



North Pacific Marine Science Organization

International collaboration for improved ocean health.



Activity Update (October 2024-October 2025)

At 2025 SCOR Annual Meeting, October 29-31

PICES is an intergovernmental science organization, to promote and coordinate marine scientific research in the North Pacific Ocean and its adjacent seas to advance scientific knowledge of the area.

Canada



China



Japan



Korea



Russia



U.S.A



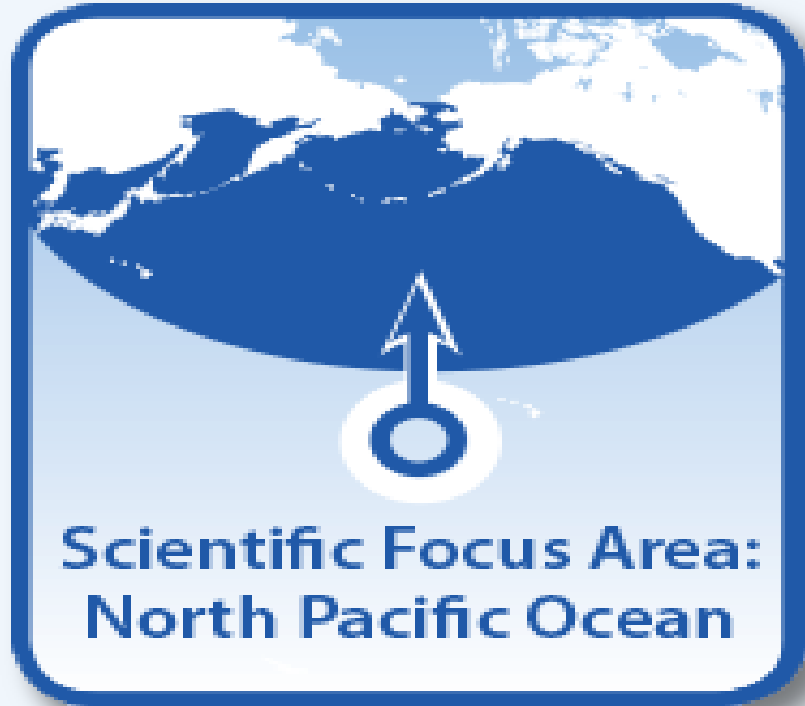
Sanae Chiba, PICES Deputy Executive Secretary
SCOR Capacity Development Committee member, 2021~



What We Are

North Pacific Ocean

North Pacific focus, but includes the Arctic and Hawaii



Partnerships

Partnerships with many organizations to achieve its goals

Intergovernmental Organizations and RFMOs | National Marine Science Sgencies | Academic Organizations and Foundations | International Programs



Intergovernmental
Oceanographic
Commission



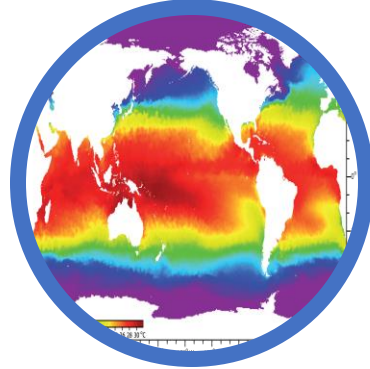


High Priority Areas



Capacity Development

Promotion of ECOPs through supporting AP-ECOP activities.



Climate Change Effects and Solutions

2010s- : Climate extremes and their socio-ecological impact, mitigation & adaptation.



Ecosystem - Assessment

Monitoring and Integrated Ecosystem Assessment in the NP and Arctic Ocean



Human Dimensions

Focused expert groups in each organization (HD Committee in PICES. Co-organizing MSEAS

