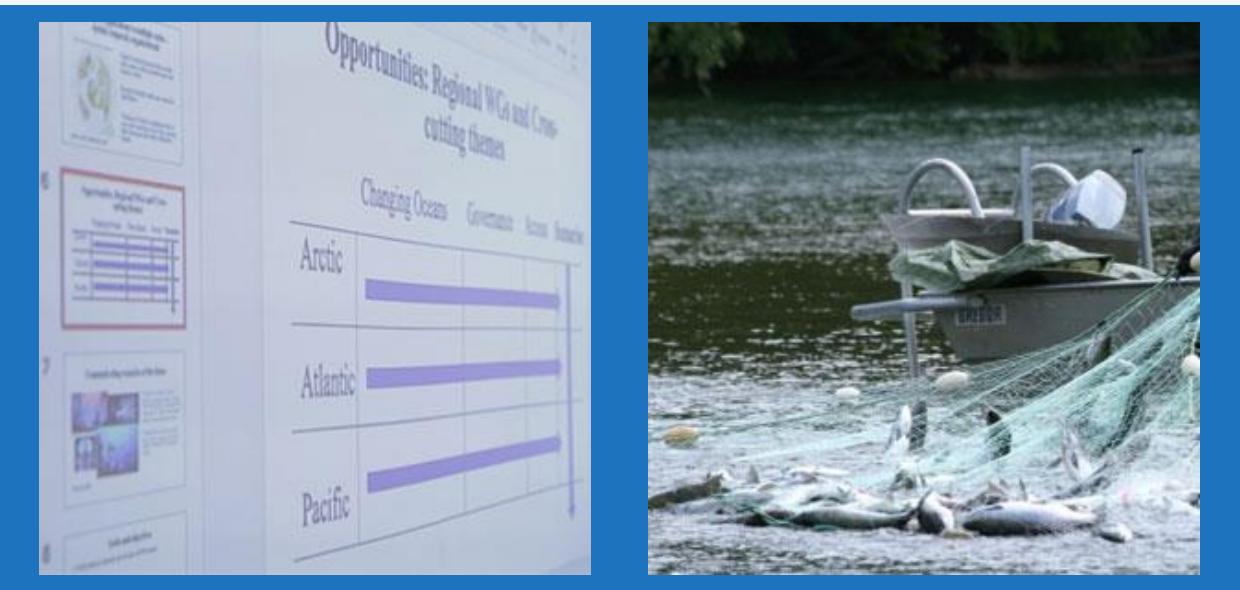




# OCEAN CANADA

## OCEANCANADA NEWSLETTER WINTER 2018



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## OCEANCANADA NEWS

### **“The Oceans Are Our Lives” Film Now Available**

As you read in our last newsletter, Rashid Sumaila, *OceanCanada* Director, has won the 2017 Volvo Environment Prize. A film made on British Columbia’s west coast highlighting his achievements is now available on the Volvo Environment Prize website. The award was conferred by the Deputy Prime Minister of Sweden Hon. Isabella Lövin, while Martin Lundstedt, CEO of Volvo, looked on.



[Click here to read more and to view the film](#) (10:49 min).

### ***OceanCanada* Speaker Series at the Vancouver Aquarium**



*OceanCanada* held its final speaker series event of 2017 on November 7, 2017 at the Vancouver Aquarium. “Making Sustainable Choices” was moderated by Rashid Sumaila, *OceanCanada* Director. Panel participants included Ann-marie Copping, Program Manager for Ocean Wise Seafood; Amy Mar, Regional

Manager, Sustainable Fisheries Framework, Fisheries and Oceans Canada; Gerald Singh, Nereus Postdoctoral Researcher, Institute for the Oceans and Fisheries, UBC; and Sonia Strobel, Co-founder and Managing Director, Skipper Otto’s Community Supported Fishery. The event was well attended, with a lively discussion between the audience and panel members, which included advice about choosing your seafood wisely.

