

Expanding our understanding of climate in the higher latitudes

Submitted by Lindsay Wallace Tue, 2015-06-30 12:34

The 49th Canadian Meteorological and Oceanographic Society (CMOS) Congress is the premier gathering place for meteorologists, weather forecasters, oceanographers, and marine scientists from across Canada. They gathered in Whistler, BC during the first week of June to exchange research findings, assess new technology advances, and coordinate national and regional programs.

This year's theme "Tropics to Poles: Advancing Science in High Latitudes" included sessions covering all aspects of both meteorology and oceanography from across the Pacific, Arctic, and Atlantic regions, as well as the Great Lakes, Antarctic, continental and high-latitude ice-bound environments.

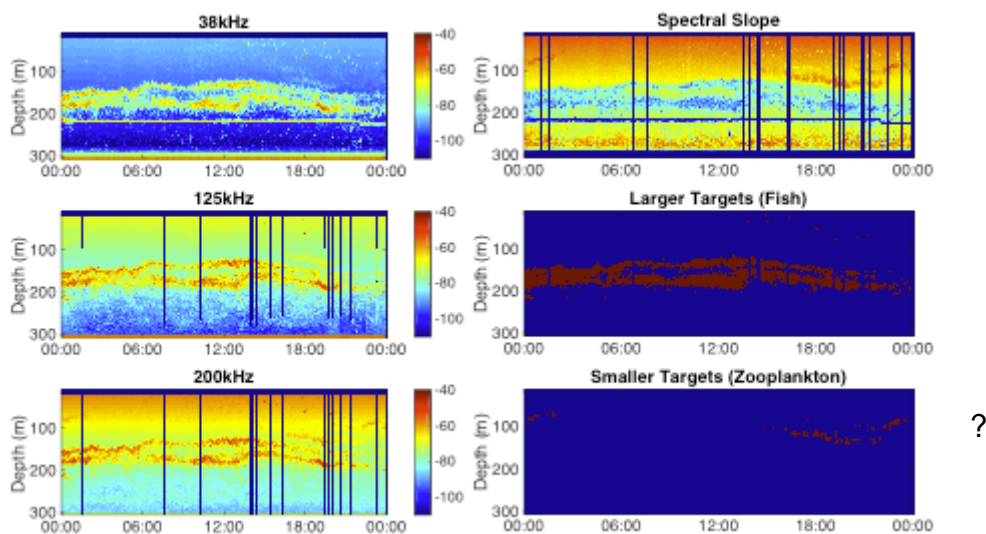
Ocean Networks Canada (ONC) generated some ocean buzz with a popular booth display staffed by enthusiastic employees who also delivered nineteen papers and presentations utilizing ONC sites, information, and data.



The Ocean Networks Canada booth at CMOS

Throughout the weeklong conference, over three dozen authors and co-authors were listed on presentations referencing data and systems from ONC observatory sites off the west coast of BC and in the Arctic.

ONC science was also represented in sessions on physical oceanography, acoustics, biogeochemistry, high-latitude ocean-ice-atmosphere interactions, modelling, and climate trends.



Above is an example of data from the Acoustic Zooplankton Fish Profiler deployed in the Strait of Georgia. (Krogh et al. 2015) showing different sized organisms in the water column from zooplankton to fish.

This year's congress, coordinated by members from the University of British Columbia, was also a joint endeavour with the 13th American Meteorological Society's Conference on Polar Meteorology and Oceanography.

ONC staff scientists took this opportunity to engage both current and future data users from Canada and the U.S. about ongoing observatory projects, new and expanded research opportunities, and upcoming installations along the BC coast.

ONC staff connected with scientists to:

- Link ONC's infrastructure capabilities with their research
- Provide important know how to get them started analyzing ONC data
- Listen to their requirements for data products, delivery, and services

A sampling of CMOS 2015 papers include the following:

- The first year of autonomous water column measurements in Saanich Inlet: The Saanich Inlet Buoy Profiling System (Akash Sastri, Richard Dewey, Steven Mihaly, Jody Klymak)
- Operating Oceanographic HF Radar Systems in the Coastal Waters of BC (Kevin

Bartlett, Paul Macoun, Richard Dewey)

- [Zooplankton biomass estimates from acoustic backscatter in the Salish Sea, British Columbia, Canada](#) (Jeremy Krogh, Akash Sastri, Richard Dewey, Mei Sato)
- [High resolution spatio-temporal patterns of surface CDOM in the Strait of Georgia, BC](#) (Akash Sastri, Jeremy Krogh, Richard Dewey, Chris Sundstrom)
- [Four Co-located Doppler Systems for Monitoring the Coastal Bottom Boundary Layer](#) (Richard Dewey, Alex Hay)

To learn more about how you can participate in research opportunities at Ocean Networks Canada, please contact: [Dr. Richard Dewey](#), Associate Director, Science.

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