

PICES-2025

North Pacific Marine Science Organization

Innovative Approaches and
Applications to Foster Resilience in
North Pacific Ecosystems



8 – 14 November 2025 | Yokohama, Japan



PICES-2025 Welcome Address

Tetsuo Fujii

PICES Chair



8 – 14 November 2025

PICES-2025

Yokohama, Japan

PICES-2025 Welcome Address

水産庁

Hitoshi Fujita

Director-General
Fisheries Agency of Japan



8 – 14 November 2025

PICES-2025

Yokohama, Japan

Greeting by Hitoshi Fujita

Director-General of the Fisheries Agency of Japan

-English translation-

Distinguished Chair, Esteemed Representatives of Member Nations, and Honored Researchers,

It is an honor to have been introduced. My name is Hitoshi Fujita, Director-General of the Fisheries Agency of Japan .

On behalf of the Government of Japan, I am pleased to welcome you to the PICES 2025 Annual Meeting here in Yokohama. We are truly delighted to host this important meeting in our country.

Continued...



Greeting by Hitoshi Fujita

Director-General of the Fisheries Agency of Japan

-English translation-

First of all, I would like to express our sincere appreciation to the PICES Secretariat and all those involved for their tireless efforts in organizing this meeting. I also wish to convey our gratitude to the City of Yokohama for its generous support in facilitating this event.

Thanks to the understanding and cooperation of all stakeholders, we are pleased to see such a robust turnout, and we are confident that this meeting will be both fruitful and impactful.

Continued...



Greeting by Hitoshi Fujita

Director-General of the Fisheries Agency of Japan

-English translation-

Since its establishment in 1992, PICES has played a vital role in advancing marine scientific research in the North Pacific region and in fostering the development of early-career scientists.

In addition to its longstanding focus on elucidating the impacts of climate change on marine ecosystems, PICES has in recent years proactively addressed shared challenges among member nations, including the effects of anthropogenic activities—such as greenhouse gas emissions—on the marine environment.

Continued...



Greeting by Hitoshi Fujita

Director-General of the Fisheries Agency of Japan

-English translation-

This summer, Japan experienced record-breaking high temperatures across many regions, as well as unprecedented torrential rains that caused significant damage. These events underscore our growing concern regarding the tangible impacts of climate change. Moreover, the decline in catches of key fishery resources such as salmon, and the degradation of coastal environments—including the loss of seaweed beds—have become pressing issues. Expectations for PICES to further clarify the causal relationships between these phenomena and climate change are higher than ever.

Continued...



Greeting by Hitoshi Fujita

Director-General of the Fisheries Agency of Japan

-English translation-

The benefits derived from marine ecosystems are a shared heritage of humankind, and we bear the collective responsibility to ensure their sustainable use. The continued advancement of marine science through the PICES activities, and the strengthening of collaboration among member nations, are of increasing importance.

Continued...



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Yokohama, Japan

Greeting by Hitoshi Fujita

Director-General of the Fisheries Agency of Japan

-English translation-

I would like to take this opportunity to express my profound respect to all those who have supported the work of PICES, particularly Chair Tetsuo Fujii and Executive Secretary Dr. Batten, for their dedicated efforts. I am confident that PICES will continue to serve as a central pillar in marine scientific research in the North Pacific, and that its achievements will be widely disseminated and applied throughout the region.

In closing, I sincerely hope that this Annual Meeting will yield rich scientific outcomes and further deepen the bonds of friendship and mutual trust among all participants.

Thank you very much for your attention.



PICES-2025 Welcome Address



横浜市

Takeharu Yamanaka

Mayor of City of Yokohama

Read by Deputy Mayor, Hidehiro Ijichi



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PICES-2025

Yokohama, Japan

PICES-2025 Welcome Address

Takeharu Yamanaka

Mayor of City of Yokohama

Read by Deputy Mayor, Hidehiro Ijichi

Good morning, everyone. I am Ijichi, Deputy Mayor of Yokohama.

It is my great pleasure to extend heartfelt congratulations on the opening of the 2025 Annual Meeting of the North Pacific Marine Science Organization (PICES).

I regret to inform you that Mayor Takeharu Yamanaka is unable to attend today's ceremony, but I have been entrusted with his congratulatory message which I will now read on his behalf.



Greeting by Takeharu Yamanaka

Mayor of City of Yokohama

-English translation-

I would like to offer my sincere congratulations on the grand opening of the PICES Annual Meeting.

On behalf of the host city, I warmly welcome all participants from Japan and abroad.

I would also like to express my deep appreciation to the members of PICES and all those involved, including the Fisheries Agency of Japan, for choosing Yokohama as the venue for this highly significant meeting.

I hold the utmost respect for the tireless efforts of all researchers who continue to advance marine science in pursuit of a sustainable use of the ocean, which is an essential key to solving global challenges such as climate change.

Continued...



Greeting by Takeharu Yamanaka

Mayor of City of Yokohama

-English translation-

I sincerely hope that this annual meeting will yield fruitful outcomes that contribute to the further development of marine science and the achievement of a sustainable marine environment.

Since opening its port in 1859, Yokohama has grown through its connection with the sea. Today, the city is home to a concentration of cutting-edge industries and institutions engaged in marine-related business, research, and education.

Yokohama is also actively promoting decarbonization initiatives, such as the development of a Carbon Neutral Port, in collaboration with the national government and the private sector.

Continued...



Greeting by Takeharu Yamanaka

Mayor of City of Yokohama

-English translation-

I also would like to mention that in 2027, Yokohama will host the international exposition "GREEN×EXPO," themed around harmony with the environment.

We hope that many of you will visit and take part in this event, which will showcase the future of a circular, green society to the world.

In closing, I would like to express my best wishes for the success of this meeting and for the continued achievements of all participants.

Thank you very much for your attention.