## The Sun Also Rises... Over There



Ian Mauro, Associate Professor at the University of Winnipeg, and co-lead of the *OceanCanada* Knowledge Mobilization (KM) Working Group, was featured in a podcast on *This American Life* about something that happened to him while filmmaking in the Arctic. He was told by an Inuit elder that the sun was now rising at the time of the first

polar sun in a different location than where it had when he was a child. Some Inuit told him they believed this was caused by the Earth tilting on its axis. Baffled by this phenomenon, Ian sought a scientific explanation for it. To see if he found one, [listen to the podcast here](#) (11 min). [Read the transcript here](#) (scroll down to Act Three).

## ***OceanCanada* Workshop on Scenario Modelling**

A scenario workshop hosted by the National Data and Integrated Scenarios (NDIS) Working Group was held on January 22 and 23 at UBC, bringing together 13 participants from across *OceanCanada*'s Cross-Cutting Themes (CCTs) and Working Groups (WGs). Its purpose was to clarify how the three CCTs can be better integrated into national scenarios for the future of our oceans and local communities, and also how national scenarios can be linked to regional and local scales. The workshop was very productive, and will allow the CCTs and WGs to move forward with the following: 1) Clarifying pathways by which major social-ecological drivers will affect potential scenario outcomes at local, regional, and national scales; 2) Preparing a collaborative paper focused on the process of developing multi-scale scenarios for Canadian oceans; 3) Finding ways to communicate scenarios to a wider audience.

Thanks to everyone for making this a productive workshop!



## PARTNER & COLLABORATOR NEWS

### World Wildlife Fund-Canada Welcomes New President and CEO



WWF-Canada is pleased to announce the appointment of Megan Leslie as its new president and CEO as of December 2017.

Ms. Leslie has worked for the past several years in WWF ocean governance and conservation, and was previously a Nova Scotia politician, including an MP for Halifax for eight years. As MP she was deputy leader of the official Opposition, environment critic and vice-chair of the government committee on environment

and sustainable development. [Read more about Megan here.](#)

### Help Save Our BC Fishing Communities!



Two *OceanCanada* partners – The T. Buck Suzuki Foundation and Ecotrust – are involved in an initiative with other fishing-related organizations to battle problems caused by BC fisheries management which affect fishermen, fishing communities and all Canadians. Current structures and policies that allow unrestricted ownership and unlimited transferability of fishing licences and quota are negatively affecting historical values in BC's fishing industry. In an effort to fix this broken system, the organizers of this initiative are asking for your support through signing a petition, sending a letter or email, and making the public aware of this problem. [See how you can help here.](#)



## **Geomatics and Cartographic Research Centre (GCRC), Carleton University, Holds Clyde River Workshop**

The GCRC has initiated a project with Indigenous Affairs and Northern Development Canada (INAC) on Nunaliit Framework Development in support of community climate monitoring projects which will involve a number of the GCRC's Northern partners.

The first project workshop took place in Clyde River during the week of January 14, facilitated by Amos Hayes. The funding for this initiative is a direct result of the GCRC's consultations with its Northern partners and funding agencies, as was reported in the Fall 2017 newsletter.



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## MEDIA COVERAGE

### 2018

January 30. [Ocean Luminaries explore ocean mysteries at American Museum of Natural History](#). Broadway World.

January 25. [The ups and downs of marine protected areas: examining the evidence](#). Mongabay.

January 13. [Scientists cite solutions to arrest alarming fisheries decline](#). Philippine Canadian Inquirer.

January 13. [Pilipinas, nanganganib maubos ang yamang dagat](#). ABS-CBN.

January 11. [Our oceans are suffocating!](#) Roundhouse Radio.

January 3. [GLORES partner spotlight: Dr. Rashid Sumaila](#). Marine Conservation Institute.

### 2017

December 24. [The UN starts a conservation treaty for the high seas](#). National Geographic.

