

A summer of science
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e-Newsletter | August 2017

All eyes on Cambridge Bay: Fish Eye Project's live Arctic dives



For the first time in Canadian history, a group of marine biologists, educators and divers successfully broadcast live across the country from the frigid Arctic Ocean. On 27 August, Victoria-based Fish Eye Project climbed aboard the Canada Coast to Coast (C3) expedition ice breaker in Cambridge Bay and hosted a broadcast that provided Canadians with an opportunity to experience a glimpse of Arctic marine life.

Sponsored by Ocean Networks Canada (ONC), the English and French live dives—streamed live on the Canada C3 Facebook page—were viewed close to 200,000 times in less than a week. See for yourself! [Read more](#)

[Turning data into knowledge to build a smart ocean](#)

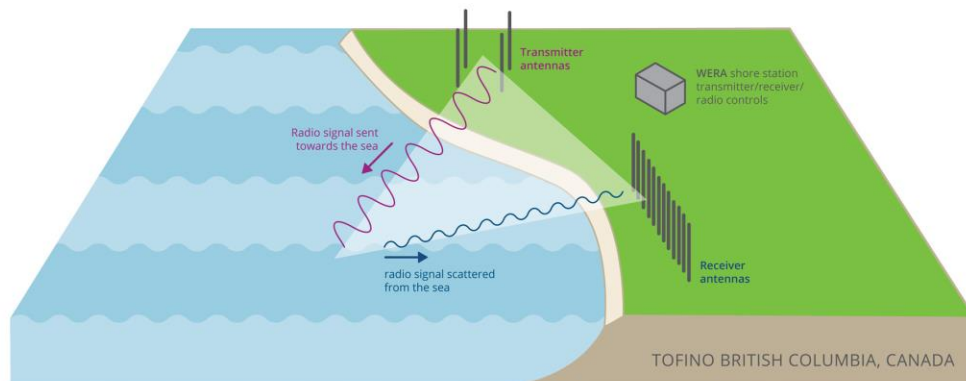
THE SMART OCEAN SYSTEMS™ ECOSYSTEM 2014-2017



The Canada Foundation for Innovation has supported ONC since 2002. In 2014, Transport Canada, Western Economic Diversification, and IBM Canada wisely invested in a vision to take ONC's decade of deep sea ocean observing science, data, and infrastructure to the next level.

After three years of hard work, collaboration, and innovation, this timely investment bore fruit in April 2017 when ONC successfully delivered an impressive suite of Smart Ocean Systems™ infrastructure, services, and data product prototypes, positioning Canada as a global leader in ocean technology, data management, and responsible ocean management. [Read more](#)

[Real-time radar data spurs international gathering](#)



