



CIOOS

CANADIAN INTEGRATED
OCEAN OBSERVING SYSTEM

CIOOS Update

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Scott Bruce, CIOOS Atlantic / Marine Institute

June 14, 2022

Funded by:  Fisheries and Oceans
Canada

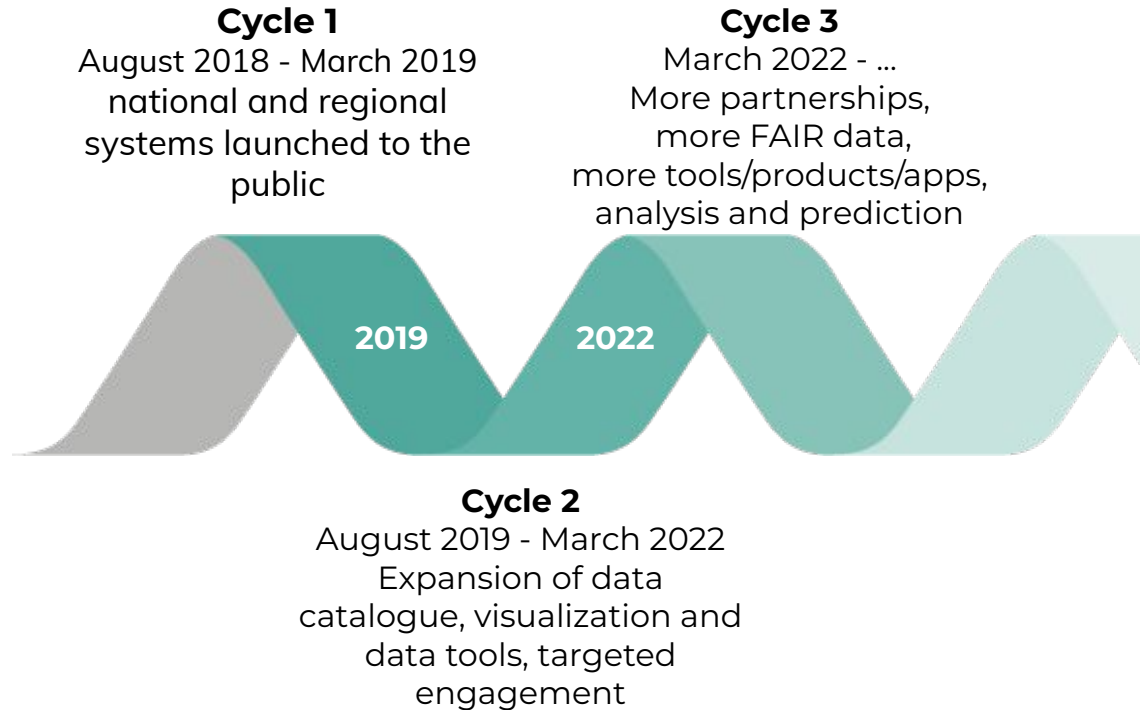
Pêches et Océans
Canada



Founded Through Collaboration

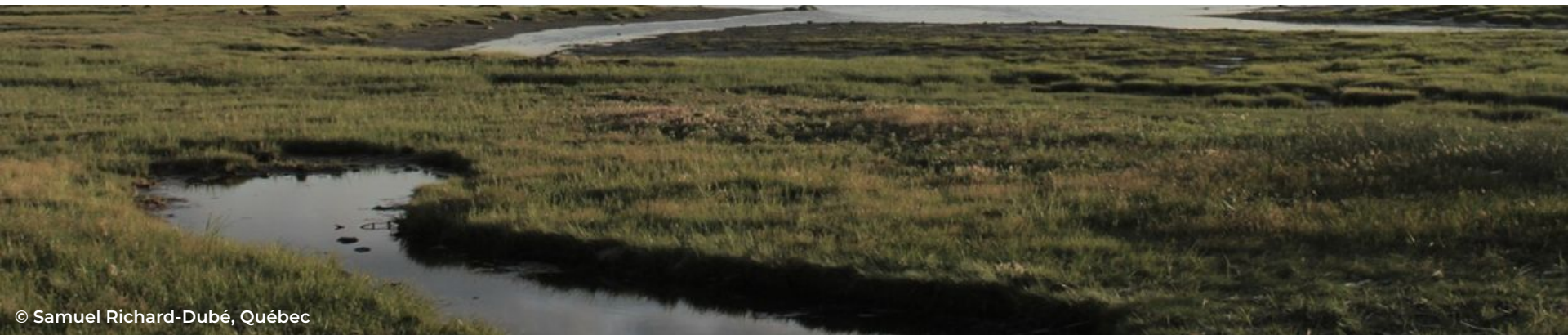


CIOOS - 2022 and beyond



Our Vision

*“As Canada’s nucleus for ocean observing,
CIOOS makes connections
for a sustainable ocean future.”*

