



OCEAN CANADA

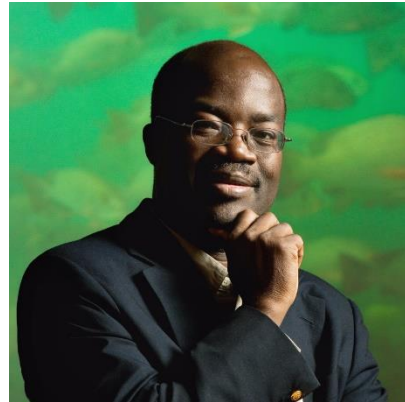
OCEANCANADA NEWSLETTER WINTER 2019



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OCEANCANADA NEWS

Rashid Sumaila, *OceanCanada* Director, has received the 2018 UBC President's Award for Public Education Through Media. This award celebrates active and creative sharing of research expertise through news media. Rashid is highly visible to the public through various types of media: he is regularly mentioned in popular news articles, appears in many news programs geared toward the public, and often gives talks on current issues in the news to general audiences. Congratulations, Rashid! [Read more.](#)



Congratulations are also in order for Fraser Taylor, co-lead of *OceanCanada's* Arctic Working Group, who is a co-applicant for two recently funded research projects: 1) "Canadian Consortium for Arctic Data Interoperability: Advancing Arctic Research through Connected Data Infrastructure," funded by the Canadian Foundation for Innovation (CFI), M. Murray, Principal Investigator, Calgary University; and 2) "Atlas Cine," funded by the Canadian Network for the Advancement of Research, Industry and Education (CANARIE), S. Caquard, Principal Investigator, Concordia University.



William Cheung, Rashid Sumaila, and Andrés Cisneros-Montemayor led workshop discussions at [Towards an Inclusive Blue Economy](#), an international event to discuss how to develop a marine economy that is fair and sustainable. The event was hosted by the International Institute for

Environment and Development (IIED). [View the video of Rashid's talk in the session, "Winners and losers: what fiscal tools can make fisheries work for the environment and people?"](#)

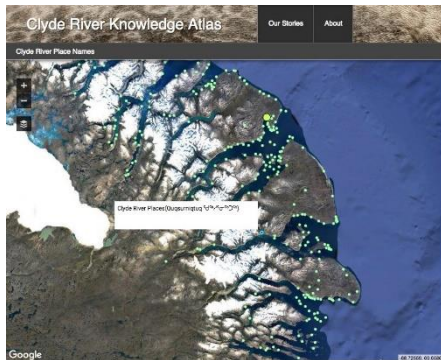


Sarah Harper, PhD candidate and NDIS Working Group member, was part of the webinar [No Hidden Catch: Mainstreaming Small-Scale Fisheries in National Accounts](#), hosted by the International Institute for Environment and Development (IIED), on November 20, 2018. Other presenters included Michael Bordt of [UN ESCAP Statistics Division](#), and [Ina Porras](#), senior researcher for

IIED's [Shaping Sustainable Markets research group](#). Presenters discussed how to use natural capital accounting to demonstrate small-scale fisheries' contributions to the economy, and how reporting focusing on people aids in the design and targeting of fisheries policies and investments that benefits small-scale fisheries.

PARTNER & COLLABORATOR NEWS

Geomatics and Cartographic Research Centre (GCRC), Carleton University



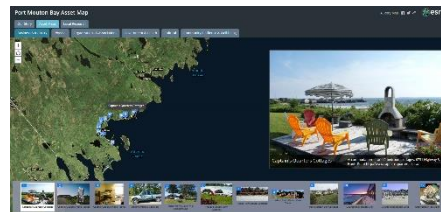
Mike Jaypoody of the Ittaq Heritage and Research Centre and Illisaqsvik Society launched the “Clyde River Knowledge Atlas” at the ArcticNet Conference in Ottawa in December 2018, and it is featured in a February 5, 2019 [Nunatsiaq News](#) article. Fraser Taylor, Amos Hayes, and Rob Oikle of the GCRC, and Peter Pulsifer of ELOKA

(Exchange for Local Observations and Knowledge of the Arctic) supported the development of the atlas. Funders include TidesCanada, Crown-Indigenous Relations and Northern Development Canada Indigenous Community-Based Climate Monitoring Program.

