

Space4Arctic and more

Éric Laliberté

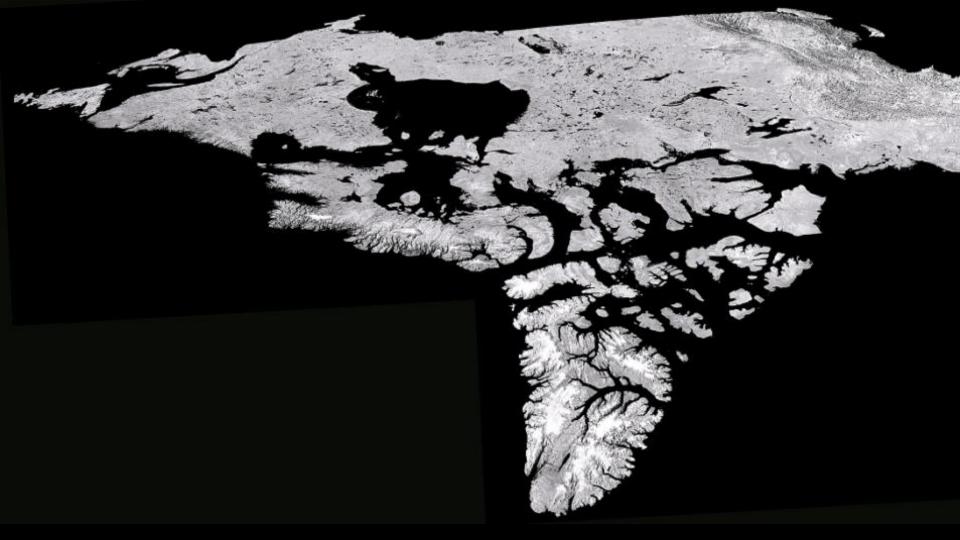
Associate Director General VP Science & Technology Office

Canadian Space Agency

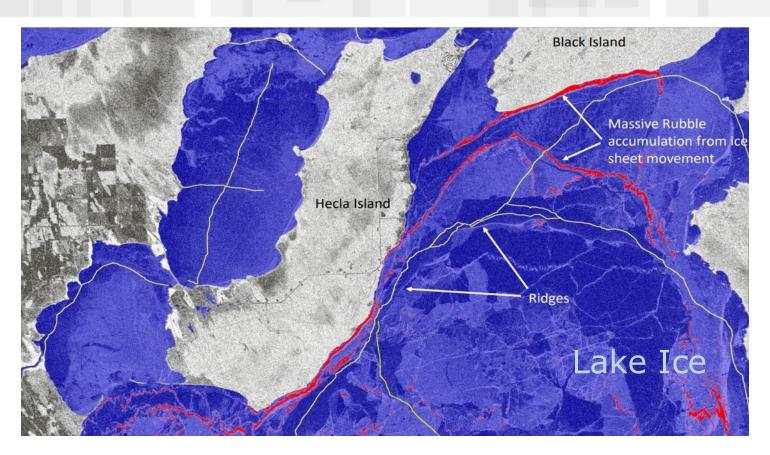
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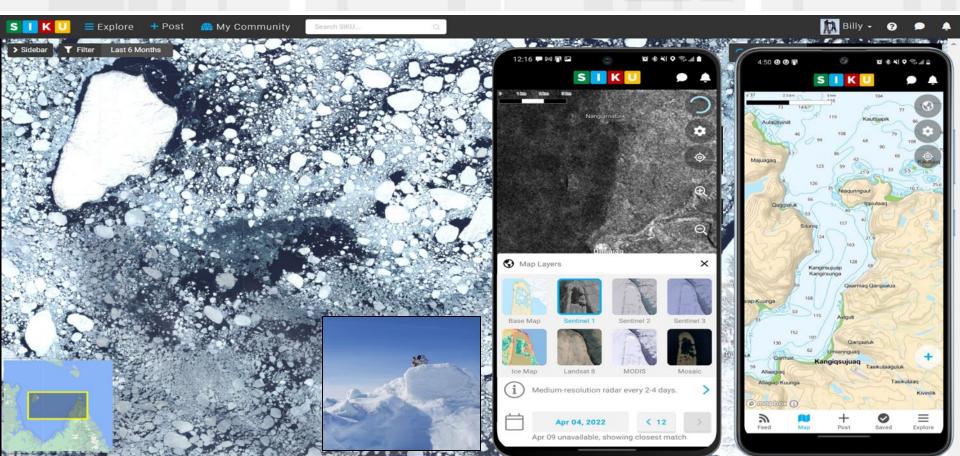