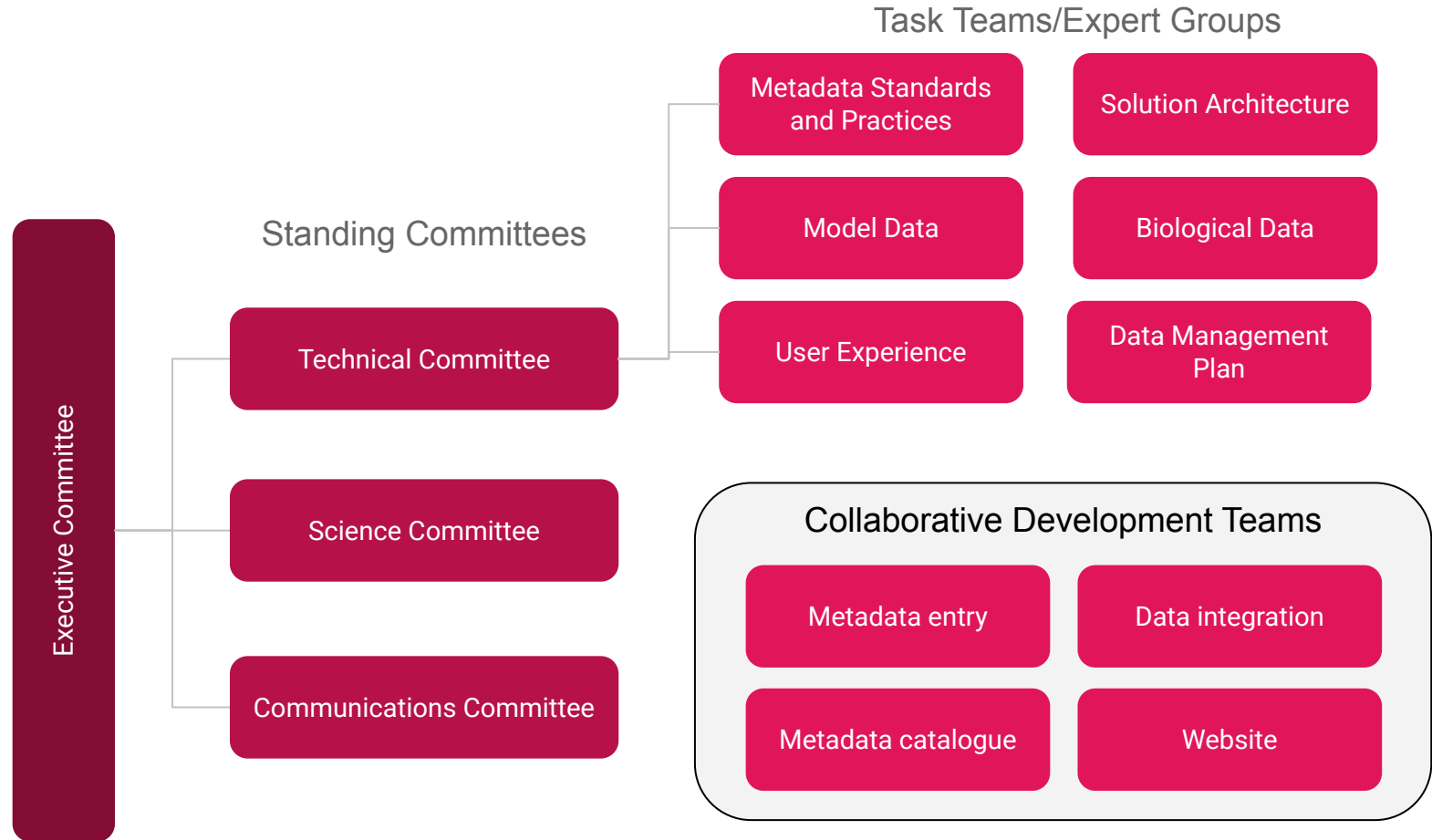


Our Mission

“To foster partnerships and grow a powerful online platform that generates information, knowledge, and place-based solutions to advance our understanding of the ocean.”



