



# OCEAN CANADA

***OCEANCANADA* NEWSLETTER SUMMER 2017**



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# OCEANCANADA NEWS

## WORKSHOP ON ACCESS TO MARINE RESOURCES

*OceanCanada* held a workshop on June 8 and 9 to explore issues related to access to marine resources, which was organized by our Access to Resources Cross-Cutting Theme leads Megan Bailey and Nathan Bennett, and Research Assistant Maery Kaplan-Hallam. Issues of access to resources continue to be front and centre in the debate around the social and economic sustainability of Canada's coastal communities. However, we do not currently have a clear picture of the various issues related to access to marine resources and ocean spaces in Canada. These issues were addressed through the objectives of this workshop, which were:

1. To build momentum on the Access Cross-Cutting Theme within the *OceanCanada* Partnership.
2. To learn about past research, current research and applied projects related to issues of access across the three coasts of Canada.
3. To facilitate a discussion about key issues and emerging topics related to access for different groups in Canada.
4. To develop future research directions, potential partnerships and collaborations and a future research proposal on issues related to access in Canada.
5. To develop and co-author with workshop participants an academic paper related to the topic of access to marine resources and spaces in Canada.



The workshop was very successful, and included people involved in many different ways in fisheries in Canada, from researchers to administrators. A working paper is currently being developed with input from several workshop participants, and will be available shortly on the [OceanCanada website](https://oceancanada.ca).

## OCEANCANADA MEMBERS PRESENT TO CANADIAN PARLIAMENT



Rashid Sumaila, *OceanCanada* Director, and Natalie Ban, Pacific Working Group Co-lead, both appeared before the Standing Committee on Fisheries and Oceans of the Canadian Parliament. On June 8, [Dr. Sumaila](#) spoke about the economic reasons for implementing MPAs. On May 11, [Dr. Ban](#) spoke about the benefits of MPAs to biodiversity.

## MARE CONFERENCE PANEL



On July 6, 2017, several *OceanCanada* members presented at the panel, *Transboundary Fisheries Management in Changing North Atlantic and Pacific Oceans: Taking Stock, Future Scenarios*, which they organized for the MARE (Centre for Maritime Research) Conference in Amsterdam. The panel papers are currently being developed for a special issue of *Ecology and Society*, to appear in 2018. See [Recent Presentations](#) for details.

## OCEANCANADA MEMBER ACTIVITIES FOR WORLD OCEANS DAY, JUNE 8

Members of *OceanCanada* participated in many different events related to World Oceans Day (June 8).

Activities at the UN Ocean Conference, "Our Oceans, Our Future: Partnering for the Implementation of Sustainable Development Goal 14," New York, June 5-9, 2017 included:

Ratana Chuenpagdee (Memorial University) of Too Big To Ignore (TBTI) was an organizing partner of the side event, "Joining forces for sustainable small-scale fisheries through a human rights-based approach to ocean conservation." TBTI was also a partner at the multimedia evening, "Marine Protected Areas - for whom?" which featured live streaming and updates from the UN Oceans Conference.



Rashid Sumaila participated in a side event titled "Towards a sustainable blue future: fiscal incentives to achieve SDG 14." He also participated in "Building disciplines on fisheries subsidies: progress and prospects."

David VanderZwaag (Dalhousie University) was a member of the 20-expert IUCN (International Union for the Conservation of Nature) delegation at the conference, led by Cyriaque Sendashonga (Global Director, Programme and Policy), and coordinated by Carl Gustaf Lundin (Director, Global Marine and Polar Programme).

In addition to the UN Conference activities, Fraser Taylor (Carleton University) gave a keynote address to the Canadian Cartographic Association Annual Meeting at Carleton University on June 2, entitled "Rapid technological change and the future of cartography." From June 3 to 10, he attended the Pan-Arctic Options meeting in Moscow, where he did a presentation on creating a cybercartographic atlas of the Bering Strait. On June 7, he participated in a presentation on the Arctic Spatial Data Infrastructure at the American Centre in Moscow as part of a special event, "Round Table on Enhancing International Arctic Cooperation."