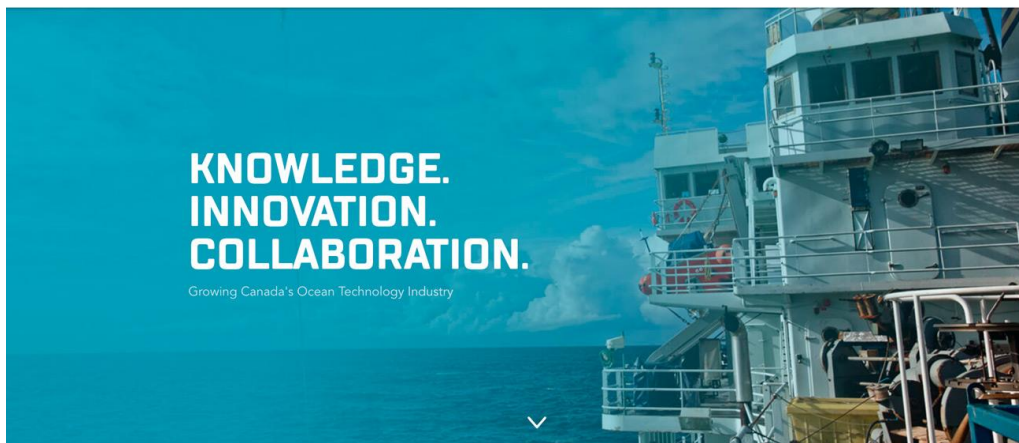
ONC'S HIGH FREQUENCY OCEANOGRAPHIC WERA RADAR

In June, ONC hosted a WERA high-frequency oceanographic radar workshop to discuss “first ever” real-time data that detected tsunami waves when Typhoon Songda hit the west coast of Canada in October 2016, triggering a tsunami alert on the WERA system. [Read more](#)

OTAC website aims to boost Canada's ocean technology sector



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One of ONC's goals as a Centre of Excellence is to strengthen domestic collaboration nationally. To meet this objective, in 2012 ONC's Innovation Centre facilitated the creation of the Ocean Technology Alliance Canada (OTAC), linking Canada's regional associations to help grow the economic capacity of the nation's ocean technology sector.

In December 2016, OTAC was formally incorporated as a national association for the ocean technology sector. In August 2017, a new OTAC website was launched to take this Canada-wide blue economy collaboration to the next level. [Read more](#)

New underwater cameras provide real-time window on the ocean

Following the installation and maintenance of deep sea cameras during Expedition 2017, ONC now has a total of seven high-definition underwater cameras, providing scientists and the public with a real-time visual window onto life in the northeast Pacific. "Sea" for yourself and [watch live on our new Live Video webpage](#).

Marine Life Field Guide version 2.0

The [second edition of the Marine Life Field Guide](#), a visual reference to deep sea creatures of the northeast Pacific Ocean, contains more than 100 new images (including 43 species not included in the first edition) captured by cameras on ONC's subsea observatories and expeditions. More than half of the pictures were taken at depths of over 1,000 metres.

Recent publications using ONC data

A Response Function Approach for Rapid Far-Field Tsunami Forecasting. [Read abstract](#)

Tsunami Detection by High Frequency Radar Beyond the Continental Shelf: II. Extension of Time Correlation Algorithm and Validation on Realistic Case Studies. [Read abstract](#)

Wavelet Based Perspective on Variational Enhancement Technique for Underwater Imagery. [Read abstract](#)

PhD Theses

Crustal Deformation Associated with Great Subduction Earthquakes. [Read abstract](#)

The Use of New Multiparametric Observatory Platforms for the Remote Monitoring and Exploration of Deep-Sea Ecosystems at Day-Night and Seasonal Temporal Scales. [Read abstract](#)

In the ocean and on the web

Clear Seas, an independent research centre that promotes safe and sustainable marine shipping in Canada, has launched a new informative and interactive website that focuses on [Underwater Noise and Marine Mammals](#).

Conferences and workshops

ONC staff, user community members, and students are attending the following conferences:

- 17-20 September, [Eastern Pacific Ocean Conference](#), Stanford Sierra Camp, CA
- 18-21 September, [OCEANS 17 MTS/IEEE](#), Anchorage, AK

Call for Abstracts: Arctic Change

ONC will host a booth at [Arctic Change](#) (11-15 December, Quebec City). Calls for abstracts close on 8 September.

ONC Student Award Program

Need travel support to present your research results? ONC has [funds to support student and post-doc presentations](#) at national and international symposia related to research using ONC data.

In the news

[North Saanich firm making a splash in ocean research](#), BC Local News

[Diving head first into a sea of Arctic knowledge](#), Nunatsiaq News Online

[Marine conservationist urges better listening skills](#), Halifax Chronicle Herald

[Underwater livestream from Arctic Ocean to be Canadian 1st](#), CBC News BC

[Live-streamed underwater dives will offer watery window on Arctic life](#), Victoria Times Colonist

[Canadian military developing surveillance system to monitor Arctic waters](#), CBC News North

[Telepresence robot 2000 leagues under the sea](#), Hackaday.com

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