
Welcome to
PICES-2026!
Actionable Science
for a Changing Ocean
Oct 24-30, 2026 | Nanaimo, Canada
PICES



Welcome to PICES-2026

Tetsuo Fujii

PICES Chair

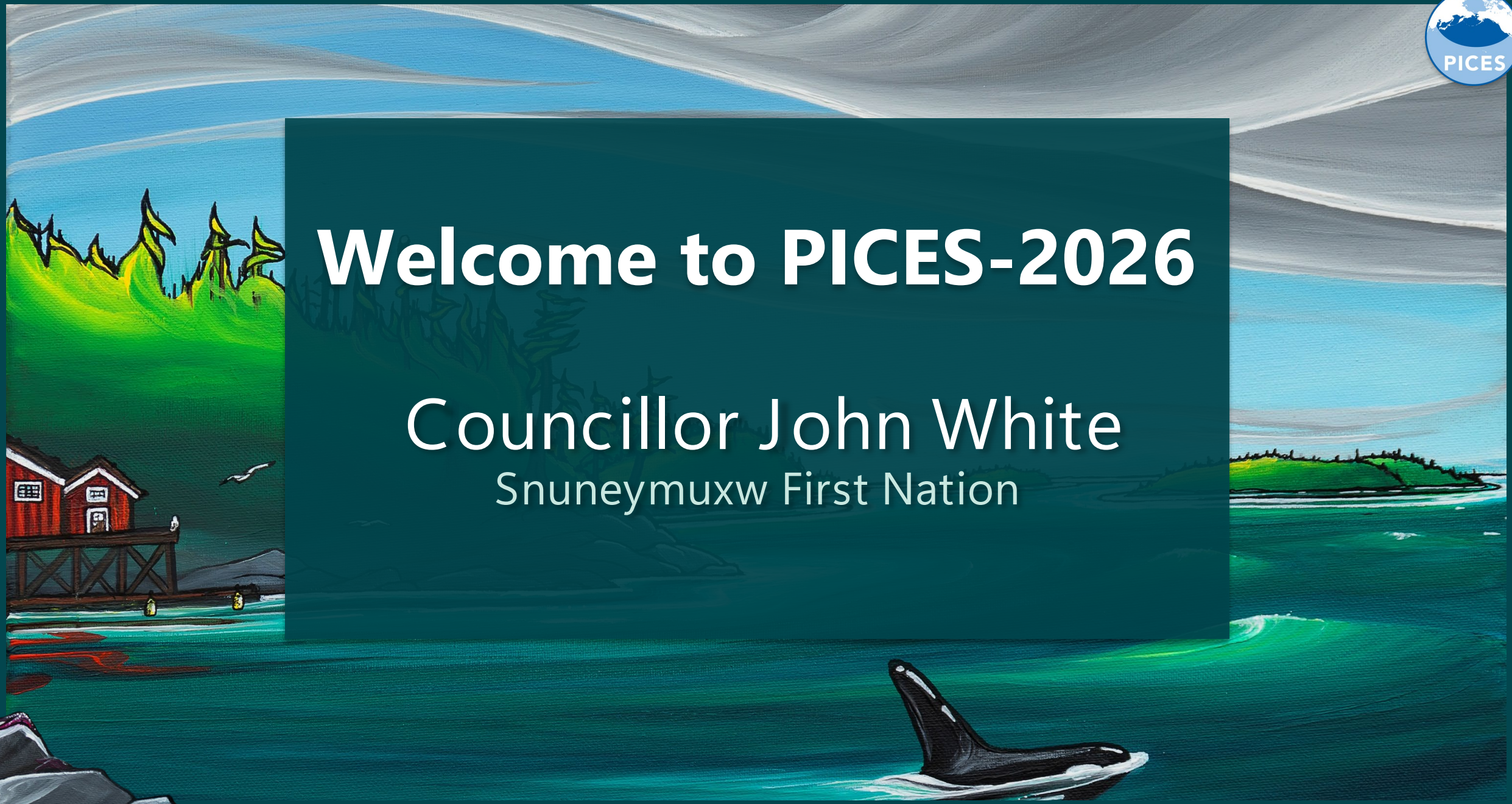
Oct 24-30, 2026 PICES-2026 Nanaimo, Canada



Territory Welcome

Elder Sandra Good

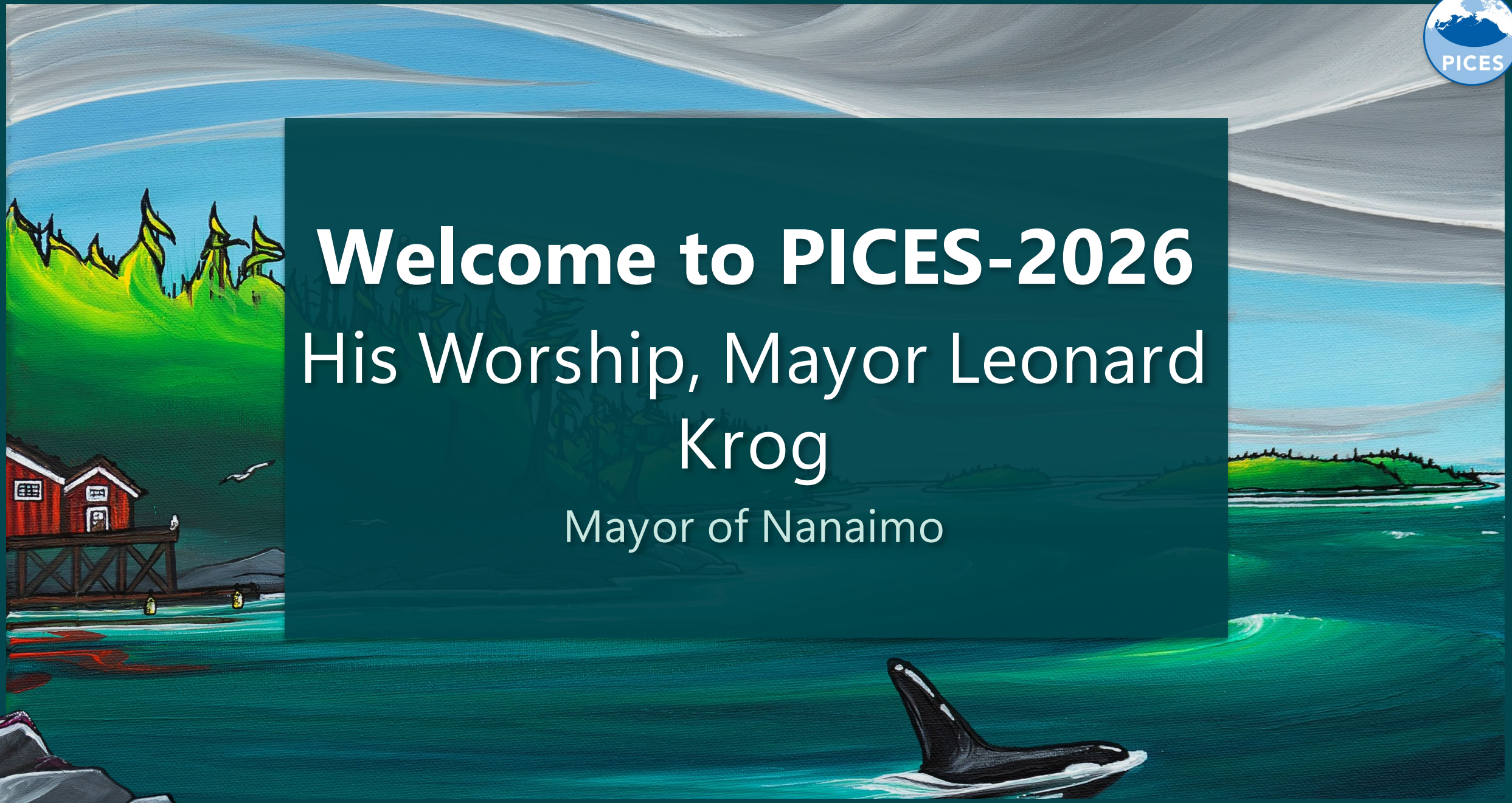
Snuneymuxw First Nation



Welcome to PICES-2026

Councillor John White

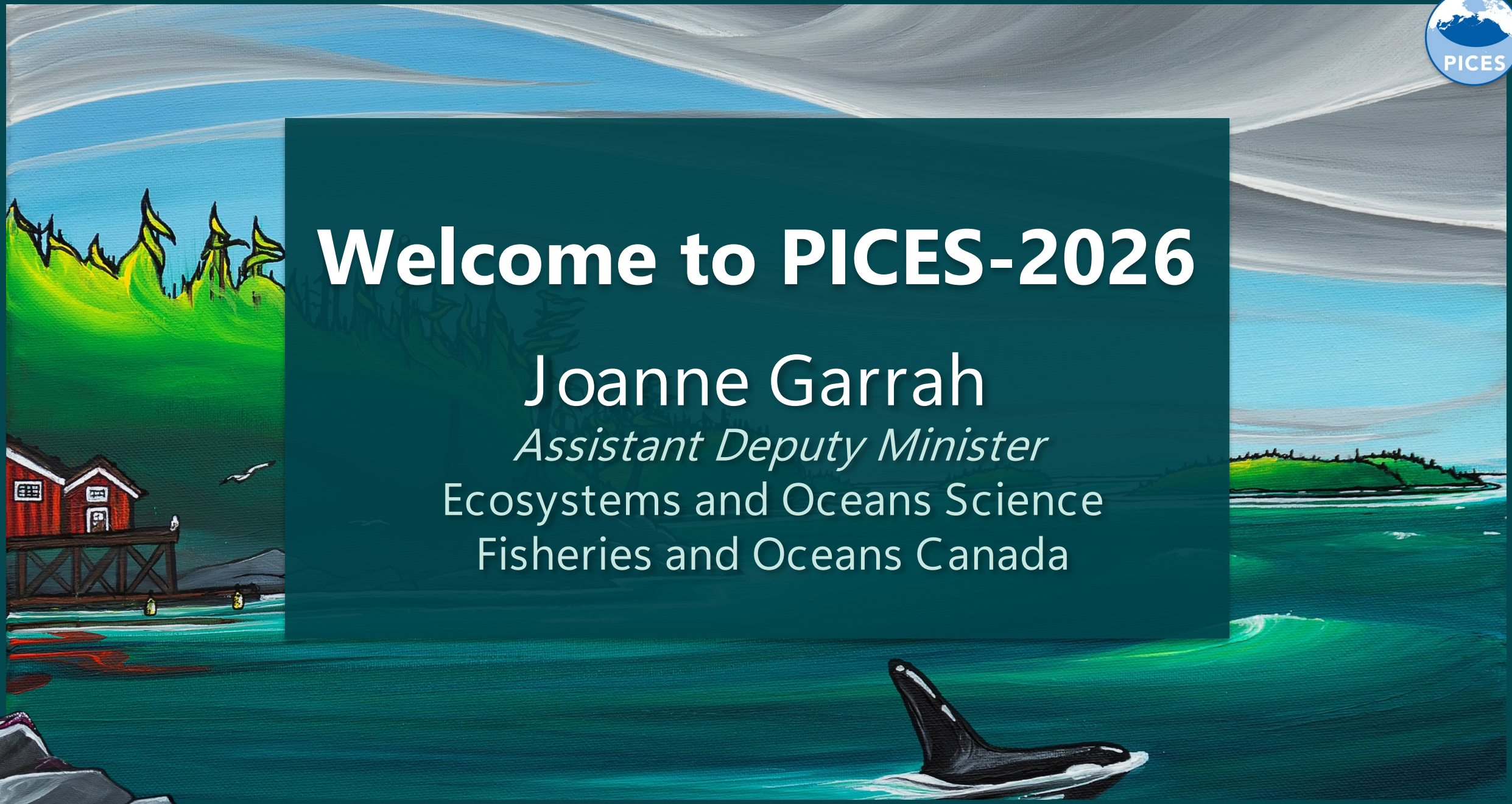
Snuneymuxw First Nation



Welcome to PICES-2026

His Worship, Mayor Leonard Krog

Mayor of Nanaimo



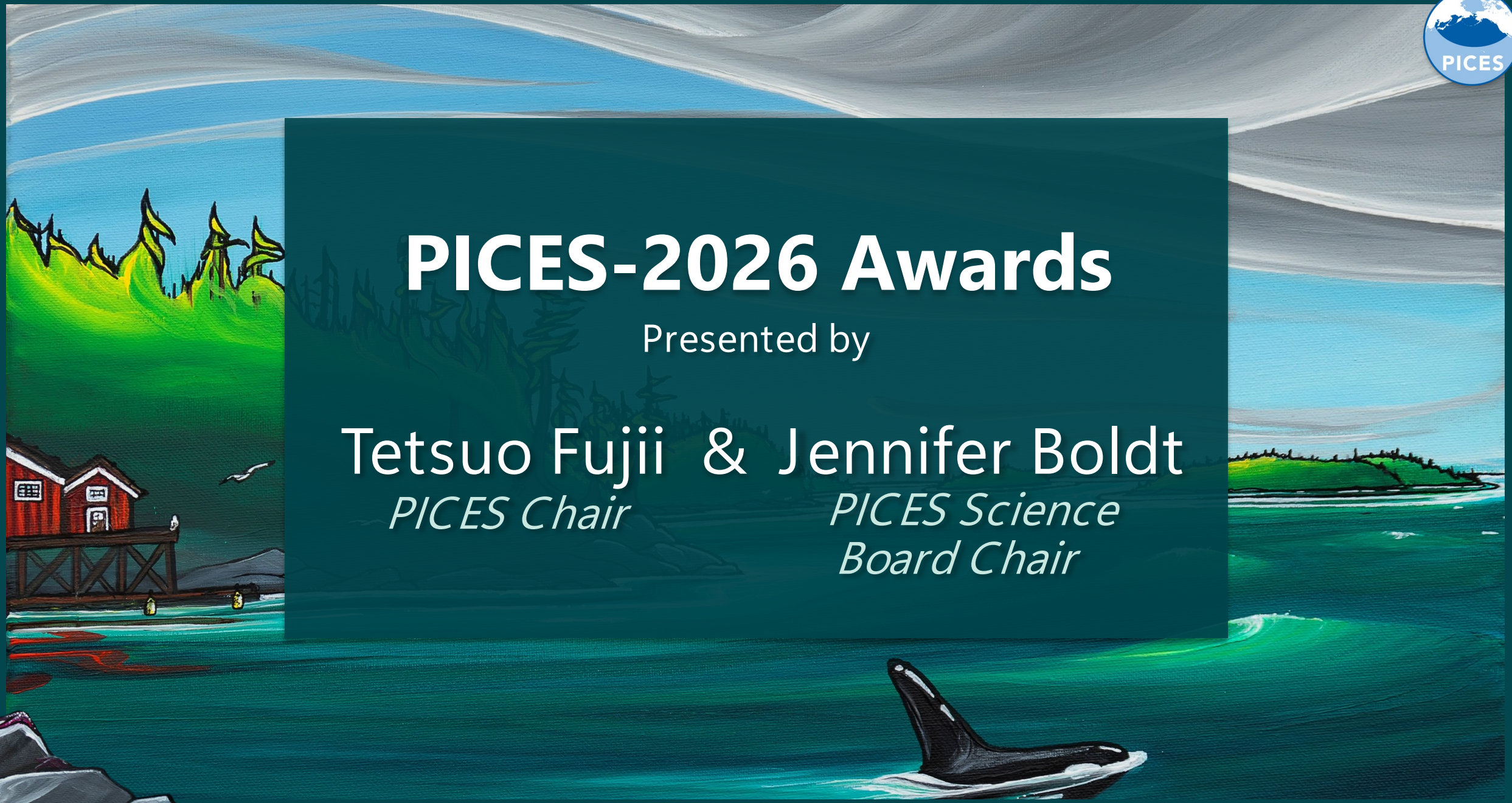
Welcome to PICES-2026

Joanne Garrah

Assistant Deputy Minister

Ecosystems and Oceans Science

Fisheries and Oceans Canada



PICES-2026 Awards

Presented by

Tetsuo Fujii & Jennifer Boldt

PICES Chair

PICES Science Board Chair

PICES-2026 Awards

Chair Award



Chair Award Background

Established in 2016 by PICES Governing Council

Awarded for sustained contributions to the development of PICES, that have allowed it to meet its purpose as set out in *Article III* of the *PICES Convention*:

- *Article III: Purpose of the Organization:*
  - *to promote and coordinate marine scientific research in order to advance scientific knowledge of the area concerned and of its living resources, including but not necessarily limited to research with respect to the ocean environment and its interactions with land and atmosphere, its role in and response to global weather and climate change, its flora, fauna and ecosystems, its uses and resources, and impacts upon it from human activities;*

  - *to promote the collection and exchange of information and data related to marine scientific research in the area concerned.*

Chair Award Past Recipients

2016 2018 2019 2021 2022 2023 2024



2016: Rich Marasco (USA) and Alex Bychkov (PICES Secretariat)

2018: Tokio Wada (Japan) and John Stein (USA)

2019: Pat Livingston (USA)

2021: Laura Richards (Canada)

2022: Chul Park (Korea)

2023: Robin Brown (Canada)

2024: Mike Seki (USA)

The PICES-2026 Chair Award Winner is....



