

# Title: Ocean Networks Canada

## Report to the Facility Board

**Richard Dewey** – OOI DSC/OOIFB – May 2024

A UNIVERSITY OF VICTORIA INITIATIVE



# CANADIAN INFRASTRUCTURE



Gascoyne Inlet

Kugluktuk

Cambridge Bay

Argo Floats

North BC CODARs

Prince Rupert

Kitamaat Village

Hartley Bay

Campbell River

Baynes Sound

Tofino

China Creek

NEPTUNE

Instrumented Ferries

South BC CODARs

Burrard Inlet

VENUS

University of Victoria

Holyrood

Marine Institute of Newfoundland Buoys

Nova Scotia CODARs

University of Waterloo

Shore Station

- Installed Infrastructure
- Data Centre
- Mooring/Buoy
- Mobile Asset
- Fibre-optic Cable
- Data Transfer Line

Bathymetry (50 m contour lines)  
-3500 m

AN INITIATIVE OF University of Victoria

Data Sources: Smith and Sandwell DEM, USGS Cascadia DEM, National Geophysical Data Centre and NOAA (1999) Great Lakes Bathymetry.  
Last Updated: 26 January 2024

# Ocean Networks Canada: Strategic Plan

## **Goal 1) Advance ocean observing**

- Fill critical gaps, including Remote Community Observatories

## **Goal 2) Develop and deliver world-leading data and ocean intelligence products and services**

- Deliver curated data and products, developing and utilizing advanced machine learning and artificial intelligence approaches

## **Goal 3) Enable ocean-based solutions for climate change mitigation and coastal resilience**

- Support and enable marine carbon dioxide removal (mCDR) and monitoring, reporting, and verification (MRV) efforts
- E.g. Solid Carbon and Running Tide



# Some Recent Developments



# Key Performance Indicators

As reported annually to ONC's principal funding agency (Canadian Foundation for Innovation, CFI), the Federal Government.

- 1) Onsite or Remote User (registered or anonymous) Access to:
  - Data Archive (various access portals/means), all data types including multimedia
  - Analytical Tools, including access through the Application Programming Interface (e.g. web serves, M2M)
  - Pre-generated Data Products (views and downloads)
  - Learning and Community Resources (engagements and downloads)
  - Participation in Operational Activities (e.g. cruises and field operations)

# ONC KPIs - Secondary

## 2) Other Tracked Metrics of Performance and Engagement Reported

- Scientific Publications (e.g. papers, chapters, reports)
- Training of Highly Qualified Personnel (HQP), e.g. students
- Participants at formal ONC workshops and training events
- Funded proposals leveraging core ONC facilities and resources

## 3) Tracked as a relevant indicator, but not formally recognized

- Web site visits, document/file downloads
- Conference/Symposia abstracts/presentations
- Media coverage and readership
- Database/Observatory Performance (e.g. up-time, volume, number of instruments, % of time functioning)