November 10, 2025

Takeharu Yamanaka, Mayor of Yokohama



PICES-2025 Welcome Address

Dr. Ichiro Nakayama

President

Japan Fisheries Research and Education Agency



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PICES - 2025 Awards

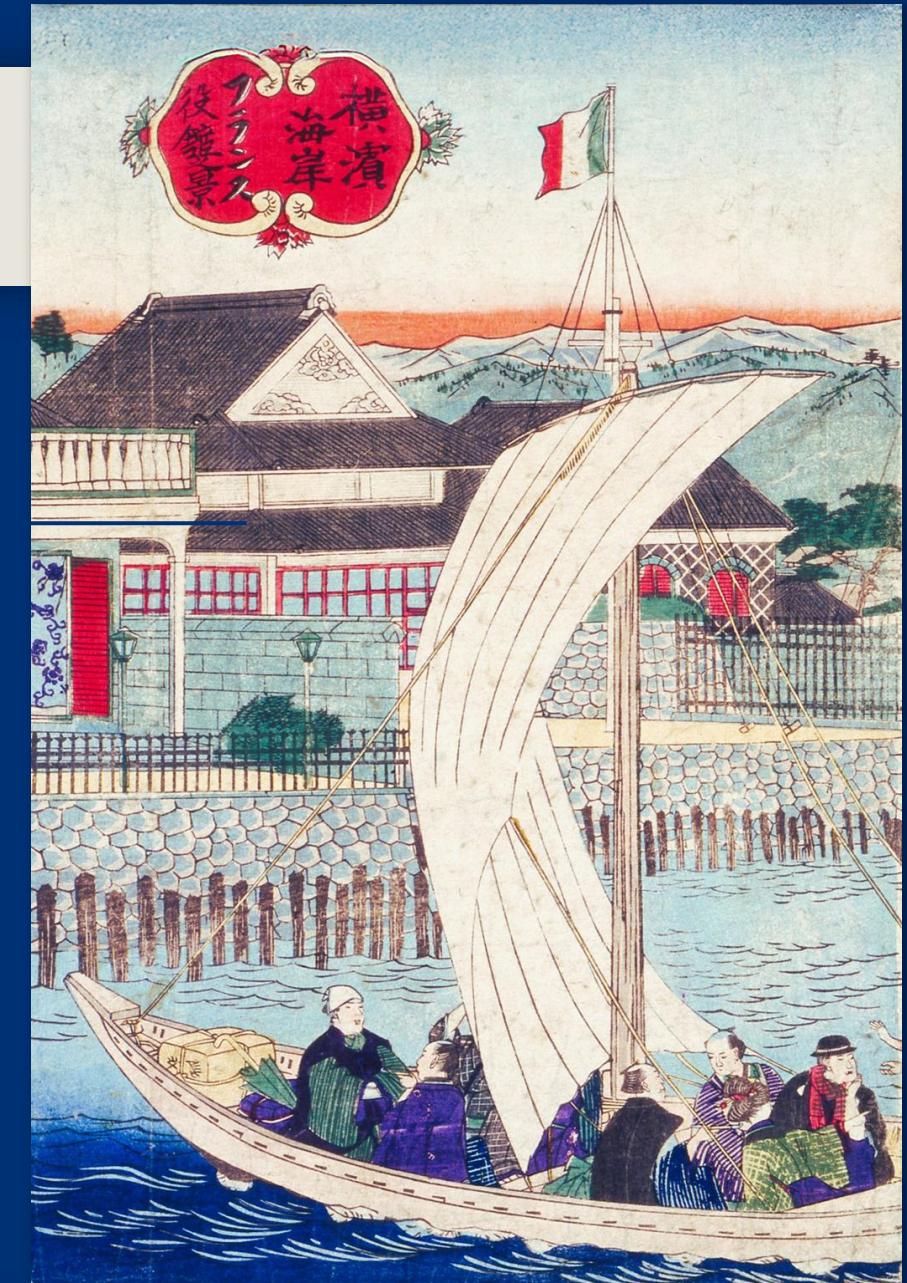
Presented by

Sukyung Kang
PICES Science Board Chair



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Yokohama, Japan

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



PICES-2025 Wooster Award Winner

Professor Yongjun Tian

College of Fisheries
Ocean University of China



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Yokohama, Japan



Who is Yongjun Tian ?

Grateful acknowledgements to Peng Sung and colleagues for their efforts in producing this video.

PICES-2025 Wooster Award Winner

Professor Yongjun Tian

College of Fisheries
Ocean University of China



Acceptance Remarks



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PICES-2025

Yokohama, Japan

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".

PICES-2025 Zhu-Peterson Award Winner

Hyung-Gyu Lim

Research Scientist

Korea Institute of Ocean Science and Technology



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PICES-2025 Zhu-Peterson Award Winner

Hyung-Gyu Lim

Dr Lim is currently a Research Scientist at Korea Institute of Ocean Science and Technology (KIOST).

PhD in climate dynamics at Pohang University of Science and Technology (POSTECH) in South Korea in 2019.

Research interests: Interaction and predictability of climate and marine ecosystems

PICES Contributions

- Presented papers at PICES Annual Meetings (2015, 2017, 2023)
- ECOP Presentation Award Winner PICES-2022: Best oral and best poster
- AP-UNDOS Member 2022 – present
- Member of the Korean national PICES committee to make decisions and support national activities relevant to PICES, particularly by providing recommendations to assist early career scientists
- A leading members of the Korean Early Career Scientist Professional (K-ECOP)



PICES-2025 Zhu-Peterson Award Winner

Hyung-Gyu Lim



Hyung-Gyu Lim (left) representing ECOP-Korea at PICES-2023 with other global ECOP Programme members

“...acknowledging his substantial contributions and his promising potential to be influential within the scientific community and the PICES organization.”

– Se-Jong Ju

“Dr. Lim’s outstanding achievements are not limited to scientific research; they also include his engagement in the promotion and networking of early career scientists, as he is a founding member of the Korea-ECOP.”

– Hanna Na



PICES-2025 Zhu-Peterson Award Winner

Hyung-Gyu Lim

Research Scientist

Korea Institute of Ocean Science and Technology



Acceptance Remarks



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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."



PICES-2025 POMA Award Winner

K2 Biogeochemical Time-series (JAMSTEC)

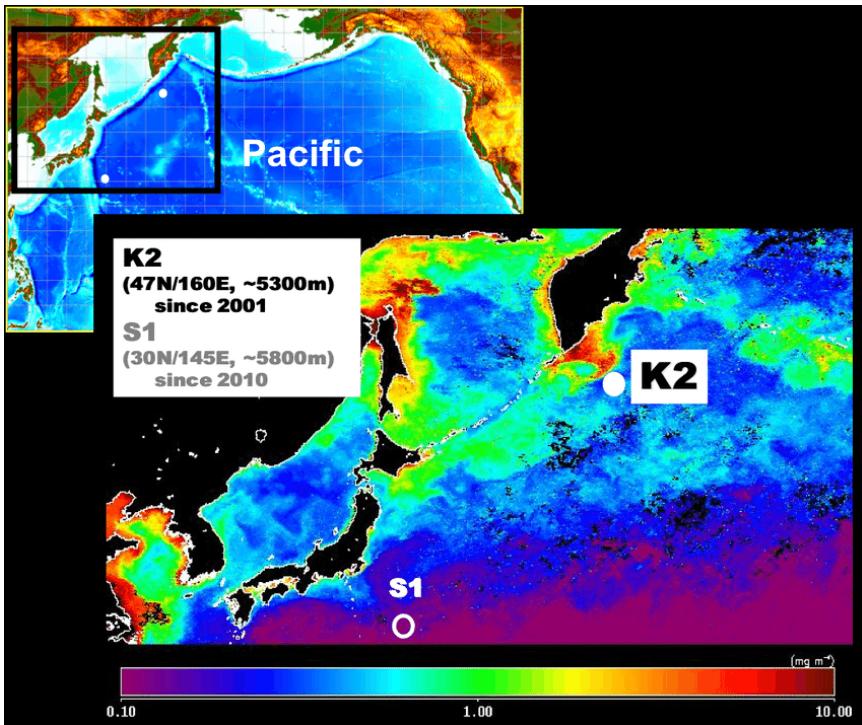


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K2 Biogeochemical Time-series (JAMSTEC)



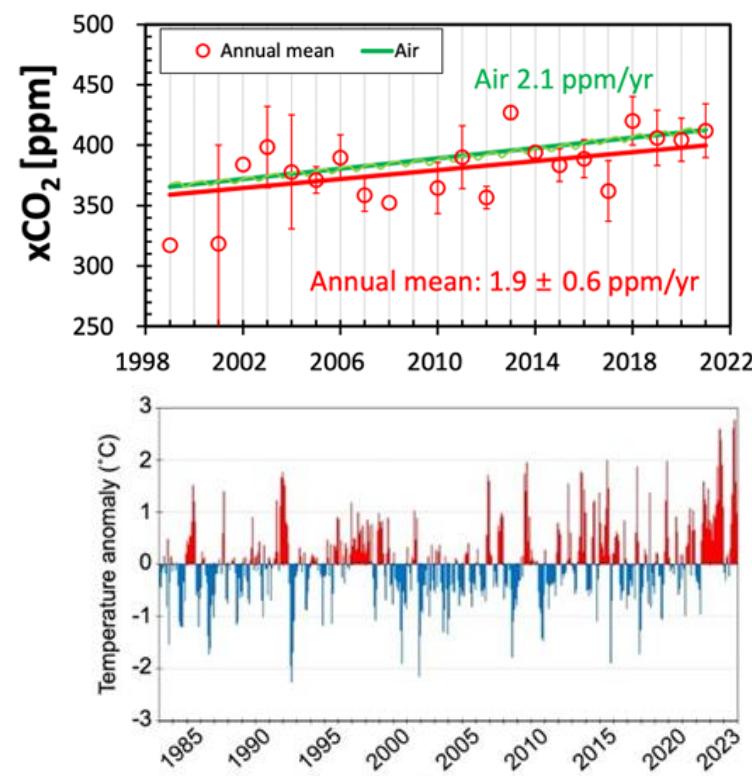
The K2 biogeochemical time-series station is located in the western subarctic gyre of the North Pacific Ocean, situated offshore of Japan's Hokkaido Island.

Established 2001 at K2 (47°N, 160°E; 5,200 m) to monitor biogeochemistry of the western subarctic Pacific and the biological carbon pump

Trained >100 students and early-career scientists

Extensive sample and data sharing with national and international partners.