CIOOS Governance Structure





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Technical Highlights

CIOOS Structure

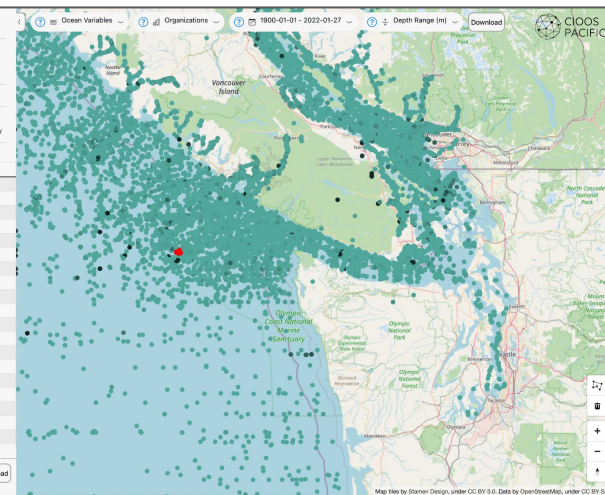
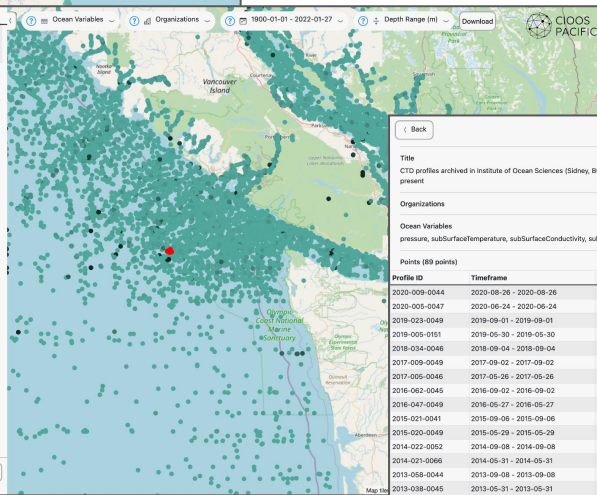
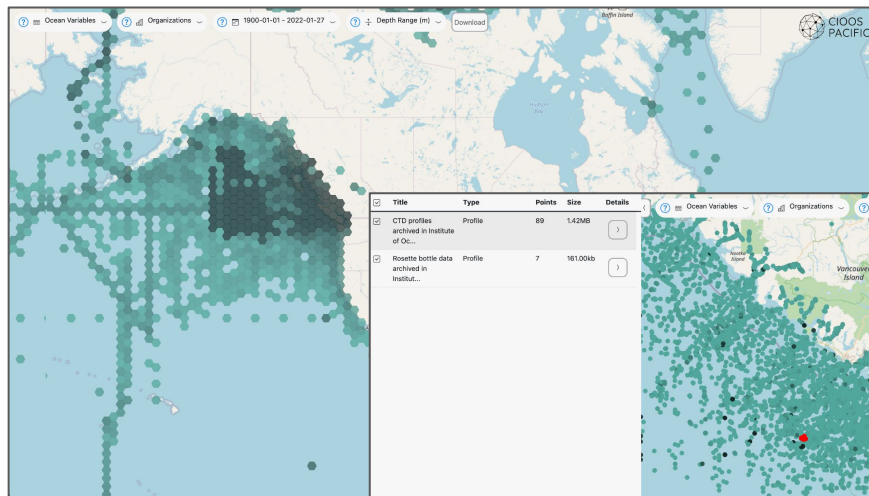