Friends of Port Mouton Bay (FPMB)

FPMB and *OceanCanada* are very excited to announce the launch of the online asset map, [Port Mouton Bay: The 'Story' of Our Community, Our Assets and Climate Change Challenges](#). The online map uses spatial data, photos, and links to explore Port Mouton Bay's community assets through stories, with background on the project, a tour of Port Mouton Bay, highlights of local coastal ecosystems, and possible effects of climate change.

[Read the press release for more information.](#)



T. Buck Suzuki Environmental Foundation

The [2019 BC Young Fishermen's Gathering](#) (BCYFG) took place on January 23 and 24, 2019 in Victoria, B.C. Highlights of this year's gathering included the following: panels and presentations by over 35 industry specialists; peer to peer knowledge exchange and networking; group discussions on topics such as ghost gear, mentorship, public awareness of fishing, policies and programs to support new entrants; and a field trip to Finest at Sea Victoria. [Fishermen can join the network here.](#)



Image credits: BC Young Fisherman's Network.

MEDIA COVERAGE

2019

- February 28. [Scientists warn global warming could destroy fish stocks and spark migration](#). The National.
- February 28. [Scientists warn global warming could decimate fish supplies and fuel migration](#). The Japan Times.
- February 27. [Achieving Paris climate target could net additional billions in fisheries revenue](#). UBC Science.
- January 24. [Perairan dikuasai China, Ghana hanya peroleh 5% keuntungan](#). Matamata politik.
- January 22. Pool resources to tackle illegal, unreported fishing. Ghanaian Times. ([Google Cache](#))

2018

- December 12. [Pesquerías pueden reducir pérdidas con gestión más sostenible](#). SciDev.Net
- December 10. [What will be the last fish?](#) Popular Mechanics.
- December 7. [¿Cómo afectará el cambio climático las pesquerías del mundo?](#) Ecoticias.
- December 5. [UBC study identifies destructive fisheries](#). The Cordova Times.
- December 4. [Cómo afectará el cambio climático a la pesca en México y el mundo](#). Tu interfaz de negocios.
- December 3. [¿Cómo afectará el cambio climático las pesquerías del mundo?](#) El Punto Critico.

- November 27. [Research shows inefficient fishing costs global companies over \\$51bn annually.](#) Undercurrent News.
- November 19. [Apparently no one knows how much an oil spill on Salish Sea would cost.](#) Sightline Institute.
- November 19. [Ending harmful fisheries subsidies could reverse decline in fish stocks.](#) Pew.
- November 15. [Ocean shock: big aquaculture bulldozes Borneo.](#) VOA News.
- November 14. [Climate change and the oceans.](#) Yale Climate Connections.
- November 8. [How nutritious is that fish? To find out, ask its relatives.](#) Oceana.
- October 31. [Too many fishers in the sea: the economic ceiling of artisanal fisheries.](#) Science Daily.



Two women working at local fish market in Bagan Myanmar. Credit: BANITAtour / Pixabay

RESEARCHER IN PROFILE

Dr. Vincent L'Hérault is a Post Doctoral Fellow at the Prairie Climate Centre, University of Winnipeg, and President/Director of [ARCTICConnexion](#), an indigenous organization devoted to capacity building and leadership development in northern communities. He is a member of *OceanCanada's* Knowledge Mobilization Working Group, contributing to two-eyed seeing (combining Indigenous and Western knowledge), engagement, and integration of participatory research work conducted with communities across Canada's three oceans.



With over a decade of experience in Arctic communities during his graduate studies and living up north with his young family, Vincent developed genuine relationships and understanding of community realities, challenges and opportunities. He then started to support opportunities promoting traditional harvesting practices and knowledge, innovation through science, and communication, each contributing to local wellbeing and a sustainable resource-based economy. With this background, Vincent brings with him a unique set of skills to *OceanCanada*, with a commitment to engage with coastal communities.

