



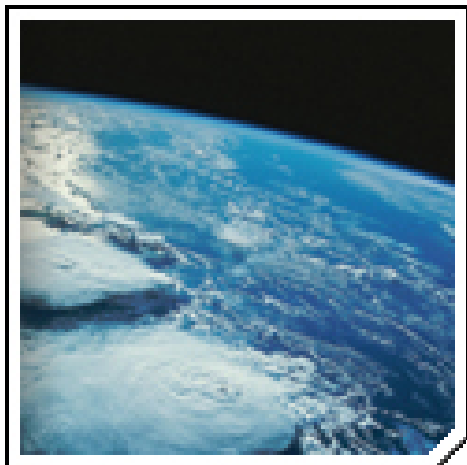
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CSA Update

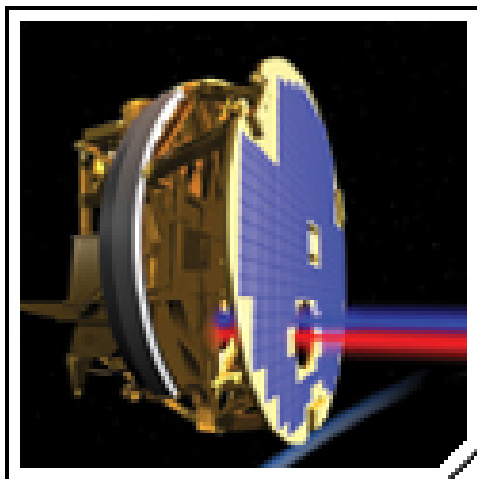
RADARSAT Data Continuity

Savi Sachdev, CEOS Principal
Canadian Space Agency



CSA EO Program

- Three elements:
 - ❑ Environment
 - ❑ Energy and Resources
 - ❑ Sovereignty and Security
- A history of success:
 - ❑ RADARSAT-1
 - ❑ SciSat-1
 - ❑ RADARSAT-2
 - ❑ ESA programs contribution (ERS-1/2, Envisat)
 - ❑ NASA instruments (MOPITT, Cloudsat, WINDII)
 - ❑ Other instruments (OSIRIS)





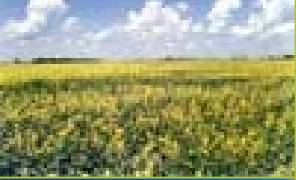
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CSA EO Strategy:

Focus on the Priorities of Canadians

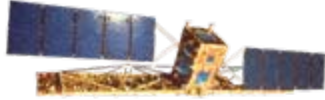


- **Sovereignty** - monitoring the Arctic sea lines and territories
- **Safety** - navigation in ice-laden waters, disaster management
- **Environment** - monitoring the health of the ozone layer and the transport of air pollutants
- **Climate** - understanding the factors controlling the climate, monitoring changes resulting from climate variations
- **Resources** - forests, agriculture, mineral and energy exploration, etc

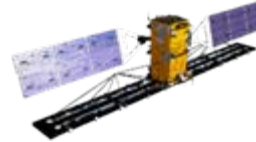




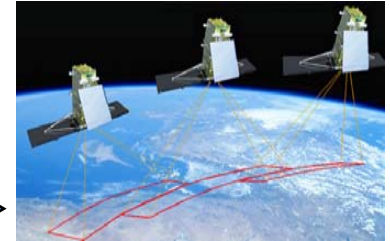
Committed to Providing RADARSAT Data Continuity