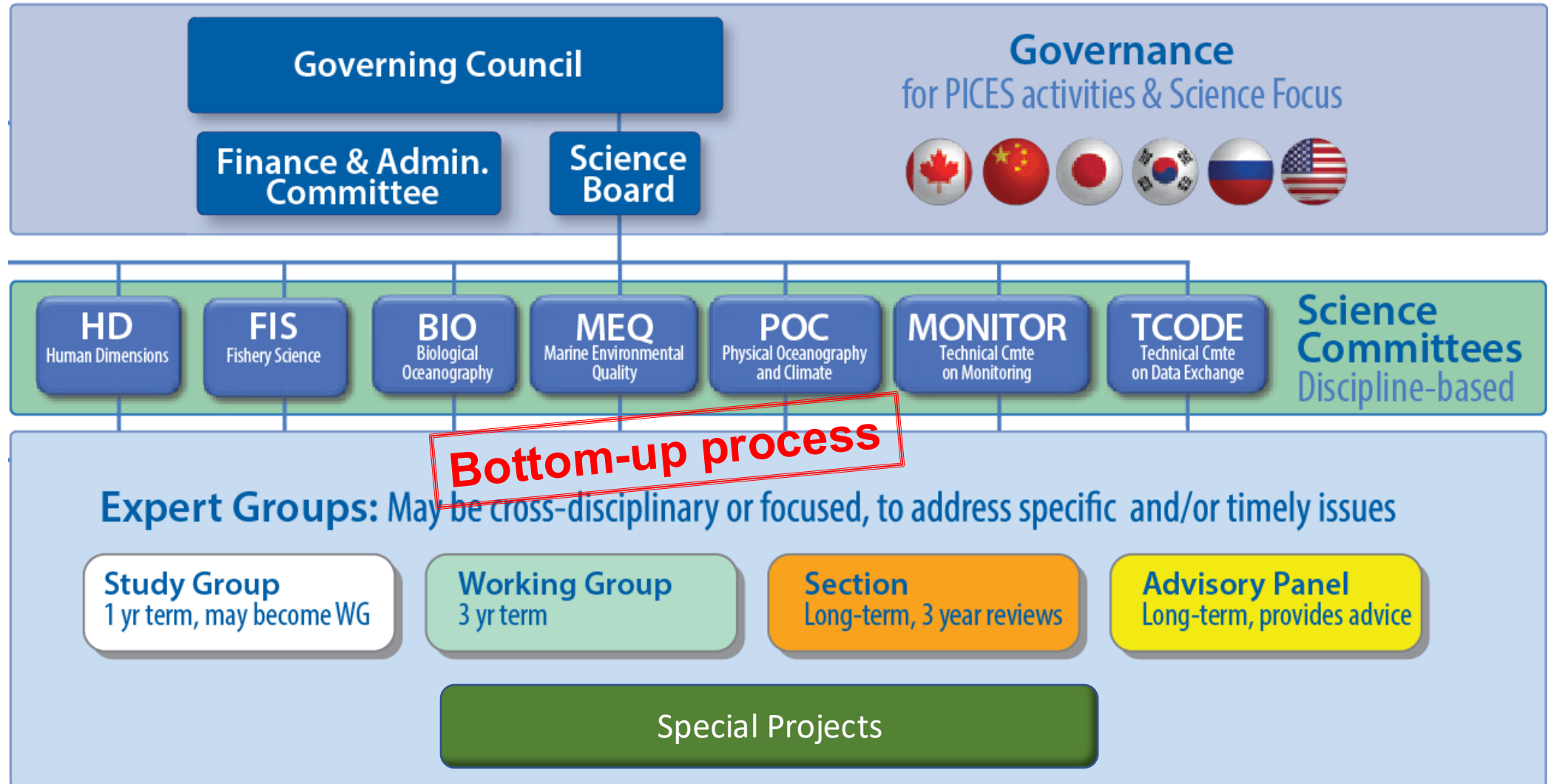


High Level International Policies

Knowledge input for policy development and management options, support for member countries' achievement of the policy, e.g. KM-GBF, SDGs.



