

OCEAN
NETWORKS
CANADA

OOIFB & DSC Meeting

Ocean Networks Canada Updates

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November 14, 2024

A UNIVERSITY OF VICTORIA INITIATIVE

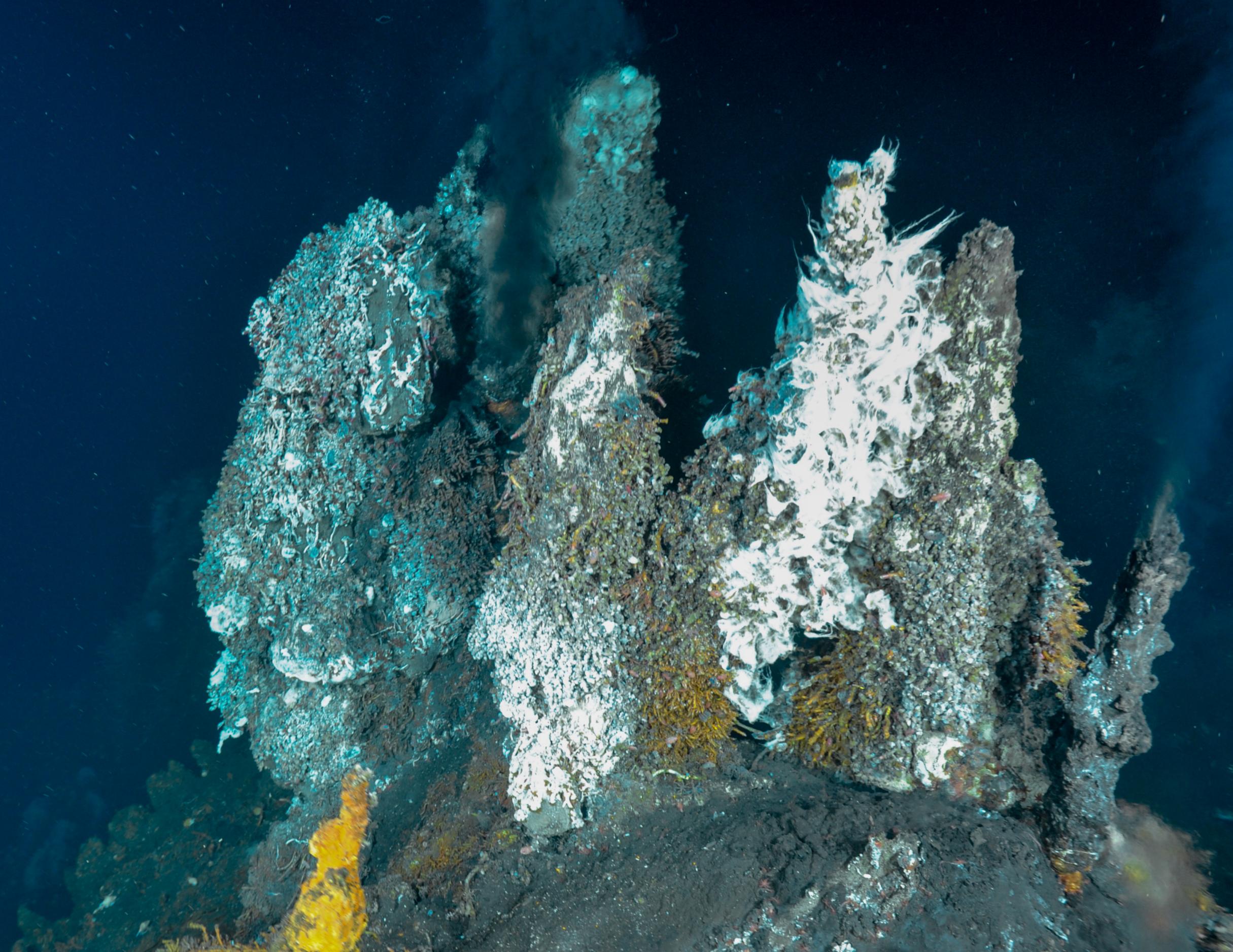


Land and Sea Acknowledgement

We acknowledge and respect the lək'wəŋən peoples on whose traditional territory ONC stands and the Songhees, Esquimalt and W̱SÁNEĆ peoples whose historical relationships with the land continue to this day. We also acknowledge the Indigenous communities with whom we have the honour to collaborate on coastal monitoring and data management solutions.