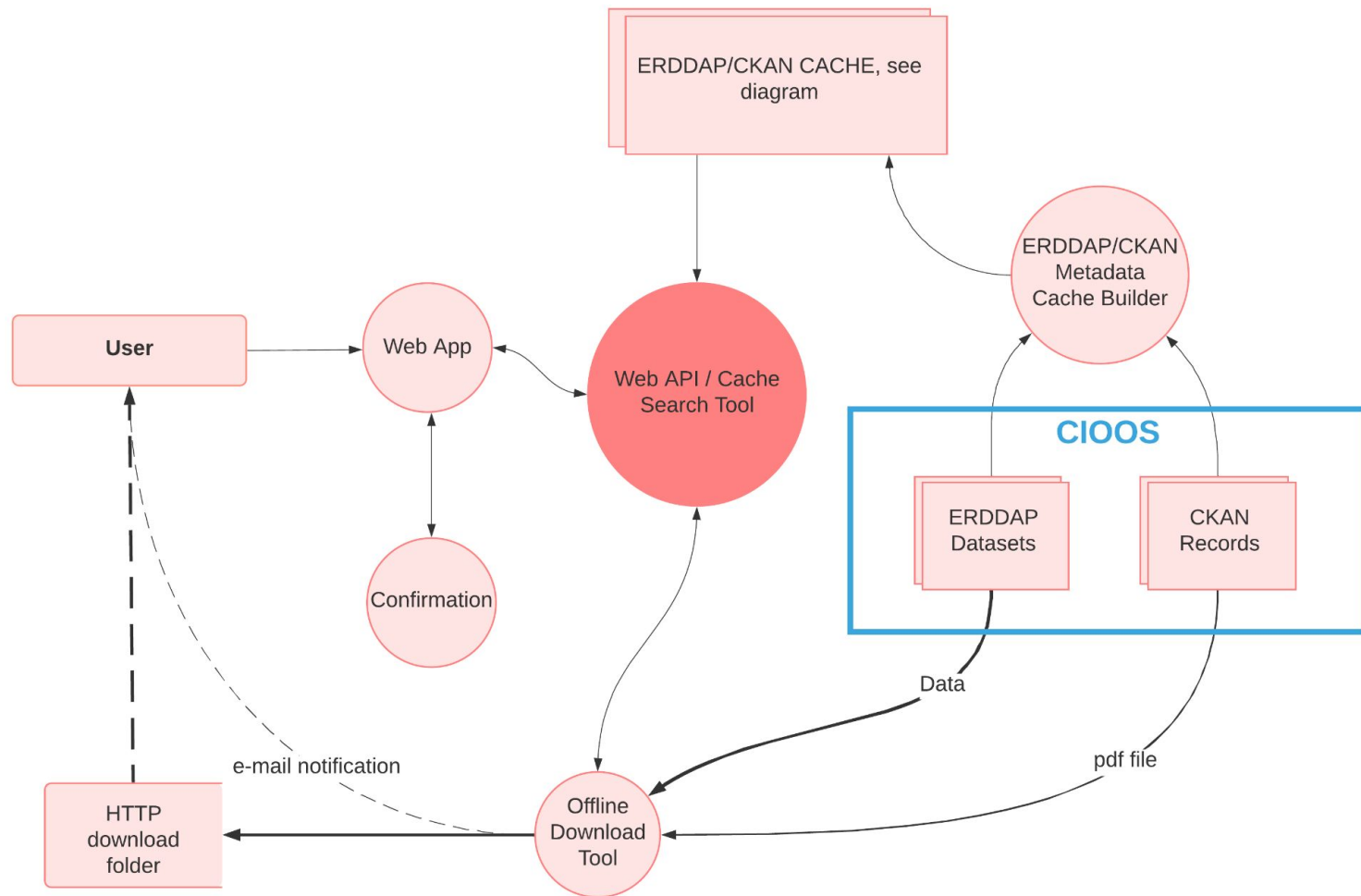
Collaborative Development / Sprints

- CIOOS Sprints
 - Revamped common theme for CIOOS websites
 - Explored path to use CIOOS as an onramp to the GTS through MEDS
 - Migrating to CKAN 2.9.x / Python 3
 - Biological data, CIOOS metadata form can generate EML for OBIS
 - Polar Data hackathons, many Arctic organizations using ERDDAP and other OPeNDAP implementations
- IOOS sprints
 - CIOOS participation in IOOS code sprint, very positive, productive and informative experience
- We want more with IOOS!

