

[Web browser version](#)



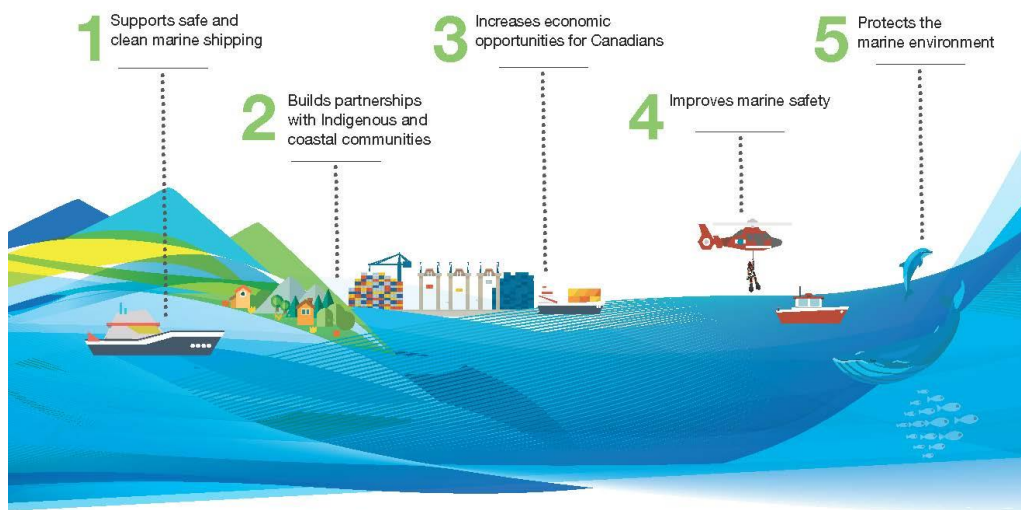
**DISCOVER THE OCEAN.
UNDERSTAND THE PLANET.**

e-Newsletter | November 2016

**Delivering a smart ocean for Canada:
Trudeau's historic Oceans Protection Plan**



\$1.5 Billion **National Oceans Protection Plan**

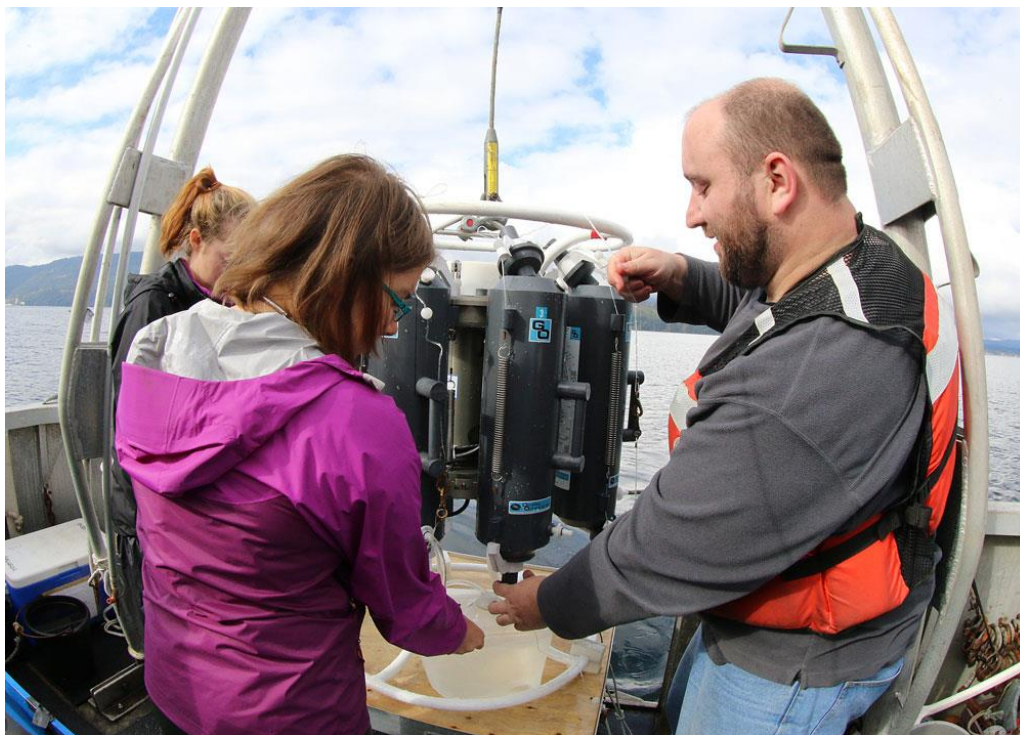


canada.ca/oceans-protection-plan

Canada

Ocean Networks Canada (ONC) applauds the Government of Canada for putting the ocean at the top of its agenda. On 7 November 2016, the Right Honourable Prime Minister Justin Trudeau announced a \$1.5 billion national Oceans Protection Plan that outlines measures to implement world-leading ocean safety and monitoring systems and strengthen engagement with Indigenous and coastal communities. This historic initiative will protect Canada's ocean and coastal ecosystems for generations to come. [Read more](#)