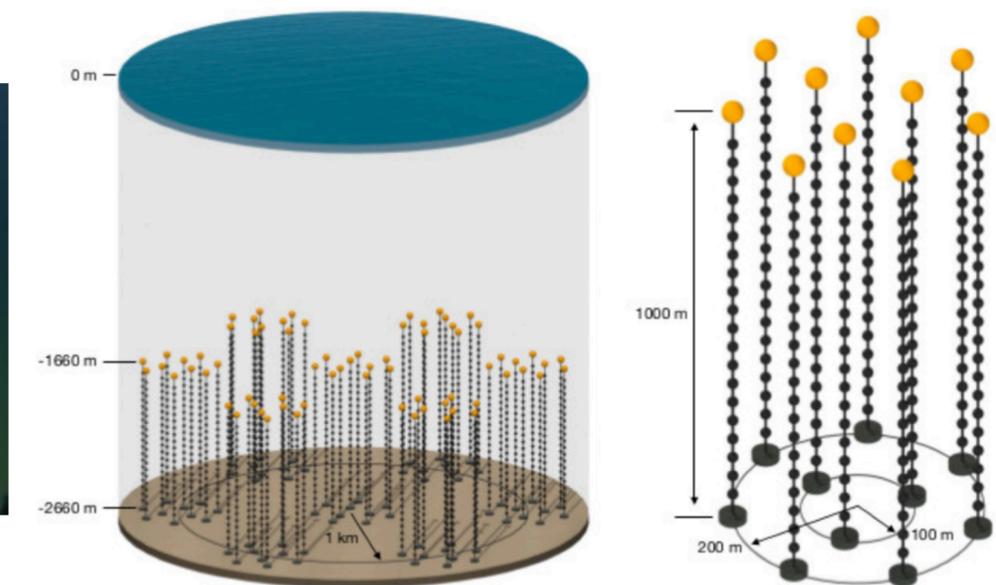
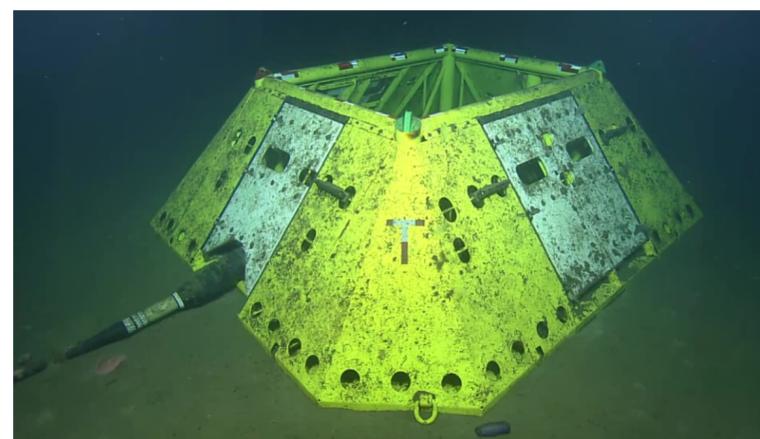