smartEarth: NextGen & First Nations in Manitoba



smartEarth: SIKU / Inuit Driven Platform



smartEarth: Vertex & T'Sou-ke First Nation

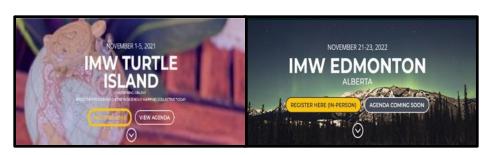


A success story of co-development and partnership









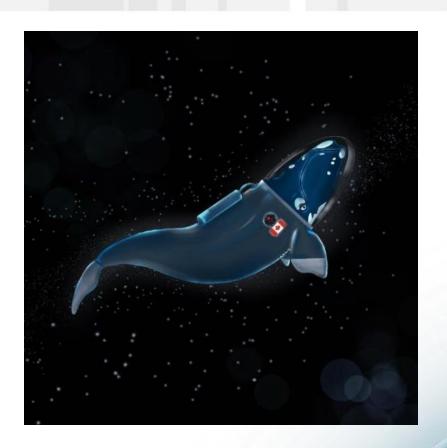
Joint CSA-NASA EO Training & Dialogue Sessions

2018-2021 2021-2022 2023+

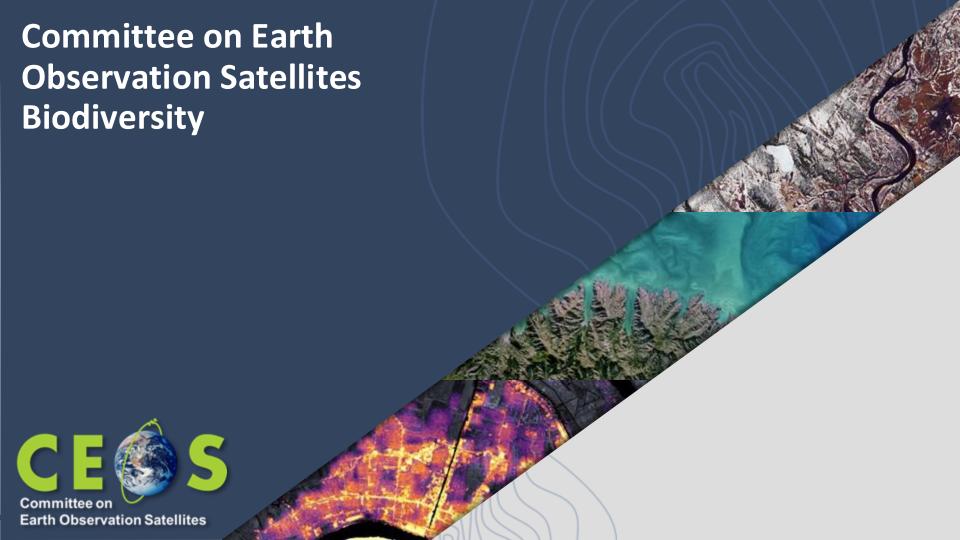
EO capacity > Two-way learning, dialogue, story telling > Longer-term plan

Joint CSA-NASA Multi-Year Plan (in development)

smartEarth: smartWhales



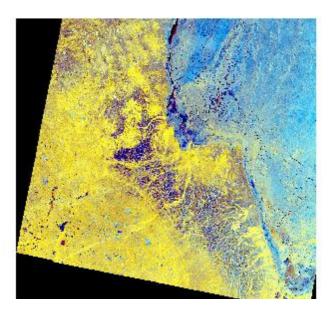
- 3 federal departments
- 5 multi-sectoral consortia
- 11 science organizations
- 8 foreign organizations
- 80 highly qualified personnel
- 50% new organizations involved





RCM Composite Imagery of Hudson Bay / Wapusk National Park Area

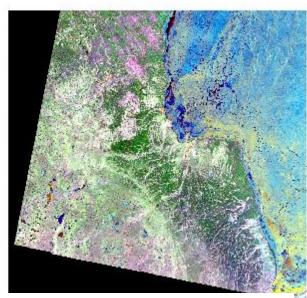
October 13, 2023 and February 6, 2024



Single Date: Feb. 6, 2024

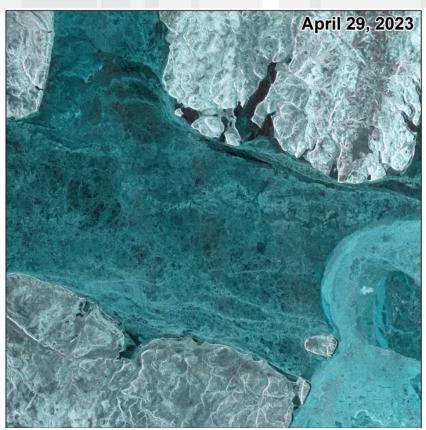


Composite: Feb 6, 2024 & Oct. 13, 2023



Composite: LAND (Oct&Feb) + Sea (Feb)