PICES-2026 Chair Award Winner

Dr. Stewart (Skip) McKinnell



PICES-2026 Chair Award Winner

Dr. Stewart (Skip) McKinnell



PICES-2005 Vladivostok, Russia

Scientific Leadership:

- Creatively strengthened PICES' publishing program by working with peer-reviewed journals and suggesting the establishment of PICES Special Publications series; edited 12 PICES special issues in special journal issues and numerous PICES publications.
- Played a vital role in initiating several major symposia and continued up-to-date symposium series, such as ICES-PICES-IOC Symposia on "Effects of Climate Change on the World's Ocean".

Scientific Coordination: Served as a Co-Chair, Leader or Member of 11 PICES expert groups

Data Exchange: Helped establish the foundations of PICES data collection and information-sharing activities.

PICES-2026 Chair Award Winner

Dr. Stewart (Skip) McKinnell

Ecosystem Understanding: Served as the Coordinator and Co-Editor of the first two North Pacific Ecosystem Status Reports (2004 and 2010), integrating information from all PICES member countries on the state of North Pacific Ocean ecosystems.

Science for Decision-Making: Contributed to major scientific advice initiatives on climate and ecosystem change, including the formal request for advice from the US Government on the implications of the 1998 regime shift for North Pacific fisheries (2004), and led preparation of the Advisory Report to the Canadian Cohen Commission on Fraser River sockeye salmon survival (2011).



Skip and John Davis at the 2006 PICES CCCC Symposium on Climate Variability and Ecosystem Impacts on the North Pacific, Honolulu, USA

PICES-2026 Chair Award Winner

Dr. Stewart (Skip) McKinnell

International Partnerships: Strengthened long-term collaboration among PICES, ICES, NPAFC, and other international organizations.

Capacity Building: Helped develop initiatives that continue to support Early Career Scientists and future scientific leaders by:

- Proposing and promoting a concept for the ICES/PICES Early Career Scientists conference series and serving as a coordinator and advisor for the first two conferences in 2007 and 2012.
- Coordinating the first two PICES Marine Science Summer Schools in 2006 and 2008.

Mentorship and Inclusion: Encouraged participation, supported authors, and connected scientists across member countries.



First PICES-ICES Conference in 2007

PICES-2026 Chair Award Winner

Dr. Stewart (Skip) McKinnell











PICES-2026 Chair Award Winner

Dr. Stewart (Skip) McKinnell

"His service to PICES is a major reason why the organization has been such a success. He knows how to ask tough questions in a way that inspires the scientist to think carefully about the direction of his or her research. ."

-Anne Hollowed, USA



PICES-2011 Khabarovsk, Russia

"Other than to basic science, he also made valuable contributions to science under political pressure,... His wider view and great human network of marine science may make him admirable Deputy Executive Secretary of PICES."

-Taro Ichii, Japan



PICES-1995 Quingdao, PR China

"One may wonder why PICES has become a household name among marine scientists, but one thing is clear: Skip has played a tremendous role hoisting the flag. ."

- Villy Christensen, Canada



PICES-2000 Hakodate, Japan

PICES-2026 Chair Award Winner

Dr. Stewart (Skip) McKinnell

You have been a great one to mine dusty file drawers for nearly forgotten data and to bring it to light and fresh use through your publications. This is so important to keep us researchers from unknowingly repeating what has already been done before, and to provide those priceless views from the past…

- Nancy Davis, NPAFC

"Skip McKinnell is an adept scientist and administrator, a rare combination. He also has a great ability to understand and transcend cultural and institutional differences ."

-Frank Schwing, USA



PICES-1996 in Nanaimo, Canada

"…Skip has always impressed me with his great skills at facilitating meetings and being able to cut through the often foggy discussions to identify the critical issues and questions. This is always done in a manner that is sensitive to how the different cultures around the North Pacific conduct science and conduct meetings….

-Ian Perry, Canada

PICES-2026 Chair Award Winner

Dr. Stewart (Skip) McKinnell

Acceptance Remarks



PICES-2026 Awards

Wooster Award



Wooster Award Background



- Established in 2000 by PICES Governing Council
- Named in honour of **Professor Warren S. Wooster**, principal founder and first Chairman of PICES; world-renowned researcher and statesman in the area of climate variability and fisheries production.
- Presented annually to an individual who has made significant scientific contributions to North Pacific marine science, such as understanding and predicting the role of human and climate interactions on marine ecosystem production.
- Main selection criteria: sustained excellence in research, teaching, administration or a combination of the three in the area of North Pacific marine science.
- Special consideration is given to individuals who have worked towards integrating marine science disciplines
- Preference to individuals involved in PICES activities

The PICES-2026 Wooster Award Winner is....



PICES-2026 Wooster Award Winner

Dr. Jacquelynne (Jackie) King

Fisheries and Oceans Canada



Jackie King: an active and internationally respected marine scientist

Over 44 Primary publications
Over 54 Scientific reports
11 Book and book chapters

Special Awards

2022 DFO Regional Distinction Award for Excellence in Science

2010 DFO Regional Immediate Award for Contributions in Science

2007 DFO Regional Immediate Award for Contributions in Science



Victoria
2019

Scientific Career

1991: B.Sc. Biology, University of Toronto

1997: Ph.D. Zoology, University of Toronto.

1997 – 1999: Post-doctoral fellow, Pacific Biological Station, DFO, working on salmon

Since1999: DFO, Research Scientist studying:

- groundfish responses to climate regime shifts,
- conservation strategies for sharks,
- links between coastal ecosystems and basin ecosystems,
- abundance, distribution, production of salmon and associated species
- adapting fisheries management strategies to consider climate regime shifts,
- climate change impacts on salmon.








VIKING


31591
FISHERIES
RESEARCH



Arctic and Antarctic Research Institute

AARI Arctic and Antarctic Research Institute

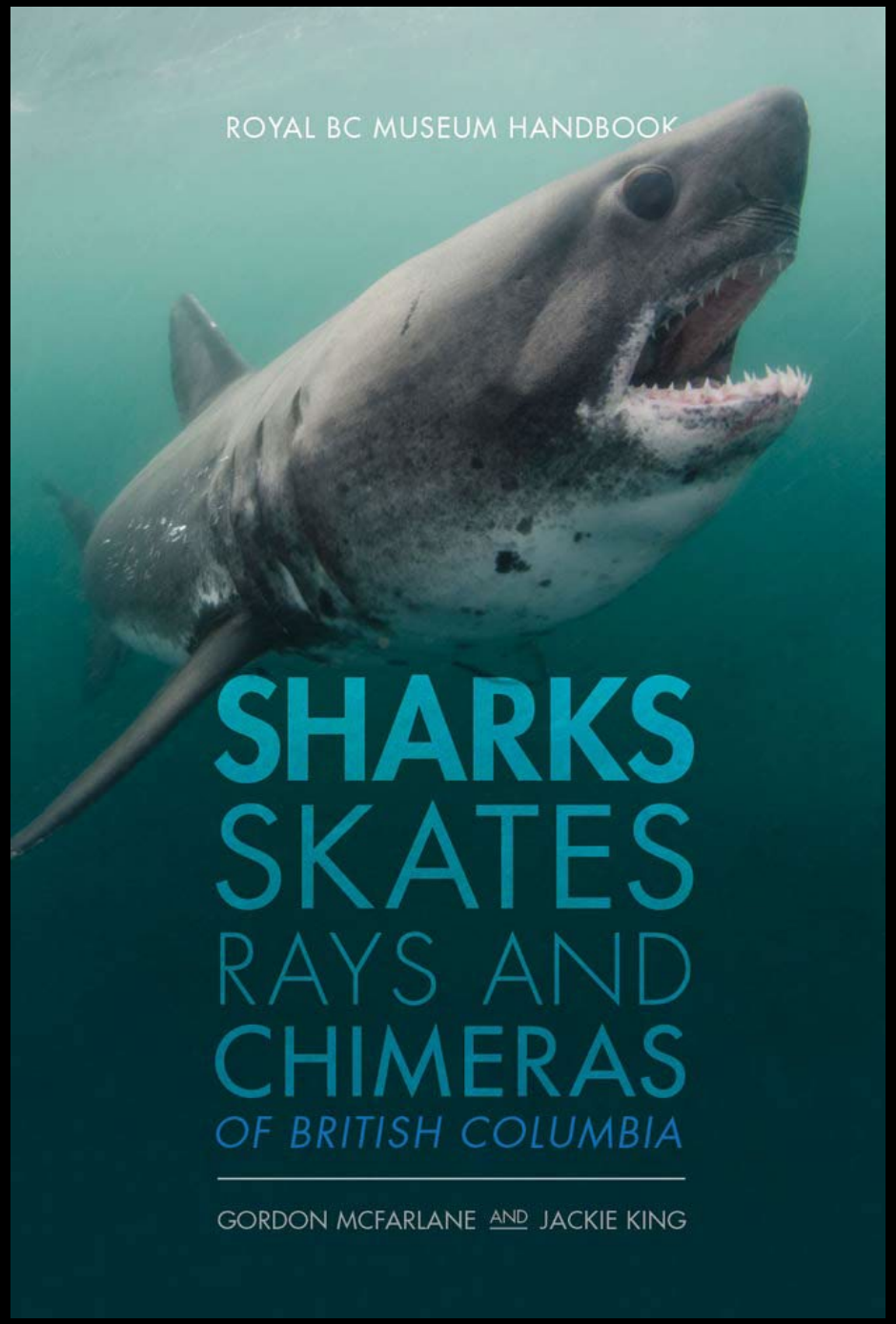
English-language Logo



Headquarters in Saint Petersburg






ROYAL BC MUSEUM HANDBOOK
SHARKS
SKATES
RAYS AND
CHIMERAS
OF BRITISH COLUMBIA
GORDON MCFARLANE AND JACKIE KING



Connecting Science to Management, Policy And People

Jackie King
Fisheries and Oceans Ca

Paul Covert
Sarah Dudas
Cherisse Du Preez

PICES 2019 Annual Meeti
Victoria, BC



www.nanaimobulletin.com

NEWS

International scientists share research

CONFERENCE IN Nanaimo looks at Pacific Ocean health.

BY CHRIS BUSH
THE NEWS BULLETIN

The health of the Pacific Ocean's ecosystem is on the minds of hundreds of marine scientists who have gathered in Nanaimo this week.

More than 400 scientists from Canada, the U.S., China, Japan, Russia and Korea decended upon Nanaimo for the Pacific International Council for Exploration of the Seas, an annual general meeting of the North Pacific Marine Science Organization

Photo: M. Schwartzel

Jackie King: an international science leader

PICES:

- Member and/or Chair of over 14 Committees, Sections, Working Groups, Task Teams, Study Groups
- Convenor and Steering Committee member of many conferences and Scientific Sessions
- Currently Chair of Fisheries Science Committee

Other organisations:

- International Pacific Halibut Commission,
- International Scientific Committee for Tuna and Tuna-like Species
- International Union for Conservation of Nature (IUCN)
- Committee on Scientific Research and Statistics, North Pacific Anadromous Fish Commission (NPAFC)