K2 Biogeochemical Time-series (JAMSTEC)



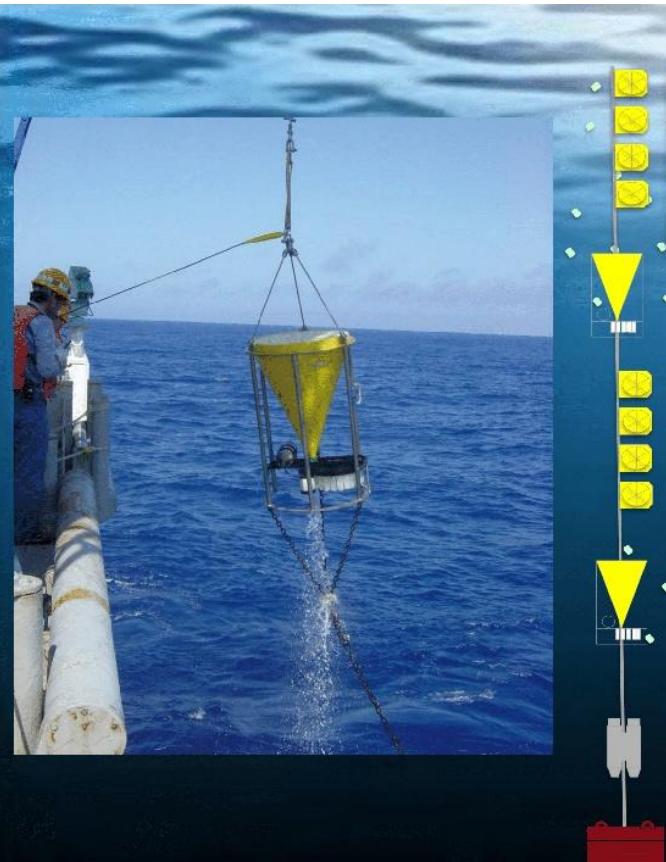
SST: Time-series of satellite-derived SST have revealed warming of the water at K2 over two decades.

Acidification: Hydrographic observations over two decades revealed anthropogenic CO₂ uptake by the ocean and a progression of and a progression of ocean acidification.

Biological pump: Sediment trap experiments at K2 have revealed characteristics of the biological pump in the western subarctic Pacific

Process insights: Iron limitation and atmospheric/aerosol inputs, seasonal primary production drivers, zooplankton vertical migration and carbon flux, N₂O production mechanisms.

K2 Biogeochemical Time-series (JAMSTEC)



“...this time-series program has contributed significantly to the progress of marine science in not only the North Pacific but also the world oceans, to long-term monitoring observations, to the development of new observation devices/methods, and to the training of students and early career scientists.”

- Makio Honda and Minoru Kitamura

PICES-2025 POMA Award Winner

K2 Biogeochemical Time-series (JAMSTEC)



Acceptance Remarks



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PODA Award Background (New Award)

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.

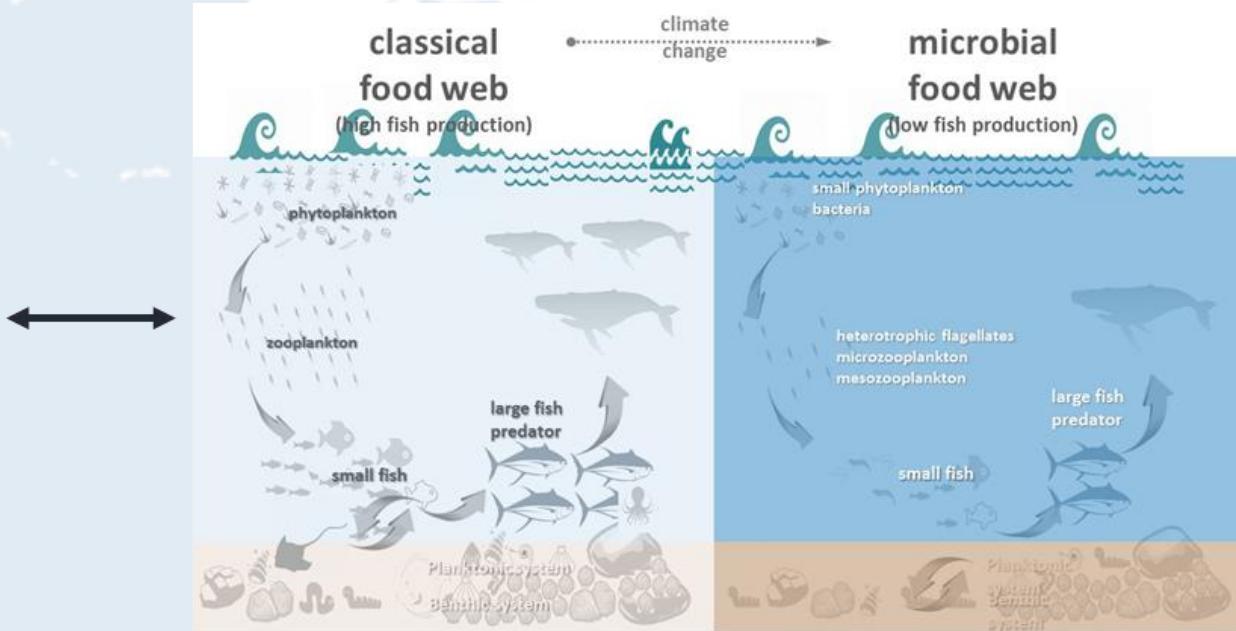
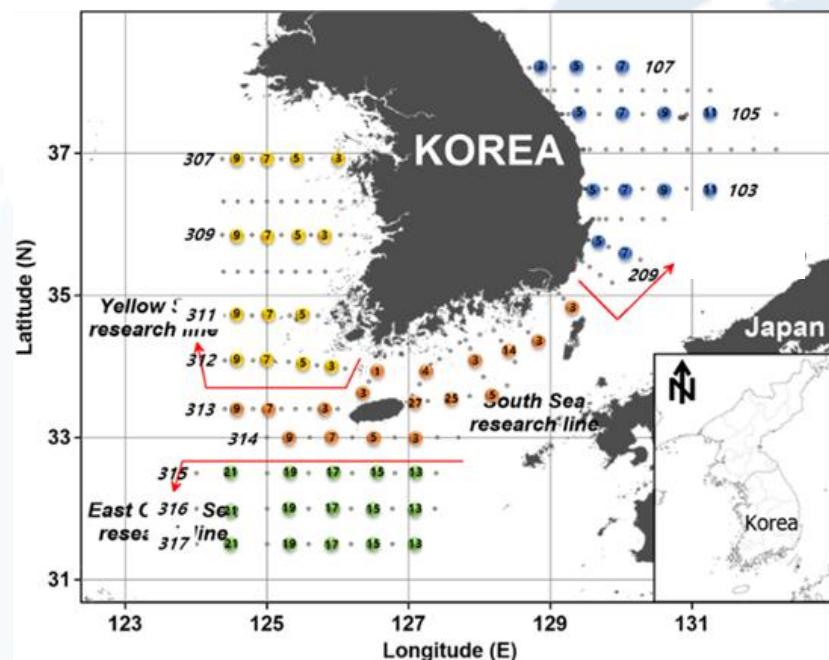
The Open Data Excellence Award is bestowed in honour of the respected Dr. Igor Shevchenko, who for many years was deeply involved in national and international data sharing activities.