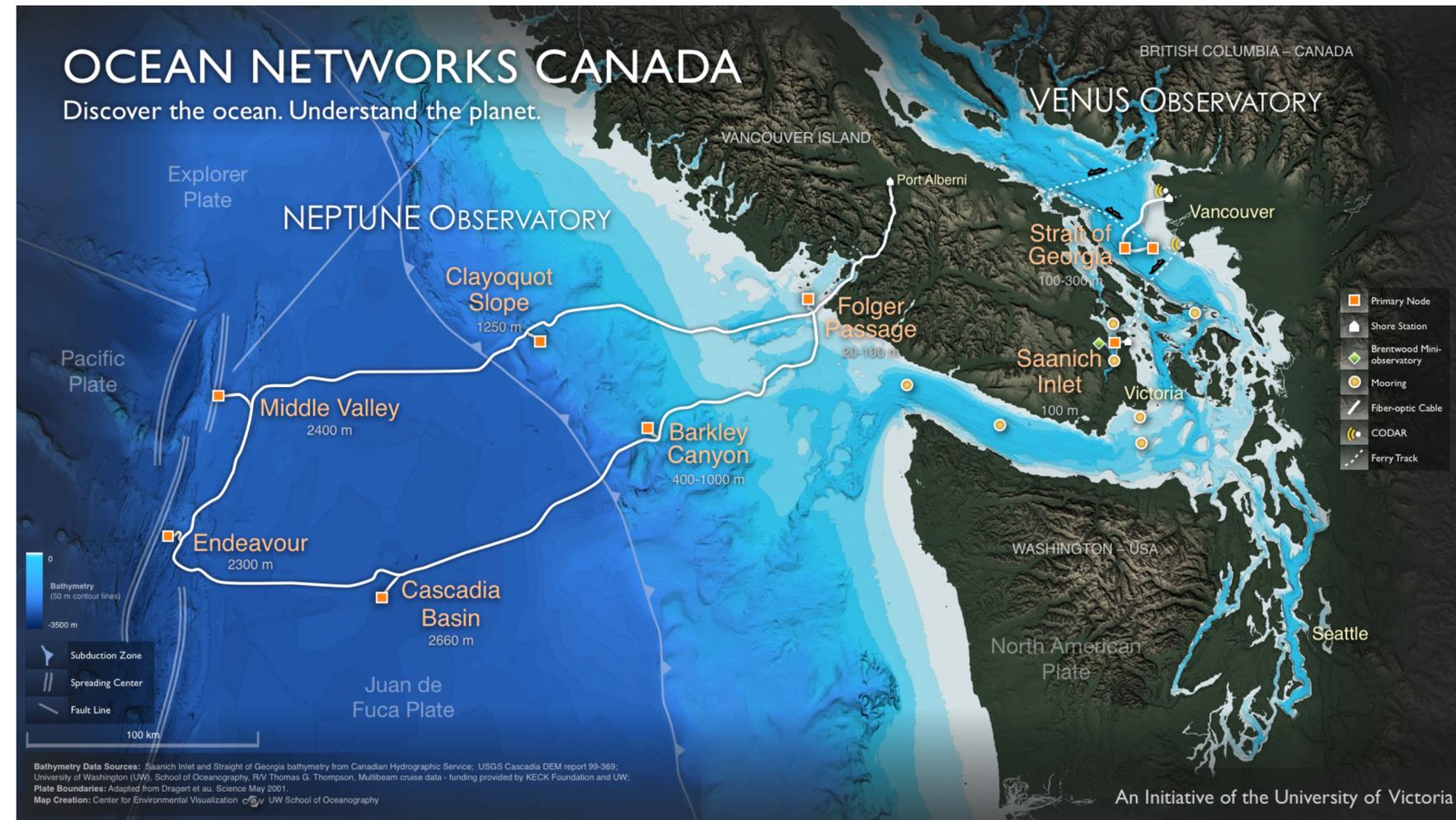
Overview

