



P-band Radar

Airborne Data Collection

Foliage Penetrating Geospatial Information

Intermap Technologies® provides custom airborne radar data collection services to help you create innovative geospatial solutions for numerous commercial, governmental, and defense applications. Intermap's P-band Synthetic Aperture Radar (SAR) system can be deployed to collect wide-area coverage of highly accurate radar imagery which will not be hindered by weather, clouds, trees, or the lack of sunlight. Collection can be coupled with Intermap's X-band IFSAR for additional efficiency in creating solutions.

Key Benefits and Features



All-Weather Acquisition

Mapping anywhere, day or night, in any weather or cloud coverage



Fast, Wide-Area Coverage

Large mapping footprint, reducing collection time and saving you money



Dual-Look Sensors

Acquire data on both sides to increase efficiency and reduce shadow



Foliage Penetration

P-band imagery uses a frequency that penetrates foliage to reveal hidden information



Fully Polarimetric

Collecting horizontal and vertical transmit and receive polarizations multiplies the value



Autonomous Collection

Operating in an automated fashion eliminates the overhead of an operator

P-band SAR Technology

Intermap's P-band system is fully polarimetric to provide both detailed sub-canopy information, as well as feature detection and extraction. Operating at altitudes of up to 38,000 feet and looking in both directions simultaneously, the system can collect over 7,000 km² per hour. With these efficiencies, change detection has become much more affordable.

Applications

- Infrastructure identification above and below foliage
- Land cover classification and land use
- Monitoring and detecting wires, buried metal objects, and disturbed ground
- Monitoring erosion and estimation of soil moisture
- Change detection to automatically detect, identify, and classify features over time

Item	Specification
Frequency	340 MHz center
Bandwidth	220 MHz
Operational Altitude	Up to 38,000 feet
Operational Speed	400 knots
Resolution	85 cm - 1 m
Products	Tri-polarized orthorectified images Change detection Application-dependent derivatives



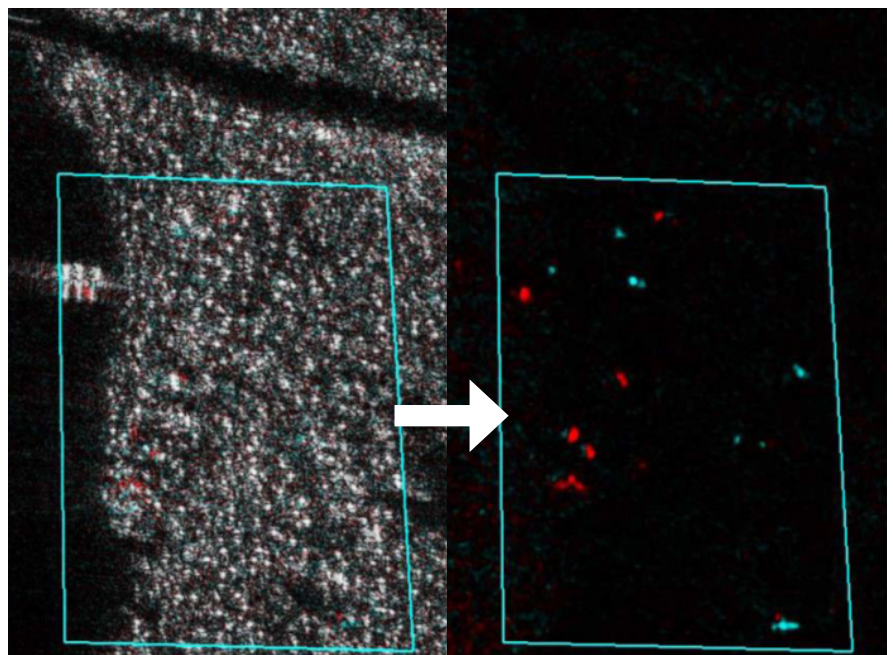
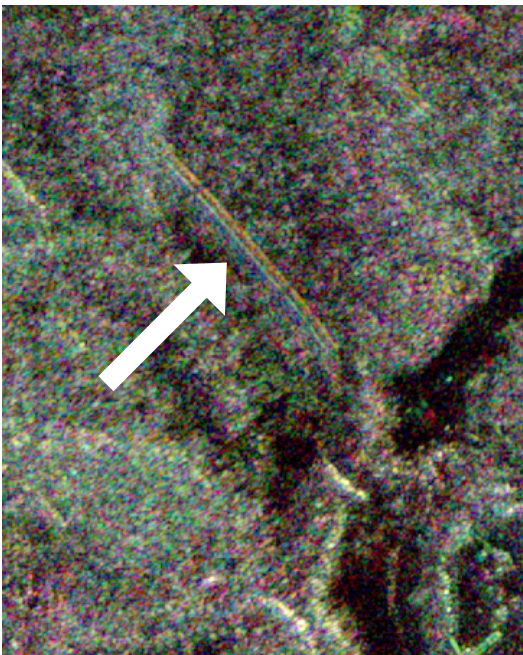
Visit www.intermap.com
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for more information.

Intermap Technologies is an industry leader serving a diverse geospatial marketplace. We provide highly accurate geospatial information to help commercial enterprises and government agencies make better location-based decisions.

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P-band applications include feature detection in areas invisible to optical imagery (left) and change detection beneath the canopy (right - example of vehicle movement in a campground)



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