Korea Oceanographic Data Center (KODC)



KOREA OCEANOGRAPHIC
DATA CENTER



PICES-2025 PODA Award Winner



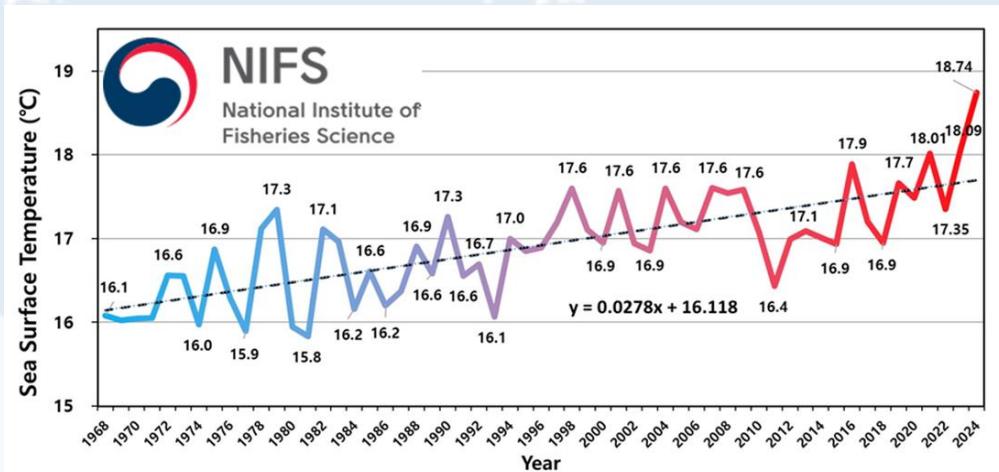
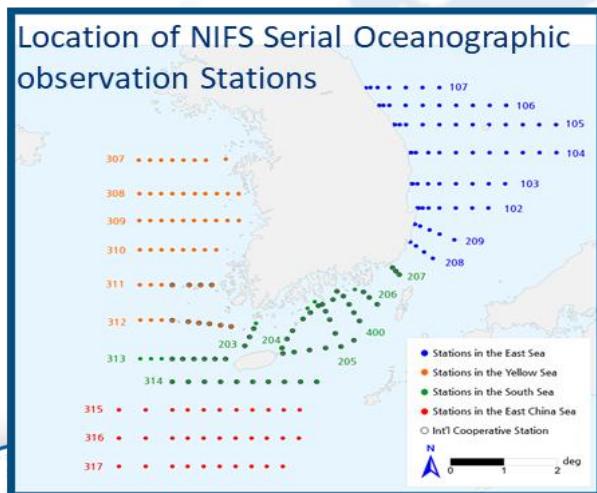
Korea Oceanographic Data Center (KODC)

KODC has collected a continuous oceanographic record since 1921.

KODC was designated as Korea's National Oceanographic Data Center by the IOC in 1984.

Wide reach: Open-access data services are utilized by more than 7,000 users.

Broad applications: Long-term, high-quality oceanographic data supports science, policy, and sustainable marine management.



- Climate
- Ecosystem
- Fisheries
- Aquaculture
- Disaster-response applications (e.g., marine heatwave alerts, fisheries forecasting)

PICES-2025 PODA Award Winner

Korea Oceanographic Data Center (KODC)

“What sets KODC apart is not only the scale and continuity of its observational programs but also its dedication to the stewardship and accessibility of these data.

Of particular note is the Center's effort to digitally restore historical oceanographic records dating back to the 1930s, which have been officially recognized as National Registered Cultural Heritage (No. 554) and Important National Scientific and Technological Materials (NSH I 000500 I).”

- In Seang Han



National Registered Cultural Heritage (No. 554)
Certification from Korea Heritage Service.



ISO (International Organization for Standardization)
Certification from Korea Foundation for Quality.



PICES-2025 PODA Award Winner

Korea Oceanographic Data Center (KODC)



KOREA OCEANOGRAPHIC
DATA CENTER

KOREA OCEANOGRAPHIC DATA CENTER

National Institute of Fisheries Science

KODC is the only authorized national oceanographic data center in Korea. The center was established in 1974, and the National Institute of Fisheries Science(NIFS) has been operating the center since 1981.

Acceptance Remarks



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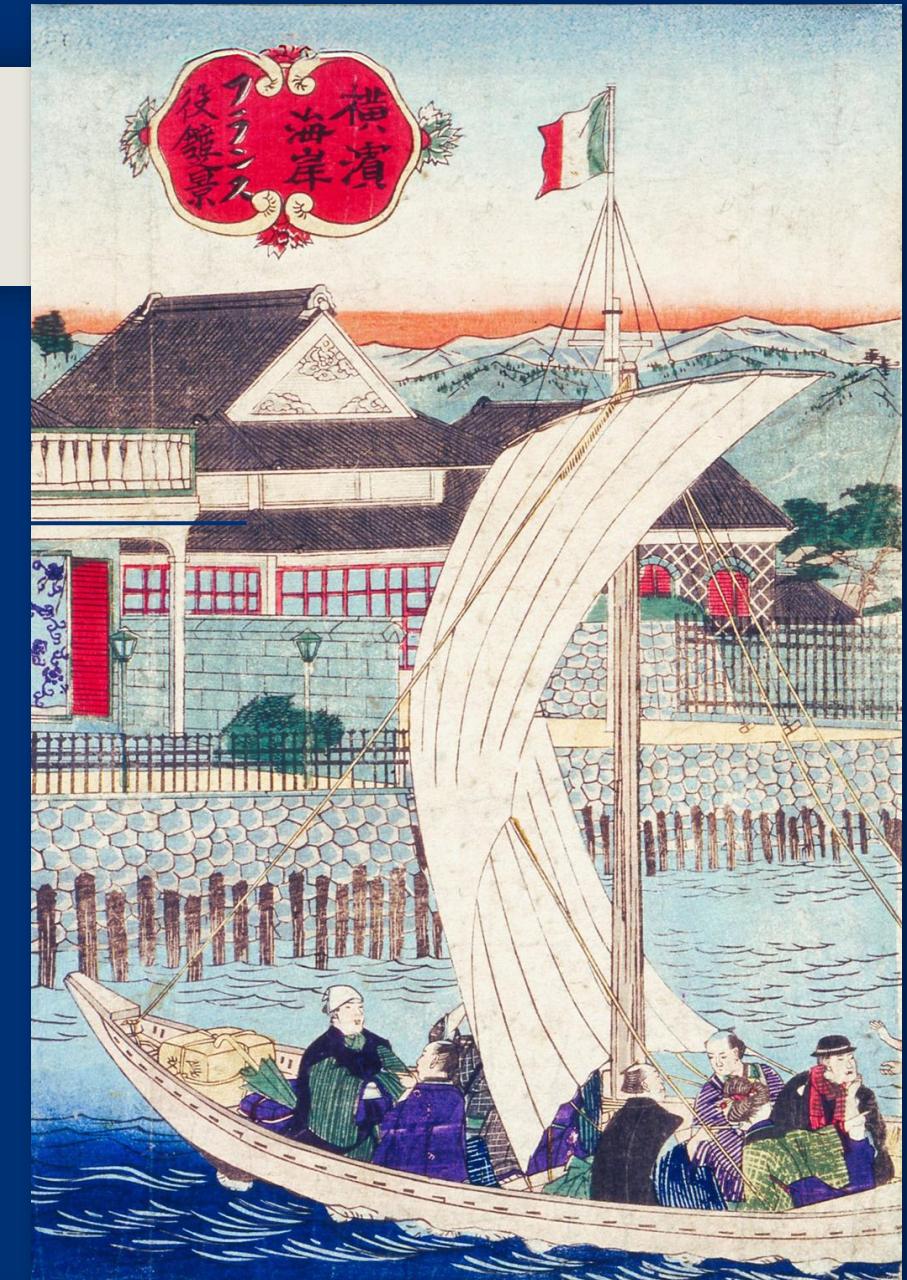
Year in Review
PICES Scientific Excellence
Moving PICES Science Forward

Sukyung Kang
PICES Science Board Chair



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Yokohama, Japan

FUTURE Science Program – FUTURE Symposium at PICES2024



Aims of the symposium

- **Celebrate** what FUTURE has brought to PICES and the North Pacific Marine Science Community
- Assess the **strengths & weakness, accomplishments & gaps** of the program
- Pave the path forward for PICES science



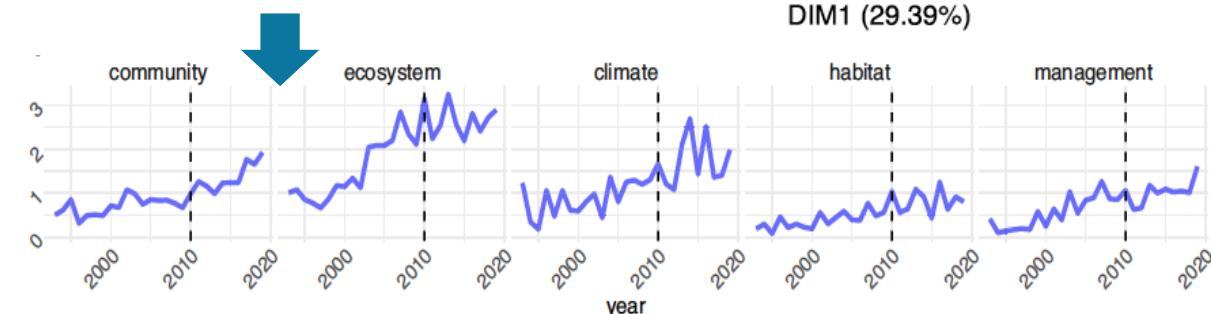
FUTURE Science Program – Synthesis Paper published

