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

e-Newsletter | May 2016

Happy World Oceans Day!



[World Oceans Day video message from Kate Moran, president & CEO](#)

[Get to know the ocean | Opinion Vancouver Sun](#)

[We should look more deeply at the sea | Times Colonist](#)

A Successful Leg One: Wiring the Abyss 2016

The first leg of Ocean Networks Canada's 2016 offshore Wiring the Abyss expedition was a resounding success and a fitting tribute to the organization's tenth anniversary. Round-the-clock ship operations were conducted at four of the five NEPTUNE node locations aboard the exploration vessel E/V *Nautilus*. The C/S *Wave Venture* conducted simultaneously coordinated cable operations with *Nautilus* from 12-27 May at three node locations. Both ships were mobilized from the Victoria Ogden Point facility. [Read more.](#)



[Wiring the Abyss 2016 YouTube Playlist](#)

[Wiring the Abyss 2016 Flickr photo album](#)

[E/V Nautilus Friendships blog](#)

Wiring the Abyss Leg Two: #livedive 14 - 24 June

During the upcoming Leg Two, ONC will use the University of Alaska's new global class, ice-capable research vessel (R/V) *Sikuliaq* for the first time. Woods Hole Oceanographic Institute's (WHOI) recently upgraded robot, Jason, will also be on board. With its increased lift capability and range of activities, Jason will install and maintain instruments, conduct sampling of critical habitats, and map the seafloor across four of the NEPTUNE observatory sites. New installations include ground-shaking sensors that are part of ONC's earthquake early warning system, seismometers on the Pacific plate to better understand earthquakes, and preparation for the installation of a WHOI tilt-meter to monitor and study slow slip plate movements, similar to those that were the precursor to the 2011 Japanese earthquake and devastating tsunami.

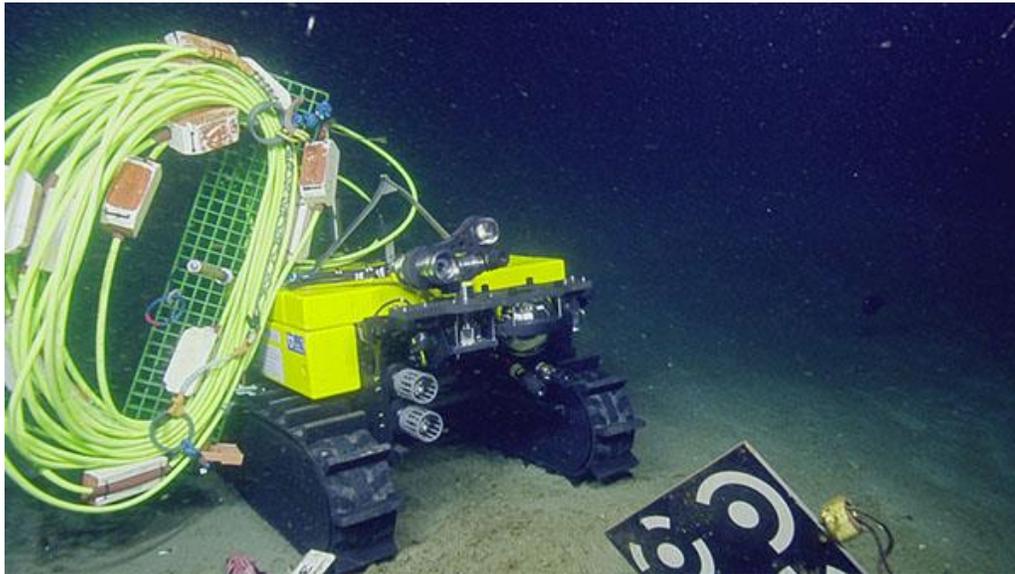
[Join the Expedition!!](#) Explore the ocean depths and engage with scientists and explorers in real time. It's your turn to experience the mystery, power and beauty of the deep sea.

Follow us on [Twitter](#) #ONCabyss #livedive & [Facebook](#)

Science

New Generation of Seafloor Imaging

New technology will allow ONC to take high resolution laser image scans of the sea floor. The laser imaging system will be used by Wally, a remotely operated vehicle. [Read more.](#)



