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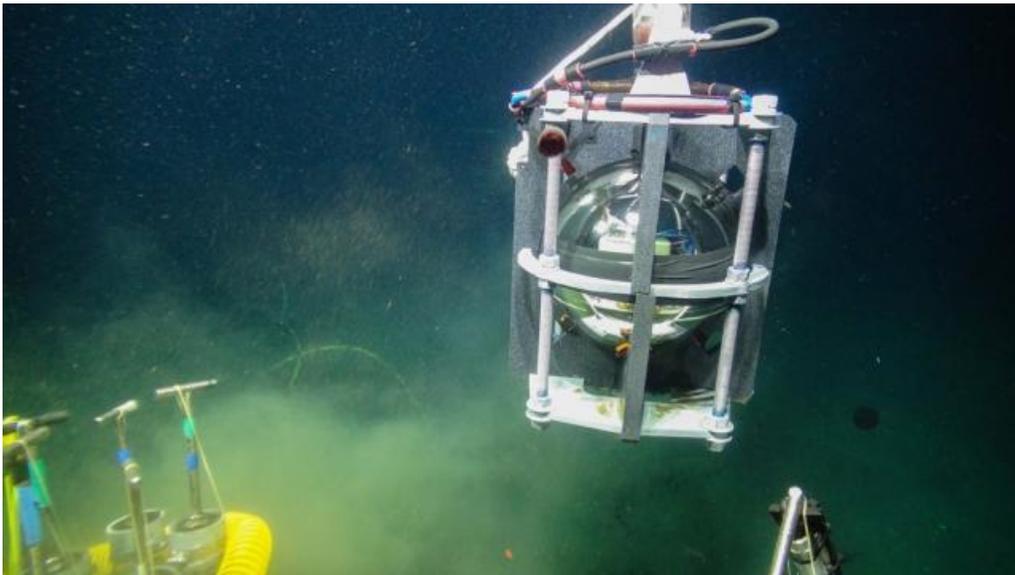


**DISCOVER THE OCEAN.
UNDERSTAND THE PLANET.**

e-Newsletter | August 2016

Earthquake Early Warning

Deployed: the first spike for British Columbia's earthquake early warning system



In June 2016, Ocean Networks Canada (ONC) successfully deployed and connected the first of several earthquake early warning sensors on the Cascadia subduction zone. It will be part of a network of seismic sensors that ONC will install underwater and on land as part of an earthquake early warning system funded by Emergency Management British Columbia.

With the support of the University of Alaska's research vessel *Sikuliaq* and Woods Hole Oceanographic Institute's remotely operated vehicle Jason, ONC deployed the earthquake early warning sensor on the Cascadia subduction zone during its recent

Expedition 2016: Wiring the Abyss. This sensor—a Titan accelerometer—is encased in a glass sphere to withstand the pressure in water depths of 850 m at Barkley Canyon. [Watch the installation video](#). [Read more](#)

Innovation

Cambridge Bay observatory monitors Arctic ocean health and safety



As shrinking sea ice ushers in a new era for arctic tourism, ONC's newly expanded Cambridge Bay observatory becomes a vital tool for monitoring ocean health and marine safety. The **Cambridge Bay observatory** has been in operation for four years, providing live, real-time ocean monitoring using sensors that measure temperature, oxygen, salinity, sea ice, underwater noise, marine life, as well as underwater and onshore cameras and much more. [Read more](#)

Science

INCISE 2016 hosts the international submarine canyon community



Imagine the Grand Canyon submerged underwater. Now multiply that by 10,000. That's how many underwater canyons have been identified in the global ocean over the last decade. But while the scientific exploration of canyons advances, so does the human footprint. Increased demand for energy, minerals and fisheries makes it all the more urgent for us to understand and protect these dynamic ecosystems before they are altered or damaged by human impacts.

This summer, an international community of submarine canyon scientists gathered in Victoria, British Columbia to present state-of-the-art research and discuss new technology, marine policy, and conservation. From 25-27 July, ONC hosted the third INCISE International Submarine Canyon Symposium, the first to be held in North America. [Read more](#)

Canadian scientist awarded for exceptional contribution to Earth science



Congratulations to Dr. Kelin Wang for being elected a Fellow of the American Geophysical Union (AGU), an honour provided to only 0.1% of AGU's 62,000 plus members. Kelin and his students are studying the geodynamics of subduction zones, especially processes related to the generation of large earthquakes and tsunamis around the world. His models for earthquakes inform building codes, risk assessments, and tsunami preparedness along the Pacific coast of North America. This work is relevant to the tsunami research being done at ONC. [Read more](#)