FUTURE Synthesis paper depicts the transformation in the priority and gaps in PICES Science from the 1990s to 2020s

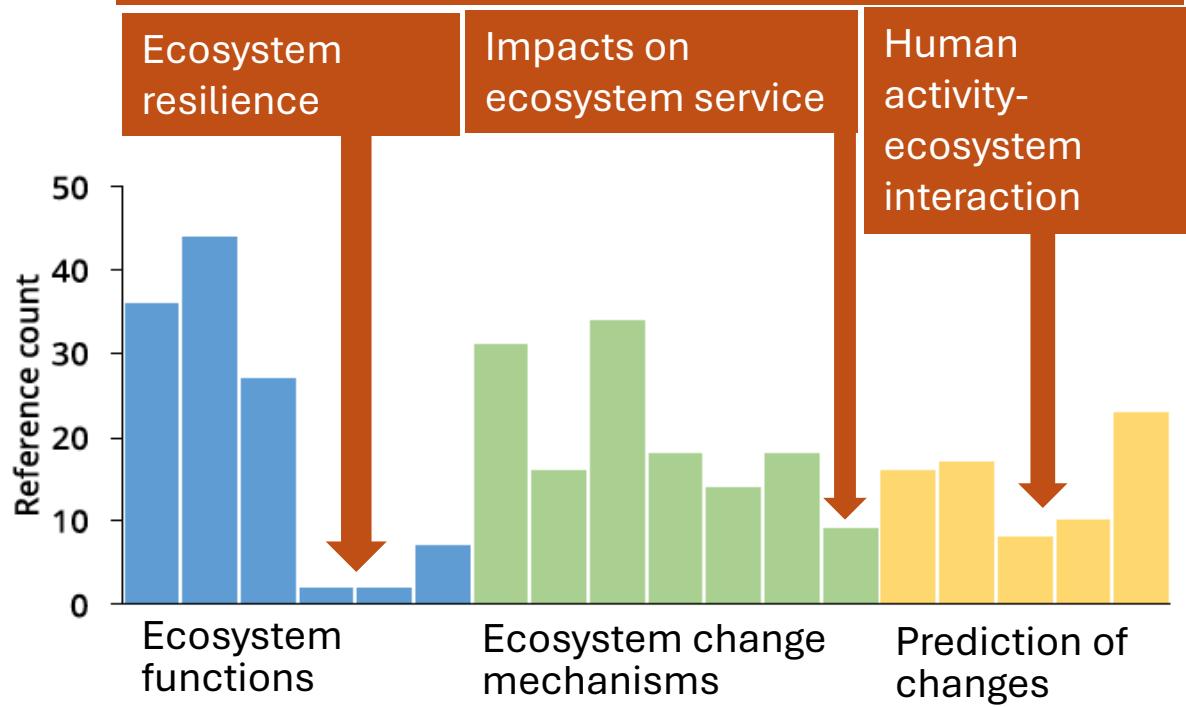
Change in priority

Basic science to applied science

More focus on climate change impacts & Ecosystem-based management



Gaps remained (on FUTURE sub-questions)



Takemura et al. "Lessons learned from the PICES FUTURE Program on development of an interdisciplinary international science program to advance ocean sustainability." *ICES Journal of Marine Science* 82.9 (2025): fsaf145.



PICES-2025 FUTURE ECOP SEES Award Winner

Objective: Encourage recognition and application of the Socio-Environmental-Ecological-Systems (SEES) approach, and engage early career scientists in PICES.

Selection: FUTURE SSC selects the winner among the abstracts submitted to PICES Annual Meeting.

“.... understanding salmon also means understanding the people, histories, and environments surrounding them, which inspired me to explore the human dimensions of coastal ecosystems.”

Award Presentation at SB Symposium (S1)

“Spatial transitions of coastal fishing infrastructure and socio-ecological systems in Hokkaidō, Japan”

Nozomi IHARA

Graduate School of Environmental Science, Hokkaido University, Japan

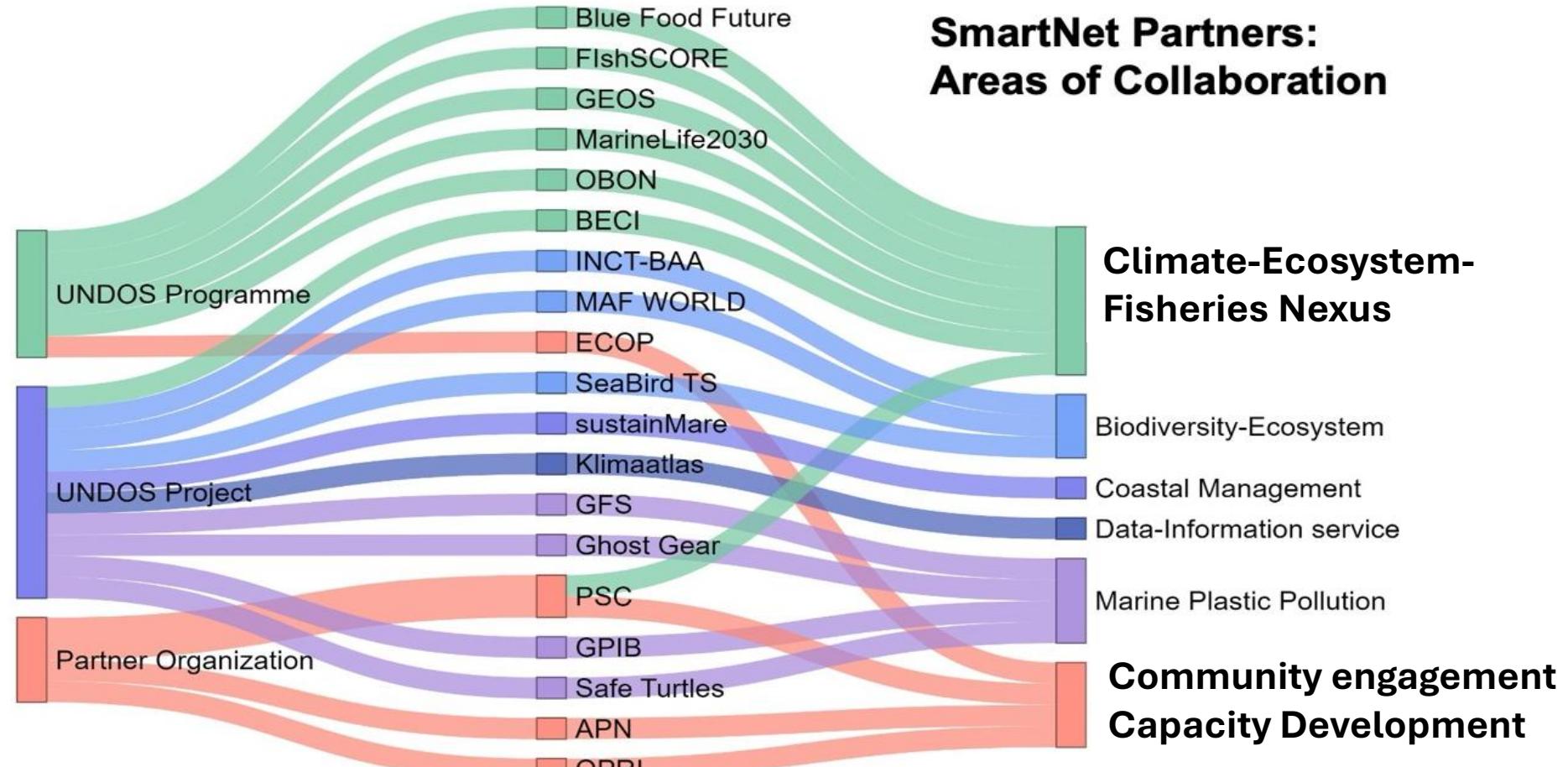




SmartNet will:

- 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

SmartNet Partners: Areas of Collaboration



SmartNet – UNDOS Endorsed Joint ICES/PICES Programme



One Ocean Science Congress,
France, June 2025

Town Hall “Moving towards integrated evaluation approaches in support of ocean policy”.