Vincent's main research activities currently explore, through participatory filmmaking, the socio-economic and cultural conditions for sustainable fisheries in the Magdalen Islands, a small community in the Gulf of St-Lawrence. This project features the main stakeholders of the fisheries: local fishermen, fish plant owners, the Association Québécoise de l'Industrie de la Pêche, the Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec, as well as participants in local, national, and international markets. The research and filmmaking production is currently in its final stage. The project will be edited in a documentary film targeting a large audience via television and film festivals.

RECENT PUBLICATIONS

JOURNAL ARTICLES

Ban NC, Frid A, Reid M, Edgar B, Shaw D, Siwallace P. 2018.

(*Nature Ecology & Evolution*) [Incorporate Indigenous perspectives for impactful research and effective management.](#)

Belhabib D, Dridi R, Padilla A, Ang M, Le Billon P. 2018. (*Fish and Fisheries*)

[Impacts of anthropogenic and natural “extreme events” on global fisheries.](#)

Belhabib D, Sumaila UR, Le Billon P. 2019. (*Marine Policy*) [The fisheries of](#)

[Africa: exploitation, policy, and maritime security trends.](#)

Ben-Hasan A, Walters C, Louton R, Christensen V, **Sumaila UR**, Al-Foudari H.

2018. (*Ocean & Coastal Management*) [Fishing-effort response dynamics in fisheries for short-lived invertebrates.](#)

Bennett NJ. 2019. (*Coastal Management*) [In political seas: engaging with](#)

[political ecology in the ocean and coastal environment.](#)

Bennett NJ. 2019. (*Coastal Management*) [Marine social science for the](#)

[peopled seas.](#)

Cashion T, de la Puente S, **Belhabib D**, Pauly D, Zeller D, **Sumaila UR**. 2018.

(*PLOS ONE*) [Establishing company level fishing revenue and profit losses from fisheries: a bottom-up approach.](#)

Coristine LE, Colla S, **Bennett NJ**, Carrlsson A, Davy C, Davies KTA, Favaro B,

Tyler Flockhart DT, Fraser K, Orihel D, et al. 2019. (*Conservation Biology*)

[National contributions to global ecosystem values.](#)

Hanich Q, Rotjan R, Aqorau T, **Bailey M**, Campbell B, Gray N, Gruby R,

Hampton J, Ota Y, Parris H, Reid C, **Sumaila UR**, Swartz W. 2018.

(*Proceedings of the National Academy of Sciences Dec 2018*) [Unraveling the blue paradox: incomplete analysis yields incorrect conclusions about Phoenix Islands Protected Area closure.](#)

Magris RA, Marta-Almeida M, Monteiro JAF, **Ban NC**. 2019. (*Science of the Total Environment*) [A modelling approach to assess the impact of land mining on marine biodiversity: assessment in coastal catchments experiencing catastrophic events \(SW Brazil\)](#).

Moon K, Blackman DA, Adams VM, Colvin RM, Davila F, Evans MC, Januchowski-Hartley SR, **Bennett NJ**, Dickinson H, Sandbrook C, et al. 2019. (*Methods in Ecology and Evolution*) [Expanding the role of social science in conservation through an engagement with philosophy, methodology, and methods](#).

Outeiro L, Villasante S, **Sumaila UR**. 2018. (*Ocean & Coastal Management*) [Estimating fishers' net income in small-scale fisheries: minimum wage or average wage?](#)

Sumaila UR. 2019. (*Frontiers in Marine Science*) [A carding system as an approach to increasing the economic risk of engaging in IUU fishing?](#)

Sumaila UR. 2019. (*Encyclopedia of Food Security and Sustainability*) [Climate change: impact on marine ecosystems and world fisheries](#).

Sumaila UR. 2018. (*Deep Sea Research Part II: Topical Studies in Oceanography*) [Comparative valuation of fisheries in Asian Large Marine Ecosystems with emphasis on the East China Sea and South China Sea LMEs](#).

Sumaila UR. 2018. (*Ghanaian Journal of Economics*) [Illicit trade in the marine resources of West Africa](#).