[Read more here.](#)

## PARTNER & COLLABORATOR NEWS



Over the summer, viewers watched ocean exploration in real time and joined an expedition in the Gulf of Maine organized by researchers from Dalhousie University and Memorial University – funded by the Natural Sciences and Engineering Research Council of Canada – and the U.S. National Oceanic and Atmospheric Administration (NOAA). Oceana Canada brought the expedition into people's homes using high-tech camera equipment and live streaming through the eyes of an underwater robot as it traversed the sea floor. [Read more here.](#)



T. Buck Suzuki has developed an OceanSmart app to allow mariners to help protect our waters. Some features of the app include:

- Instant photo reporting to regulators of spills, accidents, derelict vessels, etc.;
- One touch cell phone reporting to Canadian Coast Guard and other regulators;
- Maps of marine infrastructure, pumpouts, marinas, and MPAs;
- Information on green boating practices.

[Get more information and download the app here.](#)



## MEDIA COVERAGE

- August 8. [Climate change jaw dropper: great white shark could one day prowl B.C. waters.](#) *Environmental News Network.*
- July 26. [Les grands requins blancs pourraient un jour sillonner les eaux de la Colombie-Britannique.](#) *Radio-Canada.*
- July 26. [Great white shark population booms In British Columbia as ocean temperature rises.](#) *International Business Times.*
- July 26. [Warming Pacific means more great white sharks swimming in B.C. waters.](#) *CTV News.*
- July 26. [Great white sharks likely to head north as water warms, prof says.](#) *Times Colonist.*
- July 25. [Sustainability of the global ocean.](#) *The Sandpiper.*
- July 25. [Great white sharks could swim along B.C.'s coast as oceans warm: UBC researcher.](#) *Global News.*
- July 25. [Great white sharks ranging closer to Canadian coasts, UBC expert says.](#) *MSN.*
- July 25. [Great white shark could come to BC, says UBC researcher.](#) *Daily Hive.*
- July 25. [Climate change to bring great white sharks to B.C. says UBC prof.](#) *CBC News.*
- July 25. [Great white sharks ranging closer to Canadian coasts, UBC expert says.](#) *Metro News.*
- July 24. [The future of oceans.](#) *Biotechninasia.*
- July 13. [Your fish and chips could be about to change massively – here's why.](#) *Birmingham Mail.*
- July 11. [Your fish and chip supper could soon fall victim to climate change.](#) *Chronicle Live.*
- July 8. [Anchovy and chips, anyone? How shortages in the North Sea threaten traditional battered cod and haddock.](#) *Daily Mail.*
- July 8. [Climate change could threaten the traditional British fish and chips.](#) *Sky News.*
- July 8. [Expect "child's portions" of fish and chips as climate change shrinks ocean stock.](#) *The London Economic.*
- July 8. [OH MY COD! Portions of chippy favourites such as cod are set to shrink 20 per cent by 2050 due to global warming, scientists claim.](#) *The Sun.*

- July 8. [Cherished cod and chips supper under THREAT due to North Sea shortages, experts declare.](#) *Express*.
- July 8. [Where do seabirds search for food? Satellite-tracking gives fascinating new insight.](#) *Express*.
- July 8. [Anchovy and chips? Shrinking fish could see unusual offerings for sale.](#) *The Irish News*.
- July 8. [Have North Sea fishy favourites had their chips?](#) *The Press and Journal*.
- June 28. [Ocean conservation needs a Hippocratic oath – we must do no harm.](#) *The Guardian*.
- June 26. [Scarborough Shoal of Sansha City, Hainan province, China.](#) *The Manila Times*.
- June 25. [Subsidies go to big fisheries, not small-scale companies: UBC study.](#) *News 1130*.
- June 16. [Criminality in Africa's fishing industry: a threat to human security.](#) *ETH Zurich*.
- June 10. [CBC World Report – UN Oceans Conference.](#) *CBC*.
- June 8. [The future of our fisheries under climate change.](#) *Our Shared Seas*.
- June 8. [2050: Degrees of change - Episode 2 - Snow and ice.](#) *CBC*.
- June 7. [Fishing subsidies harm artisanal fishermen worldwide.](#) *Fish Information and Services (FIS)*.
- June 5. [Marine reserves help mitigate against climate change, say scientists.](#) *Science Daily*.
- June 5. [Should large scale fisheries get more subsidies than small scale fishing?](#) *Roundhouse Radio*.
- June 2. [Why Mexican fishermen are going from shark hunting to shark protecting.](#) *Fusion.net*.
- June 2. [Scientists launch global agenda to curb social, human rights abuses in seafood sector.](#) *EurekAlert!*
- June 1. [Subsidies promote overfishing and hurt small-scale fishers worldwide.](#) *UBC News*.
- June 1. [The shared stewardship of the South China Sea.](#) *The Manila Times*.
- June 1. [Subsidies promote overfishing and hurt small-scale fishers worldwide.](#) *Phys.org*.
- June 1. [Scientists launch global agenda to curb social and human rights abuses in the seafood sector.](#) *UW Today*.
- June 1. [A sea change for seafood?](#) *Conservation International*.

