



# ***Marine Spatial Data Infrastructure New and soon to come applications***





# What is an MSDI – Context for applications

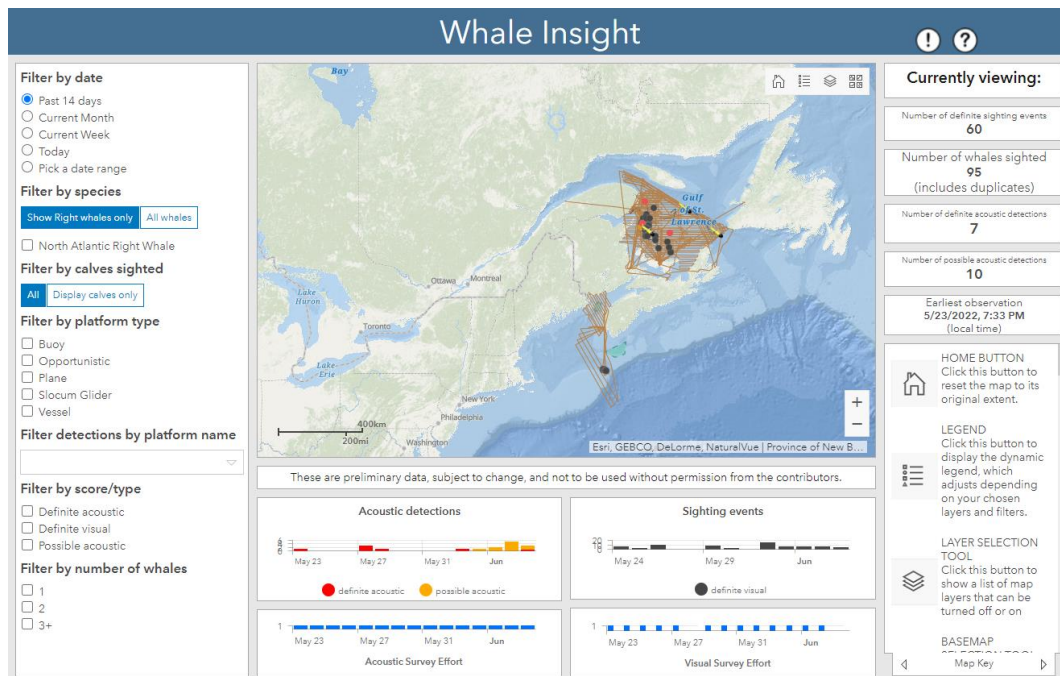
- A Marine Spatial Data Infrastructure (MSDI) is an element of an SDI that focuses on the governance, standards, Information and Communication Technology (ICT) of marine input and content.
- The MSDI concept is gaining wider appreciation due to the variety of data types combined for efficient analysis. Solutions apply to spatial planning, environmental management and emergency response, etc.
- It requires generic data storage for wide access and applications as opposed to product or purpose specific storage.
- An MSDI is an infrastructure that promotes interoperability of data at all levels.



# Status - Projects

## Whale Insight Map :

- Application migrated to MSDI
- Designed to communicate latest right whale observations and survey results to scientific, regulatory and industrial sectors
- Will inform more effective, dynamic planning of research and conservation activities.
- Public release on May 17, 2022





# Status - Projects

## PIER Field Data Collection:

- Field applications supporting Planning for Integrated Environmental Response
- Near-real time viewing, analysis and export of spatially referenced data collected by multiple field users simultaneously.
- Delivered 2021

11:27  
Chrome  
PIER Data Collector - Vegetation

English(en)

User Name  
u1pier

Date  
Monday, March 21, 2022

UTC Time  
3:24 PM

Province \*  
Nova Scotia

County  
Halifax

GPS Coordinates  
44.601°N 63.506°W

Click Here To Test

✓

11:28  
Chrome  
PIER Data Collector - Vegetation

Substrate Type \*  
Mixed

Substrate Percent Cover (%)  
50

Vegetation Type  
Vegetation Type 1  
Palmaria palmata

Vegetation Type 1 Presence/Absence  
Present-1

Vegetation Type 1 Percent Cover (%)  
50

1 of 1

Total Percent Cover (%)  
100

Summary  
Substrate Type: mixed;  
Substrate Percent Cover: 50%;  
Vegetation Species: palmaria\_palmata;

✓





# Status - Projects

## CAPRI 2.0:

- Canadian Aquaculture Public Reporting Interface
- Support transparency and public reporting of aquaculture activities
- Phase 1 completed
- Phase 2 underway and includes new data and added functionality

Government of Canada / Gouvernement du Canada

Canadian Aquaculture Public Reporting Interface

Info Search **View Data** Report

Facilities in view: 3

Select a facility from the list to view detailed drug and pesticide data.

8912 - Capilano River Salmon Hatchery
9046 - Mackay Creek Project
9055 - Nelson Creek Project

**Brunette River Project**

Facility Status: Active  
Facility Type: Land Based

[Create Report >](#)

No drug or pesticide use reported.