Sumaila UR, Tai TC, Lam VWY, Cheung WWL, Bailey M, Cisneros-Montemayor AM, Chen OL, Gulati SS. 2019. (*Science Advances*) [Benefits of the Paris Agreement to ocean life, economies, and people](#).

Teh LSL, Bond N, KC K, Fraser E, Seng R, Sumaila UR. 2019. (*Fisheries Research*) [The economic impact of global change on fishing and non-fishing households in the Tonle Sap ecosystem, Pursat, Cambodia](#).

Tickler D, Meeuwig JJ, Bryant K, David F, Forrest JAH, Gordon E, Larsen JJ, Oh B, Pauly D, **Sumaila UR**, Zeller D. 2018. (*Nature Communications*) [Modern slavery and the race to fish](#).

BOOK CHAPTERS

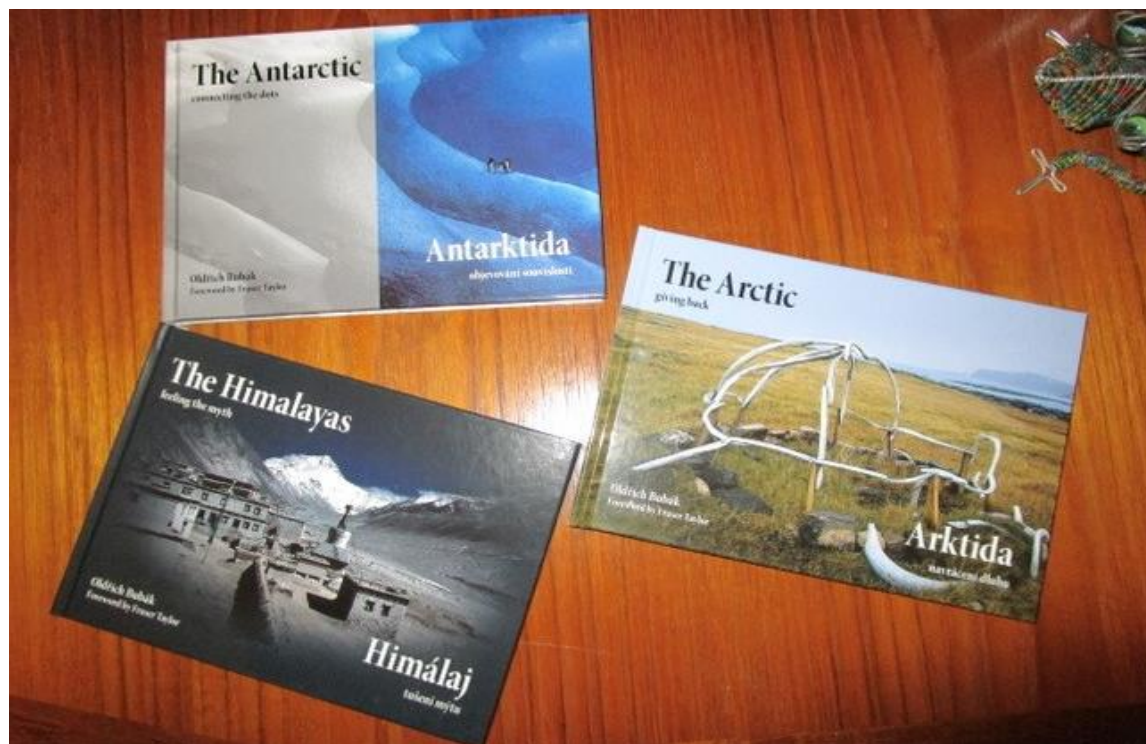
Bubak O, **Taylor DRF**. 2018. (*The Antarctic: connecting the dots. The Arctic: giving back. The Himalayas: feeling the myth*.). Foreword to book trilogy.

MAGAZINE ARTICLE

Taylor DRF. 2019. (*Geospatial World*) [Opportunities for geospatial industries in the age of location](#).