## RESEARCHER IN PROFILE



[Megan Bailey](#) is co-lead of *OceanCanada's* cross-cutting *Access to Resources* theme, and a SSHRC Canada Research Chair in Integrated Ocean and Coastal Governance at [Dalhousie University's Marine Affairs Program](#). She has an undergraduate zoology degree from Western University, and completed her Master's and PhD at UBC's Fisheries Centre (now the Institute for the Oceans and Fisheries), focusing on fisheries economics relating to global tuna fisheries. A week after defending her PhD in 2012, she

joined the Environmental Policy Group at Wageningen University in the Netherlands, where she helped to lead the [BESTTuna](#) and [IFITT](#) programs.

These programs focused on interdisciplinary studies in pursuit of equitable and sustainable transboundary tuna in the Western and Central Pacific, and on studying traceability implementation in Indonesia's tuna supply chains, respectively. Her work is now positioned at the interface between private seafood governance (certifications, traceability) and public fisheries policy (national and international). Megan is particularly interested in how seafood companies and private certification programs are driving change in regional fisheries management.

Her work in the IFITT program is some of the first studying the socio-economic implications of seafood traceability and Fair Trade USA implementation. Megan has published over 30 scientific articles and book chapters, and has her first edited book coming out this month ([Sustainable Food Futures: Multidisciplinary Solutions](#), edited by Jessica Duncan and Megan Bailey, Routledge, 2017). Megan currently serves on the Scientific and Technical Advisory Committee for the International Pole and Line Foundation, on the Board of Directors for the Ecology Action Centre, and on the Communications Committee for the Fishermen and Scientists Research Society.



# RECENT PUBLICATIONS

## JOURNAL ARTICLES

**Bennett NJ, Teh L, Ota Y**, Christie P, Ayers A, Day JC, Franks P, Gilli D, Gruby RL, Kittinger JN, Koehn Z, Lewis N, Parks J, Vierros M, Whitty TS, Wilhelm A, Wright K, Aburtor JA, Finkbeiner EM, Gaymer CF, Govan H, Gray N, Jarvis RM, **Kaplan-Hallam M**, Satterfield T. 2017. (*Marine Policy*) [An appeal for a code of conduct for marine conservation.](#)

**Jones R**, Rigg C, **Pinkerton E**. 2017. (*Marine Policy*) [Strategies for assertion of conservation and local management rights: a Haida Gwaii herring story.](#)

**Kaplan-Hallam M, Bennett NJ**, Satterfield T. 2017. (*Global Environmental Change*) [Catching sea cucumber fever in coastal communities: conceptualizing the impacts of shocks versus trends for social-ecological systems.](#)

Kittinger JN, **Teh LCL**, Allison E, **Bennett NJ**, Crowder LC, Finkbeiner EM, Hicks C, Scarton CG, Nakamura K, **Ota Y**, Young J, Alifano A, Apel A, Arbib A, Bishop L, Boyle M, **Cisneros-Montemayor AM**, Hunter P, Le Cornu E, Levine M, Jones RS, Koehn JZ, Marschke M, Mason JG, Micheli F, McClenachan M, Opal C, Peacey J, Peckham SH, Schemmel E, Solis-Rivera V, Swartz W, Wilhelm A. 2017 (*Science*) [Committing to socially responsible seafood.](#)

**Pinkerton E**. 2017. (*Marine Policy*) [Hegemony and resistance: disturbing patterns and hopeful signs in the impact of neoliberal policies on small-scale fisheries around the world.](#)