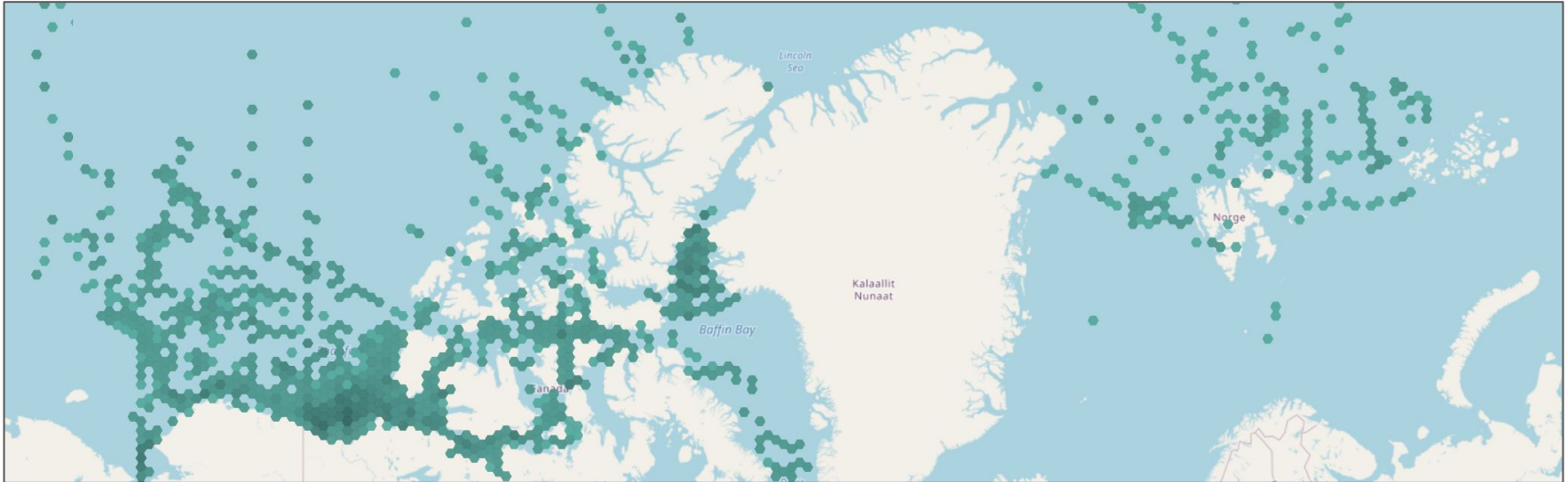
CIOOS Data Explorer

Check it out!
explore.cioos.ca



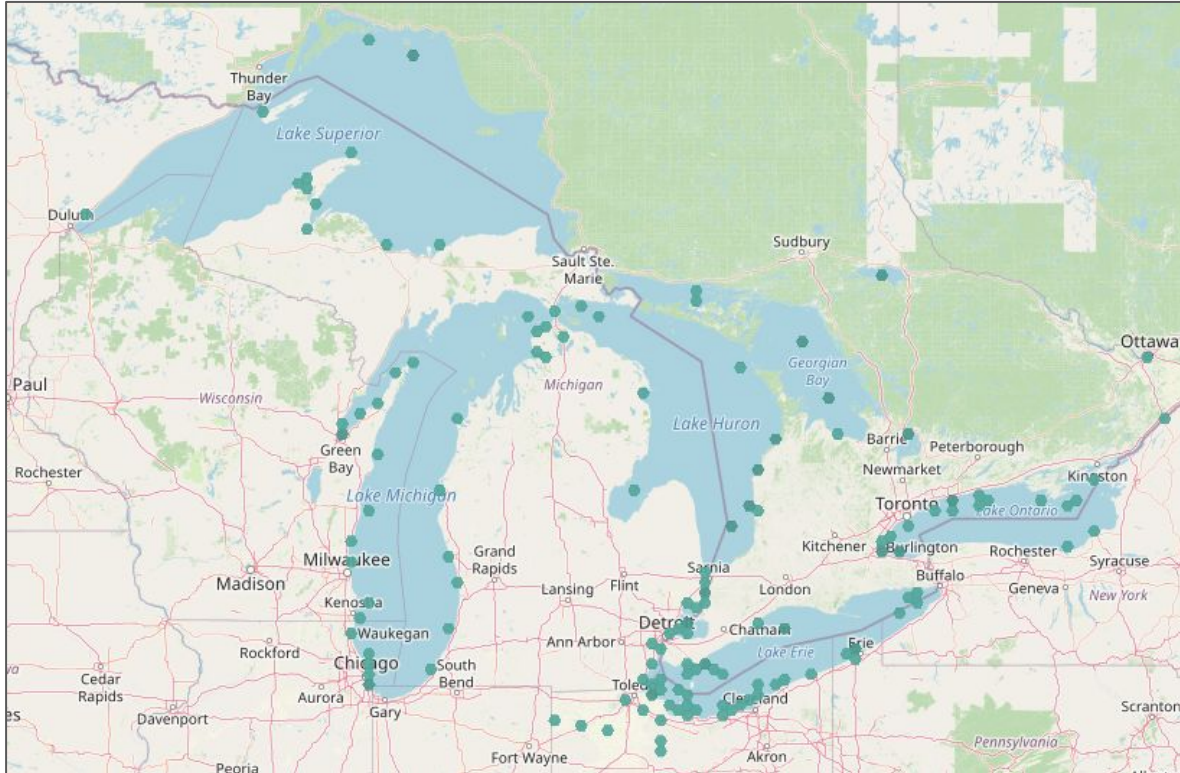


Arctic Data in CIOOS



- Already includes ocean data collected by DFO, ONC, etc. going back to the 1950's
- Variables available include Temperature, Salinity, Nutrients, Currents
- Ongoing efforts to make additional data available from cruises, observatories, and community monitoring programs

GLOS Data in CIOOS



Integrating GLOS data into
the CIOOS Data Explorer
was easy!



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Looking Forward



Key Areas of Focus - CIOOS

- Strengthening partnerships for improved ocean observations and service delivery.
- Improving the discoverability, accessibility and interoperability of Canadian Oceanographic Data.
- Converting ocean data into information and knowledge through the development and use of tools, products and applications.
- Increasing the ability to understand current states and predict future states of Canada's three oceans by supporting and sharing modelling, hindcasting and forecasting outputs.



Key Areas of Focus - Technical

- Common vocabularies, keywords, and emerging EOVs; basic data quality control; data versioning; DOIs and data citation
- Biological, modelled, and real-time data
- Sharing of less public data
- Continued technical collaboration (ie. with IOOS, IOOS RAs, others)



CIOOS

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This project would not be possible without the financial support and the continued involvement of these organizations :



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Tula
TULA FOUNDATION



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