REPORT

Sutcliffe T, **Belhabib D**, McIsaac J, Macdonald E, **Fernandez D**, Nobels D, Gill I, Reid Kuecks B. 2018. (*Ecotrust Canada and T. Buck Suzuki Environmental Foundation*) [Just transactions, just transitions: towards truly sustainable fisheries in British Columbia](#)



RECENT PRESENTATIONS

Perth, Australia. February 19, 2019. Sumaila, Rashid.

How to achieve a sustainable blue economy. Institute of Advanced Studies, University of Western Australia.

Vancouver, BC. February 14, 2019. Bennett, Nathan.

Using perceptions as evidence in sustainability science. Institute for the Oceans and Fisheries Seminar, UBC.

Vancouver, BC. February 1, 2019. Bennett, Nathan.

In peopled seas: catalyzing insights from the marine social sciences in the ocean sustainability agenda. Institute for the Oceans and Fisheries Seminar, UBC.

Vancouver, BC. January 25, 2019. Cashion, Tim.

Dispelling the myths of farmed fish. Beer Battered Fish n' Chips Seminar, Institute for the Oceans and Fisheries, UBC.

Accra, Ghana. January 18, 2019. Sumaila, Rashid.

Illicit trade in the marine resources of West Africa. University of Ghana.

San Diego, CA. January 11, 2019. Sumaila, Rashid.

Interdisciplinary collaborative ocean economics research with examples from the 'ocean trenches.' Center for Marine Biodiversity and Conservation (CMBC), Scripps Institution of Oceanography 6th Annual Knowlton-Jackson Distinguished Speaker Lecture Event.

Vancouver, BC. January 11, 2019. Harper, Sarah.

Who owns fishing licences in BC? Biodiversity Legendary Internal Seminar Series (BLISS), Biodiversity Research Centre, UBC.

Ottawa, ON. December 14, 2018. Murasugi, Kumiko; Taylor, Fraser; Hayes, Amos.

A Nunaliit atlas of the Inuit languages in Canada. ArcticNet Conference.

Haikou, China. November 16, 2018. VanderZwaag, David.

International law and marine biodiversity conservation: tangled currents, foggy future. China-ASEAN Academy on Ocean Law and Governance 4th Program, National Institute for South China Sea Studies.

Haikou, China. November 16, 2018. VanderZwaag, David.

The precautionary approach on coastal/ocean governance: beacon of hope, seas of confusion and challenges. China-ASEAN Academy on Ocean Law and Governance 4th Program, National Institute for South China Sea Studies.

Toronto, ON. November 15, 2018. Sumaila, Rashid.

Indo-Pacific fisheries as a key to security and cooperation. The Indo-Pacific: Security Governance and Peace, second in the Series of Annual Workshops on The Geotechnical Politics of Ocean Frontiers, York University.

Washington, DC. November 10, 2018. Koubrak, Olga.

Marine mammal protection. Changing and Dynamic Oceans: Gauging Law and Policy Responses, George Washington Law School.

Washington, DC. November 10, 2018. VanderZwaag, David.

Governance of BBNJ in the Central Arctic Ocean: cooperative currents, foggy future. Changing and Dynamic Oceans: Gauging Law and Policy Responses, George Washington Law School.

Washington, DC. November 10, 2018. VanderZwaag, David.

Regional case studies (Sargasso Sea, Arctic). Changing and Dynamic Oceans: Gauging Law and Policy Responses, George Washington Law School.

Washington, DC. November 9, 2018. Saunders, Phillip.

Offshore renewables (tidal energy, wind). Changing and Dynamic Oceans: Gauging Law and Policy Responses, George Washington Law School.

WORKSHOPS

Stanford, CA. January 29-31, 2019.

William Cheung and Rashid Sumaila participated in the workshop [Oceans and the Future of Food](#), at Stanford University. The workshop focused on co-developing an initial research agenda for analyzing the role of the oceans within a global food systems context, highlighting issues related to food security, equity, poverty alleviation, human health, marine ecosystems, and environmental change.

Montreal, QC. December 1, 2018.

David VanderZwaag facilitated the workshop, Canadian Fisheries Management in the Arctic: Tangled Currents, Shifting Seascapes, at Responding to a Changing Arctic Ocean: Canadian and Russian Experiences and Challenges.



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.