Victoria 2019


Honolulu 2017


PICES
PICES
La Jolla 2016


Honolulu 2017


Yokohama 2025
Certificate of Recognition
Alexanra Regalado


Honolulu
2024
Honolulu, USA
Certificate of Recognition
Alexanra Regalado


Science Board 2023


Honolulu 2017
蒼鷹丸







Jackie King: a friend and colleague


Honolulu 2024




Victoria 2019

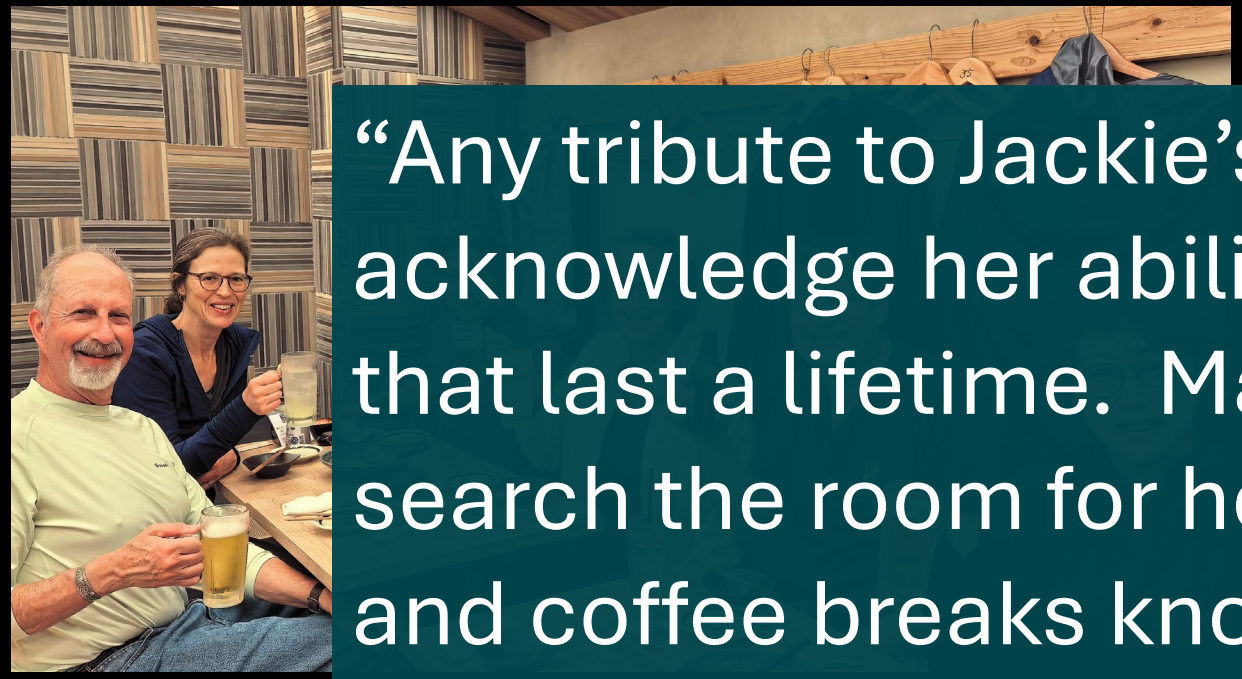



Yokohama 2025

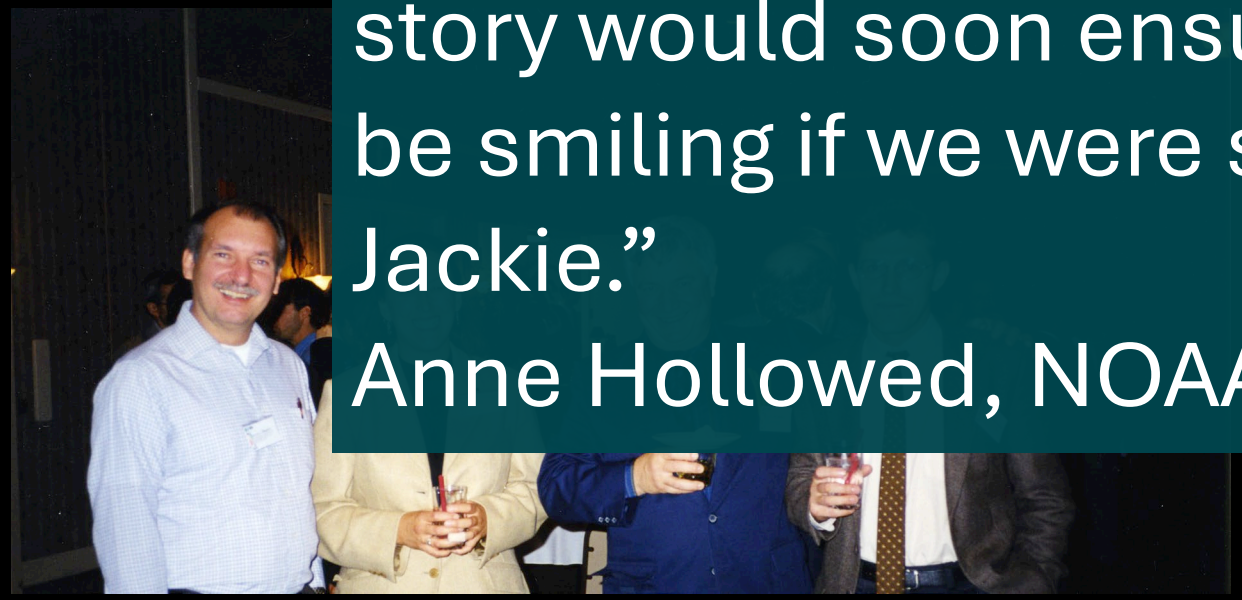

INTERSESSIONAL FUTURE WORKSHOP/ISB 2012
Busan 2012

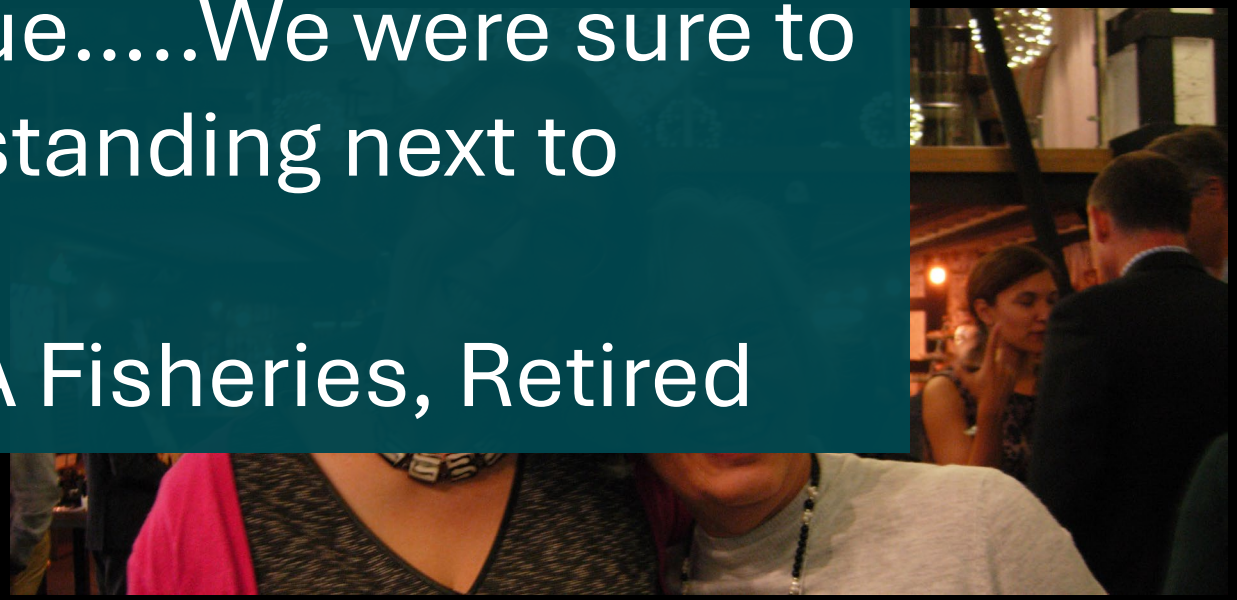

Fairbanks 1998


Vladivostok
2017









"Any tribute to Jackie's career must acknowledge her ability to form friendships that last a lifetime. Many of us would search the room for her during receptions and coffee breaks knowing that some fun story would soon ensue.....We were sure to be smiling if we were standing next to Jackie."

Anne Hollowed, NOAA Fisheries, Retired

Jackie King: a daughter, wife, and mother








The Strait of Ge
"Booked" for 20
Editors: Dick Beamish and Sandy M
Publisher: Springer









Dr. Jackie King – PICES' 2026 Wooster Award recipient!



Dr. Jackie King – PICES' 2026 Wooster Award recipient!



With thanks to:

Ian Perry
Shin-ichi Ito
Jennifer Boldt
Dick & Ann Beamish
Alex Bychkov
Sanae Chiba
Devon Warawa
Naoki Tojo
Akihiko Yatsu
Anne Hollowed
Neil Hendrickson

PICES-2026 Wooster Award Winner

Dr. Jacquelynne (Jackie) King

Fisheries and Oceans Canada

Acceptance Remarks



PICES-2026 Awards

Zhu-Peterson Award



Zhu-Peterson Award Background

Established by PICES Governing Council in 2019 the Zhu-Peterson Early Career Scientist Award is named in honor of Professor Zhu and Dr. Peterson, two marine scientists who strongly encouraged early career scientists to become engaged in PICES. The Zhu-Peterson ECS Award may be given annually to an individual who has performed innovative research at the frontier of science relevant to the PICES mission as set out in the PICES Convention.



Professor Mingyuan Zhu of the First Institute of Oceanography, State Oceanic Administration, China, trained many graduate students and young scientists, who carry on his rich legacy of honest enthusiasm for cooperative approaches to marine science research.



Dr. William (Bill) Peterson of the Northwest Fisheries Science Center of NOAA, USA, was cherished by his students, technicians, and PICES early career scientists who regarded him as “a great teacher, and a fun, humble and inspiring mentor”.

The PICES-2026 Zhu-Peterson Award Winner is....



PICES-2026 Zhu-Peterson Award Winner

Dr. Hana Matsubara

Fisheries and Aquaculture Division (NFI), FAO



PICES-2026 Zhu-Peterson Award Winner

Dr. Hana Matsubara

Fisheries and Aquaculture Division (NFI), FAO

PICES Contributions

- AP-ECOP Co-Chair 2022-2025
- Best Oral Presentation Award PICES 2022 & 2024
- Panellist, Special Panel: PICES Science in the Next Decade, PICES-2024





PICES-2026 Zhu-Peterson Award Winner

Dr. Hana Matsubara

Fisheries and Aquaculture Division (NFI), FAO

"Her leadership has been instrumental in fostering a more inclusive and dynamic community of ECOPs, particularly enhancing participation from the western North Pacific."

- Steven Bograd

"She further strengthened the policy relevance of her work through an interdisciplinary approach, integrating perspectives from fisheries-related research, gender studies, and policy analysis, and combining a review of national and international fisheries policy documents with cross-case comparisons."

- Mitsutaku Makino



PICES-2026 Zhu-Peterson Award Winner

Dr. Hana Matsubara

Fisheries and Aquaculture Division (NFI), FAO

Acceptance Remarks



PICES-2026 Zhu-Peterson Award Winner

Dr. Hana Matsubara

Fisheries and Aquaculture Division (NFI), FAO

Acceptance Remarks



PICES-2026 Awards

POMA

PICES Ocean Monitoring Service Award



Oct 24-30, 2026 PICES-2026 Nanaimo, Canada

POMA Award Background

The PICES Ocean Monitoring Service Award (POMA) aims to recognize organizations, groups and outstanding individuals that have contributed significantly to the advancement of marine science in the North Pacific through long-term ocean monitoring, data management, and innovative advances in ocean monitoring.

The award also strives to enlighten the public on the importance of those activities as fundamental to marine science.

It draws attention to an important aspect of the PICES Convention that is not so much in the limelight: "to promote the collection and exchange of information and data related to marine scientific research in the area concerned."

The PICES-2026 POMA Winner is....



PICES-2026 POMA Award Winner

North Pacific Continuous Plankton Recorder (CPR) Survey Program

CPR SURVEY
Marine Biological Association



PICES-2025



PICES-2019



PICES-2026 POMA Award Winner

North Pacific Continuous Plankton Recorder (CPR) Survey Program

Contributions to PICES:

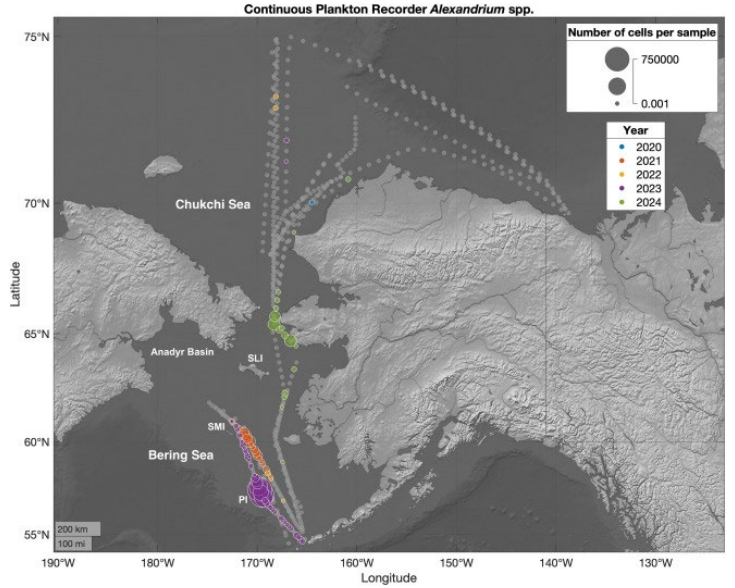
The North Pacific CPR survey was developed in response to PICES's interest in enhancing open-ocean monitoring of lower trophic level production.

Important data input on the open ocean regions of the PICES North Pacific Ecosystem Status Report, plus NOAA and DFO status reports.

CPR data in the North Pacific, Bering Sea and Aleutian Islands have contributed to more than 35 peer-reviewed publications.

Warming seas fuel spread of harmful algal mega-blooms in the Bering Sea

Figure 2 from Ostle *et al*. 2026.



Ostle, C., Lawlor, K. C., Batten, S. D., Brunetta, M., Cunliffe, M., Davies, C. H., ... & Stern-Kluckner, R. (2026). Mega-blooms of the harmful alga *Alexandrium catenella* in the Bering Sea recorded by the Continuous Plankton Recorder Survey. *Harmful Algae*, 103194.

PICES-2026 POMA Award Winner

North Pacific Continuous Plankton Recorder (CPR) Survey Program



The Continuous Plankton Recorder Surveys use commercial vessels to collect phytoplankton and zooplankton samples and related oceanographic information.

It is the longest running, most geographically extensive marine ecological survey in the world!

696	94	293747	7603465
Taxa Routinely Analysed	Years Towing	Total Samples Analysed	Total Nautical Miles Towed

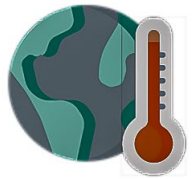


PICES-2026 POMA Award Winner

North Pacific Continuous Plankton Recorder (CPR) Survey Program

A globally recognised leader on the impacts of environmental change on the health of our oceans

Some key findings:



Climate Change

Data show northward movement of warm-water species.



Fisheries

Indicate health of fish stocks by recording fish larvae and their food (plankton).



Ocean Acidification

Monitoring >700 plankton species for over 90 years how different species respond.



Marine Litter

First scientific recording of marine litter in 1957, and continued recording since.



Invasive Species

Shown ballast water transport caused movement of some species.



Human Health

Bacteria and viruses, including those causing food poisoning, can be identified in samples.

PICES-2026 POMA Award Winner

North Pacific Continuous Plankton Recorder (CPR) Survey Program

A very PICES project

Over the years many people (too many to name!) have contributed to this project and have provided funding and in-kind support. The project would not be a success without the valuable contributions of the following organizations.

Thank you to:

Fisheries and Oceans Canada

Fisheries and Oceans Canada
Pêches et Océans Canada

North Pacific Research Board

Hokkaido University

Exxon Valdez Oil Spill Trustee Council



Farallon Institute

FRA

FRA

JAMSTEC

JAMSTEC

PICES-2026 POMA Award Winner

North Pacific Continuous Plankton Recorder (CPR) Survey Program

CPR SURVEY
Marine Biological Association

Acceptance Remarks



PICES-2025



PICES-2019

PICES-2026 Awards

PODA

PICES Open Data Excellence Award



Oct 24-30, 2026 PICES-2026 Nanaimo, Canada

PODA Award Background

In honor of Igor Shevchenko

PICES Open Data Excellence Award (PODA) is awarded to individuals, groups, or organizations who have demonstrated exceptional innovation in the field of open science, data sharing, and FAIR data principles (Findable, Accessible, Interoperable, Reusable; Wilkinson et al., 2016) in support of the PICES community.

