



REMSAT - II



Integrated Space Technologies for Emergency Management





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Real-time Emergency Management via Satellite

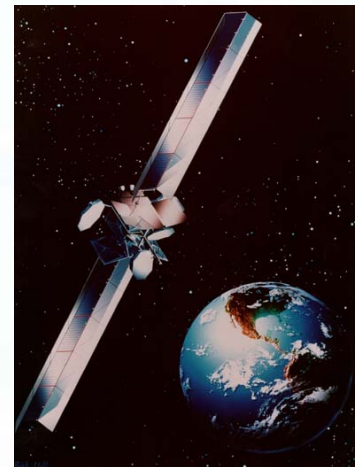




Project Goals

Foster increased use of space technologies in emergency management:

- satellite communication (ex. voice, data)
- navigation (ex. GPS)
- earth observation (ex. imagery)





Project Sponsors

Canadian Space Agency



European Space Agency





Emergency Management End Users

British Columbia Forest Service

- 94,000 sq hectares under protection
- 2500 wildfires annually





REMSAT Key Capabilities





Mobile High Speed Satellite Links



- Incident command post voice, fax, and data communications
- Province wide coverage
- Supports telemedicine applications

Instant communications infrastructure



Satellite Crew Tracking & Communications

Ka Band mobile
communications links

Portable office on the fire line



GPS Crew and Crew member
tracking

Digital messaging and data transfer

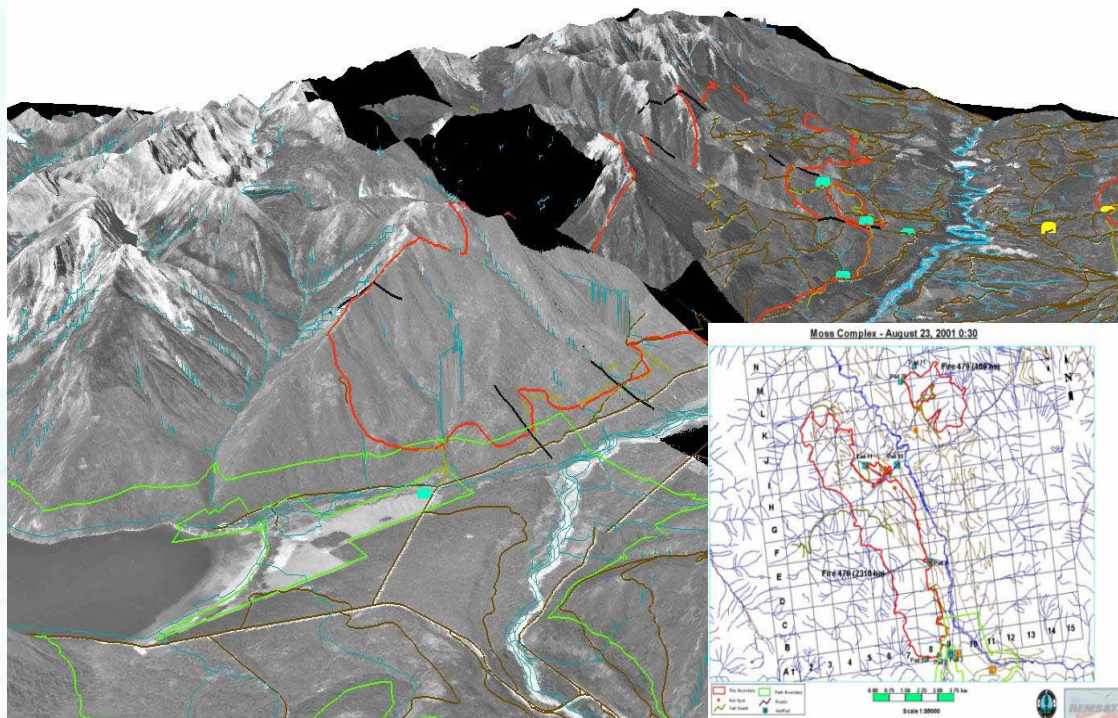


Incident Data Displays

Mapping and Imagery

Incident Data Collection

Incident Data Display



Command Team Decision Making Tools



Near Real Time Satellite Imagery



High resolution imagery

Vector road and river overlays

Situational awareness and planning



Satellite Navigation – Incident Fire Data



Helipads

Fire boundaries

Equipment tracking

Real time collection of
incident location data



3-Dimension Incident Display





REMSAT – II Project Consortium

Telesat Canada



British Columbia Forest Service



Communications Research Centre



Simon Fraser University



British Columbia Ambulance Service



