

CIOOS CANADIAN INTEGRATED OCEAN OBSERVING SYSTEM

On collaboration & next steps in CIOOS

Mike Smit Professor, Dalhousie University Co-chair, CIOOS Technical Committee



Funded by :



Fisheries and Oceans Canada Pêches et Océans Canada



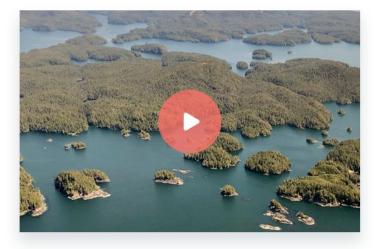


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CIOOS brings together all of Canada's coastal and ocean data.

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CIOOS works across the nation and across sectors to unite the knowledge, expertise, and infrastructure of Canada's ocean observing community



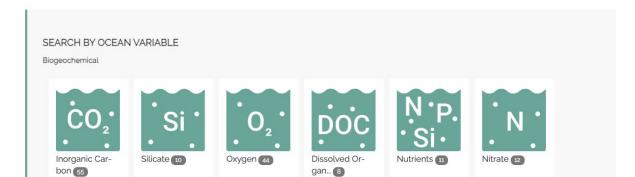
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CIOOS Data Catalogue

Search, find, download — all of our 1532 datasets.

SEARCH BY KEYWORD

E.g. temperature	



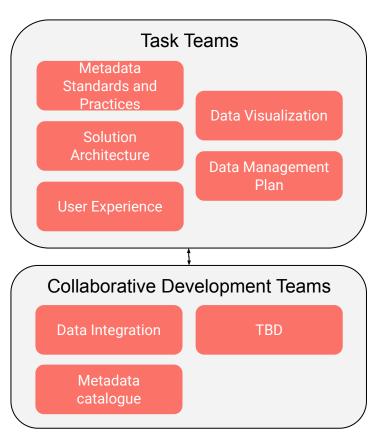


Collaborative Development

Throwback to previous DMAC meeting

Technical Committee

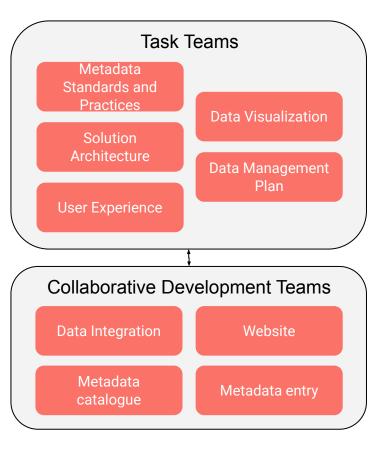
- Provides oversight and coordination of all the technical aspects of the CIOOS pilot project.
- Initiates, coordinates and monitors all Task Teams with specific mandates and deliverables.
- Acts as the liaison between the Executive Committee (ExCom) and CIOOS technical community.



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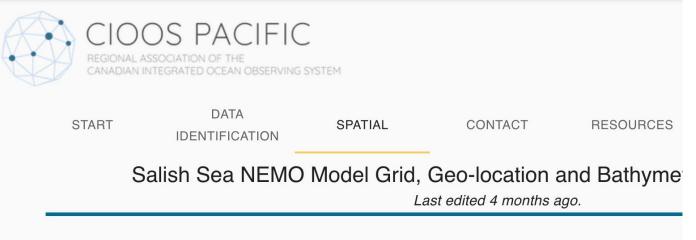


Collaborative Development

- Less talk, more doing
- One member per RA and DSN
 - Selection of projects of general / national interest
- Week-long code sprints
- Task chosen to be complete-able in that time
- Short stand-up meetings each day
- We now use them widely and routinely







What is the spatial extent of the dataset?

You can draw a bounding box or polygon for the dataset using the Polygon or Box buttons at the left side of ther them using the fields below. Either a bounding box or a Polygon is required.