North West Passage

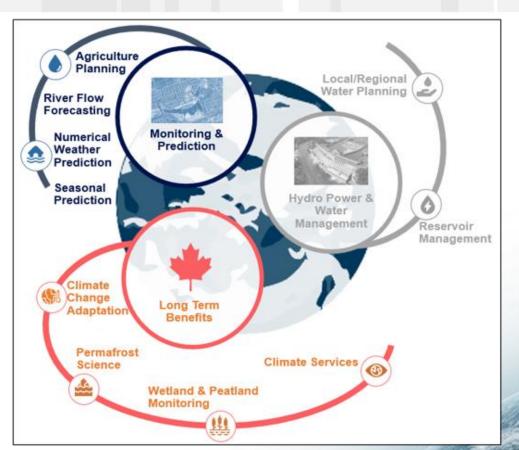


Succession of RCM imagery

Surface Water and Ocean Topography (SWOT)



Terrestrial Snow Mass Mission (TSMM)

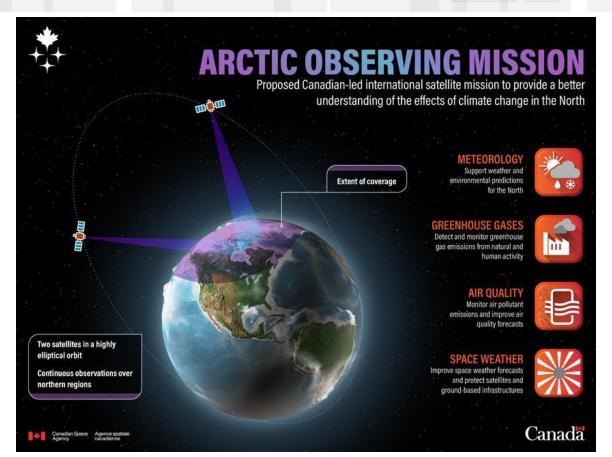




TSMM is a proposed radar mission to inform climate services and improve environmental predictions for snow covered regions

- Climate change adaptation
- Monitoring and prediction
- Water management

Arctic Observing Mission (AOM)



High-altitude Aerosols, Water vapour and Clouds (HAWC)



HAWC is a Canadian mission on NASA's Atmosphere Observing System, a foursatellite constellation.

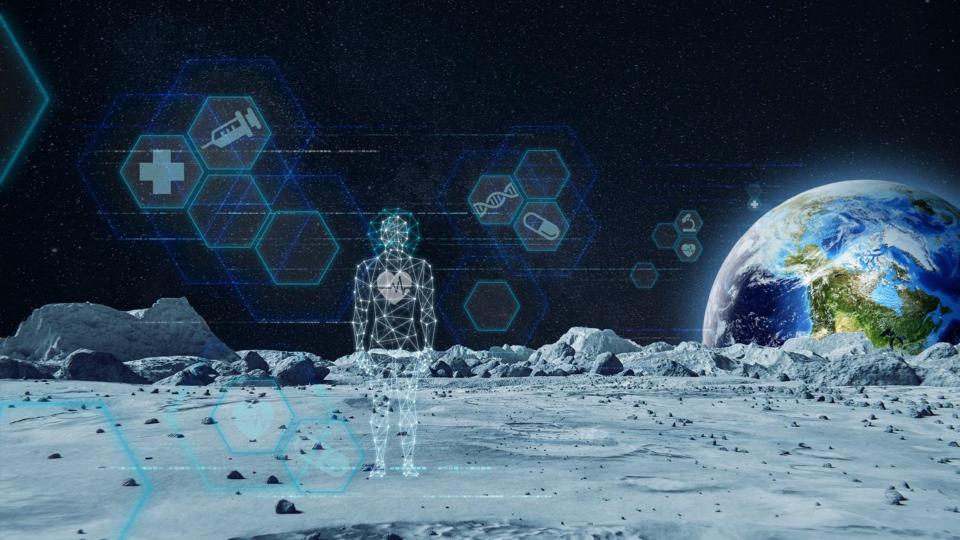
It will support extreme weather prediction, climate modelling and disaster monitoring.

Climate Change and Impacts



https://www.asccsa.gc.ca/videos/recherche/1_evju bu0h/1_nljith46.webm







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