

Canadian Space Agency

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Outline

- Canadian Space Agency Space-based Assets
 - Current Missions
 - Upcoming Missions
- Activities
- Strategic Interests



Canadian Space Agency Assets

Current

- RADARSAT 1 – 1995 to ...
 - Full capacity – no recorders
 - Hybrid mission – Public and commercial
 - Enormous archive over the poles
- RADARSAT 2 – 2007 to ...
 - Owned and operated by MDA
 - GoC data allocation

Future

- RADARSAT Constellation Mission – 2016 to ...
 - Public sector – Open data policy in line with RSSSA
 - Phase C to be completed by the end of the year
- Polar Communication and Weather
 - 2 satellites in HEO
 - Phase A completed



Coordinated Activities

National

- Consultation process with Glacier and ice community
- Sea Ice and Marine Coordination Committee for SAR planning deconfliction
- Enhanced Arctic Charting program –
 - Parks Canada – underwater archaeology
 - DFO CHS - Charts
 - Coast Guard – Navigation
 - Environment Canada – sea ice charting and Shoreline Clean-up Assessment Techniques (SCAT)
- MORSE Program
 - Arctic Coastal Zone Monitoring Initiative



Coordinated Activities

International

- PSTG
 - SAR Coordination WG
- CSA – NASA Agreement on IceBridge
- CSA – ESA Enhanced use of CRYOSAT in Canada (in discussion)
- SAON – Role of remote sensing in Arctic Monitoring
- CSA Portfolio on Polar Data Catalogue



CSA Strategic Interests

- New missions with focus on the Arctic (RCM and PCW)
- Thematic areas where SAR can make a unique contribution: glaciers and ice Sheets monitoring, sea ice extent and concentration, river and lake ice, permafrost, etc.
- Open to suggestions and committed to respond to needs and requirements
- CEOS focus on climate change for Polar region
- Chair of Arctic Council