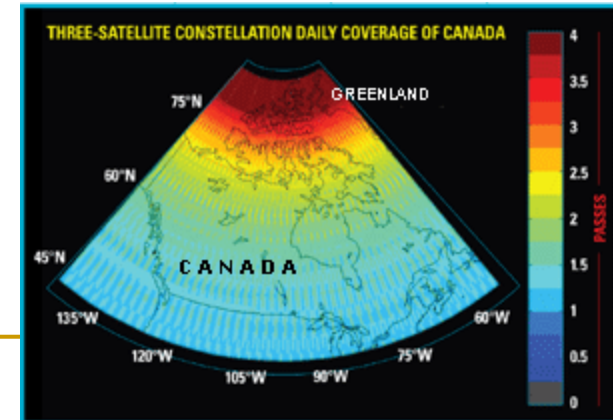
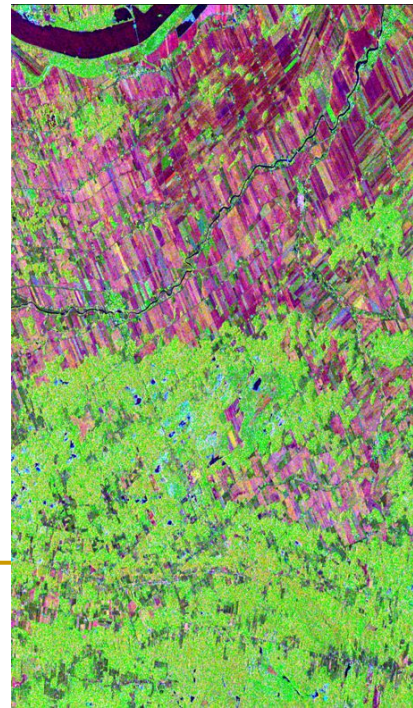
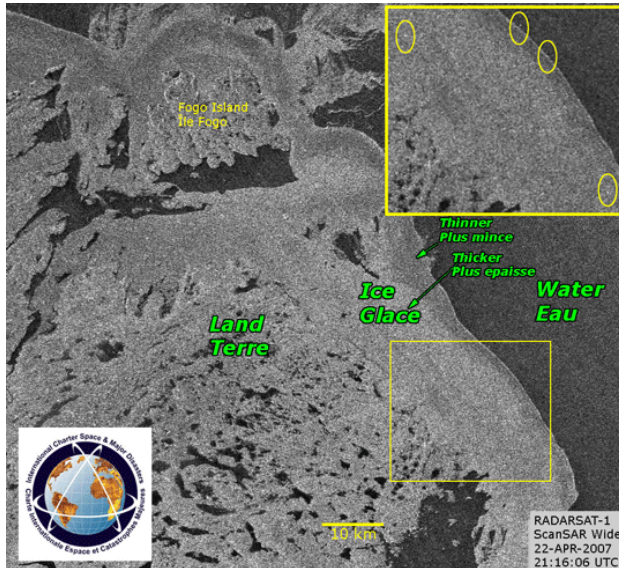
1995: RADARSAT-1



2007: RADARSAT-2



2014:
2015: RCM
2015:





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CSA support for CEOS atmospheric science initiatives

- CEOS Atmospheric Composition Constellation:
 - Contributed to the Work Plan and is leading development of inter-agency project on Harmonizing datasets for model validation
 - Collaborating to Volcanic plumes Hazards project with ESA and the NO₂ tropospheric concentration for air pollution project with NOAA
- CEOS Working Group on Calibration and Validation / Atmospheric Chemistry Subgroup (WGCV/ACSG)
 - Positive impact to Canadian Universities on calibration processes for ACE-Scisat, Osiris and Cloudsat



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Participation from Canada

- ❑ Lead task “Use of satellite for Risk management”
- ❑ Support the Working Groups
 - ❑ Cal/Val SAR & Atmospheric Chemistry subgroups
- ❑ RADARSAT-1 Archive – International Polar Year dataset made available
- ❑ The MORSE Initiative: Earth Observation Products And Services For Arctic Coastal Users
- ❑ RASTER: Radar Applications for Sensitive Treed Ecosystem Regions
- ❑ Atmospheric Composition Constellation
- ❑ Land Surface Imaging Constellation (Carbon Tracking)
- ❑ Support Canadian GEO Secretariat