Roberts CM, O'Leary BC, McCauley DJ, Cury PM, Duarte CM, Lubchenco J, Pauly D, Sáenz-Arroyo A, **Sumaila UR**, Wilson RW, Worm B, Castilla JC. 2017. (*Proceedings of the National Academy of Sciences of the USA*) [Marine reserves can mitigate and promote adaptation to climate change.](#)

Seto K, Belhabib D, Mamie J, Copeland D, Vakily JM, Seilert H, Baio A, **Harper S**, Zeller D, Zylich K, Pauly D. 2017. (*Marine Policy*) [War, fish, and foreign fleets: the marine fisheries catches of Sierra Leone 1950–2015](#).

Singleton RL, Allison EH, Le Billon P, **Sumaila UR**. 2017. (*Marine Policy*) [Conservation and the right to fish: International conservation NGOs and the implementation of the Voluntary Guidelines for securing Sustainable Small-Scale Fisheries](#).

**Witter A**, Stoll J. 2017. (*Marine Policy*) [Participation and resistance: alternative seafood marketing in a neoliberal era](#).

## **BOOK CHAPTERS**

**Cheung WWL**, Pauly D, **Sumaila UR**. 2017. (*Reflections of Canada: illuminating our biggest possibilities and challenges at 150 years*) [Fisheries and the world](#).

**Sumaila UR**, **Cheung WWL**, Cury PM, **Tai TC**. 2017. (*Building a climate resilient economy and society: challenges and opportunities*) [Climate change, marine ecosystems and global fisheries](#).

## **WORKING PAPERS**

**Gibson D**, **Sumaila UR**. 2017. [How small-scale are fisheries in British Columbia?](#)

**Tai TC**, Cashion T, Lam VWY, Swartz W, **Sumaila UR**. 2017. [Ex-vessel fish price database: disaggregating prices for low-priced species from reduction fisheries](#)

## RECENT PRESENTATIONS

[Waterloo, ON, March 2-3, 2017. Doubleday, Nancy.](#)

How good are current models at integrating knowledge from diverse sources through time? Catching Ripples in the Water: A Social-Ecological Regime Shifts (SERS) Approach to Understand Rapid Changes in Coastal Watersheds and Crafting Governance Arrangements.

How good is our research paradigm at describing and understanding long-term social-ecological-cultural change? Catching Ripples in the Water: A Social-Ecological Regime Shifts (SERS) Approach to Understand Rapid Changes in Coastal Watersheds and Crafting Governance Arrangements.

[Boston, MA, April 5-9, 2017. Beattie, Hillary.](#)

Pulling together to gather strength: telling stories of cultural resurgence and resilience in Heiltsuk territory. American Association of Geographers Annual Meeting.

[Boston, MA, April 5-9, 2017. Mauro, Ian.](#)

Canada's climate story: participatory film, geovisualization and the future of mobilizing knowledge into action. American Association of Geographers Annual Meeting.

[Ottawa, ON, May 11, 2017. Ban, Natalie.](#)

Brief on MPAs. Canadian House of Commons Standing Committee on Fisheries and Oceans.

[Ottawa, ON, May 31-June 2, 2017. Taylor, Fraser.](#)

Rapid technological change and the future of cartography. Keynote address at Canadian Cartographic Association Annual Meeting.

[College Park, MD, June 1, 2017. Sumaila, Rashid.](#)

The economic benefits and impacts of sustaining the global ocean. The Role of Oceans in Earth's Life Support System, 3rd GEO Blue Planet Symposium.

[Moscow, Russia, June 3-10, 2017. Taylor, Fraser.](#)

Arctic spatial data infrastructure. Round Table on Enhancing International Arctic Cooperation, American Centre.

Creating a cybercartographic atlas of the Bering Strait. Belmont Forum Pan-Arctic Options Annual Meeting.

Mapping the Bering Sea. Belmont Forum Pan-Arctic Options Annual Meeting.

[New York, NY, June 5, 2017. Sumaila, Rashid; Karousakis, Katia; Martini, Roger.](#)

Towards a sustainable blue future: fiscal incentives to achieve SDG 14. The UN Ocean Conference.

[New York, NY, June 5, 2017. Sumaila, Rashid; Koroilavesau, Semi; Morgan, Clarisse; Tipping, Alice.](#)

Building disciplines on fisheries subsidies: progress and prospects. The UN Ocean Conference.

