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**DISCOVER THE OCEAN.
UNDERSTAND THE PLANET.**

e-Newsletter | September 2016

Inshore Expedition 5-10 October



During the six-day expedition in the Strait of Georgia and Saanich Inlet, a team from Ocean Networks Canada (ONC) will maintain, install and improve instrumentation on the cabled ocean observing systems. Highlights include: upgrades to the [delta dynamics platform](#) at the mouth of the Fraser River that is helping understand underwater landslides; and upgrades to the Fraser Port Authority's [Underwater Listening Station](#), used to monitor underwater vessel noise.

This joint expedition is led by ONC and Natural Resources Canada using the Canadian Coast Guard Vessel *John P. Tully* and ITB Subsea's remotely operated vehicle *Oceanic Explorer*.

Watch LIVE from 7am-7pm and follow daily updates via [Twitter](#), [Facebook](#) and [Flickr](#).

Cambridge Bay at the crossroads of history and climate science



In late summer 2016, Cambridge Bay, Nunavut found itself at the centre of an arctic crossroads of sorts: a pivotal meeting place where ice-bound history is melting into climate science. A week after the first luxury cruise ship sailed through a virtually ice-free Northwest Passage and anchored in Cambridge Bay, the wreck of Franklin's ship *The Terror*—abandoned in 1845 due to impenetrable sea-ice—was finally discovered in Terror Bay, just 200 km east. ONC was also in Cambridge Bay for the annual Arctic observatory maintenance expedition. Pictured above: ONC's Arctic Youth Science Ambassador, Mia Otokiak (left), and her mother posing in front of the luxury cruise ship *Crystal Serenity* (centre) and its pilot ship *RRS Ernest Shackleton* (far left). [Read more](#)

Co-op student improves thermodynamic sea-ice model



Undergraduate student, Ada Loewen, just completed her co-op term at ONC as part of her combined University of Victoria degree in physics and ocean sciences. Using data from the Cambridge Bay observatory, Ada improved a one-dimensional thermodynamic sea-ice model funded through ONC's [Safe Passage](#) project with Polar Knowledge Canada. [Read more](#)

CANARIE funding supports new tools for big data



On 13 September, MP John Aldag officially announced the CANARIE investment of \$577,000 to enhance access to and processing of big data collected by ONC. ONC's cabled ocean observatories support hundreds of underwater and on-land sensors that generate a huge volume of continuous, high-resolution data about the ocean.

As the size of ONC's data archive grows the need for enhanced tools to help researchers efficiently process and understand a fire hose of data is critical. In fact, the research community has driven the need and requirements for these tools, which will improve ONC's powerful online data management system—Oceans 2.0. [Read more](#)

ONC & Victoria's Capital Regional District monitor ocean conditions



Victoria is infamous for its practice of discharging screened, but otherwise untreated, municipal sewage into Juan de Fuca Strait. Starting in early 2013, ONC has been partnering with Victoria's Capital Regional District to help measure the impacts of their outfalls on the local marine environment.

"This study suggests that sewage outfall is likely having minimal impact on oxygen levels in the Salish Sea," comments Richard Dewey, ONC's Associate Director for Science Services. [Read more](#)

Sonic Sea



On Sunday, 25 September 2016, ONC hosted a screening of the documentary *Sonic Sea*, as part of the Victoria Film Festival's inaugural Wild Water Film Festival. The well-attended screening was followed by a panel discussion about mitigating the effects of ocean noise on marine mammals, and a reception at the Maritime Museum of British Columbia. Pictured above (l-r) are panelists Tom Dakin, ONC; Kate Moran, ONC; Michael Jasny, Natural Resources Defense Council; and emcee Sarika Cullis-Suzuki, joined by Don Prittie, Maritime Museum of BC. [List of future Sonic Sea screenings.](#)

Conferences

ONC staff, users and students are presenting at the following conferences this fall:

4-5 October | [Ocean Innovation](#), Iqaluit, Nunavut

13-14 October | Colombia Ocean Commission CINTECMAR 2016, Bogotá, Columbia

21 October | [BC Science Teacher's Association Catalyst Conference](#), Richmond, BC*

23-28 October | [Ocean Optics XXIII](#), Victoria, British Columbia*

26-27 October | [Vancouver Island Economic Summit](#), Nanaimo, British Columbia

*ONC hosting a booth.

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

[A Worldwide Survey of Recent Ocean Observatory Activities 2016 Update](#) | Ocean News & Technology

[Q&A with Kate Moran](#) | Journal of Ocean Technology

[How ready is B.C. for 'the big one' when it hits?](#) | The Weather Network

[Q&A: ONC's Earthquake Early Warning Sensors](#) | Sea Technology Magazine

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