Organizational Structure

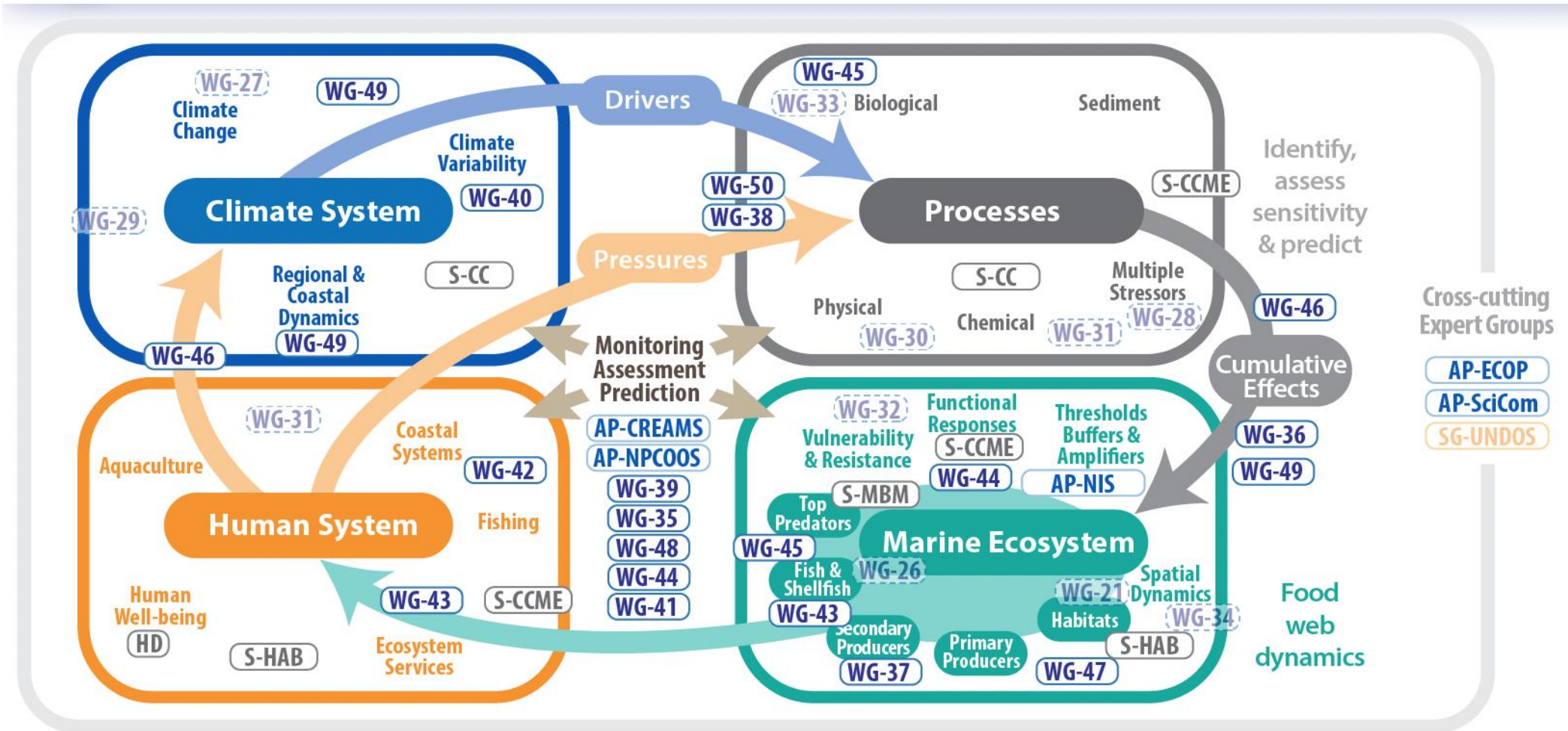


FUTURE
Science Program



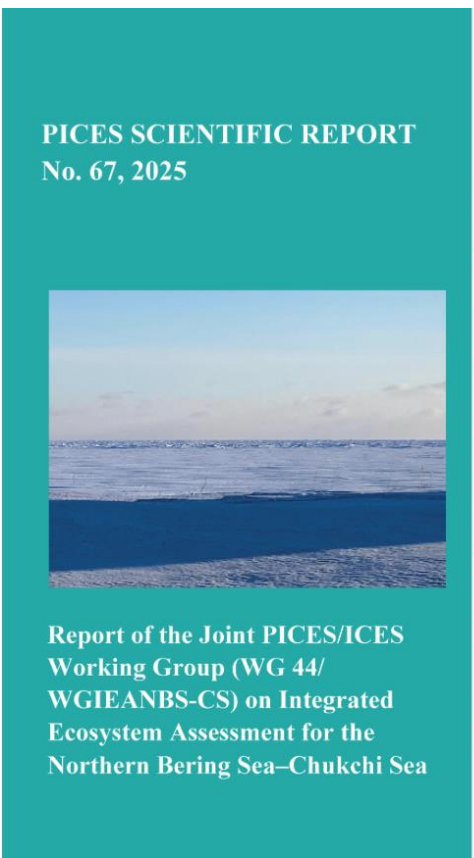
Social-Ecological-Environmental System Framework

