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

e-Newsletter | October 2016



Happy Halloween from Ocean Networks Canada!
Watch spooky deep sea videos on the [ONC YouTube Channel](#).

[Monitoring Saanich Inlet and the Strait of Georgia: fall inshore expedition](#)



On 11 October, Ocean Networks Canada (ONC) returned from an eight-day infrastructure maintenance expedition aboard the Canadian Coast Guard Vessel (CCGV) *John Tully* to maintain and upgrade ocean monitoring instrumentation in Saanich Inlet and the Strait of Georgia. The ONC team successfully deployed new instrumentation, carried out several activities in support of the science community, and collected samples for benchmarking and calibration of instruments. [Read more](#)

[The extent of habitat compression and hypoxia in Saanich Inlet from the 2016 hypoxia cycle](#)



How do you determine when a system has become oxygen deficient, or hypoxic, for the species in our marine ecosystems? Part of the answer comes from mapping where species are found in their habitat and then repeatedly mapping their habitat under changing oxygen conditions. October 2016 was the 13th time in ten years that ONC science users Jackson Chu (above) and Verena Tunnicliffe have repeated benthic hypoxia transects in Saanich Inlet during ONC expeditions. Through repeated observations, we get a sense of the year to year variability that feeds into our ability to predict the long-term consequences of oxygen loss on the ecosystems on our Pacific coast. [Read more](#)

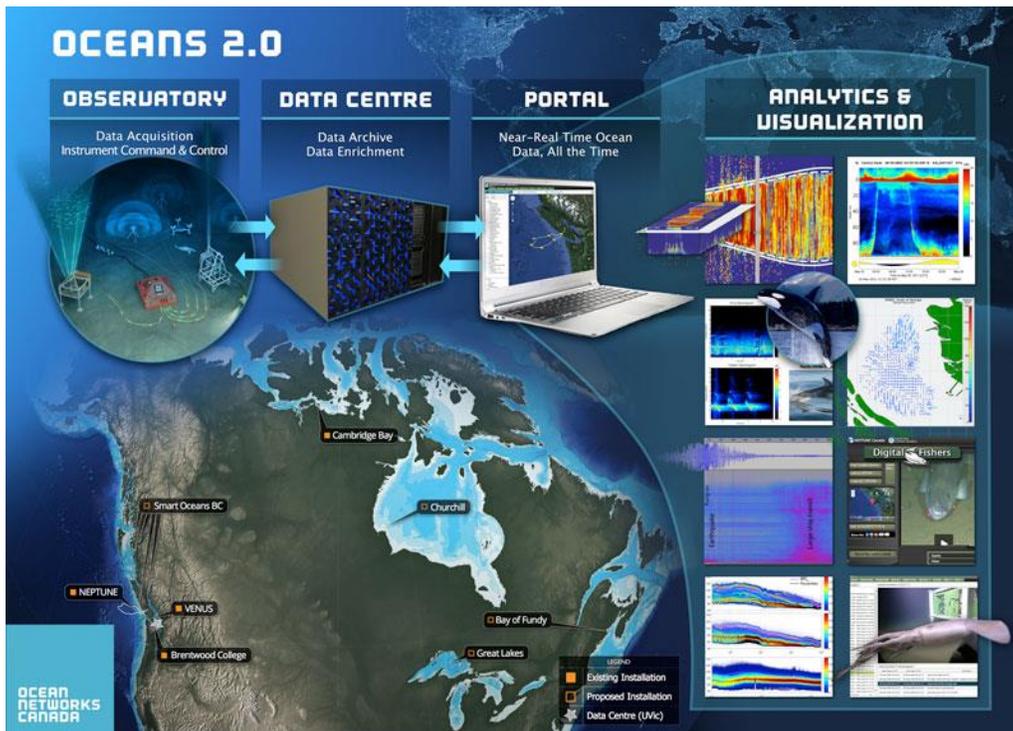
Sedimentary principles: marine geology, shrimp fisheries, and the impact of deep sea trawling



ONC visiting scientist Pere Puig is a marine geologist whose expertise in deep sea sediment dynamics is contributing to our growing understanding of the importance of submarine canyons. And, as the grandson of a shrimp fisherman in northern Spain, Pere's research is also having a direct influence on Mediterranean fishing practices. In 2012, Pere authored a leading research paper in *Nature*, documenting the detrimental impact of bottom trawling on the ocean ecosystem. "While the fishermen already knew that trawling gear was scraping the seafloor, they were unaware of the ecological implications of constantly removing sediment from fishing grounds," comments Pere. "Our study led them to think differently and to auto-impose a ban on the use of heavy bottom trawling gear in Spain's Palamós harbour."

ONC is no stranger to the effects of bottom trawling: ONC's Barkley Canyon installation was damaged by heavy duty fishing gear three times. [Read more](#)

Fisheries and Oceans Canada partners for a sustainable and healthy ocean future



Fisheries and Oceans Canada (DFO) is providing ONC with more than half a million dollars to organize its Pacific fisheries science, marine mammal, and ocean data. This pilot project will use ONC's powerful data management system, *Oceans 2.0*, to support science and make DFO data more open, accessible, and user-friendly for their decision-makers, stakeholders, academia, and Canadians. *Oceans 2.0* is recognized by the International Council for Science as part of the World Data System. [Read more](#)

Conferences

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

- 7-10 November | [Emergency Preparedness and Business Continuity](#), Vancouver, BC*
- 8-11 November | [PISCES 2016 Annual Meeting](#), San Diego, California
- 9-11 November | [Oceanology International China](#), Shanghai, China*
- 24-26 November | [FNEESC Annual Aboriginal Education Conference](#), Vancouver, BC*
- 28 November- 2 December | [Acoustics Society of America](#), Honolulu, Hawaii

*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

[Johanna Wagstaffe Podcast: Fault Lines, Episode 1 | CBC Radio](#)

[B.C. not using earthquake warning technology, says engineers | CBC News British Columbia](#)

[The ocean economy: Canada could be a global superpower | Globe and Mail OpEd](#)

[Earthquake detection technology can give Vancouver 90-second warning | Vancouver Metro](#)

[Earthquake early warning system closer to completion | News 1130](#)

[Quake early warning systems slowly taking shape | Saanich News \(+ 9 other outlets\)](#)

[Research centres aiming to address Canada's innovation problem | Globe and Mail](#)

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