The Open Data Excellence Award is bestowed in honour of the respected Dr. Igor Shevchenko, who for many years was deeply involved in national and international data sharing activities.



The PICES-2026 PODA Winner is....



PICES-2026 PODA Winner

National Marine Data and Information Service-China (NMDIS)

National Marine Data and Information Service (NMDIS)

Established in 1958; Affiliated to the Ministry of Natural Resources of China
Provide professional and scientific ocean data and information services
Promote the ocean-related digital transformation
Innovate new ideas and models for the connectivity, deep fusion and smart application of ocean information
Actively involve in international exchange and sharing of marine data and information



National Marine Information Communication Network



WMO-IOC Centre for Marine-Meteorological and Oceanographic Climate Data, Tianjin, China



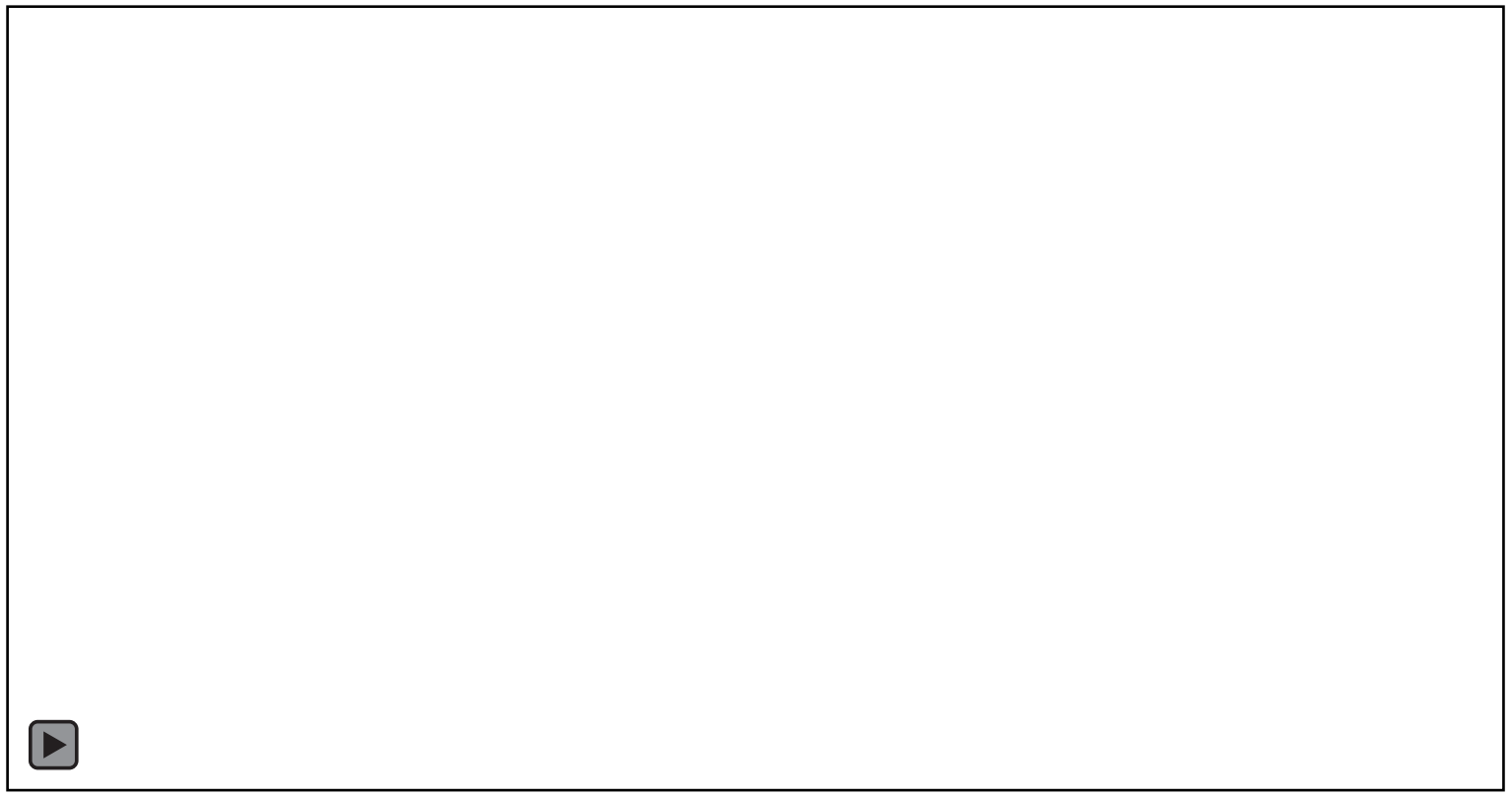
International exchange network

National Ocean Big Data Service Platform (iOcean)

7 disciplines of ocean science

- Marine Hydrology
- Marine Meteorology
- Marine Biology
- Marine Chemistry
- Marine Sediment
- Marine Geophysics
- Marine Optics

83 types of data elements



2.5 billion observations | 20 million km of survey lines | over 2 PB of data

Temporal range Domestic source data is from 1942 to the present, and international data is from 1662 to the present.

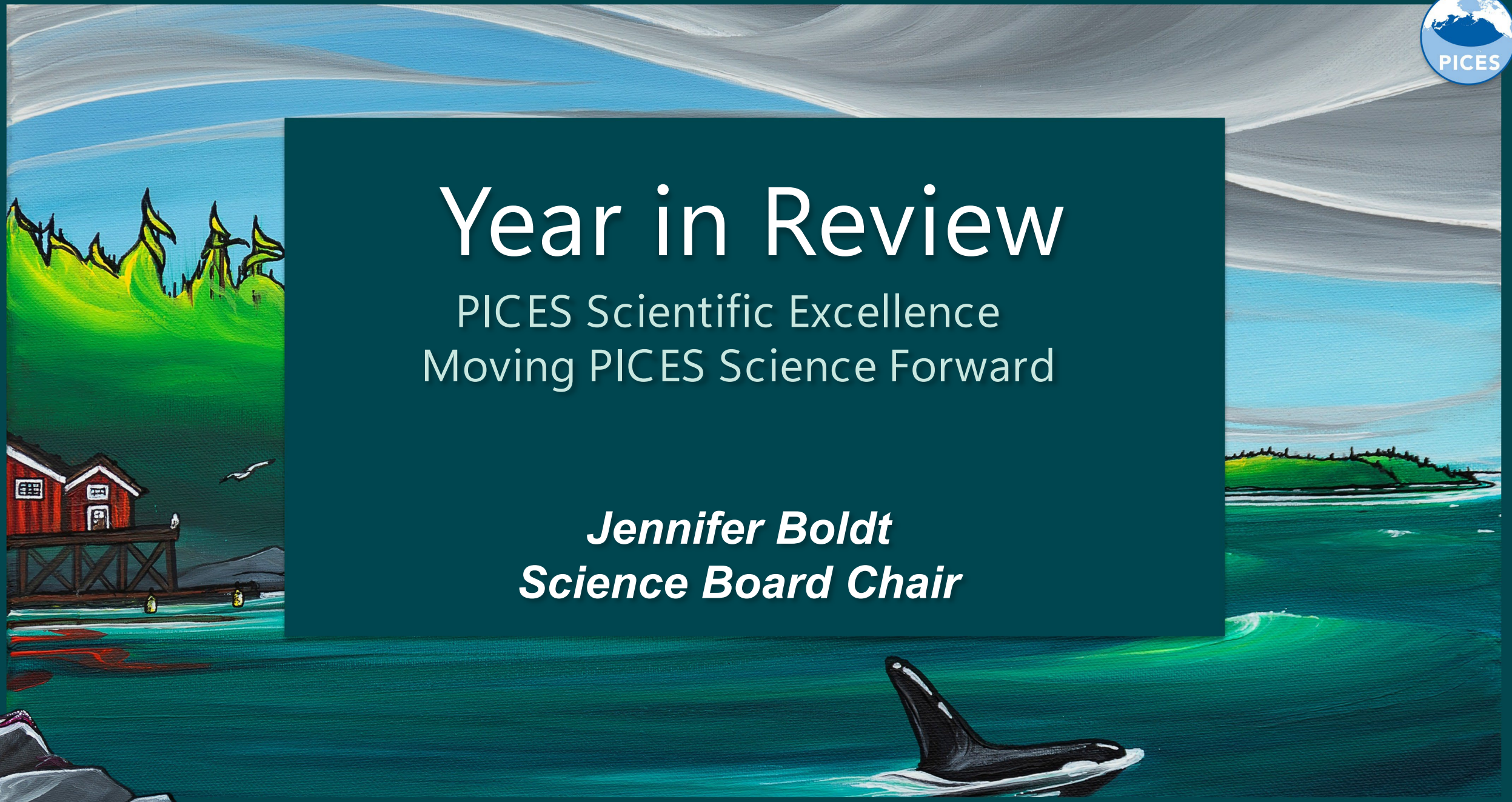
Spatial scope Sea areas such as China's nearshore and offshore waters, the Pacific Ocean, the Atlantic Ocean and the Indian Ocean

PICES-2026 PODA Winner

National Marine Data and Information Service-China (NMDIS)

Acceptance Remarks

Congratulations



Year in Review

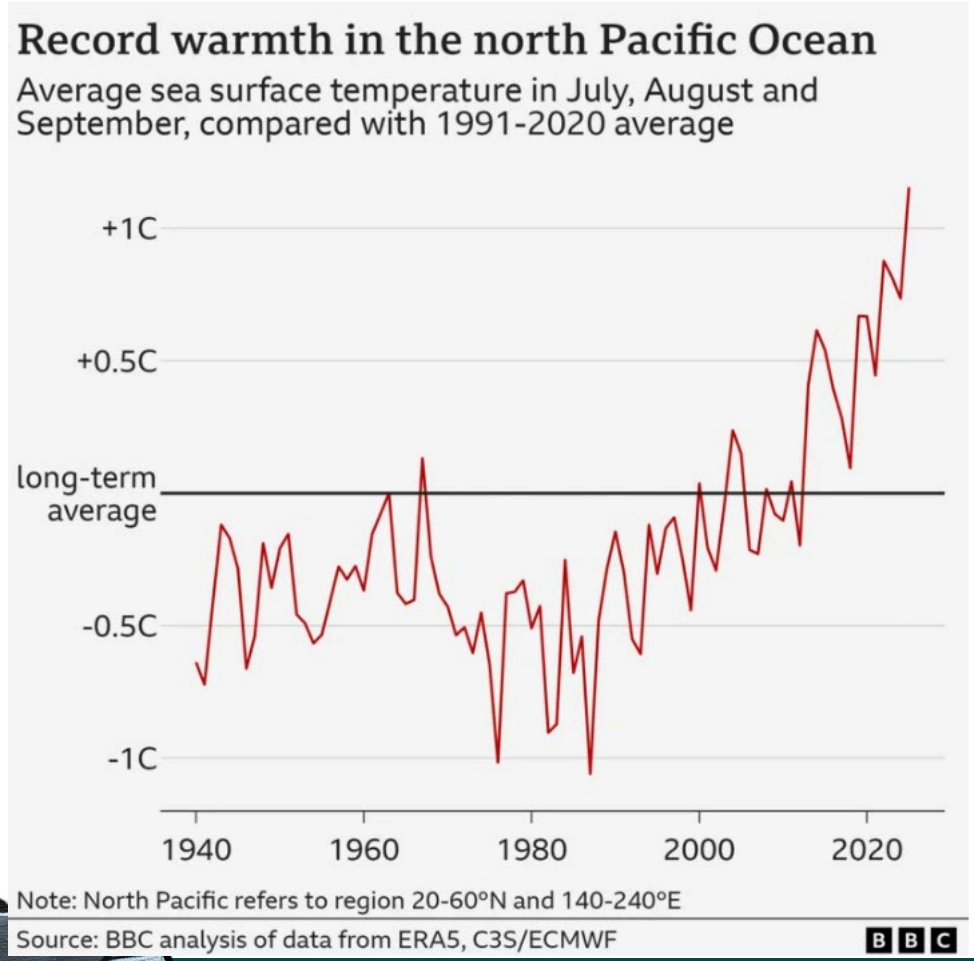
PICES Scientific Excellence
Moving PICES Science Forward

Jennifer Boldt
Science Board Chair

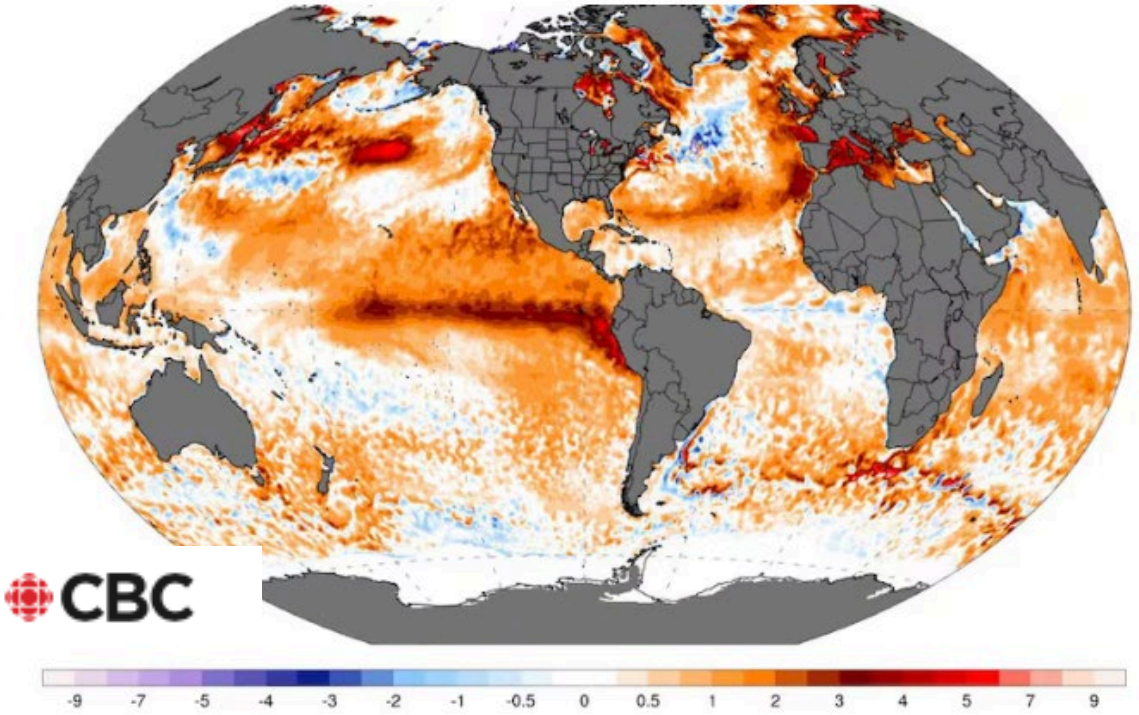
PICES 2026 Actionable Science for a Changing Ocean