To understand the Climate System, Processes, Marine Ecosystem, and Human System in an integrated way.





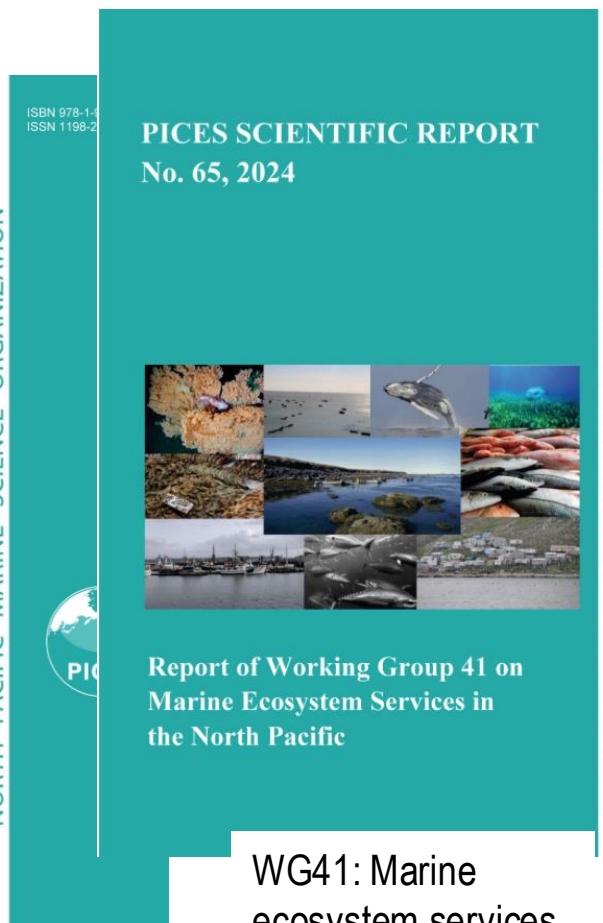
Expert Group Products: Final Report



WG44/WG IEANBS-SC



WG42: Marine plastic pollution indicators



WG41: Marine ecosystem services



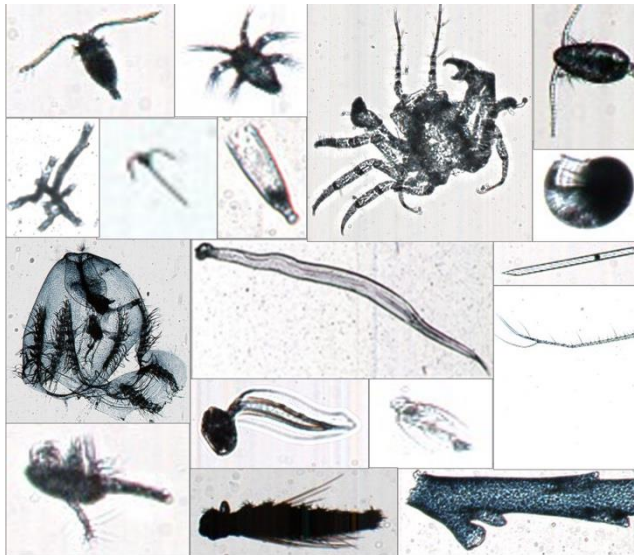
WG43: Small Pelagic Fish

<https://meetings.pices.int/publications/scientific-reports>



New Expert Groups

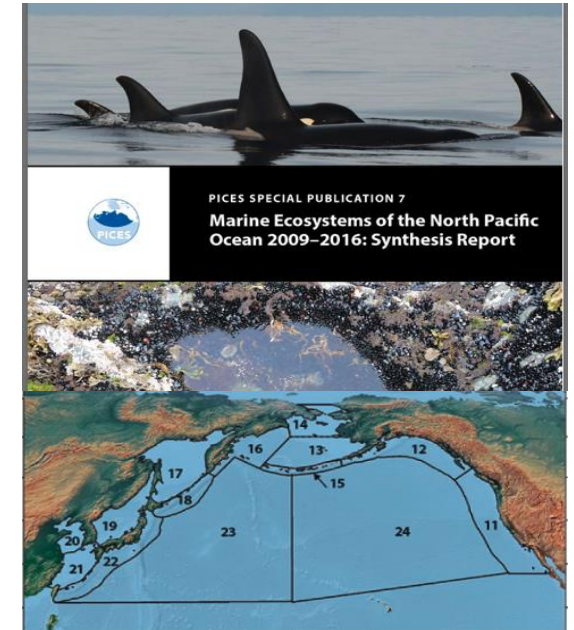
Joint PICES/ICES Working Group on Best Practices for Using Deep Learning in Processing Plankton Images (WG54)



Section on Marine Plastic Pollution (S-MPP)




Study Group on the 4th North Pacific Ecosystem Status Report (SG-NPESR4)



ICES/PICES Joint UNDOS Programme, SmartNet, 2021-2030

SUSTAINABILITY OF MARINE ECOSYSTEMS THROUGH GLOBAL KNOWLEDGE NETWORKS (SMARTNET)