[New York, NY, June 6, 2017. Sumaila, Rashid.](#)

Improve high seas fisheries management and increase economic, social and ecological benefits for our oceans. Our Ocean Our Future. The UN Ocean Conference.

[Ottawa, ON, June 8, 2017. Sumaila, Rashid.](#)

The Oceans Act's Marine Protected Areas. Canadian House of Commons Standing Committee on Fisheries and Oceans.

[Singapore, June 14, 2017. Sumaila, Rashid; Tun, Karenne; Waterman, Stephanie.](#)

Future of the oceans. Commonwealth Science Conference.

[Ottawa, ON, June 14, 2017. VanderZwaag, David.](#)

Getting Canada's Oceans Act together: progressions, depressions, questions. Oceans 20: Canada's Oceans Act.

[Rome, Italy, June 27, 2017. Westlund, L; Cheunpagdee, Ratana.](#)

What do we mean by small-scale fisheries? Workshop on improving our knowledge on small-scale fisheries: data needs and methodologies. Food and Agriculture Organization (FAO) of the United Nations.

[Rome, Italy, June 27, 2017. Charles, Anthony.](#)

Current data and future needs for assessing local-level conservation, stewardship and responsible fisheries in small-scale fisheries. Workshop on improving our knowledge on small-scale fisheries: data needs and methodologies. Food and Agriculture Organization (FAO) of the United Nations.

[Rome, Italy, June 28, 2017. Sumaila, Rashid.](#)

Subsidies: small versus large-scale fisheries subsidies. Workshop on improving our knowledge on small-scale fisheries: data needs and methodologies. Food and Agriculture Organization (FAO) of the United Nations.

[Rome, Italy, June 28, 2017. Teh, Lydia.](#)

Indigenous people database. Workshop on improving our knowledge on small-scale fisheries: data needs and methodologies. Food and Agriculture Organization (FAO) of the United Nations.

[Washington, DC, July 2, 2017. Anonby, E; Hayes, Amos; Murasugi, K; Taylor, Fraser.](#)

Mapping language with the Nunaliit Atlas framework: the languages of Iran and the Inuit language in Canada. International Cartographic Congress.

[Washington, DC, July 2, 2017. Taylor, Fraser.](#)

Some issues in mapping traditional knowledge. International Cartographic Congress.

[Amsterdam, the Netherlands, July 6, 2017. Saunders, Phillip; Engler, Cecilia; VanderZwaag, David; Koubrak, Olga; Cheung, William; Palacios-Abrantes, Juliano; Sumaila, Rashid.](#)

Title of panel: Transboundary Fisheries Management in Changing North Atlantic and Pacific Oceans: Taking Stock, Future Scenarios

Are transboundary fisheries management arrangements in the North Atlantic and Pacific seaworthy in changing oceans? (VanderZwaag and Koubrak)

The international law and policy seascape for managing shifting species and ecosystems (Saunders and Engler)

Current state and future scenarios for transboundary fisheries management in changing oceans: gauging the biological tides (Cheung and Palacios-Abrantes)

Changing oceans and the economics of transboundary fisheries management of major fisheries of Canada and the United States (Sumaila)



Washington, DC, July 19, 2017. Sumaila, Rashid.

Current state of fisheries in the South China Sea. Workshop on Environmental Issues and Fisheries Cooperation in the South China Sea, Center for Strategic and International Studies.

Star Island, NH, July 23, 2017. Sumaila, Rashid.

Sustainability of the global ocean. The Oceans: Protecting an International Resource, 2017 International Affairs Conference.

Carrtagena, Columbia, July 23-27, 2017. Bennett, Nathan.

How can the social sciences improve conservation? International Congress for Conservation Biology, Society for Conservation Biology.

Carrtagena, Columbia, July 23-27, 2017. Kaplan-Hallam, Maery; Bennett, Nathan.

Adaptive social impact management for conservation and environmental management. International Congress for Conservation Biology, Society for Conservation Biology.



The *OceanCanada* Partnership is a Social Sciences and Humanities Research Council (SSHRC) project that brings partners from across Canada together to holistically study the challenges and opportunities facing Canada's oceans and coastal communities.