Climate change and extreme events

2025: Warmest summer SST



2026: "Super El Nino" impacts on global ocean

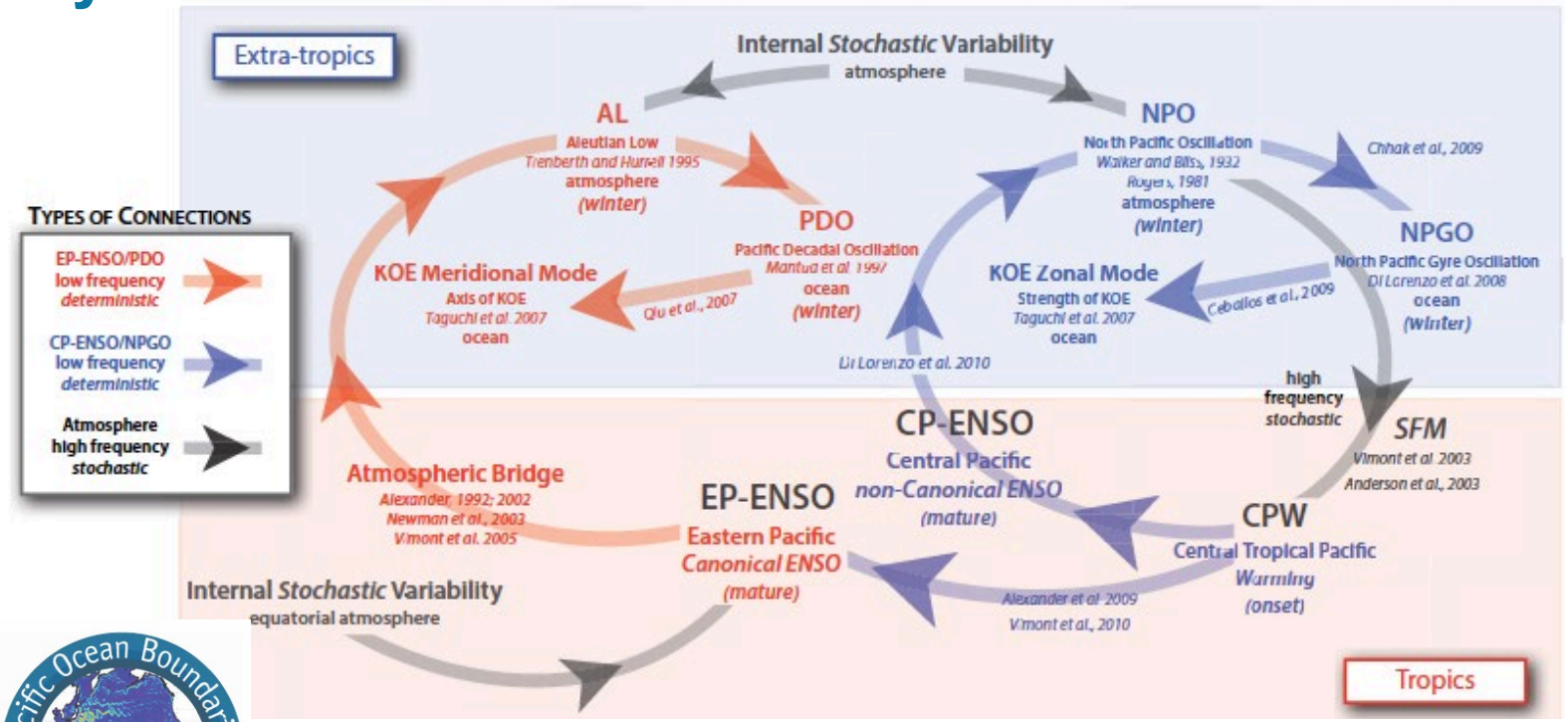


This map shows the warming across the Pacific Ocean as of July 15. A strong El Niño has already developed ahead of the expected peak in fall. (Climate Reanalyzer)

PICES 2026 Actionable Science for a Changing Ocean

Climate change and extreme events

PICES Legacy Synthesis of Pacific climate dynamics and teleconnections



PICES WG20, 27, 29 contributed to US-GLOBEC POBEX

(Di Lorenzo et al. 2013. doi.org/10.5670/oceanog.2013.76)

Understanding of processes, short and long-term impacts?

How to predict, plan, respond and mitigate?

PICES 2026 Actionable Science for a Changing Ocean

Sessions and Workshops

Monitoring and observations

S7 Advanced Observations
S10 Long-Term Observations
S13 Ocean Station Papa / Line P
W6 Plastic Indicators
W11 Shelf Marine Heatwaves

Climate Change & Ocean Extremes

S2 Climate Extremes
S6 Ocean acidification, alkalinity enhancement
W3 Marine Carbon Dioxide Removal
W7 Climate Extremes Census

Governance, Communities & Knowledge Systems

S4 Sustainable Urban Oceans
W8 Weaving Knowledge Systems

Prediction, AI & Digital Twins

S1 Digital Twins
S3 Ecosystem Predictions
S5 AI for Transboundary Species
W1 Fisheries & Ecosystem Modelling Network

Fisheries & Ecosystem Management

S8 Human-Wildlife Conflict
S9 Forage Communities
S11 Population Connectivity
W2 Open Ocean Forage Communities
W5 Communication strategies

Transboundary Systems

S12 Transboundary Science
W4 Arctic Gateways & Central Arctic Ocean

PICES 2026 Actionable Science for a Changing Ocean

Sessions and Workshops

- Monitoring and observations
- Prediction, AI & Digital Twins
- Climate Change & Ocean Extremes
- Fisheries & Ecosystem Management
- Governance, Communities & Knowledge Systems
- Transboundary Systems

Outputs

1. Advanced models & AI methods
   - Alternative scenarios
   - Advanced predictions
   - Ecosystem-scale information
   - Multi-model frameworks

2. Observations and data
   - Long-term observations
   - Advanced & emerging technologies
   - Methods, strategies, best practices
   - Coordinate/collaborate transboundary data
   - Develop indicators
   - Integration & co-production of different knowledge types

Increased understanding

Actionable Science

Support decision making, planning, and mitigation

Develop ecosystem approaches to management



Evolution of PICES



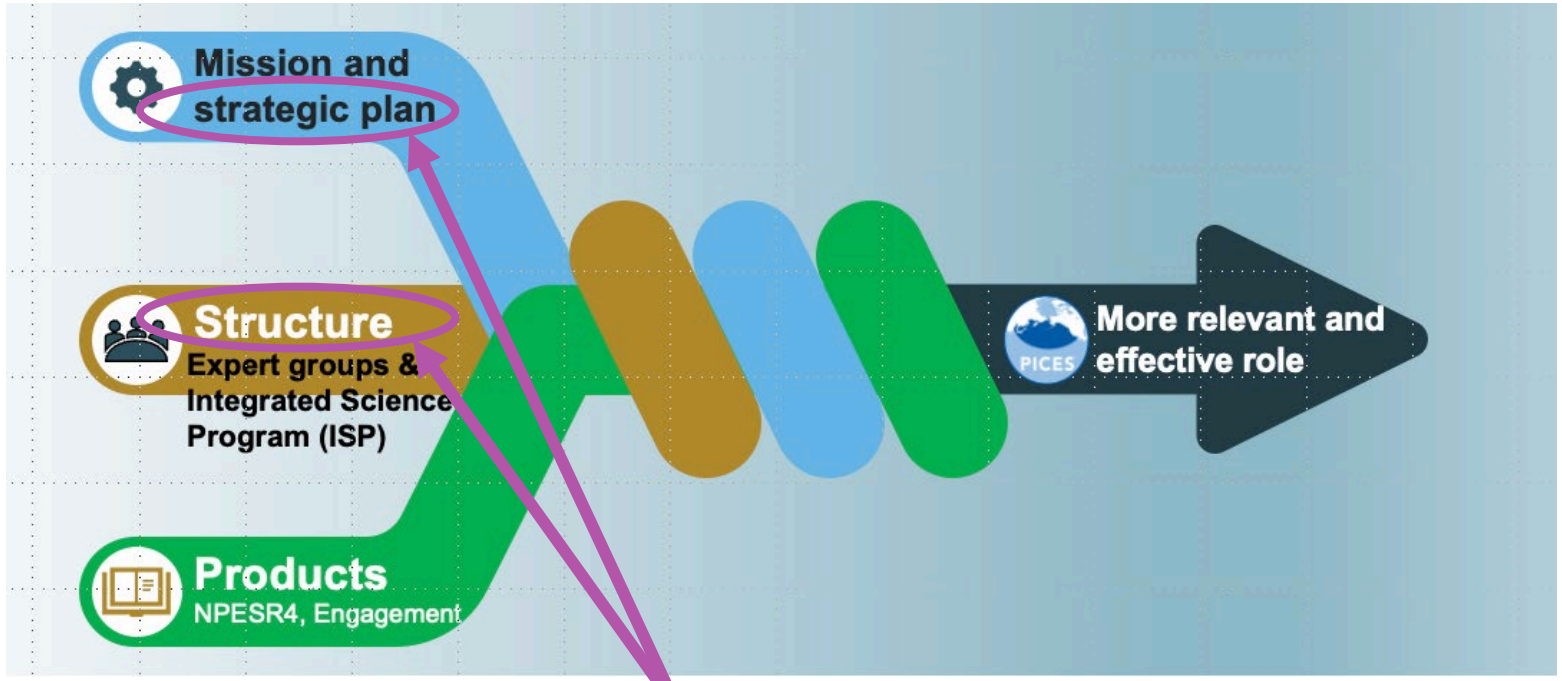
PICES conducts and coordinates marine research and the exchange of knowledge across the North Pacific Ocean to provide member states with actionable information on the current and future conditions of the ocean environment and its resources, including the interactions among the atmosphere, ocean, marine ecosystems and human dimensions. PICES brings together academic researchers, government scientists and managers, and organizations responsible for the protection and sustainability of the North Pacific Ocean to inform decisions and actions.

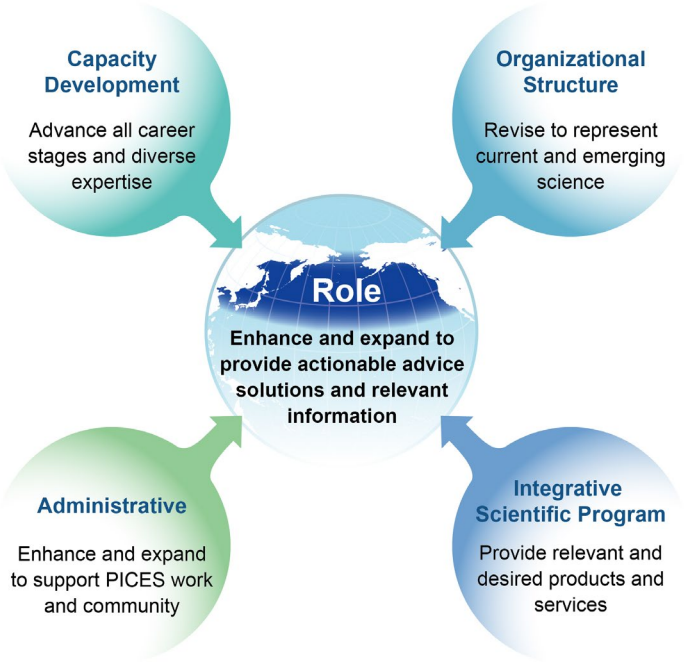
Evolution of PICES

Special Talk "Progress on the response to PICES external review" by PICES Governing Council



After coffee break

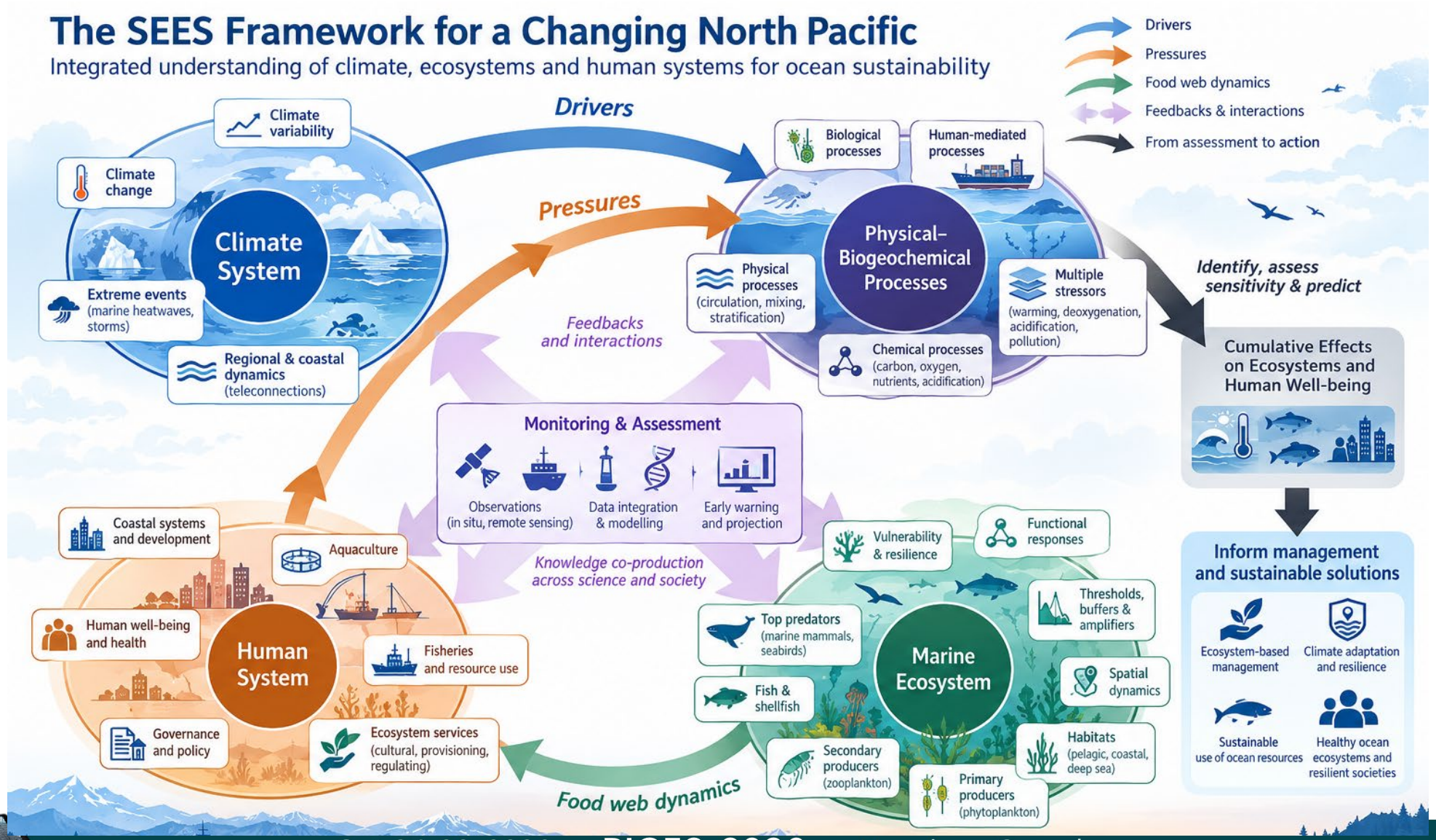




NEW WG 58: Strategic Plan Update and Implementation

FUTURE Science Program (2010-2026)

FUTURE (Forecasting and Understanding Trends, Uncertainty and Responses of the North Pacific Ecosystem)



2026 FUTURE ECOP SEES Award Winner

Award Objective: Encourage the recognition and application of the Social-Ecological-Environmental-System (SEES) framework and engage early career scientists in PICES.