2021 United Nations Decade of Ocean Science for Sustainable Development 2030

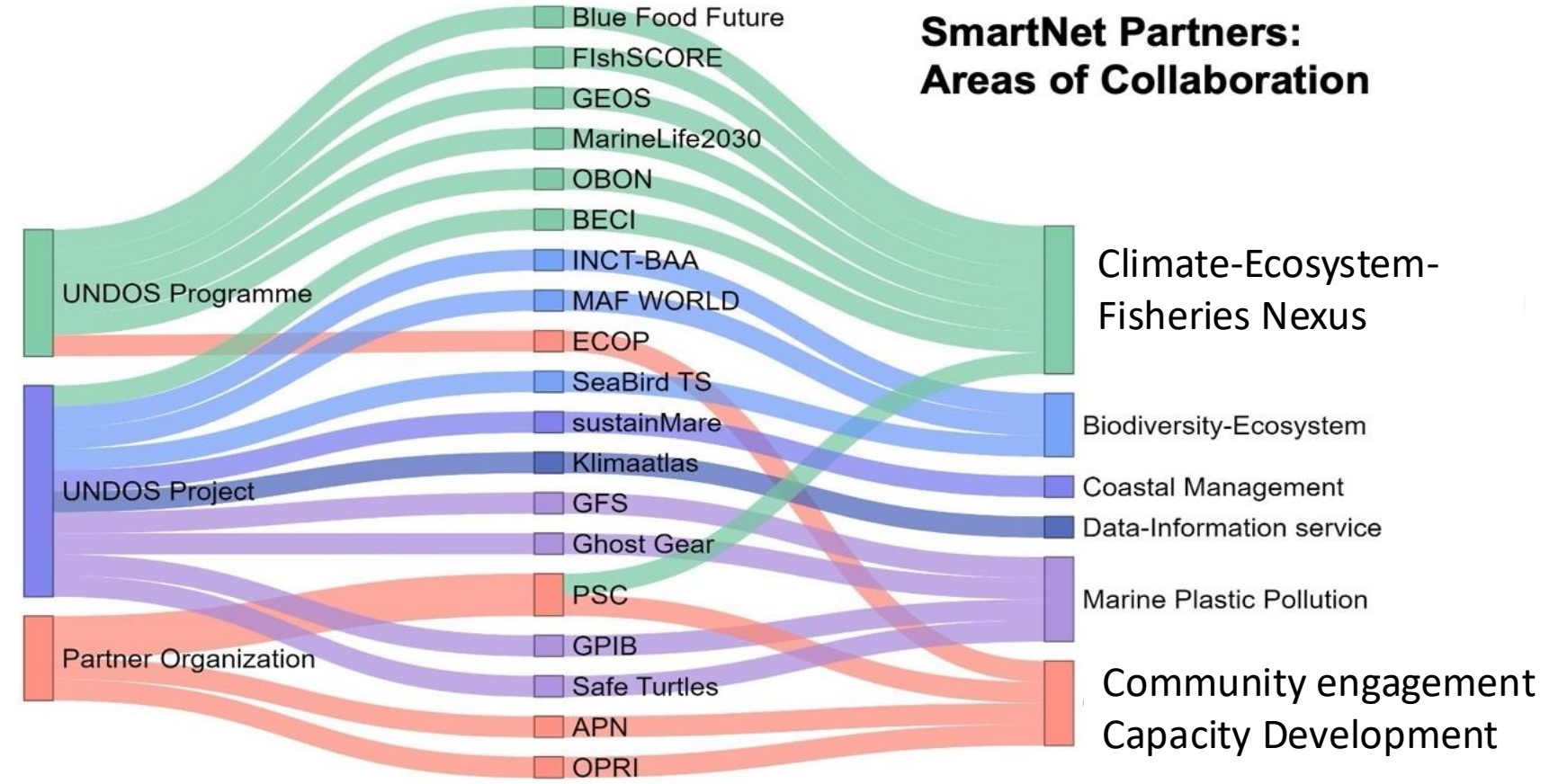


- SmartNet will:
- Establish a global knowledge network for ocean science by strengthening and expanding the collaboration of ICES/PICES and partner organizations.
 - Support and leverage ICES/PICES member countries' activities related to UNDOS

ICES Co-Chaire
Dave Reid



PICES Co-Chairs
Steven Bograd, Sanae Chiba





SmartNet Priority Activities for Phase II (2025-2028)

Advance Climate-Ecosystem-Fisheries Nexus science and management through collaboration with multiple UNDOS programmes and projects.

Have held and will hold a series of Joint Workshops at various opportunities, including ICES/PICES Annual Meetings, ECCWO5, and OOSC2025.

(PICES-2025) **Workshop 1**: Climate-ready fisheries management: reviewing effective strategies for developing decision support tools.