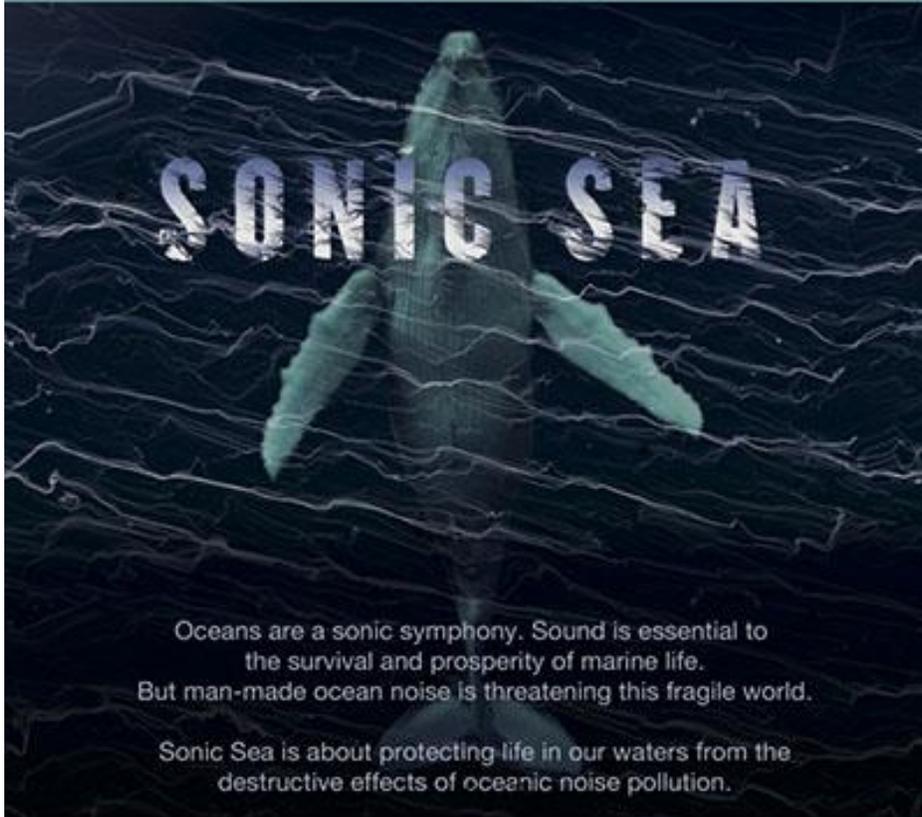
Learning

ONC joins the Wild Water: Victoria International Film Festival

24 September 1-4 pm Join ONC and the Maritime Museum of BC for hands-on activities for the whole family. [Read more](#)

25 September 7 pm ONC is sponsoring a film screening and panel discussion of the 60-minute documentary [Sonic Sea](#) followed by post-screening discussion about the effects of underwater noise pollution. *Sonic Sea* is a 60-minute documentary about the impact of industrial and military ocean noise on whales and other marine life. [Purchase tickets.](#) [Read more](#)

Wild Water: Victoria International Water Film Festival
and Ocean Networks Canada presents



Oceans are a sonic symphony. Sound is essential to the survival and prosperity of marine life. But man-made ocean noise is threatening this fragile world.

Sonic Sea is about protecting life in our waters from the destructive effects of oceanic noise pollution.

7pm Sunday 25 September, 2016

60 MINUTE FILM FOLLOWED BY POST SCREENING DISCUSSION

Kate Moran, President & CEO of Ocean Networks Canada
Michael Jasny, Director of Marine Mammal Protection Program, NRDC
Jennifer Jackson, Physical Oceanographer, Hakai Institute
Sarika Cullis-Suzuki, PhD visiting scientist at Ocean Networks Canada

The Vic Theatre, 808 Douglas St

Admission \$12

Advance Tickets + INFO

www.WildWaterFestival.ca

Conferences & Workshops

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

19-23 September | [MTS/IEEE Oceans '16, Monterey, California*](#)
21-24 September | [Eastern Pacific Ocean Conference, Mt. Hood, Oregon](#)
27-29 September | [Ocean Observatory Initiative Workshop, Portland, Oregon](#)
1-3 November | [North Pacific Marine Science Organization, San Diego, California](#)
7-10 November | [Emergency Preparedness and Business Continuity, Vancouver, BC*](#)
9-11 November | [Oceanology International China, Shanghai, China*](#)
5-9 December | [ArcticNet Annual Scientific Meeting, Winnipeg, Manitoba*](#)
12-16 December | [American Geophysical Union Fall Meeting, San Francisco, California*](#)

*ONC hosting a booth.

Call for Abstracts! The following conference is accepting abstracts. Visit their site for more information:

5-9 December | [ArcticNet Annual Scientific Meeting](#) (deadline 3 October)

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

[First B.C. offshore earthquake early warning sensor up and running](#) | CBC News

[A groundbreaking effort against 'the big one'](#) | Globe and Mail

[How a massive quake would shake Canada's financial system](#) | Globe and Mail

[New Modeling Integrated into Port Alberni's Exercise Coastal Response](#) | TsulInfo Alert pp 7-8

Congratulations to the [Ocean Frontier Institute \(OFI\)](#) on their [funding success!](#)

In addition to \$125 million in provincial government, partner and philanthropic funding The Government of Canada has contributed \$94 million for this collaborative ocean research initiative that will focus on the northwest Atlantic and Canadian Arctic gateway. [Read More](#)

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Ocean Networks Canada is a not-for-profit society established by the University of Victoria, BC
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