

Ocean Networks Canada – DDCI Update (October 2020)

Following Kate Moran's update to the OOIFB (Oct 14):

- ONC is in year 4 of a 6 year funding cycle to the Canadian Foundation for Innovation (CFI), but requests for an application for the next cycle could come as early as 2021.
- ONC receives 60% of core operating funding from CFI, which is on the order of \$25M/year.
- In preparation for the next funding cycle (2023-28), ONC solicited **Expressions of Interest** from the research community, receiving over 75 proposal summaries. We are building a Science Strategy Plan, which will be the core of the next CFI proposal.
- One of only a few Major Science Initiatives able to keep operating.

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2020

- Executed four maintenance expeditions, including one just prior to the COVID shutdown (March 2020), and three during (June, August, Sept). Crewing limitation reduced the staffing, but many objectives were met. A primary Node at Barkley Canyon has yet to be repaired: cable ship issues.
- Most Marine Operations were sustained throughout the shutdown, including travel to most remote field stations (in BC). Trips to the Arctic were cancelled.
- Recruiting new users was a challenge, with meetings, workshops, conferences, and symposia all held in virtual venues. We see how successful the “booth” at AGU is at engaging new and potential facility users.

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2021 and beyond:

A mid-term (funding) ask to CFI for \$9M was successful (60%) to:

- Commission our Earthquake Early Warning system
- Maintain our Community Observing Network
- Develop a BGC Argo Float program
- Refurbish core infrastructure: SI Node, MTC facilities, NEPTUNE design
- Enhance Oceans 2.0 → Oceans 3.0

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Oceans 2.0

- Manages and monitors all connected infrastructure
- Manages all data and metadata, and tools to access data

Oceans 3.0

- Accelerate transformation of data into knowledge
- Leverage and enhance machine to machine interoperability
- Support Artificial Intelligence, Machine Learning, and Cloud-based (Jupyter style) data exploration: make the database more discoverable.