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ICES ASC, Lithuania, Sept 2025
Session “Climate-ready fisheries management in the UN Decade of Ocean Science”

PICES-2025



Chen Yang

UNDOS Coordinator
Ms. Chen Yang

(September 2025 ~)
Working remotely from the Ocean Decade International Cooperation Center, China office

Yokohama, Japan

SmartNet – UNDOS Endorsed Joint ICES/PICES Programme

Phase II (2025-2028) Priority Topics

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

Has 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.

2. 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, and through collaboration with new partners.

(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.

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

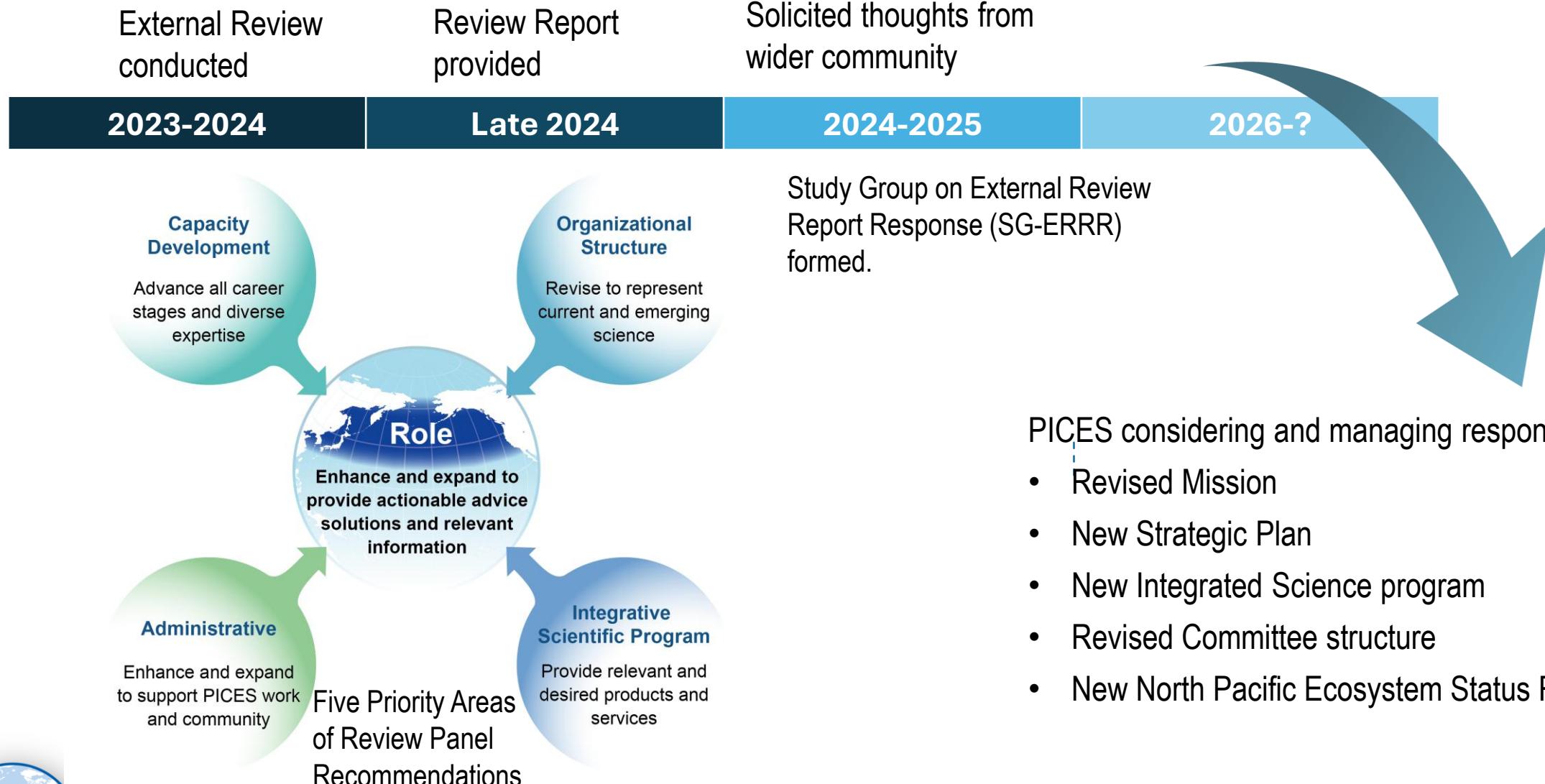
<https://makinolab.aori.u-tokyo.ac.jp/en/owwproject/>

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



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

Evolution of PICES



Evolution of PICES

Special Panel “PICES Science in the Next Decade” at PICES-2024



Best practices toward the knowledge co-production and science-policy interaction

Town Hall Event at PICES 2025 @ 11:25-12:35, November 10 (Today!)

1. A short introduction/refresher on the PICES External Review process and outcomes
2. Presentations
 - **Andrew Thomson**, SG-ERRR Chair and GC member on the current focus and vision of Governing Council
 - **Sukyung Kang**, Science Board Chair on the science activities and their evolution
 - **Cisco Werner**, on the need for increased strategic engagement
3. Questions from the floor to the panellists, moderated by the PICES Chair, **Tetsuo Fujii**



New Expert Groups

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



- Review current deep learning applications in plankton image processing
- Develop standardized DL model training, validation, and evaluation methodologies



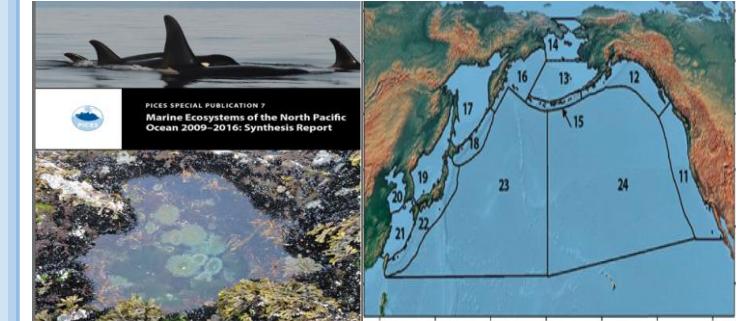
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Section on Marine Plastic Pollution (S-MPP)



- Understand plastic pollutants within the PICES region
- Develop abiotic and biotic indicators of plastic pollution and develop a monitoring and assessment plan
- Provide scientific guidance for plastic management

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



- Develop the structure, contents, timeline, and writing team for the next NPESR

Yokohama, Japan

PICES-2025

PICES Scientific Excellence – Science Board Symposium

S1. Innovative Approaches and Applications to Foster Resilience in North Pacific Ecosystems

1. PICES2023 ZP ECS Winner presentation

From dreaming to doing: My journey with mentors

Minkyung Kim

Department of Oceanography/ KNU G-LAMP Research Center,
Kyungpook National University, Korea.

2. PICES2024 ZP ECS Winner presentation

Raphael Roman

3. 2025 FUTURE ECOP SEES Winner presentation

Spatial transitions of coastal fishing infrastructure and socio-ecological systems in Hokkaidō, Japan

Nozomi Ihara, Takayuki Shiraiwa

Hokkaido University Graduate School of Environmental Science,
Japan

4. Near real-time monitoring from mobile oceanographic platforms for dynamic management of acoustically active taxa

Kimberley T.A. Davies et al.

University of New Brunswick, Canada.

5. Development of a deep learning-driven framework to analyze fishing vessel activities using automatic identification system data

(ECOP) Fangcheng Han, et al. Ocean University of China

6. *Effort in, assessment confidence out: Does survey effort matter to stock assessment outcomes*

(ECOP) Elizabeth Perl et al, ECS Federal contracted to NOAA Fisheries Office of Science and Technology, USA.

7. *Movement-informed projections of Bristol Bay red king crab predict seasonal shifts in distribution to inform spatial management decisions.*

(ECOP) Sean Hardison, University of Alaska Fairbanks, USA.

8. *“Salmon are life” - Indigenous knowledge and ecosystem stewardship along the Kuskokwim River*

Kevin Whitworth et al, Kuskokwim River Inter-Tribal Fish Commission, USA

9. **(ECOP) Recreational fisheries as indicators of change: Species range shifts from NOAA’s Marine Recreational Information Program paired with economic trends**

Rachel E. Roday et al., University of Delaware, USA.