Expand capacity sharing opportunities beyond the ICES and PICES Convention Areas, with a particular focus on the Global South and SIDS

Has been promoting career development of SIDS ECOPs by leveraging existing ICES/PICES frameworks and infrastructures.

(PICES-2025) **Workshop 8**: 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.

Inform new UNDOS activities through the global survey “What is the Ocean We Want?”

<https://makinolab.ori.u-tokyo.ac.jp/en/owwproject/>

To assess people’s perspectives on Ocean Decade Outcomes in various countries with different cultural backgrounds.



Pilot surveys completed in 8 countries, showing country-specific priorities.





SCOR & PICES Mechanisms of Collaborations

Membership of
SCOR Capacity
Development
Committee

Providing
scientific input
from PICES to
SCOR WGs

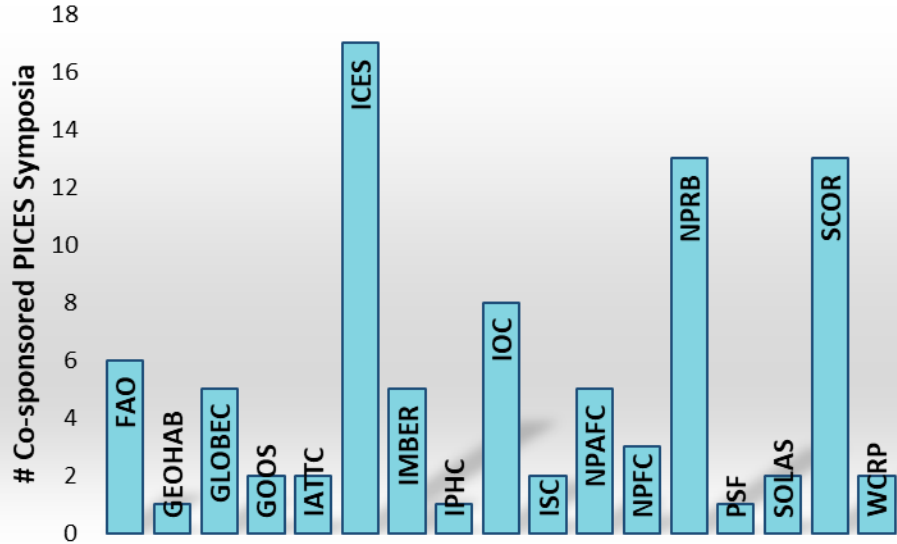
Co-sponsoring
relevant
International
events