- *Archaeologist and historical ecologist whose research advances scientific understanding of people–place relationships across centennial and millennial timescales.*
- *Contributed to a coastal archaeology and historical ecology project with Huu-ay-aht Nation and Tseshaht Nation, and supported Tsleil-Waututh Nation's Cumulative Effects Monitoring Initiative.*
- *Leader of EcoPast program, helping shift ecosystem modelling toward incorporating diverse knowledge systems and data on past ecosystem states.*

Award Presentation

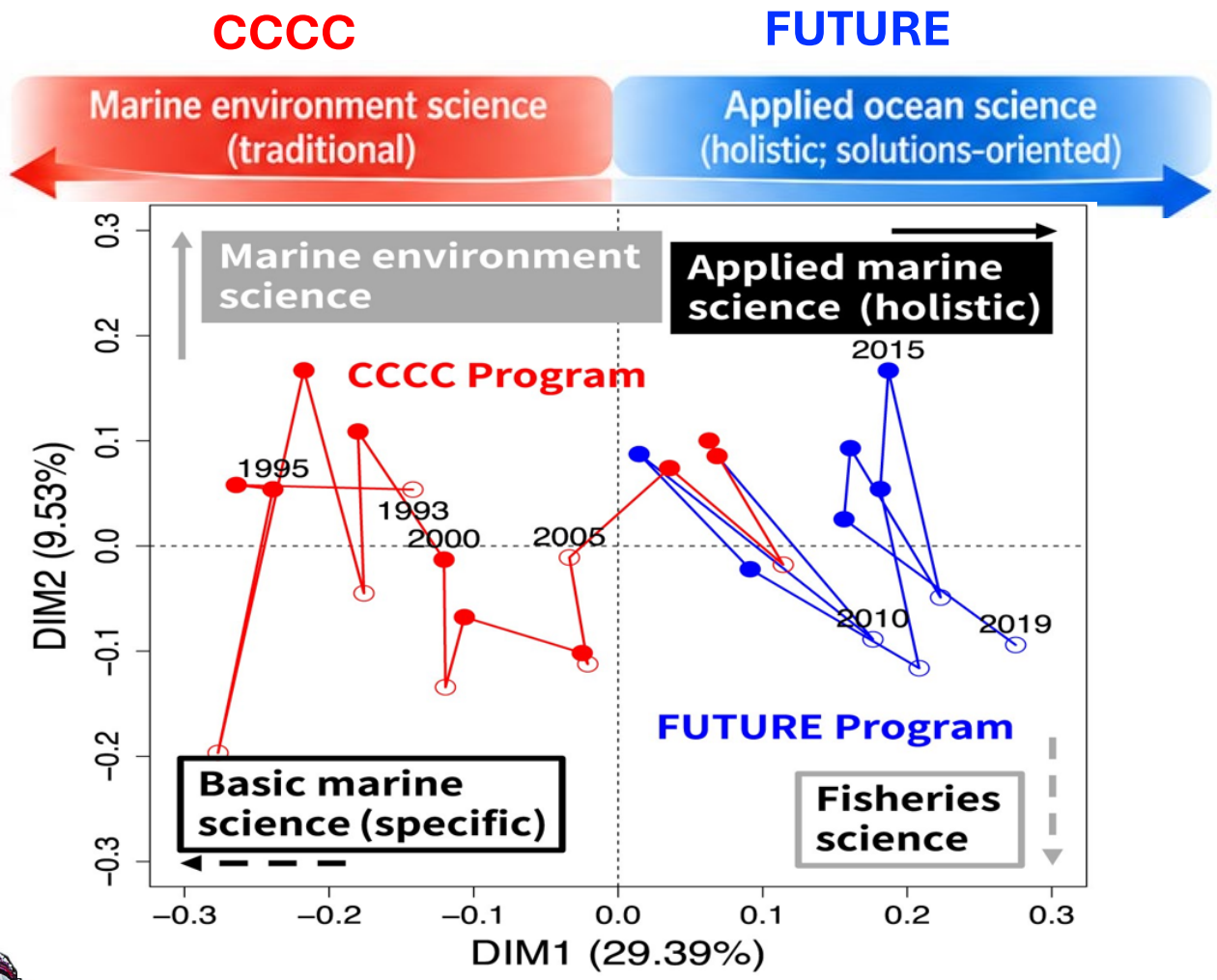
After coffee break

"Integrating Indigenous Knowledge, archaeological data, and historical records into ecosystem models of marine and coastal change"



Dr. Meaghan Efford
University of British Columbia (Canada)

FUTURE Science Program



Takemura et al., 2025

Next science program

FUTURE is ending at PICES-2026

FUTURE final report intends to provide recommendations for the next science program based on lessons learned, including:

- Specific and actionable science plan (neither too ambitious nor vague)
- Improved communication of activities both within and beyond the PICES community

FUTURE SSC invites PICES members to share their ideas!

PICES - New Working Groups

WG 55 on Comprehensive understanding of ocean acidification in the North Pacific - to strengthen the functions of the OA observation and data sharing network in the North Pacific.



WG 57 on ocean finescale processes: impacts and parameterizations – to advance science on dynamical ocean finescale (horizontal scale: 0.1–100 km) processes, by integrating high-resolution observations and simulations.



WG 56 on deep-sea connectivity with focus on seamount ecosystems - to compile information on seamount taxa and develop biophysical connectivity models to identify key source areas and inform global management



WG 59 on physical and biogeochemical connectivity in the North Pacific – to emphasise linkages among physical and biogeochemical processes across the North Pacific.



SUSTAINABILITY OF MARINE ECOSYSTEMS THROUGH GLOBAL KNOWLEDGE NETWORKS (SMARTNET)

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

ICES CIEM PICES



ICES/PICES Joint UNDOS Programme, SmartNet

PICES

ICES Co-Chair
Dave Reid

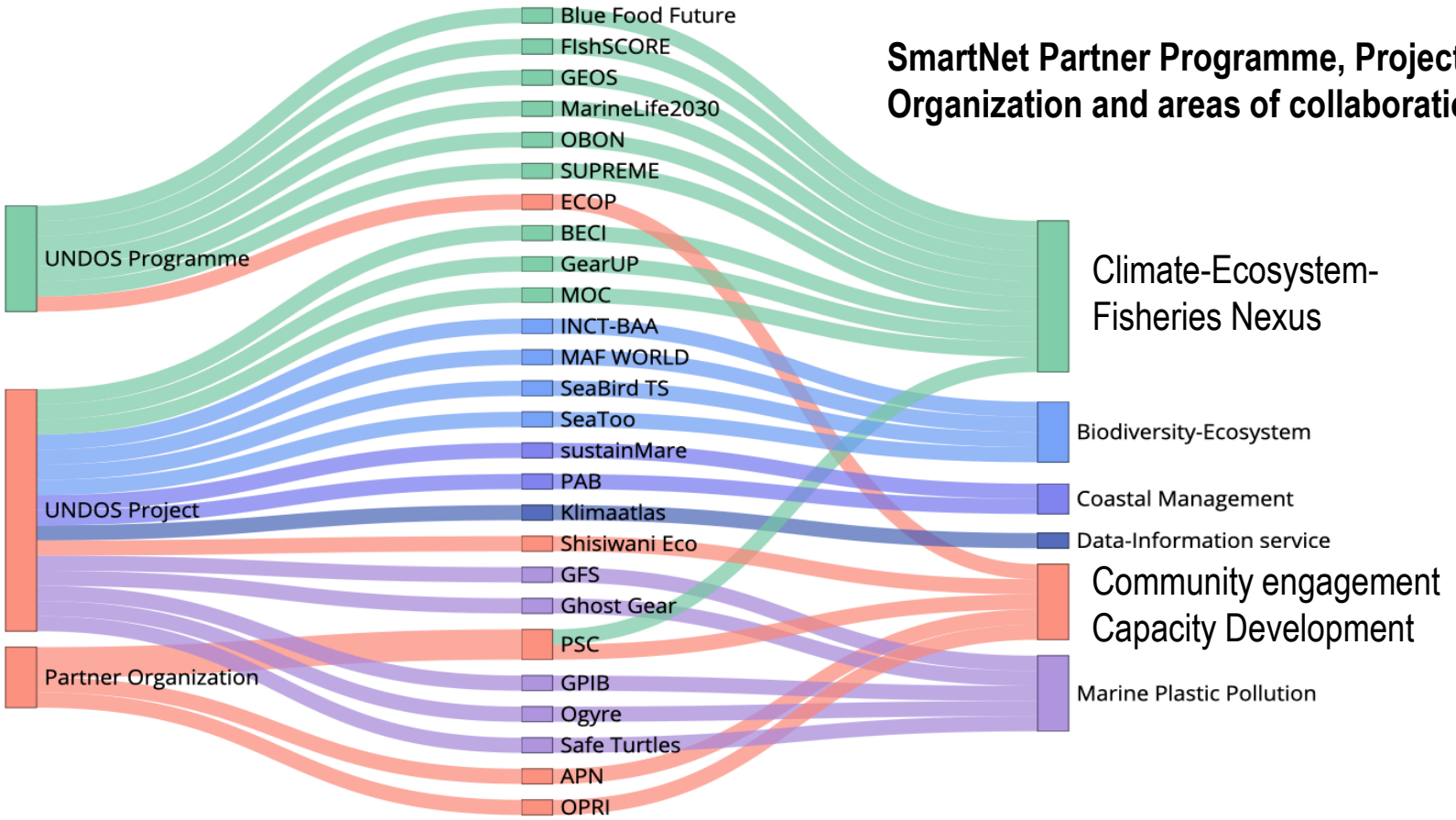


PICES Co-Chairs
Steven Bograd, Sanae Chiba





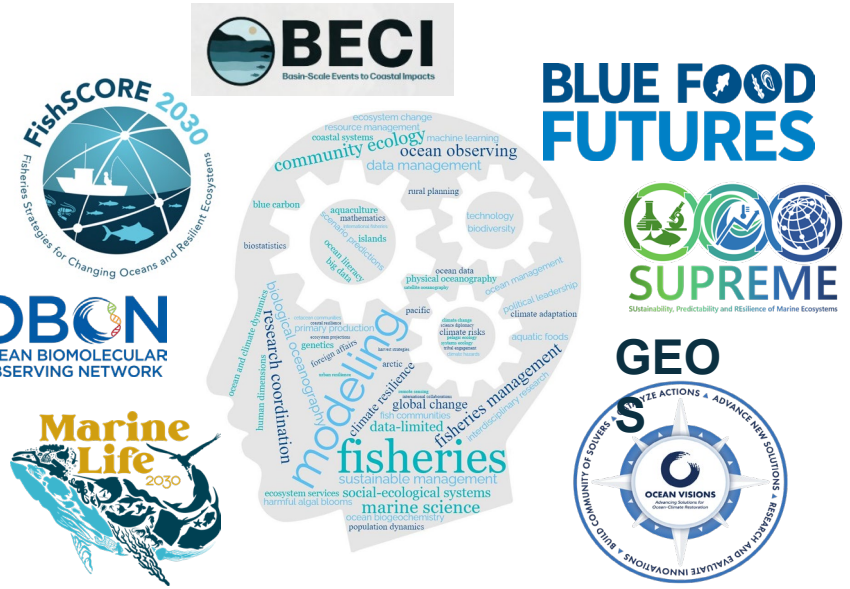
SmartNet Partner Programme, Projects, Organization and areas of collaboration



ICES/PICES Joint UNDOS Programme, SmartNet

Priority Topic 1: Climate-Ecosystem-Fisheries Nexus: for climate-ready fisheries-ecosystem management

Build global networks to transform our capacity to understand, forecast, manage, and adapt to climate-driven changes in our ocean ecosystems.



Established the Community of Practice with other UNDOS-endorsed programmes in 2023

(**ICES ASC 2025**) SmartNet-FishSCORE Joint Session *"Climate-Ready Fisheries Management in the UN Decade of Ocean Science for Sustainable Development"*



(**PICES-2025**) Workshop: *"Climate-Ready Fisheries Management: Reviewing Effective Strategies for Developing Decision Support Tools*

Showcased success stories of advancing 'climate-ready' fisheries management across diverse eco-regions and governance structures.

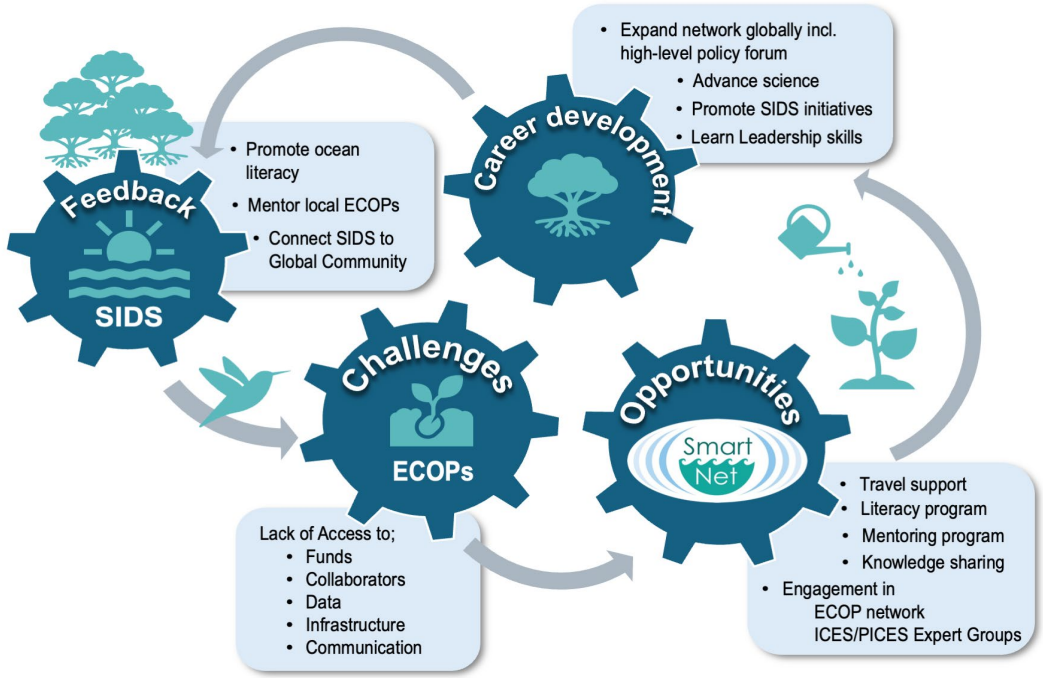
(**PICES-2026**) Workshop: *"Breaking Barriers, Building Bridges: Communication Strategies to Advance Climate-Informed Fisheries Management"*

To improve communication strategies to enhance stakeholder engagement.