December 23. [The danger to the South China Sea fishery](#). Asia Sentinel.

December 21. [Experts to China: cooperate or South China Sea fisheries may collapse](#). Mongabay.

December 11. [Last tango in Buenos Aires: WTO faces deadline to ban fishing subsidies](#). News Deeply.

December 11. [Sea change](#). Food in Canada.

December 1. [Nu invigs världens största marinreservat](#). Sverige Radio.

November 30. [Canada 150: reflect and reimagine](#). Library and Archives Canada.

November 30. [Pacific island fish migrating to cooler seas](#). SciDev.Net.

November 30. [Se nya bilderna på kronprinsessan Victoria](#). Svensk Dam.

November 29. [Geomatics and Cartographic Research Centre hosts Indigenous and northern research partners](#). Carleton University VPRI.

November 29. [Expert vill förbjuda fiske på öppet hav](#). Enköpings Posten.

November 29. [Volvo Environment Prize 2017](#). (video clip). Marklund Film AB.

November 28. [Kronprinsessan vid The Global Ocean and the Future of Humanity.](#)  
Kungl. Hovstaterna.

November 27. [Världshaven i akut behov av skyd.](#) Göteborgs-Posten.

November 17. [Pacific threat: 80 per cent of fish set to be wiped out as ocean temperatures surge.](#) Newsweek.

November 17. [50-80pct of fish in Pacific Islands could disappear due to climate change.](#) FIS.

November 16. [Climate change impacts on fisheries and biodiversity of Pacific Island countries and territories.](#) Science Trends.

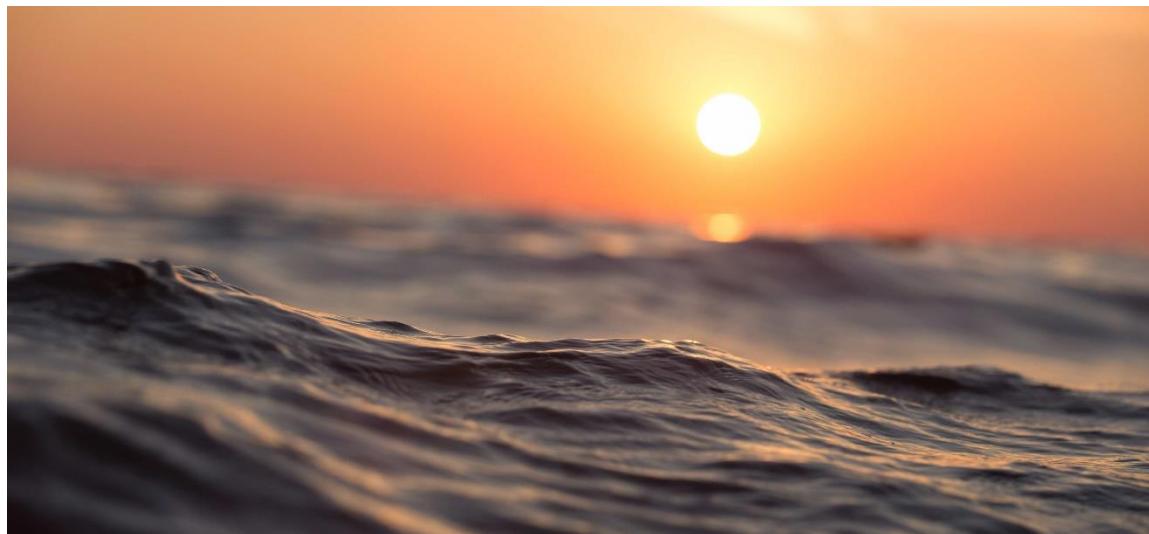
November 16. [Climate change could wipe out 80% of fish in the Pacific Islands.](#)  
Huffington Post UK.

November 13. [Blob is gone, but not forgotten for scientists studying decline in B.C. fish stocks.](#) Vancouver Sun.