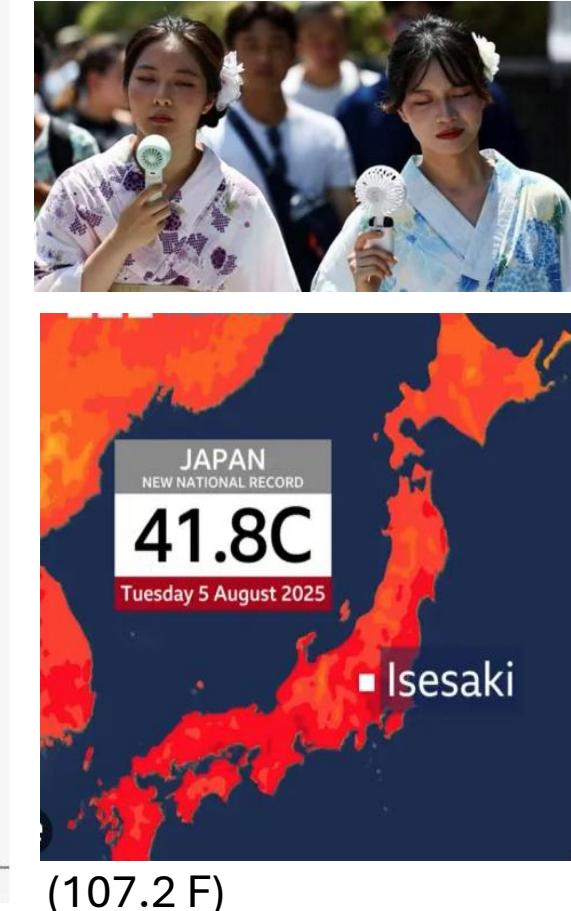
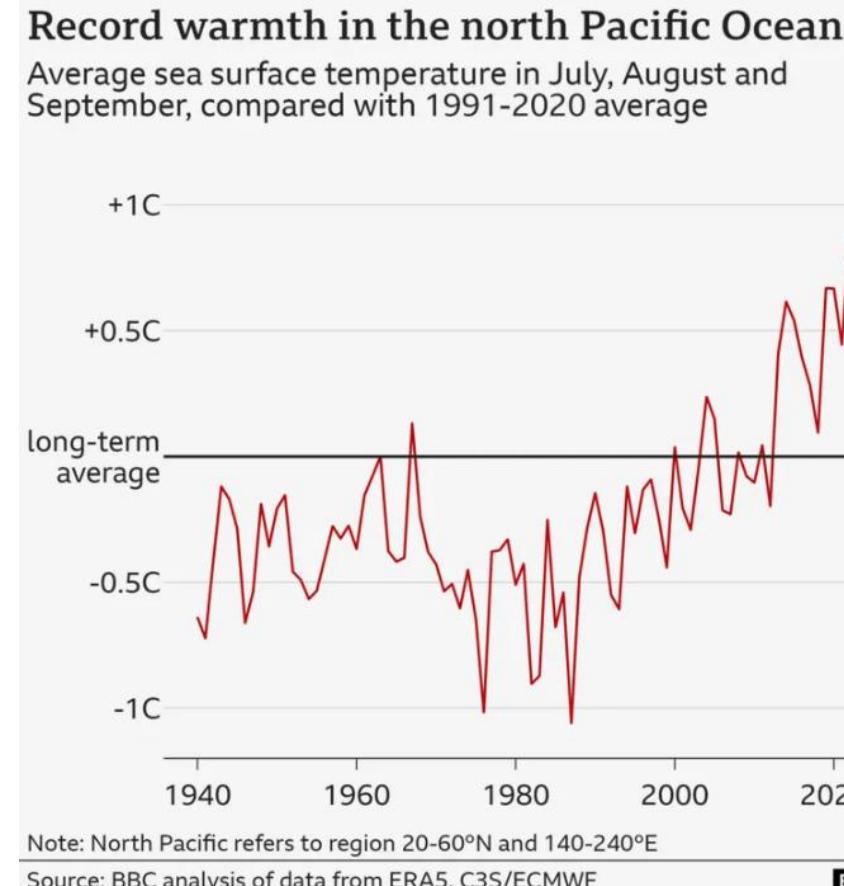
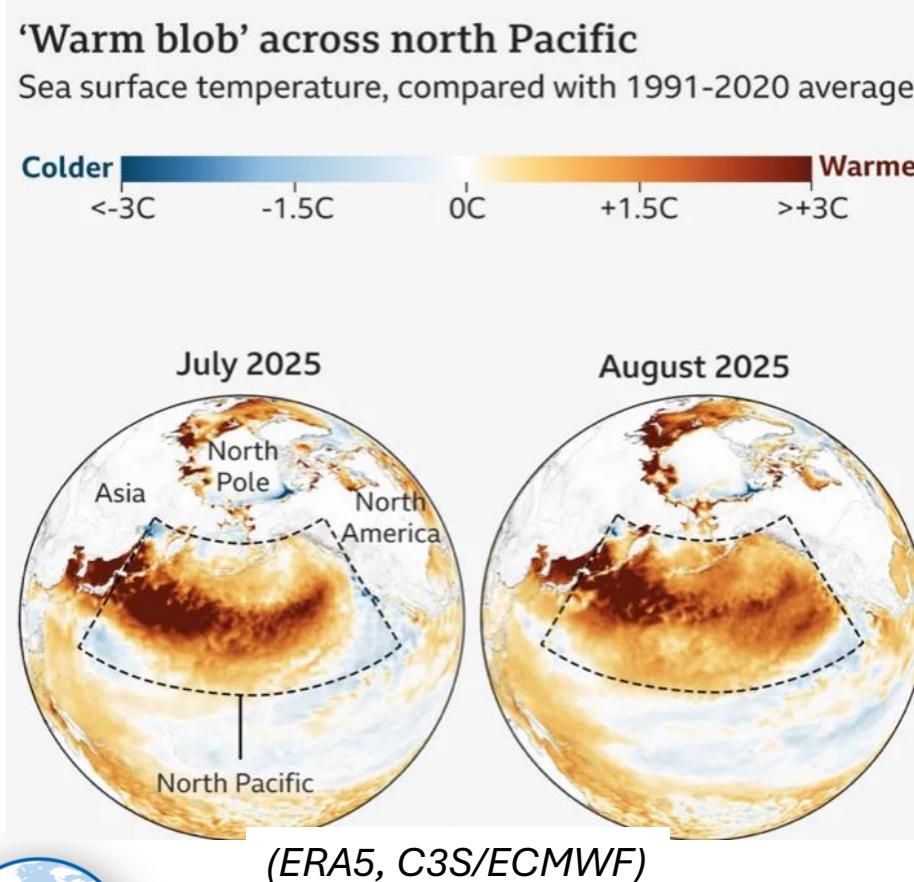
10. *Tritium in the western North Pacific: Natural tendencies and new challenges*

Vyacheslav Lobanov et al., V.I. Il’ichev Pacific Oceanological Institute, Far Eastern Branch, Russian Academy of Sciences, Russia.