- ONC Overall Updates
- ONC Data Updates
- Indigenous Engagement



ONC Updates

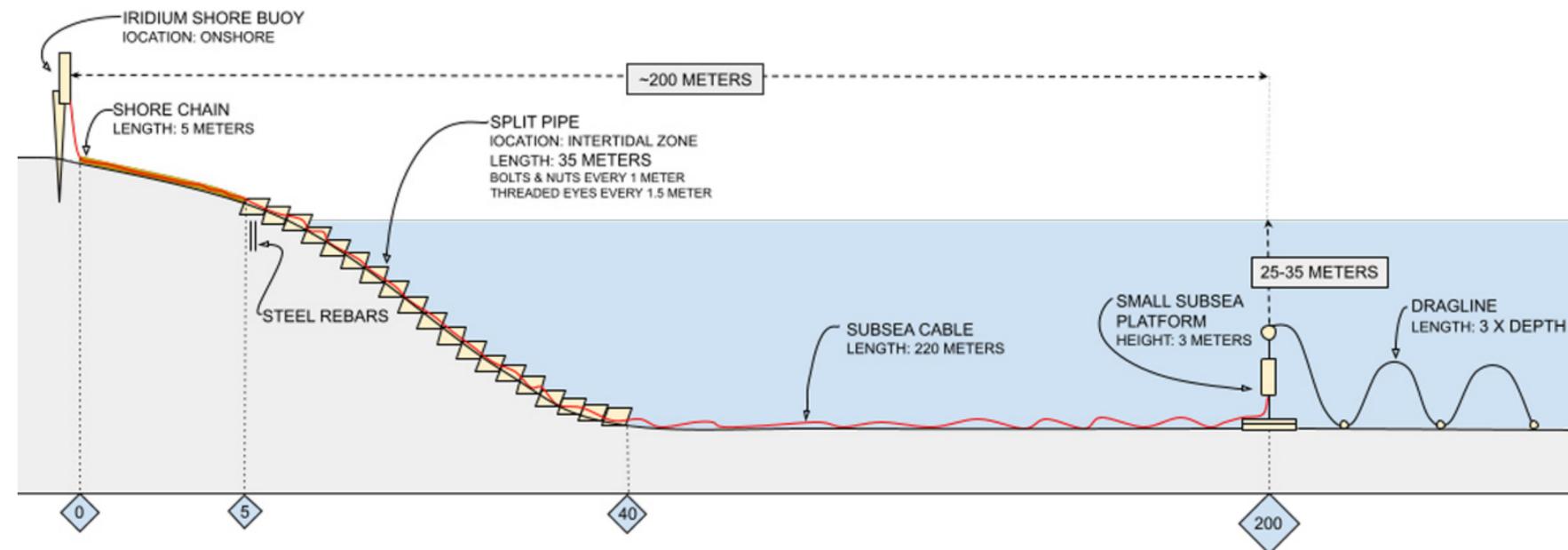
- Canada Foundation for Innovation
 - Major Research Facility (MRF) Designation
 - MRF Framework implementation plan in progress
- NEPTUNE Node Replacement
 - Design and procurement in progress
 - First new Node ready ~2026
 - Middle Valley
- Pacific Ocean Neutrino Experiment (P-ONE)
 - Install first mooring fall 2025
 - 1 km mooring x 20 modules



ONC Updates

- Antarctic Observatory
 - Spanish National Research Council (CSIC)
 - Livingston Island
 - Juan Carlos I Station
- NEW ROV
 - October sea trials
 - Canpac Marine Scientific ROV
 - 6000m rated