November 8. [Digital stories take Indigenous knowledge to the big screen.](#) SSHRC.

November 8. [Professor says protected waters an opportunity for Indigenous empowerment.](#) The Chronical Herald.

October 27. [Things I mean to know: the sun also rises... over there.](#)  
This American Life.



## RESEARCHER IN PROFILE



Dr. Dyhia Belhabib is a Program Manager of Fisheries and Principal Investigator of I-Sea Fisheries at Ecotrust Canada, an *OceanCanada* partner. Dyhia works on fisheries access and policy and tries to integrate the notions of adjacency, fairness, and accountability as she works on multidimensional issues relating to community and industrial fisheries in Canada and globally. Since she believes in the power of information democracy, she leads a project that records the

criminal activity of high mobility fishing vessels, researches the economics of fishing and fish-related crimes and their impacts on small-scale communities in the world, and engages with governments and other stakeholders to implement research findings in policy. Dyhia mobilizes interdisciplinary research through academic scholars and community partners to yield novel insights and realize meaningful changes. This requires not only “hard data,” but also a nuanced understanding of the economic and political landscape of the countries she investigates. In addition, she explores the notions of social finance, decolonization of fisheries and natural resource sectors, and the economics of access rights. Dyhia’s work largely focuses on adding transparency and insight through extensive research on fisheries in Canada and abroad. In Western Canada, this translates into analyzing the impacts of market driven fisheries management tools on coastal communities, and researching sustainable alternatives that will allow communities to re-capture the benefits from their adjacent resources. Dyhia’s research on assessing the economics of fish crimes has had a significant impact on policy, notably in Africa. Her research has been featured numerous times in various media, notably *The New York Times*. A strong believer in science communication and policy engagement, she thinks of herself as one of those researchers, economists, and policy advocates who reside at the bottom of the ivory tower. Dyhia completed her PhD in Resource Management and Environmental Studies at the Institute for the Oceans and Fisheries, UBC, in 2014, just hours before she had a baby. Dyhia is also on the board of the National Centre for Fisheries and Aquaculture Research of Algeria and the FishTracker initiative, is the editor on the topic of illegal fishing as a trans-national crime for the journal *Frontiers in Marine Science*, and a contributing author for the Africa chapter of the UN Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. Dyhia maintains a [Researcher’s Diary](#), writing about her research findings in accessible language.

Twitter: [@dyhiapadilla](#)

## RECENT PUBLICATIONS

### JOURNAL ARTICLES

Ahmed N, **Cheung WWL**, Thompson S, Glaser M. 2017. (*Marine Policy*) [Solutions to blue carbon emissions: shrimp cultivation, mangrove deforestation and climate change in coastal Bangladesh.](#)

**Armitage D**, Baird J, Dzyundzyak A, Bodin O, Plummer R, Schultz L. 2017. (*Environmental Policy and Governance*) [An approach to assess learning conditions, effects and outcomes in environmental governance.](#)

Asch RG, **Cheung WWL**, Reygondeau G. 2017. (*Marine Policy*) [Future marine ecosystem drivers, biodiversity, and fisheries maximum catch potential in Pacific Island countries and territories under climate change.](#)

**Ban NC**, Frid A. 2018. (*Marine Policy*) [Indigenous peoples' rights and marine protected areas.](#)

**Beattie, H.** 2017. (*Journal of Aboriginal Economic Development*) ['What about the salmon?': a critical analysis of the Pacific Northwest LNG project in British Columbia.](#)

**Bennett NJ, Kaplan-Hallam M**, Augustine G, **Ban N, Belhabib D, Brueckner-Irwin I, Charles A**, Couture J, **Eger S**, Fanning L, Foley P, **Goodfellow AM**, Greba L, **Gregr E**, Hall D, **Harper S**, Maloney B, McIsaac J, Ou W, **Pinkerton E**, Porter D, Sparrow R, **Stephenson R, Stocks A, Sumaila UR**, Sutcliffe T, **Bailey M**. 2018. (*Marine Policy*) [Coastal and Indigenous community access to marine resources and the ocean: a policy imperative for Canada.](#)

