



RADARSAT-2

Disaster management solutions

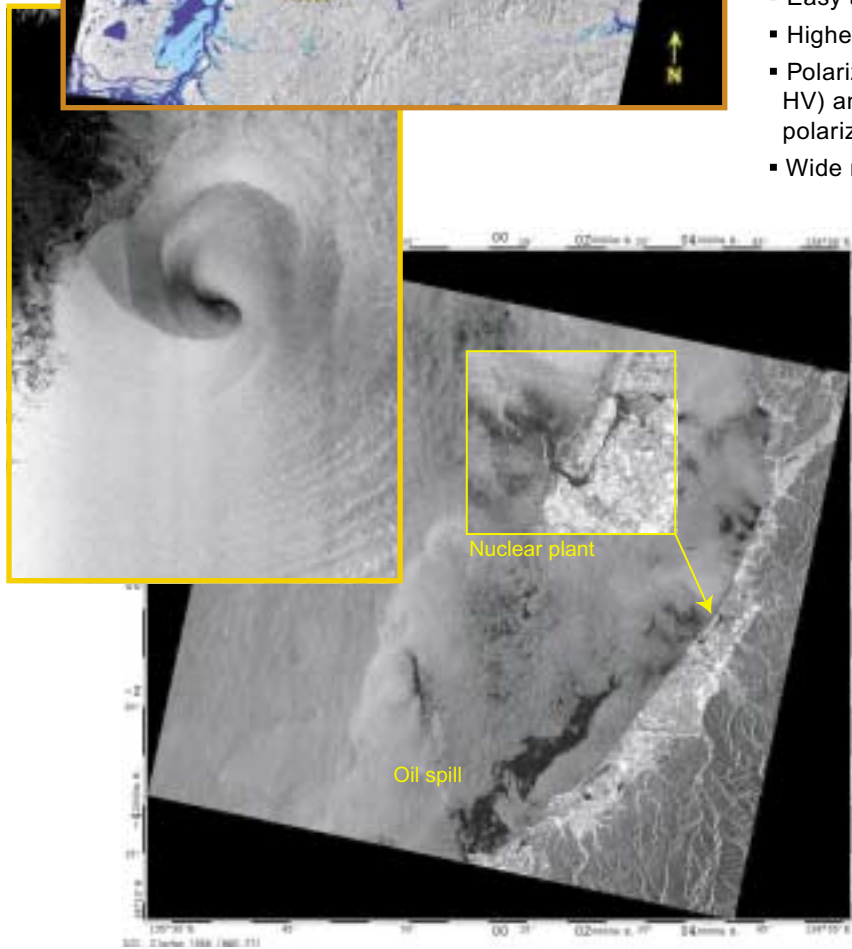
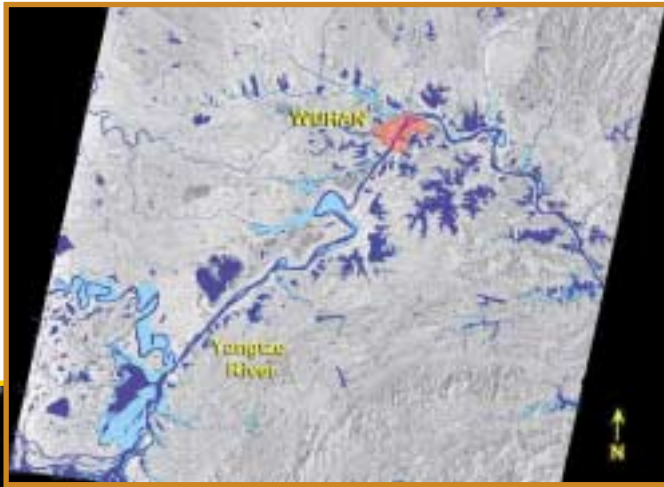
PREVENTION, RESPONSE AND MONITORING

RADARSAT-1 has been successfully used world wide to support disaster response efforts during events such as flooding, oil spills, volcanic eruptions and severe storms. As the world's most advanced SAR imaging system, RADARSAT-2 will continue to support RADARSAT-1's activities in disaster management and apply its enhanced capabilities in order to provide:

- Global coverage and more frequent revisit cycle over affected areas;
- Easy and rapid access to data products;
- Higher resolution images, down to 3 meters;
- Polarization diversity in all imaging modes (HH, VV or HV) and fully polarimetric imaging modes (quad-polarization);
- Wide range of image scales and resolution;
 - Data acquisition regardless of weather or daylight;
 - Fast and reliable access to archived data;
 - Accurate georeferenced images, which can be readily integrated with other data sets in geographic information systems (GIS).

A FLEXIBLE TOOL

Efficient management of environmental disasters and emergency situations require that accurate information is made available quickly. The strength of RADARSAT-2 for disaster mapping and monitoring is in the high repeat coverage attainable through the satellite's multiple beam positions and dual-sided imaging capability. In situations where the timing of the data acquisition is not critical, the imaging mode can be set to maximize the information content of the image for the application. In emergency situations, the choice of beam mode and position can be set to ensure the greatest repeat coverage of the region of interest. The flexibility of RADARSAT-2 makes it a powerful tool to support disaster management activities such as prevention, response and monitoring.



Top: RADARSAT-1 ScanSAR Narrow scene of Yangtze River flooding in China. Middle: ScanSAR wide RADARSAT-1 image of hurricane over Labrador Sea. Bottom: RADARSAT-1 image of oil spill near a nuclear plant in Japan. (All images © CSA. Received by CCRS. Processed and distributed by RSI.)

RADARSAT-2 Programme

CSA: radarsat-2programme@space.gc.ca
<http://www.space.gc.ca/radarsat-2>

MDA: radarsat@mda.ca
<http://radarsat.mda.ca>