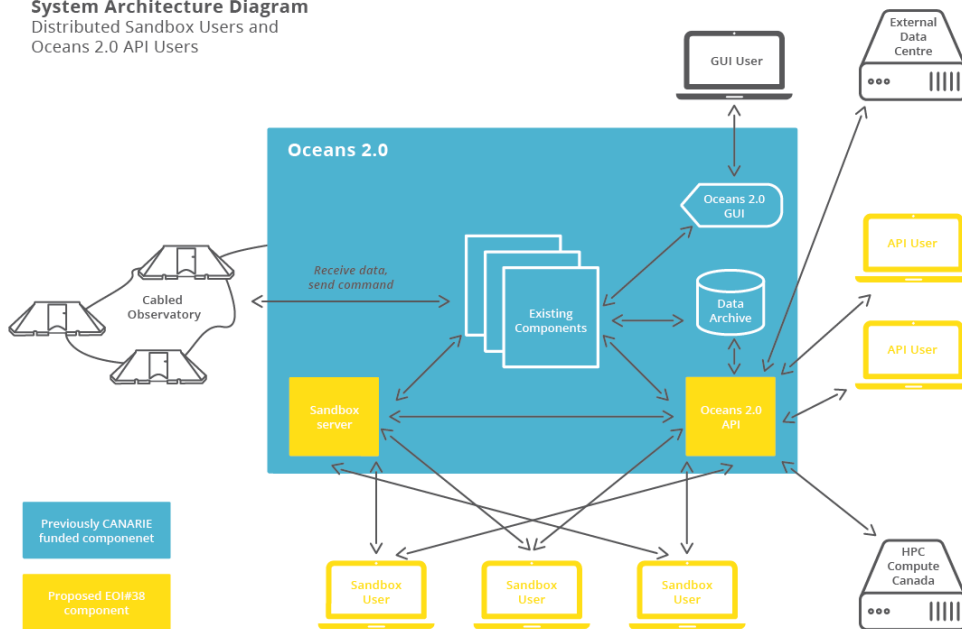
Saanich Inlet and the science of dead zones



Saanich Inlet is one of the best-studied marine basins in the world. A unique feature is the combination of geography, dense plankton populations, and deep water that is a natural “dead zone”—an area depleted in oxygen. Once a year, in the late summer or early fall, oxygen is naturally restored. The result is a fascinating study area for biologists, chemists, and sedimentologists. In June 2014, ONC installed a cabled water column profiling system in Saanich Inlet. This year, University of Victoria postdoctoral researcher Jeff Sorensen is leading a project to study how the chemistry of the Saanich inlet changes over the course of a year. [Read more](#)