**Bennett NJ**, Whitty TS, Finkbeiner E, Pittman J, Bassett H, Gelcich S, Allison EH. 2018. (*Environmental Management*) [Environmental stewardship: a conceptual review and analytical framework.](#)

Cosme N, Jones MC, **Cheung WWL**, Larsen HF. 2017. (*Ecological Indicators*) [Spatial differentiation of marine eutrophication damage indicators based on species density.](#)

Fernandes JA, Papathanasopoulou E, Hattam C, Queirós AM, **Cheung WWL**, Yool A, Artioli Y, Pope EC, Flynn KJ, Merino G, Calosi P. 2017. (*Fish and Fisheries*) [Estimating the ecological, economic and social impacts of ocean acidification and warming on UK fisheries.](#)

Godwin S, Francis F, Howard B, Malpica-Cruz L, **Witter A**. 2017. (*Marine Policy*) [Towards the economic viability of local seafood programs: key features for the financial performance of community supported fisheries.](#)

Gray NJ, **Bennett NJ**, Day J, Gruby RL, Wilhelm TA, Christie P. 2017. (*Coastal Management*) [Human dimensions of large-scale marine protected areas: advancing research and practice.](#)

Jones MC, **Cheung WWL**. 2017. (*Global Change Biology*) [Using fuzzy logic to determine the vulnerability of marine species to climate change.](#)

Lennox RJ, Aarestrup K, Cooke SJ, Cowley PD, Deng ZD, Fisk AT, Harcourt RG, Heupel M, Hinch SG, Holland KN, Hussey NE, Iverson SJ, Kessel ST, Kocik JF, Lucas MC, Mills Flemming J, Nguyen VM, Stokesbury MJW, Vagle S, **VanderZwaag DL**, Whoriskey FG, Young N. 2017. (*BioScience*) [Envisioning the future of aquatic animal tracking: technology, science, and application.](#)

Lynch A, Asch R, **Cheung WWL**, et al. 2017. (*Reviews in Fish Biology and Fisheries*) [Impacts of climate change on marine and inland fishes and fisheries.](#) (Editorial)

Maureaud A, Gascuel D, Colléter M, Palomares MLD, Du Pontavice H, Pauly D, **Cheung WWL**. 2017. (*PLoS ONE*) [Global change in the trophic functioning of marine food webs.](#)

Maury O, Campling L, Arrizabalaga H, Aumont O, Bopp L, Merino G, Squires D, **Cheung WWL**, et al. 2017. (*Global Environmental Change*) [From shared socio-economic pathways \(SSPs\) to oceanic system pathways \(OSPs\): building policy-relevant scenarios for global oceanic ecosystems and fisheries.](#)

Pauly D, **Cheung WWL**. 2017. (*Global Change Biology*) [Sound physiological knowledge and principles in modeling shrinking of fishes under climate change.](#)

Pittman J, **Armitage D**. 2017. (*Ecology and Society*) [How does network governance affect social-ecological fit across the land-sea interface? An empirical assessment from the Lesser Antilles.](#)

Plummer R, Baird J, **Armitage D**, Bodin Ö, Schultz L. 2017. (*Ecology and Society*) [Diagnosing adaptive co-management across multiple cases.](#)

Plummer R, Dzyundzyak A, Baird J, Bodin Ö, **Armitage D**, Schultz L. 2017. (*PLoS ONE*) [How do environmental governance processes shape evaluation of outcomes by stakeholders? A causal pathways approach.](#)

Roberts CM, O'Leary BC, McCauley DJ, Cury PM, Duarte CM, Lubchenco J, **Sumaila UR**, et al. 2017. (*Proceedings of the National Academy of Sciences*) [Marine reserves can mitigate and promote adaptation to climate change.](#)

Stock CA, John JG, Rykaczewski RR, Asch RG, **Cheung WWL**, Dunne JP, Friedland KD, Lam VWY, Sarmiento JL, Watson R. 2017. (*Proceedings of the National Academy of Sciences of the United States of America*) [Reconciling fisheries catch and ocean productivity.](#)

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

## BOOK CHAPTERS

Brown HC, Peach AR, **Armitage D**, Brown S, Charles A, Khirfan L, MacFadyen J. 2017. ([From black horses to white steeds: building community resilience](#)) Building resilient coastal communities in the context of climate change.

