellite photos.

Alteration package includes:

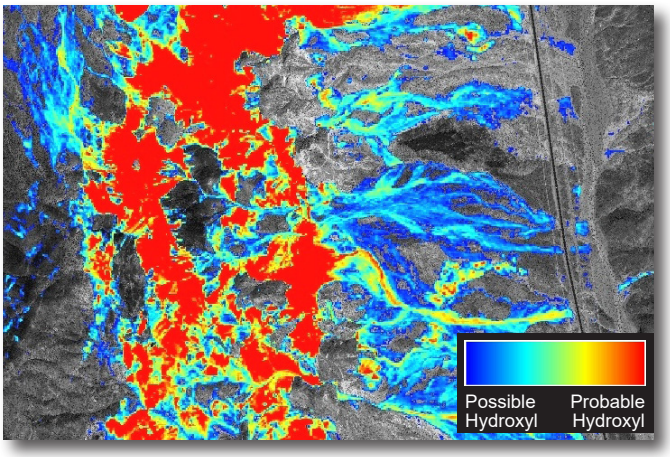
Colour image



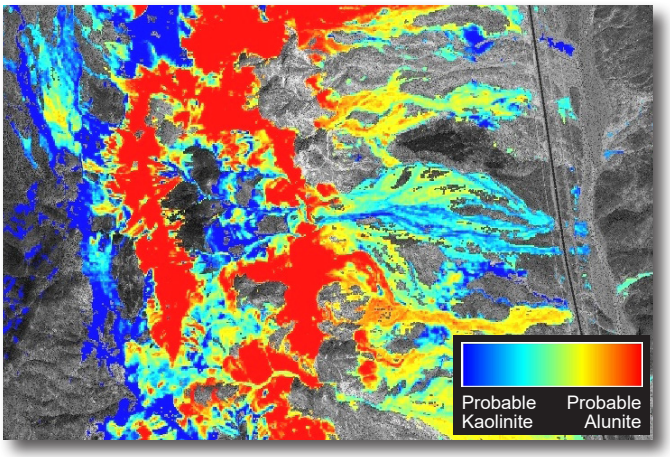
Sericite



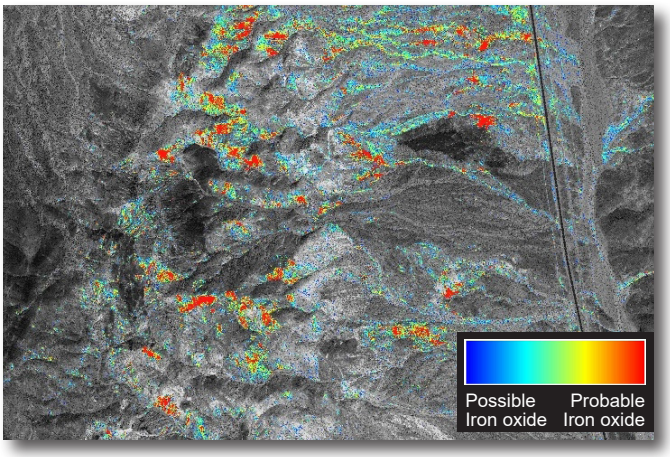
Hydroxyls



Hydroxyls: Kaolinite-Alunite



Iron Oxide



Regional Alteration Mapping

For larger project areas PhotoSat provides lower resolution alteration mapping with NASA's ASTER data. Satellite scenes are selected from a worldwide archive.

Advanced Products:

- Spectral matching
- Lithological enhancement