



## Oil Spill and Ship Detection

## East Kalimantan, Indonesia

When Canada launched RADARSAT-1 in 1995, the world was provided with the most innovative and reliable commercial synthetic aperture radar (SAR) satellite available. Equipped with a SAR sensor, RADARSAT-1 is capable of collecting data regardless of weather and illumination conditions, providing cloud-free images of the Earth.

RADARSAT-1 offers image resolutions from 8 m to 100 m and various viewing angles that can be selected to enhance a wide range of terrain conditions, applications and coverage requirements.

### Applications

- Ice monitoring and mapping for near-real time route mapping
- Monitoring of illegal fishing and oil dumping
- Oil seep detection for marine oil reserves exploration
- Natural resource monitoring and management
- Agriculture monitoring
- Hydrology
- Terrestrial and maritime security monitoring
- Subsidence mapping

### Features & Benefits

- Cloud-free imaging of the Earth at any time under any light condition
- Sensitivity to surface roughness and moisture content provides new information
- Emergency and priority programming available
- Near-real time data processing (in less than 4 hours) upon reception of data at most network stations
- Seven beam modes and 35 beam positions for a wide range of imaging options
- Resolutions from 8 m to 100 m
- Frequent revisit for monitoring rapidly changing conditions
- Direct downlink to a global suite of ground stations (over 20 stations)

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