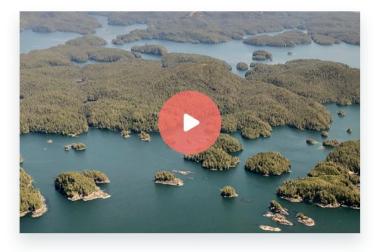


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help wanted	(1) Test harvesting of metadata form xml	11 Limit Container CPU usage ····			r mixed how request

- Architecture: improved understanding / communication
- Metadata form interoperability
- Better deployment procedures
- Styling and RA-specific • customizations

Team Members

	Metadata form	Data Integration	CKAN	Web
Nate Rosenstock				
Matt Foster				
Pramod Thupaki				
Jessy Barrette				
Joel Friesen				
Steve Van Der Valk				
Mac Button				
Germain Sauvé				
Julien Naumann				
Étienne Caxard				
Pauline Chauvet				
James Caveen				
Pascal Guillot				
Jacob Thompson				
Scott Bruce				
Jeff Cullis				
Odum Idika				

Atlantic	
Pacific/DSN	
SLGO	
UQAR	



CKAN

Metadata Form



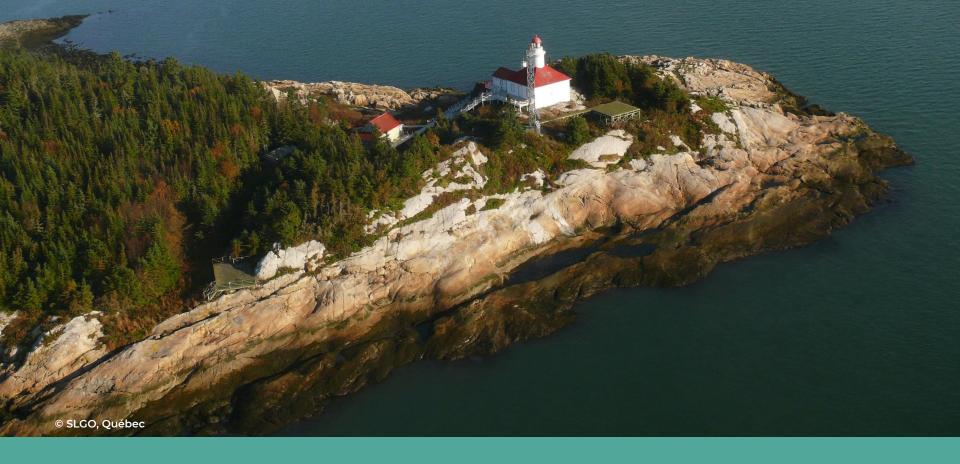


Collaborative Development

- Knowledge transfer
 - Resilience, sustainability of knowledge
- Builds contributors / maintainers, not users / adopters
- Not a new theoretical concept
- Social connection, organization spanning
- Great for focused productivity
- Not without costs
- Best done often

And we should note...

This could span more than organizational boundaries...



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 - Tech Comm

- New website theme development and roll-out
- Common vocabularies, keywords, and emerging EOVs; basic data quality control; data versioning; DOIs and data citation
- Next gen asset map
- CIOOS data access API
- Biological, modelled, and real-time data
- Less public data
- Continued data ingestion

VITALITY LEVERAGING CIOOS TO ACCELERATE THE OCEAN SECTOR

VITALITY will capitalize on Canada's ocean data to deliver definitive commercial outcomes to the businesses involved and support the resolution of near-term labour, skill and capability by developing much-needed training programs. VITALITY is a collaboration of 10 partners across Canada, including companies, industry associations, research institutions, and non-profits. VITALITY is here to help you as an ocean business, ocean community, or as an ocean sector worker.



CANADA'S OCEAN SUPERCLUSTER

What Keeps Me Up at Night

- Sustained funding
- Significant observation gaps
- Meaningful inclusion of Arctic
- Demand for more complicated data
- The challenge in communicating our value and necessity



Thank You



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