ICES/PICES Joint UNDOS Programme, SmartNet

Priority Topic 2: Community Engagement & Capacity Development

Expand capacity sharing opportunities beyond the ICES and PICES Convention Areas, with a particular focus on the Global South, Small Island Developing States (SIDS) and other underrepresented communities.



SmartNet has been promoting career development of SIDS ECOPs by leveraging existing PICES frameworks and infrastructures.

(**PICES-2025**) Workshop: "Engaging with Local & Traditional Knowledge Holders to Co-Design Ocean Science in Pacific Small Island Developing States". ECOPs from Pacific SIDS are invited to join the discussion.



(**PICES-2026**) Workshop: "Weaving knowledge systems to co-design transdisciplinary and actionable solutions" with an emphasis on Traditional and Indigenous Knowledge in the communities of the Canadian west coast.

PICES Co-organized International Symposia (completed)



Navigating Changes in Small Pelagic Fish and Forage Communities: Climate, Ecosystems, and Sustainable Fisheries

May 4 – 8, 2026 | La Paz, Mexico

PICES · ICES CIEM · Food and Agriculture Organization of the United Nations

Endorsed by 2021 2030 United Nations Decade of Ocean Science for Sustainable Development

WG53: Joint ICES/PICES Working Group on Sustainable Pelagic Forage Communities served as Scientific Steering Committee and conveners

- **advances in tools provide pathways for linking ecological knowledge to decision-making**
  e.g., Management Strategy Evaluation, multi-model ensembles, best practices and roadmaps to EAFM, leveraging environmental information, and transboundary data integration

- **improving the science–policy interface** requires better alignment across stakeholders, clearer communication of uncertainty, and a balance between model complexity, usability, and sustained interdisciplinary collaboration

PICES Co-organized International Symposia (completed)



Navigating Changes in Small Pelagic Fish and Forage Communities: Climate, Ecosystems, and Sustainable Fisheries

Special publications

MEPS (~14 articles)

Small pelagic fish: climate, ecosystems and sustainable fisheries

Organizer: Myron Peck

CJFAS (~18 articles)

Navigating changes in small pelagic fish and forage communities **Volume 83**

Organizer: Chris Rooper

Analytical framework for evaluating physical, biological, and fishery-related drivers of population dynamics: an application to Pacific herring

Caihong Fu[1], Jennifer L. Boldt[1,✉], Christopher N. Rooper[1], Jaclyn S. Cleary[1], Thomas Doniol-Valcroze[1], Roy A. S. Hourston[2], Christie J. McMillan[1], Akash R. Sastri[2], Strahan Tucker[1]

One snack before the road: egg cannibalism in post-spawning Downs herring

Pierre Cresson, Lea Desomberg, Clémence Couvreur, Rémy Cordier, Solène Telliez, Lola Toomey, and Carolina Giraldo

Acoustic telemetry reveals endothermic predation and post-spawning movements of Atlantic Mackerel (*Scomber scombrus*) in the Bay of Fundy

Morgan L. Piczak, Ava. J. A. Sergio, Oscar Notman-Grobler, Romaric Jac, Matt Black, Brent M. Wilson, Elisabeth Van Beveren, Chris W. McKindsey, Robert J. Lennox, and Marc Trudel SHOW FEWER

The devil's in the details when using correlative and mechanistic species distribution models to inform multispecies and ecosystem models

Authors: Isaac C. Kaplan, Elliott L. Hazen, Stefan Koenigstein, Nerea Lezama-Ochoa, Mariana Hill, Pierre-Yves Hernvann, Owen R Liu, Dylan G.E. Gomes, Sebastian I. Vásquez, Criscely Luján, Stephanie Green, Matthew R. Baker, Ricardo Oliveros-Ramos, Alberto Rovellini, Rebecca G. Asch, and Barbara Muhling SHOW FEWER | AUTHORS INFO & AFFILIATIONS

Genomic evidence for revising management units of European Anchovy: implications of evolutionary lineages for fisheries assessment

Ane del Rio-Lavín, Natalia Díaz-Arce, Leire Ibaibarriaga, María Santos-Mocoroa, Susana Garrido, and Naiara Rodríguez-Ezpeleta SHOW FEWER

Canadian Journal of Fisheries and Aquatic Sciences · Vol. 83 · pp. 1 - 10

PICES Co-organized International Symposia (upcoming)

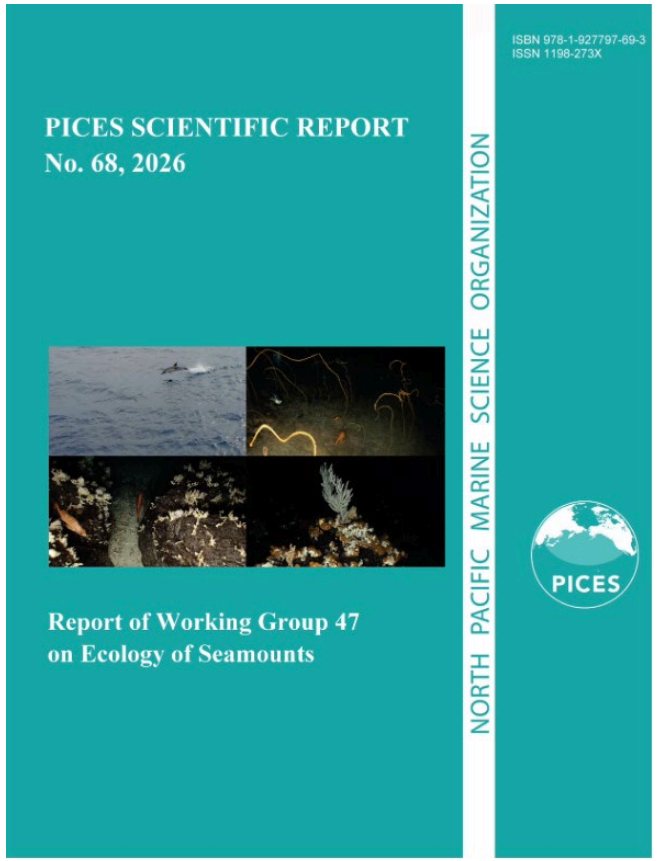


PICES ICES CIEM FAO Food and Agriculture Organization of the United Nations WorldFish NOAA FISHERIES

Abstract submission deadline: October 30 (extended)!

PICES Scientific Publications

PICES Scientific Reports



Final Report of WG47

WG on Ecology of Seamounts

https://doi.org/10.60786/W639-6A02

PICES Co-organized Symposia Journal Special Issues



Matsubara et al, (2025), Illustration by Mary Tomita

Marine Socio-Ecological Systems Symposium (MSEAS 2024): Navigating Global Change in the Marine Environment June 3-7. 2024, Yokohama, Japan

ICES Journal of Marine Science SPECIAL COLLECTION

ICES J. Mar. Sci., 2025, Vol. 82, Issue 5

Outreach and Engagement – Science Communication

Online Training Session (2025)

Organized by AP-SciCom

Presentation Skills for Ocean Scientists

September 25
@ 5-6:30 pm (PDT)
Pacific Daylight Time (PDT)

September 26
@ 9-10:30 am (JST)
Japan Standard Time (JST)

There is one training session that takes place in your corresponding time zone



Join us for an interactive online training session

Hear from PICES Early Career Professional Presentation Award Winners on developing and delivering their presentations.

Discuss how to improve clarity and understanding when English is not your first language, your audience's first language, or both!

Reinforce the skills learned by being in the judges seat in an interactive activity.

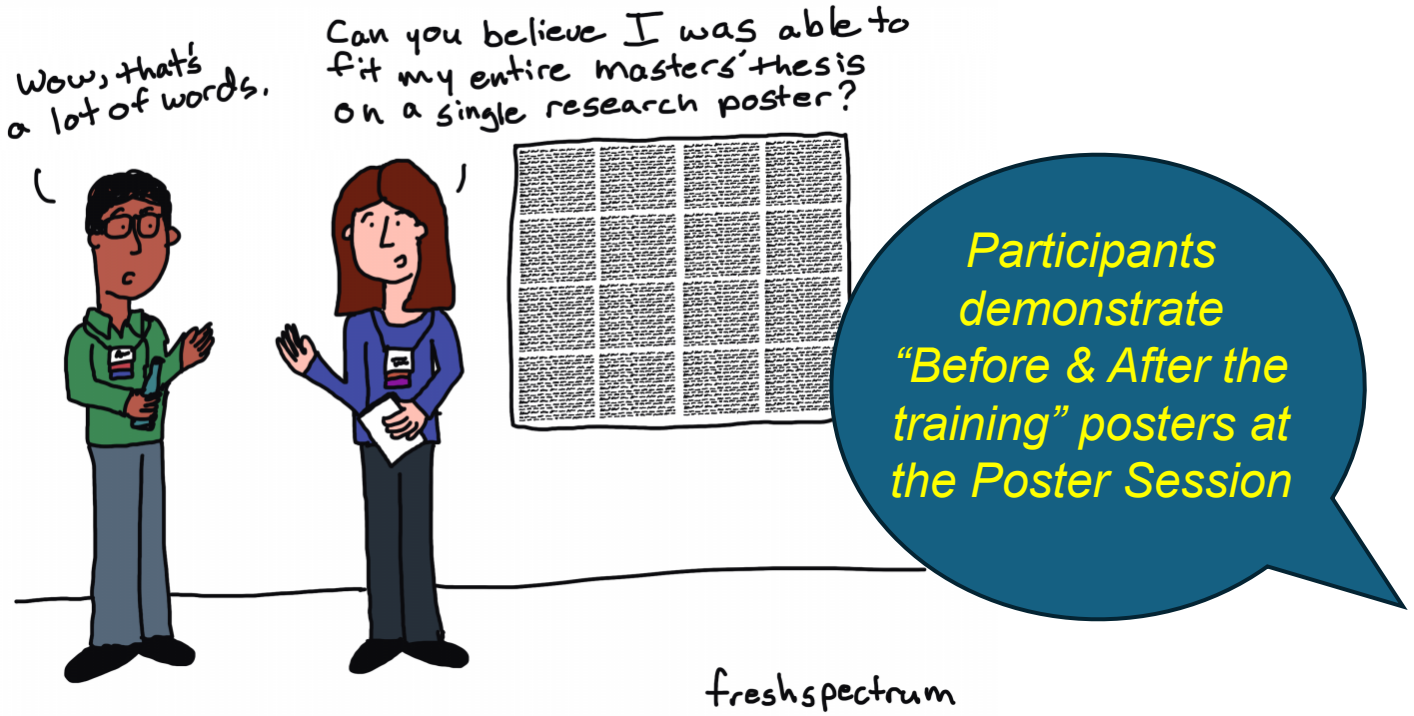
Register here:

Follow the link: https://us02web.zoom.us/meeting/register/0P5OH_HGQbS0zsvvr4mZXQ#/registration **OR** **Scan the QR code:**

Hands-on Training at PICES-2026

Organized by S-MBM & AP-SciCom

Workshop 9: Stop Making Posters Nobody Reads: How to Make Your Science Stand Out



Outreach and Engagement – Science Communication

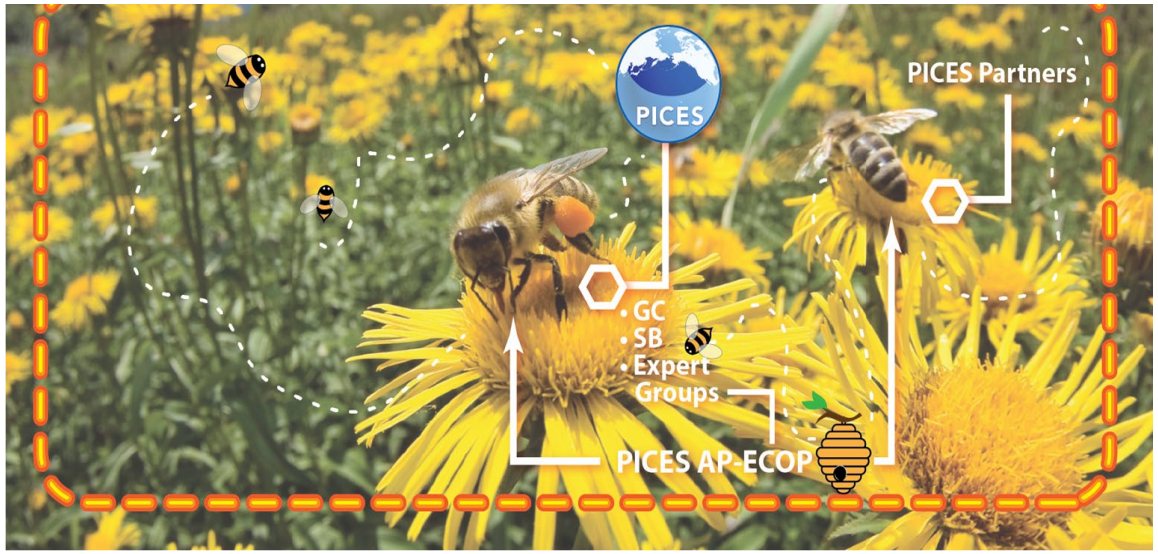


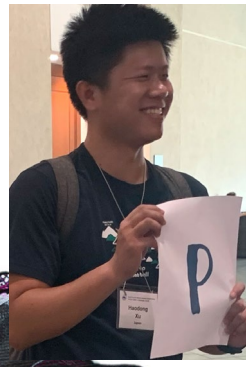
All EGs are encouraged to develop their Factsheets. AP-SciCom will help!

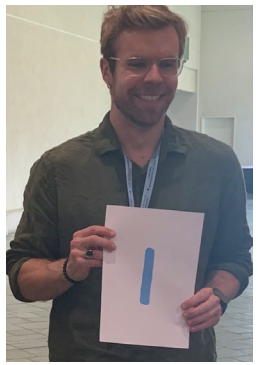
Template available on PICES Website

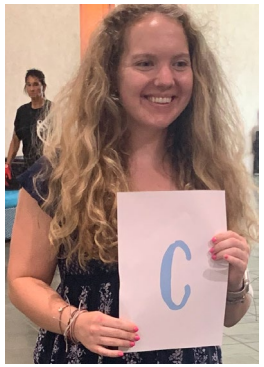
PICES Capacity Development Framework – AP-ECOP

The "Cross-Pollinators"









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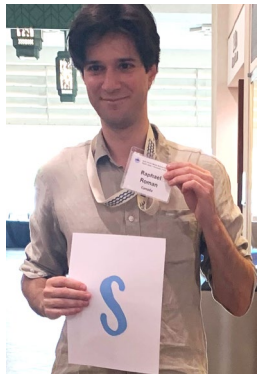


ECOP organized regular events (on-site) at PICE-2026

Welcome to PICES

9:00-10:00-, Oct 27 (Room: Duke Point)

New to PICES and want to learn more about how the organization works and how YOU can get involved? Join us for a short session where you will hear a brief overview of PICES and its committees, expert groups, and beyond!