ANTARCTICA OBSERVATORY 2024



ONC Data Update

Oceans 3.0

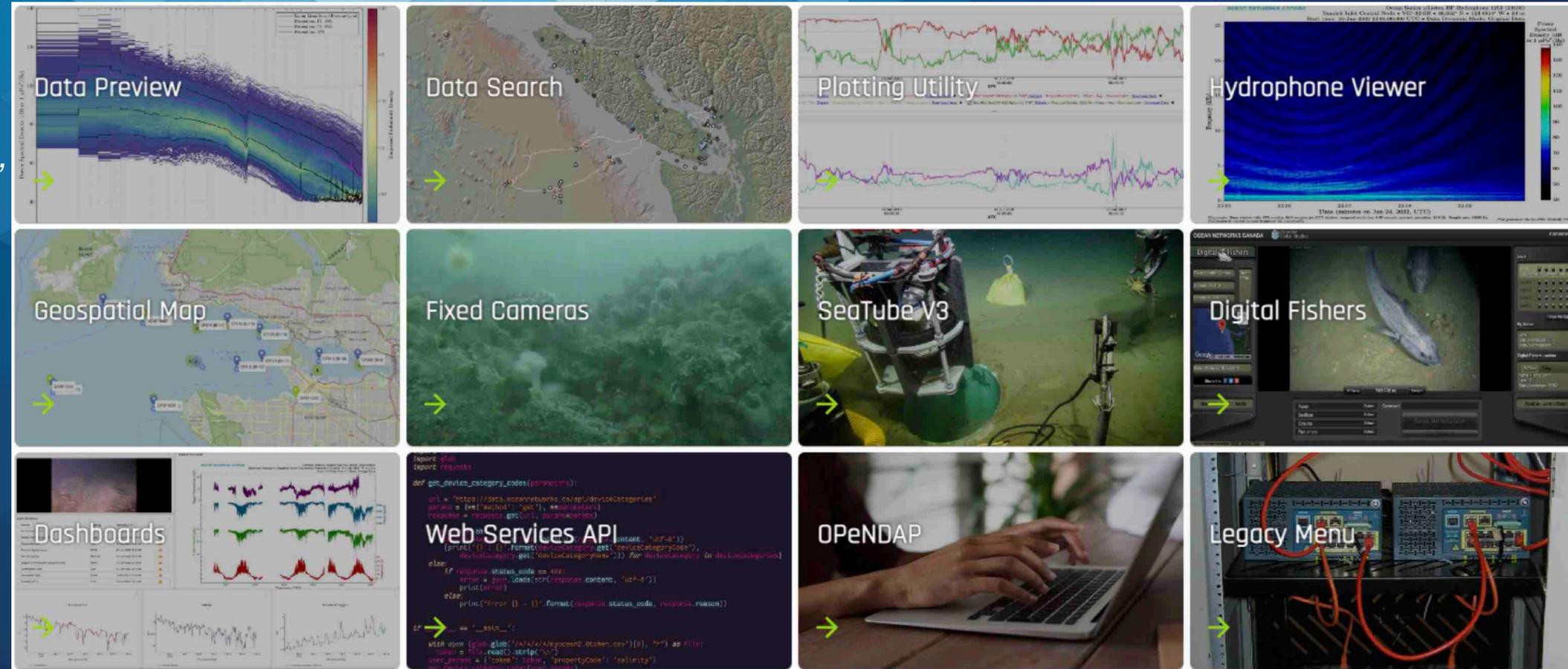
- AGU Workshop

- “Jupyter Notebooks for Accessing Ocean Data”
- Case Study: Shockwave from the Hunga Tonga volcano