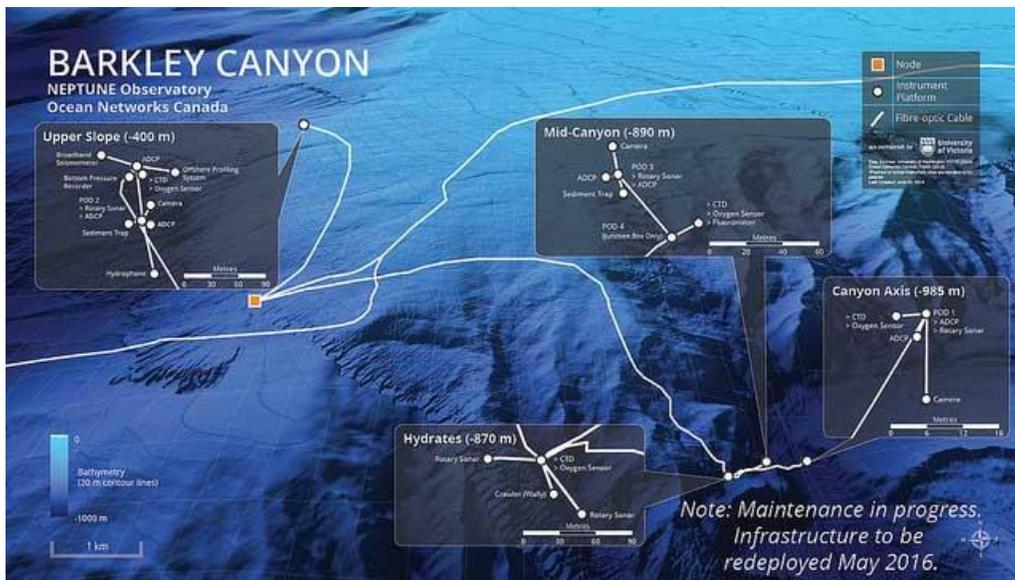
Whalebone Experiment in a Minimum Oxygen Zone

With the successful repair, re-deployment and re-connection of the Barkley node and extension cables earlier this month, we are now able to continue long-term monitoring of seafloor communities and experiments in Barkley Canyon. At this site, enrichment and perturbation experiments that began in 2013 examine these unique biological systems, which change under varying oceanographic conditions. This experiment includes three packages: one contained three rib sections of a humpback whale (stranded in Alaska several years back); another contained a block of Douglas Fir; and a third contained a large piece of carbonate collected from a methane seep located off the coast of California. [Read more.](#)



Sedimentary Dynamics Around and Within Barkley Canyon

Data collected by two autonomous moorings, deployed at the upper continental shelf and at the Barkley Canyon head in approximately 400 m water depth, provide necessary information to study the present-day sediment movements that control the shelf-to-slope sediment transport off the west coast of Canada. [Read more.](#)



3rd INCISE International Submarine Canyon Symposium | 25 - 27 July | Victoria, British Columbia NEW: The Deepsea Biology Society is pleased to announce two travel awards for attendance to INCISE. [Find out more.](#)



Join us in beautiful Victoria, British Columbia for this international conference! Registration closes on 25 June.

A Tenth Anniversary Inshore Maintenance Cruise

Ocean Networks Canada's tenth annual expedition season began on 28 April 2016 with an eight-day cruise to maintain the ocean observing instrumentation and platforms in Saanich Inlet and the Strait of Georgia. The Canadian Coast Guard Ship *John P. Tully* and the ITB Subsea Remotely Operated Vehicle (ROV) Oceanic Explorer supported the recovery, repair and deployment of seafloor installations and experiments, complemented by scientific sampling.



Learning

Teens Dive Deep into the 4th Annual Ocean Science Symposium

Ocean Networks Canada's 4th annual Ocean Science Symposium brought together 55 students and 20 teachers from 16 schools across British Columbia. This fun, interactive experience offered participants an opportunity to discover the ocean through dynamic presentations and exciting hands-on experiences. Teens and teachers left with a new understanding of the mysteries of the deep, from sea ice and climate change, to ocean engineering and hydrothermal vents. [Read more.](#)



In The News

Expedition 2016: Wiring the Abyss: Leg One

[Overview of technology and challenges with Adrian Round | CBC Victoria](#)

[ONC partnership with Ocean Exploration Trust | CBC Victoria](#)

[Underwater adventure | ShawTV](#)

[ONC to embark on its most challenging expedition | CHEK TV](#)

[Ocean mission brings live video of the ocean floor to the world | Daily Vice](#)

[Photos snapped by a giant seafloor observatory deep in the Pacific | Motherboard](#)

[Octopus playing tug of war | Mail Online](#)

[What happens when a giant robot meets a tiny octopus | CBC Victoria](#)

The northeast Pacific Blob

[Link between Fort McMurray Fire and the "Warm Blob" | Motherboard](#)

[The Blob! invades Vancouver Aquarium | VanCity Buzz](#)

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