Version 1.1.49 (published 2022-02-23)

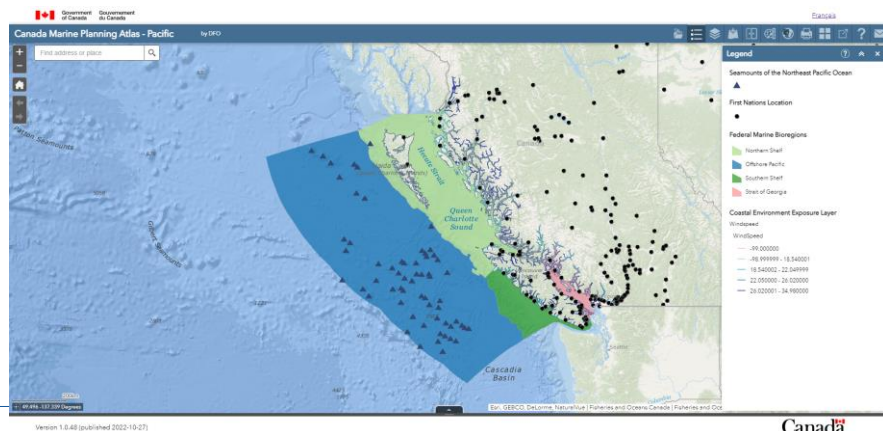
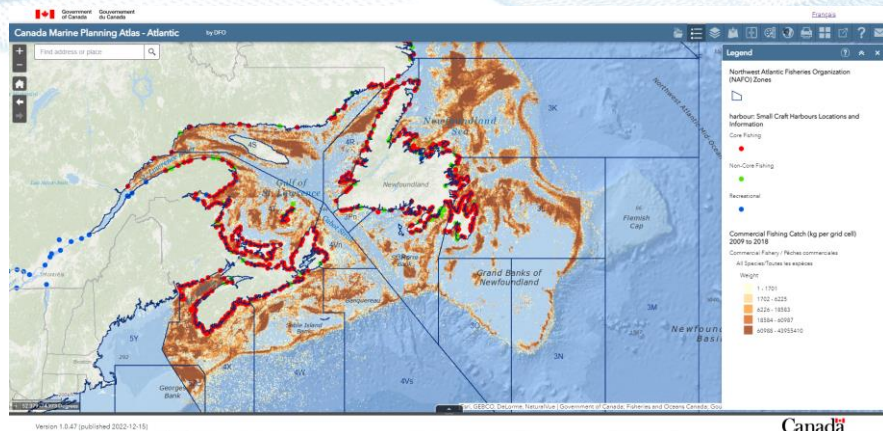
Canada



# Status – Projects

## Marine Spatial Planning Atlases:

- Soon to be released
- Areas: Atlantic and Pacific
- Goals:
  - Increase transparency of decision making
  - Aid in conflict resolution/consultation
  - Identify information gaps
  - Advance reconciliation with Indigenous groups



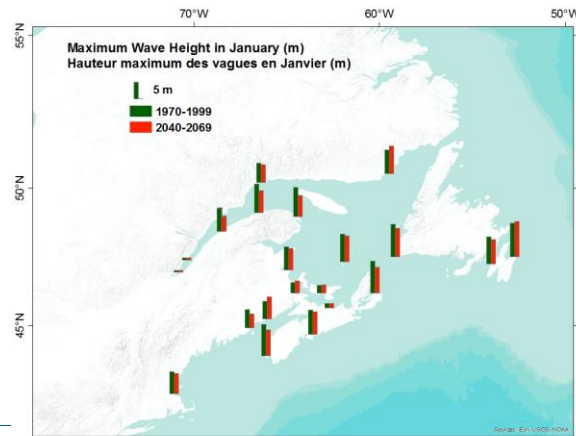
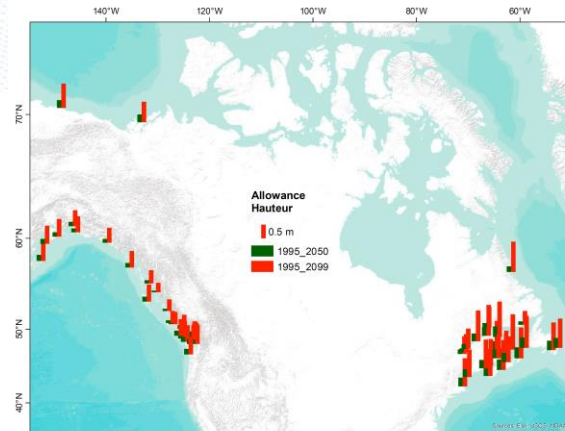


# Status – Projects

## Canadian - Extreme Water Level Adaptation Tool (CAN –EWLAT):

[Canadian Extreme Water Level Adaptation Tool \(CAN-EWLAT\)](https://bio.gc.ca)  
([bio.gc.ca](https://bio.gc.ca))

- In process of migration to MSDI
- Clients: DFO, Small Craft Harbours
- Two products: height allowance, wave climate
- Leverages CHS's Continuous Vertical Datum for Canadian Waters Model
- Data: Small craft harbours locations, tide gauges, sea level rise predictions, reference water levels, wave heights prediction





# Questions ?

For any questions please contact the MSDI team:

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