- OpenAPI

- Jupyter Hub

- Axiom Geospatial Data Discovery Prototype





Indigenous Engagement

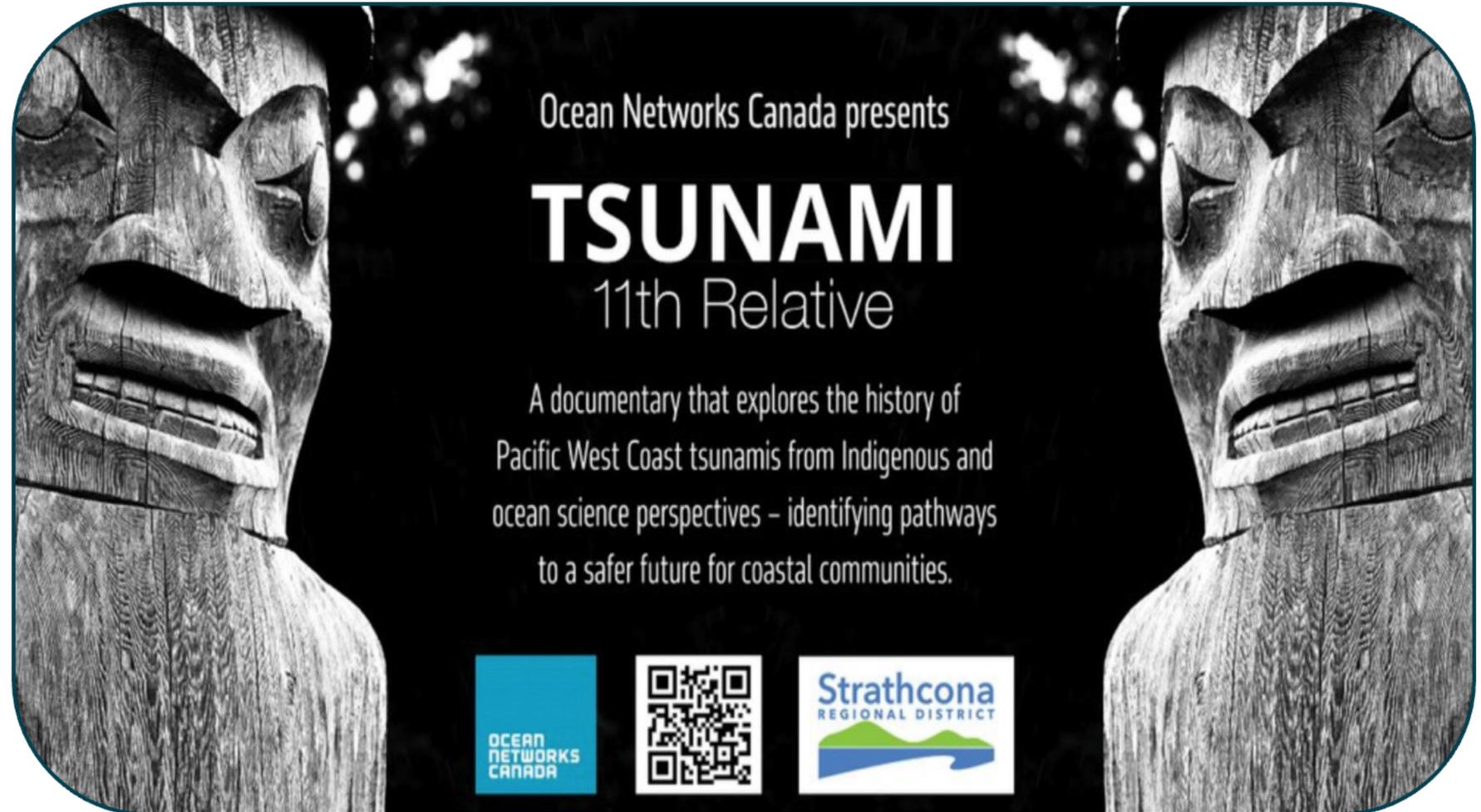
ONC Indigenous Engagement

- Motivation for Indigenous Engagement
 - Foster ocean equity and knowledge
 - Support Community led projects
 - Enhance capacity for Stewards and Guardians
 - Inspire Youth
 - Strengthen connections between Indigenous Knowledge systems and science
- Types of Engagement
 - Capacity Development
 - Ocean Monitoring
 - Data Management