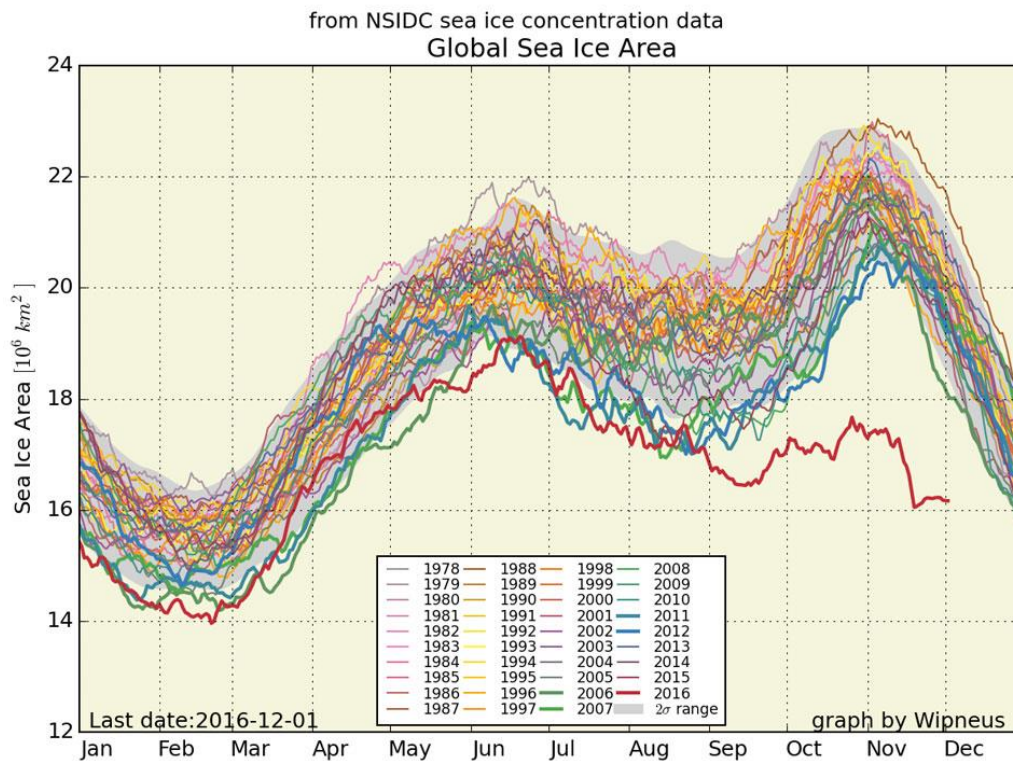
[Taking ocean data to the next level: custom web services for marine decision-making](#)

System Architecture Diagram
Distributed Sandbox Users and
Oceans 2.0 API Users



With hundreds of instruments monitoring Canada's marine environment, ONC gathers the same amount of data as the Hubble Telescope. Turning a firehose of high resolution data into useful knowledge is the challenge of the century. ONC's robust and sophisticated data management system, Oceans 2.0, is already recognized as a state-of-the-art ocean management tool for marine decision-making, and it's about to get even better. [Read more](#)

Arctic sea ice: slow growth in 2016



While global temperature tracking is suggesting 2016 will follow 2014 and 2015 as the warmest year on record, the effects are acute and immediate in the Canadian Arctic where climate change has already warmed more than twice the global average. This warming is having a dramatic effect on Arctic sea ice, with reports of both low geographic coverage and low total thickness. [Read more](#)

Conferences and Workshops

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

4 December | [Compter Vision for Analysis of Underwater Imagery](#), Cancún, Mexico

4-8 December | [International Conference on Pattern Recognition](#), Cancún, Mexico

5-9 December | [ArcticNet Annual Scientific Meeting 2016*](#), Winnipeg, Manitoba

12-17 December | [AGU Fall Meeting 2016*](#), San Francisco, California

*ONC hosting a booth—please stop by!

Workshop Announcement

[Offshore Geophysical Monitoring of Cascadia for Early Warning and Hazards Research](#)
3-5 April 2017 at the University of Washington, Seattle.

Application deadline: 16 January 2017. Inquires can be sent to ewoc@uw.edu.

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.

Educator and Student Opportunities with Ocean Exploration Trust

Science Communication Fellowship

Now accepting applications for the 2017 Science Communication Fellowship.
Application deadline: 13 January 2017.

Nautilus Science and Engineering Internship Program

Now accepting applications for 2017 internships in Ocean Science, Mapping, ROV Engineering, and Video Engineering.
Application deadline: 20 January 2017.

In The News

[Terres d'Explorations - EP3 Volcanes](#) | TV5

[Ottawa says killer whale protection part of \\$1.5 billion marine protection plan](#) | CTV News

[Ottawa says Orca protection part of \\$1.5 billion marine protection plan](#) | Times Colonist

[New life boat stations, large-mammal avoidance system for Island waters](#) | Times Colonist

[Canadian fisheries minister ends government's longstanding secrecy about oceans](#) | National Observer

[Fish stocks study available to the public](#) | Chronicle Herald

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

[Massive tidal turbine in Bay of Fundy generating electricity for 1st time](#) | CBC News

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