Mentor-Mentee Program

(time and location are selected by mentor-mentee pairs)

**Mentors & Mentees were pre-registered for the event and have been ready for communication before PICES-2026.*



PICES Capacity Development Framework – AP-ECOP

PICES 2026: ECOP-organized (off site) Side Events

Oct 24

(event completed)

PICES

BEACH CLEANUP

HOSTED BY AP-ECOP & S-MPP

Saturday, October 24 | 9am - 12pm

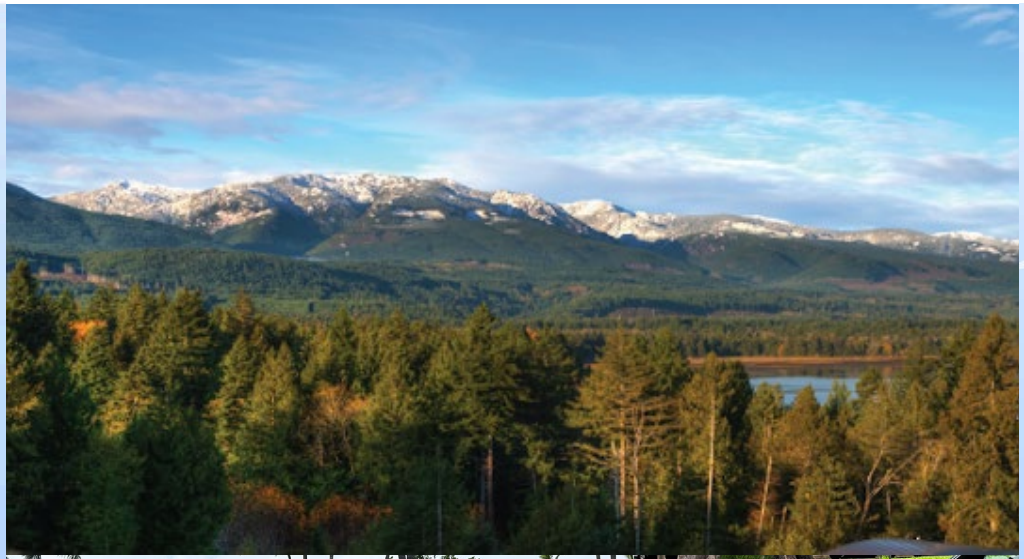
Meet at: Vancouver Island Conference Centre (VICC)

Jointly organised by the Marine Plastic Pollution research group!!

OCEAN WISE

International COASTAL Cleanup

PICES







Oct 30

*** Note updated start time**

PICES

Visit to the

DEEP BAY MARINE FIELD STATION

Hosted by AP-ECOP

Friday, October 30 | *8:45am - 1:15pm

Meet at: Vancouver Island Conference Centre (VICC)

Click here to Register

Only 40 spots available!

VANCOUVER ISLAND UNIVERSITY

* Note new start time (originally was 8am)

PICES

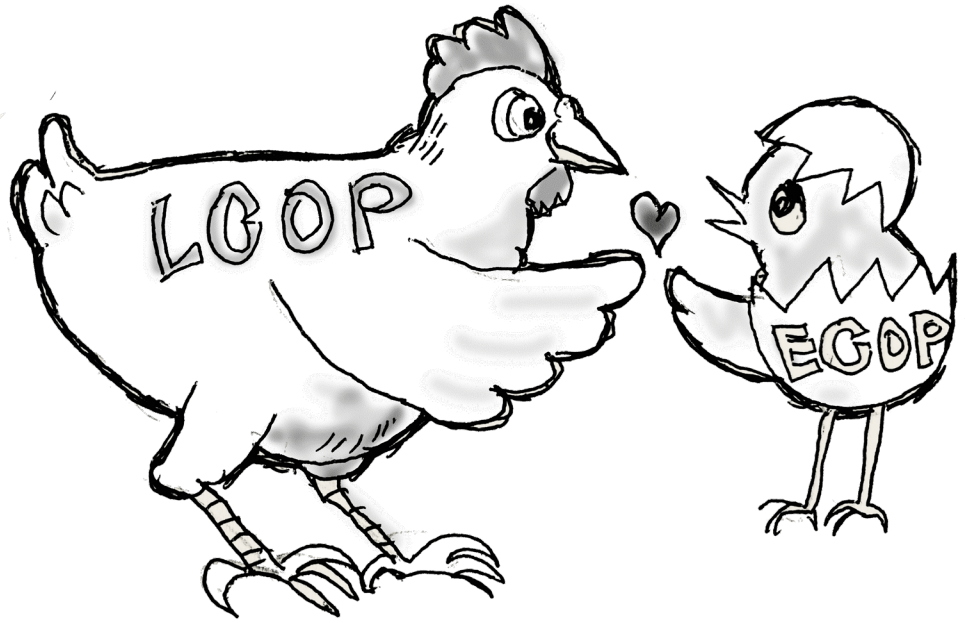
PICES Capacity Development Framework – AP-ECOP

Recruitment of new ECOP

Because ECOPs are joining, growing up and one day graduating to be the PICES leaders...

Who are ECOPs?

"An **ECOP** is someone who self-identifies as an early career professional in the beginning of their career, with ten years or less of professional experience." (GC2022/S/11)

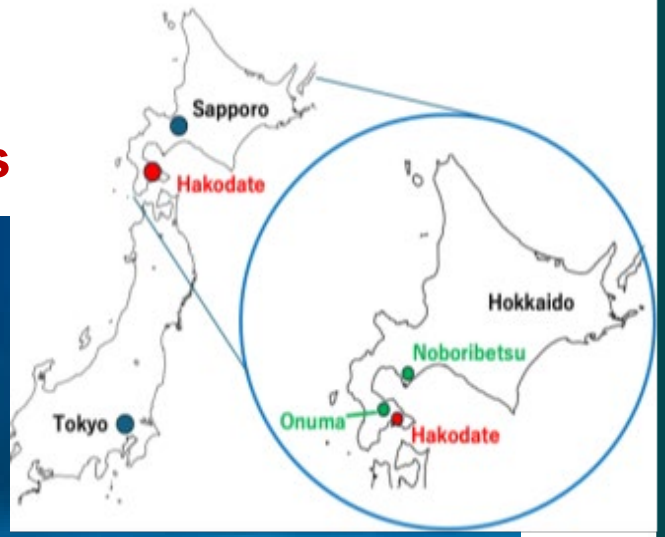


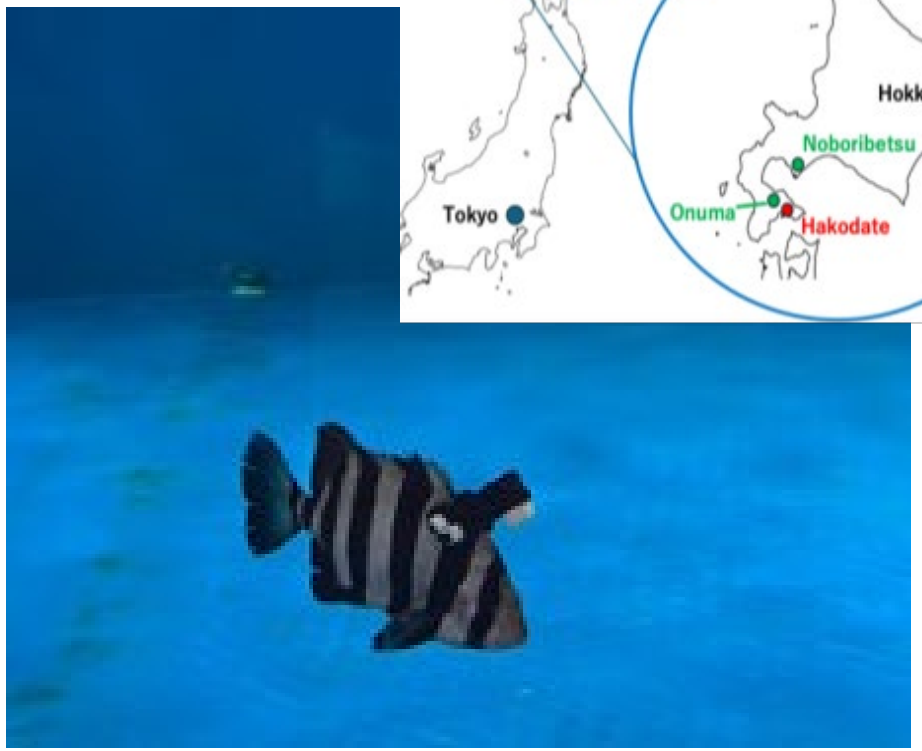
Every PICEAN is continuously encouraged to invite students and young ocean professionals to the PICES Meetings and to recruit them to AP-ECOPs, any Expert Groups and Standing Committees.

PICES Capacity Development Framework – Summer School

PICES Summer School 2026 on Ocean Biologging
- *Coastal Monitoring of Marine Life and Environment* -
(Sept 14-18, 2026, Hakodate, Japan. **15 participants from 6 countries**







Organizers/Sponsors: Hokkaido University, Japan Fisheries Research and Education Agency, Nagasaki University, MEXT Japan, **PICES AP-NPCOOS** (Advisory Panel: North Pacific Coastal Ocean Observing

PICES Capacity Development Framework

PICES Trust Fund supports travel for ECOPs of member countries



PICES supported travel for 24 ECOPs to attend PICES-2026 (more are supported by member countries)

	Partner organisations' events
June 2026	SOLAS Summer School, Tamandaré, Brazil.
May 2026	NPAFC Workshop: Interactions between Salmon, Ecosystems, and Climate: from Mechanisms to Predictive Models, Vancouver, Canada
Feb 2026	CLce2Clouds-BEPSII-CATCH sea-ice SCHOOL, Hokkaido, Japan



CLce2Clouds-BEPSII-CATCH sea-ice SCHOOL activities

PICES Capacity Development Framework – Intern Program

21 interns have assisted/ been trained
at the PICES Secretariat since 2000

2000~



Sept 2025~ Dec 2026
Yoho Saito (the first intern from Japan)

PICES Collaborations & Partnerships

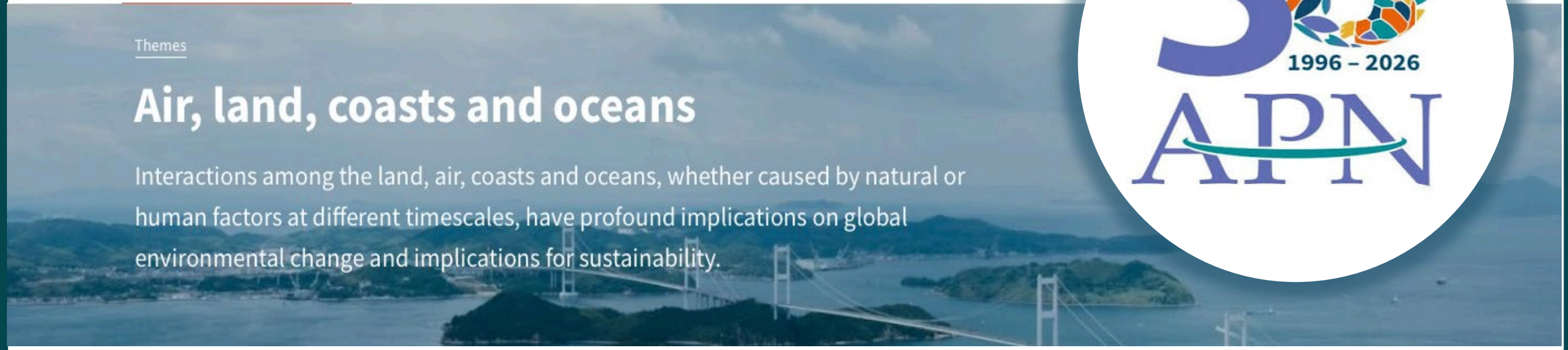
International/regional organization partners and collaborators

Many observer participants from partners organizations and 9 partners co-sponsor Sessions/Workshops.



Congratulations on APN's 30th Anniversary

Asia Pacific Networks for Global Change Research -APN- co-convened and sponsored the workshops on knowledge co-production with the Pacific Small Island Development States at **PICES-2025**, and Traditional and Indigenous communities of the Canadian west coast at **PICES-2026** (Workshop 8)



Asia Pacific Networks for Global Change Research is a PICES strategic partner since 2023. Capacity development of ECOPs and underrepresented communities is one of the common priority collaboration topics with PICES.

In Memoriam

“Max” FJR Taylor

1939 - 2026

- Professor at the University of British Columbia
- Co-Chair of PICES WG on the Ecology of Harmful Algal Blooms in the North Pacific (WG15, 1999-2003)
- Member of the PICES Section on Harmful Algal Blooms



Max was an internationally recognized researcher of Harmful Algal Blooms (HAB), their diversity, life history and evolution, and helped shape the development of international HAB research. He was a passionate educator who nurtured younger scientists worldwide in HAB science.

Thank you to everyone who made PICES-2026 happen!

Volunteers

Katherine Bannar-Martin
Julia Bradshaw
Brianna Cairns
Charmaine Carr-Harris
Michelle Charbonneau
Chelsea Cooke
Maria Cornthwaite
Paul Covert
Hilari Dennis-Bohm
Kelsey Dougan
Lana Fitzpatrick
Linnea Flostrand
Kelsey Flynn
Robyn Forrest
Lu Guan
Dana Haggarty
Schon Hardy
Sarah Hawkshaw
Jessica Hawryshyn
Carrie Holt
Jennifer Jung
Sile Kafrissen
Michelle Kartz
Tor Kitching
Edith Kraus
Kyle Krumsick
Nicole LaForge
Sean MacConnachie
Ann Mariscak
Yvonne Muirhead-Vert
Jocelyn Nelson
Chrys Neville
Ashley Nielsen
Miriam O
Sebastian Pardo
Colin Peters
Sarah Power
Shelby Reesor
Steven Schut
Cathy Skelcher
Amy Tabata
Travis Tai
Kimberley Taylor

PBS Tour

Cherisse Du Preez
Amy Elvidge
Geoff Lowe
Clara MacKenzie
Audrey Ty

Thank you to everyone who made PICES-2026 happen!

Local Organizing Committee

Karen Hunter
Jackie King
Sean MacConnachie
Mackenzie Mazur
Yvonne Muirhead-Vert
Martin Nantel
Tammy Norgard
Miriam O
Colin Peters
Shelby Reesor
Chris Rooper
Tetjana Ross
Thomas Therriault

Visas

Beatrix Abdul Azeez
Carol Aldy
Marie-Elaine Boivin

PICES Secretariat Staff

Sonia Batten
Sanae Chiba
Julia Yazvenko
Saeseul Kim
Devon Warawa
Susan Hannah
Bonny Teichrieb
Alexander Bychkov
Robin Brown (Emeritus)
Yoho Saito




Welcome to
PICES-2026!
Opening Session
Coffee Break
10:20 – 10:50