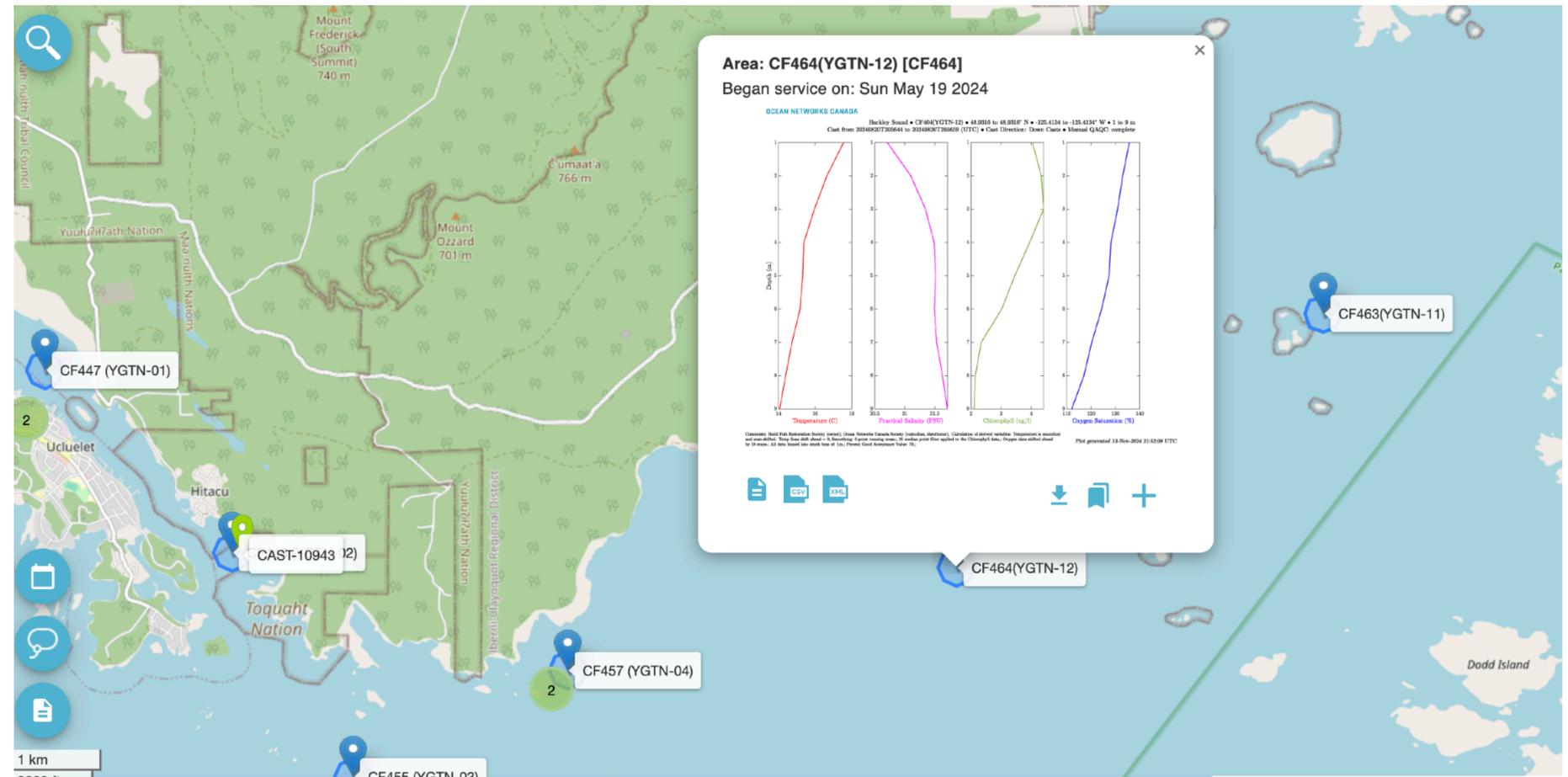
Capacity Development

- Micro Credentials through UVic - UNITAR certified
 - Community Fishers
 - Ocean Acoustic Monitoring
- Youth Science Ambassador
- Traditional Knowledge
- Knowledge co-creation



Ocean Monitoring

- Community / Coastal Observatories
- Community Fishers



Data Management

- Data Agreements
 - Ownership / Citation
 - Restricted Data
- Pilot program with Local Context

DEPRECATE ABOUT [↗](#)

🔍 10.34943/e3697a97-56bb-490c-8aba-dd9b905070d7

DataCite Metadata

Title
Douglas Channel Conductivity Temperature Depth Deployed 2021-10-16

DOI
10.34943/e3697a97-56bb-490c-8aba-dd9b905070d7

Abstract
The AML CTD Metrec X 50146 was deployed on 2021-10-16 at Douglas Channel. Douglas Channel is one of the principal inlets of the British Columbia coast. This device is a Conductivity Temperature Depth. Conductivity Temperature Depth (CTD) is an instrument package that contains sensors for measuring the conductivity, temperature, and pressure of seawater. Salinity, sound velocity, depth and density are variables that can be derived from sensor measurements. CTDs can carry additional instruments and sensors such as oxygen sensors, turbidity sensors and fluorometers. It was deployed on a fixed platform. Data from this deployment were archived and made available through Ocean Networks Canada's Oceans 3.0 digital infrastructure, with quality assurance and derived data products following established practices.

Creators

Organizational	Gitga'at First Nation
Organizational	Ocean Networks Canada Society

Date Created
2021-10-18

Citation

DOI Citation
Gitga'at First Nation, Ocean Networks Canada Society. 2021. Douglas Channel Conductivity Temperature Depth Deployed 2021-10-16. Ocean Networks Canada Society. <https://doi.org/10.34943/e3697a97-56bb-490c-8aba-dd9b905070d7>.

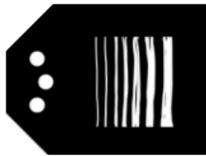
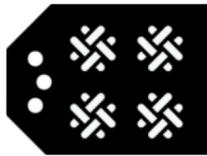
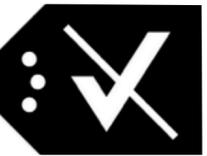
Data Links

[Download data using Data Search](#)
[View device details for AML CTD Metrec X 50146](#)
[Download latest ISO 19115 XML metadata](#)