**Sumaila UR**, Jacquet J, **Witter A**. 2017. ([Corruption, natural resources and development: from resource curse to political ecology](#)) When bad gets worse: corruption and fisheries.

## WORKING PAPER

**Sumaila UR**. 2017. [Trade and sustainable fisheries.](#) ADBI Working Paper Series.

## RECENT PRESENTATIONS

### **Waterloo, ON, January 8, 2018. Doubleday, Nancy.**

The Indigenous peoples of Canada, an Arctic perspective: social-cultural-ecological factors influencing their health, and access to health care. Global Transitions within Local Communities: Small Places, Big Changes. Global Health.

### **Québec City, QC, December 11-15, 2017. Hayes, Amos.**

Mapping with Nunalivut. ArcticNet.

### **Québec City, QC, December 11-15, 2017. Scassa, Teresa; Taylor, Fraser; Nickels, Scott.**

Towards a legal framework for the collection and sharing of Inuit Knowledge. ArcticNet.

### **Buenos Aires, Brazil, December 11-13, 2017. Emerson, W.; Jara, A.; Nouvian, C.; Sumaila, Rashid; Vickers, B.**

Reforming perverse fisheries subsidies at MC11. Trade and Sustainable Development Symposium.

### **Ottawa, ON, November 30, 2017. Ban, Natalie.**

Brief on Oceans Act Marine Protected Areas. Canadian House of Commons Standing Committee on Fisheries and Oceans.

### **Guelph, ON, November 17, 2017. Armitage, Derek.**

Communities, coasts and governance. Department of Geography Speaker Series, University of Guelph.

### **Guam, November 13-17, 2017. Sumaila, Rashid.**

Effects of climate change in the Pacific and policy/legal response options. Pacific Judicial Council 2017 Environmental Law and Science Conference.

What the science says on climate change: projected effects in the Pacific Islands. Pacific Judicial Council 2017 Environmental Law and Science Conference.

**Hainan, China, November 10-11, 2017. Saunders, Phillip.**

Dispute settlement in UNCLOS and the South China Sea Arbitration. Hainan University Law School.

Introduction to the law of the sea: global management of the oceans. Hainan University Law School.

Maritime boundary delimitation: overview of legal principles and simulation exercise. China-ASEAN Academy on Ocean Law and Governance, National Institute for South China Sea Studies.

**Hainan, China, November 10, 2017. VanderZwaag, David.**

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

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

**Victoria, BC, November 7, 2017. Sumaila, Rashid.**

“Lost” First Nations fisheries: some economic insights. Transforming Fisheries: Respecting Indigenous Governance and Management, First Nations Fisheries Council.



**Wilmington, NC, November 6, 2017. Gregr, Edward J.; Martone, R.; Chan, Kai.**

Sea otters and kelp forests: real and potential transformations in blue carbon and resilience.  
Global Marine Science Summit, University of North Carolina.

**Ottawa, ON, November 3, 2017. VanderZwaag, David.**

Governance of the central Arctic Ocean: cooperative currents, restless sea. 2017 Canadian Council on International Law Conference.

**Yeosu, South Korea, October 30-31, 2017. VanderZwaag, David.**

The precautionary approach in coastal/ocean governance: beacon of hope, seas of confusion and challenges. Yeosu Academy of the Law of the Sea.

Law of the sea and ocean governance in the Arctic: conflict, cooperation 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.