Representation at
each other's
Annual Meetings



Collaborations: SCOR Supports on PICES Symposia

Co-sponsors of PICES-organized International symposia/conference



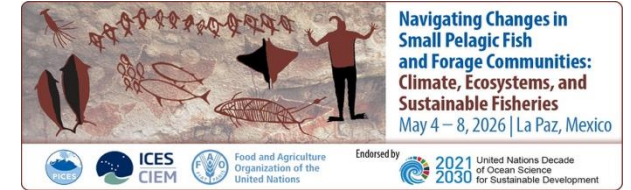
SCOR Support enables ECOPs from non-PICES countries to be engaged in PICES community.



Symposia Series

Small Pelagic Fish Symposia

Last in 2022, next in 2026



Early Career Scientist Conferences

Last in 2022, next in 2027



Effects of Climate Change on the World's Ocean

Last in 2023, next in 2028?



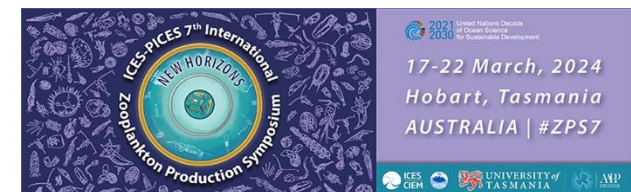
Marine Social Ecological System Symposia

Last in 2024, next in 2028?



Zooplankton Production Symposia

Last in 2024, next in 2029?





Collaborations: PICES Supports SCOR Relevant Events

Year	Events of SCOR Relevant Programs	Notes
2026	<ul style="list-style-type: none">SOLAS Summer School (TBC), June 2026, Tamandaré, Brazil.	
2025	<ul style="list-style-type: none">ESSAS OSM, June 2025, Tokyo, Japan	Candidate canceled trip due to illness
2024	<ul style="list-style-type: none">IMBeR IMBIZO7, 22-24 Sept 2024, Rabat, MoroccoSOLAS OSC, 10-14 November, 2024 Goa, India.	Event cancelled by organizers
2023	<ul style="list-style-type: none">IMBeR ClimEco8 summer school, Koper, SloveniaSOLAS Summer School, Cape Verde, Senegal	
2022	<ul style="list-style-type: none">SOLAS OSC September 25-29, 2022, Cape Town, South Africa	



PICES Support enables ECOPs from PICES countries to participate in International conferences and capacity development events