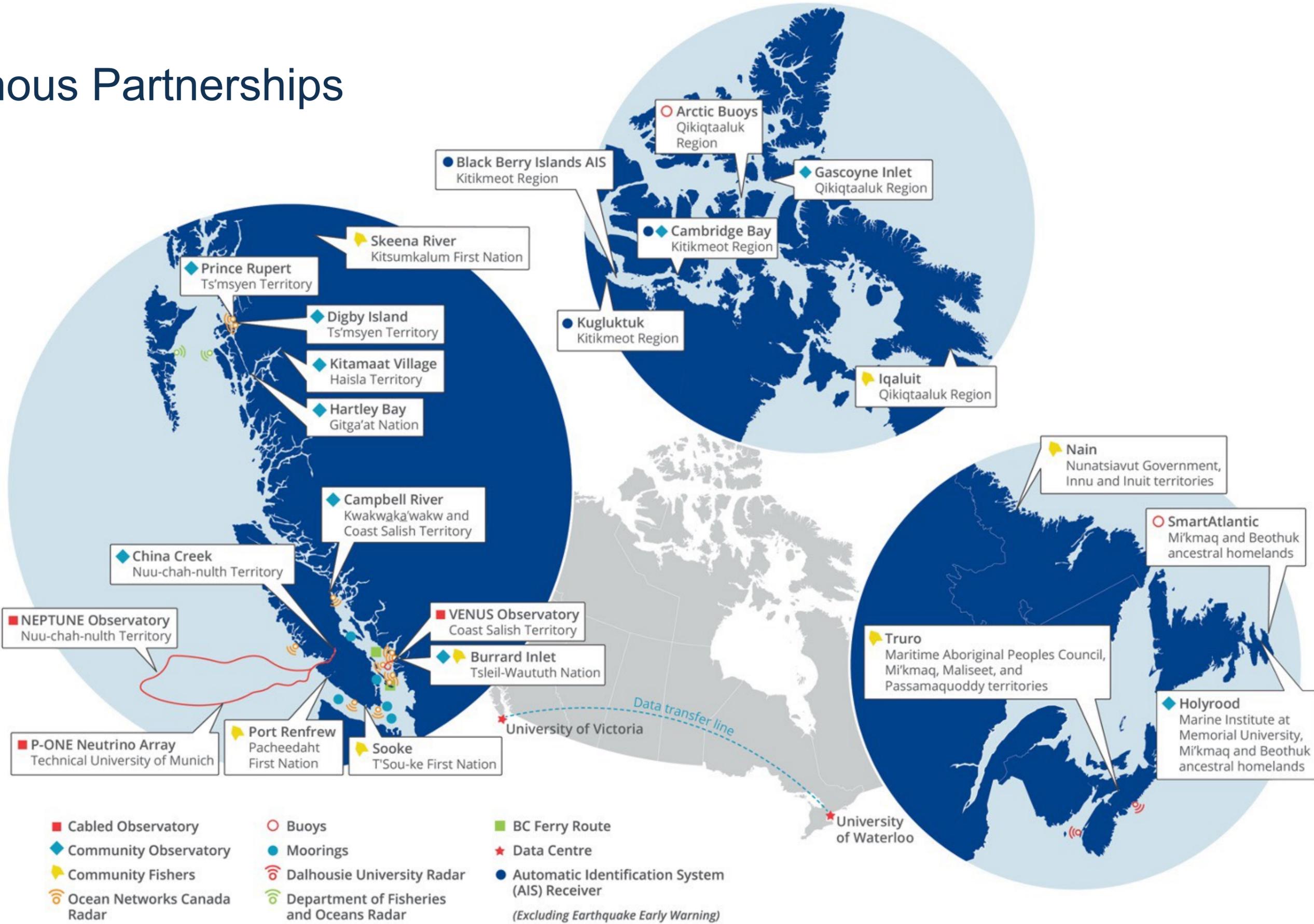
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Provenance (BC P)	Multiple Communities (BC MC)	Clan (BC CL)	Consent Verified (BC CV)	Consent Non-Verified (BC CNV)
				
Research Use (BC R)	Open to Collaboration (BC CB)	Open to Commercialization (BC OC)	Outreach (BC O)	Non-Commercial (BC NC)

Indigenous Partnerships



Organizational commitment to meaningful Indigenous Engagement

- ONC Staff Training
 - OCAP (Ownership, Control, Access, Possession) principles
 - Indigenous Cultural Acumen Training (ICAT)
- ONC Staff Resources
 - Community based monitoring and Indigenous engagement dedicated teams



Thank You

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