Transformation of PICES



External Review
conducted

Review Report
provided

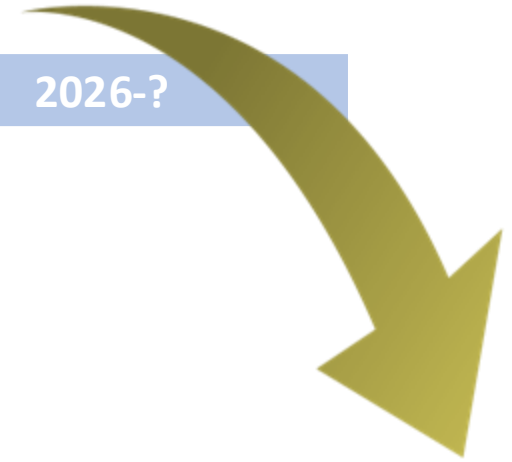
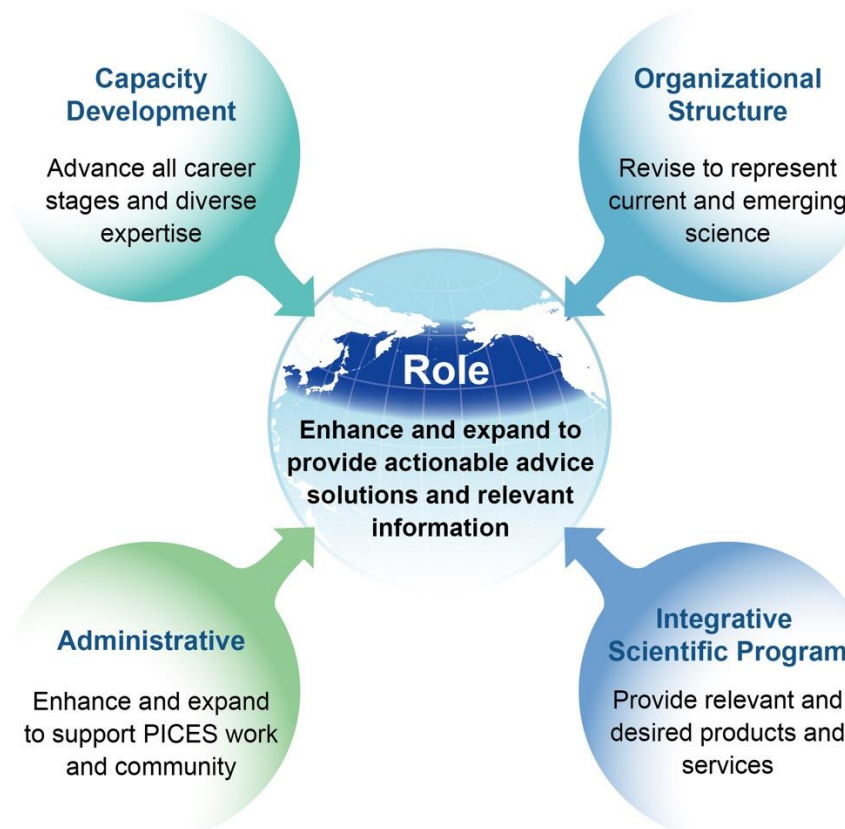
Solicited thoughts from wider community
Invited partner orgs to comment
Panel at PICES-2024

2023-2024

Late 2024

2024-2025

2026-?



PICES considering and managing response on:

- Revised Mission
- New Strategic Plan,
- New Integrated Science program
- Revised Committee structure



Purpose of the Organization in PICES Convention

Convention For A North Pacific Marine Science Organization

defines PICES's role is to “advance scientific knowledge through promoting and facilitating international collaboration” (1992~)

Article III:

Purpose of the
Organization
shall be...

- *Promote and coordinate marine research in the northern North Pacific and adjacent seas, especially northward of 30 degrees North*
- *Advance scientific knowledge about the ocean environment, global weather and climate change, living resources and their ecosystems, and the impacts of human activities*
- *Promote the collection and rapid exchange of scientific information on these issues*



PICES to Deliver Actionable Science

We need to....

Create regular dialogue opportunities among scientists, national delegates and other stakeholders to ensure mutual priority and needs.

Develop organisational structure, governance system, and science leadership which allow effective co-design of actionable science plans.

Enhance engagement in the UN Initiatives (e.g. seek official representation at the UN) to help PICES members achieve their commitments to address international-level policy.



PICES to Deliver Actionable Science



**Where is the best
balance of these?**

*Actionable, solution-based
science*



*Discovery and Inspiring
science*



PICES-2025 Annual Meeting Nov 8 - Nov 14, 2025

“Innovative Approaches and Applications to Foster Resilience and North Pacific Ecosystems”

Highlight

- As climate extreme events are becoming “normal” in the North Pacific, as elsewhere in the world, multiple sessions focus on their mechanisms, socio-ecological impacts, and adaptation across disciplines.
- A town hall meeting will be scheduled on the opening day to further discuss the design of the new PICES mission and strategy, organizational structure, and the post-FUTURE PICES integrated science program, to implement “Actionable Science”.



See you in Yokohama!!



North Pacific Marine Science Organization

International collaboration for improved ocean health.



Thank you!