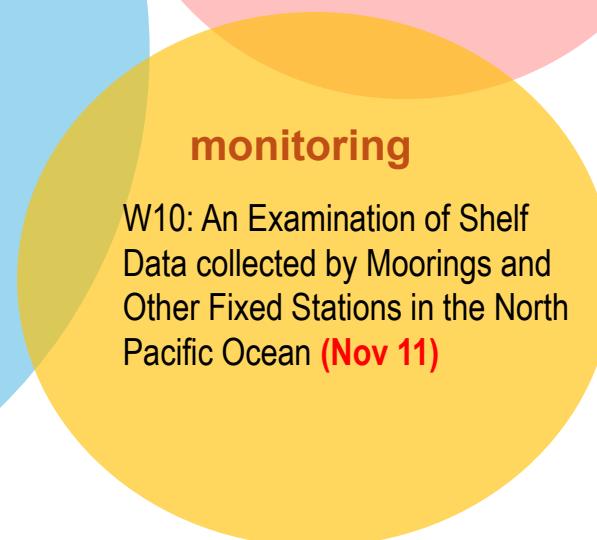
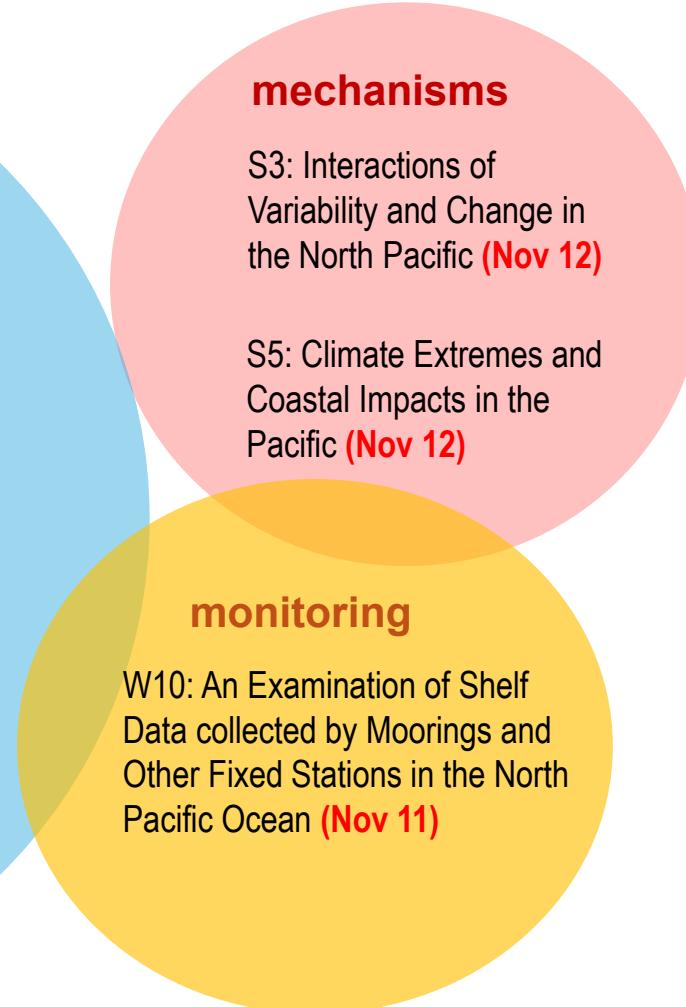
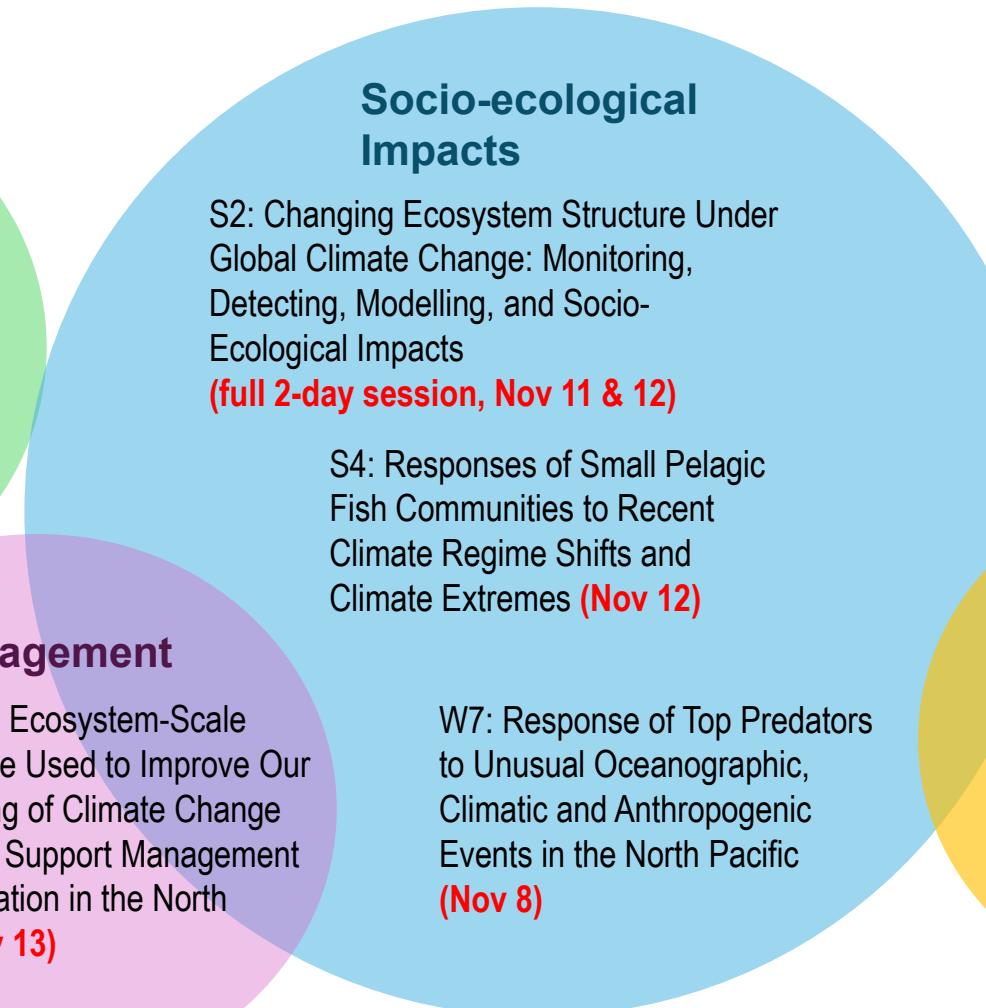
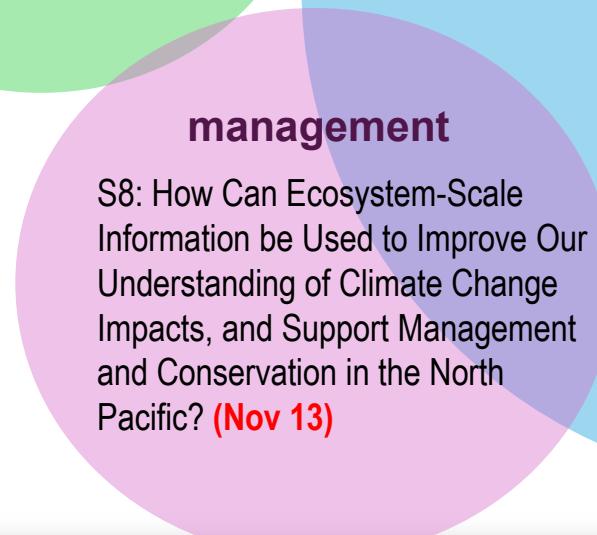
PICES Scientific Excellence – PICES-2025 Sessions

Mystery heatwave warms Pacific Ocean to new record (warmest summer SST on record in 2025)



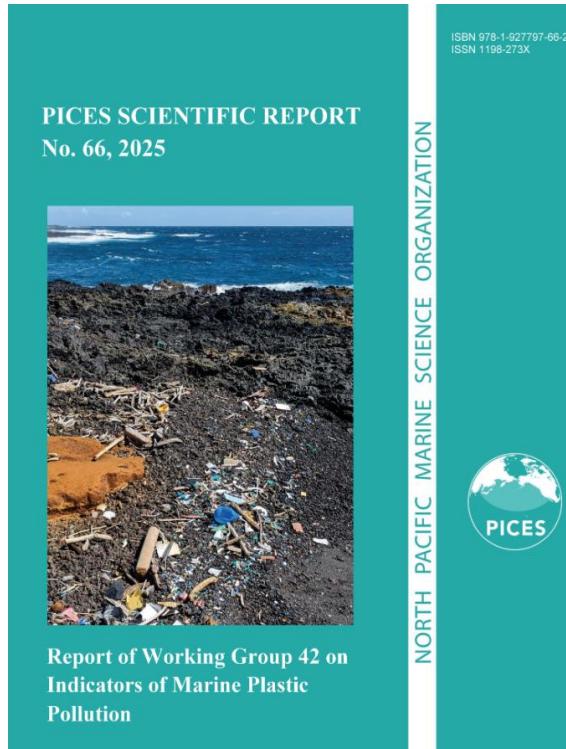
PICES Scientific Excellence – Sessions & Workshops

Climate Extreme = the hottest topics of PICES-2025

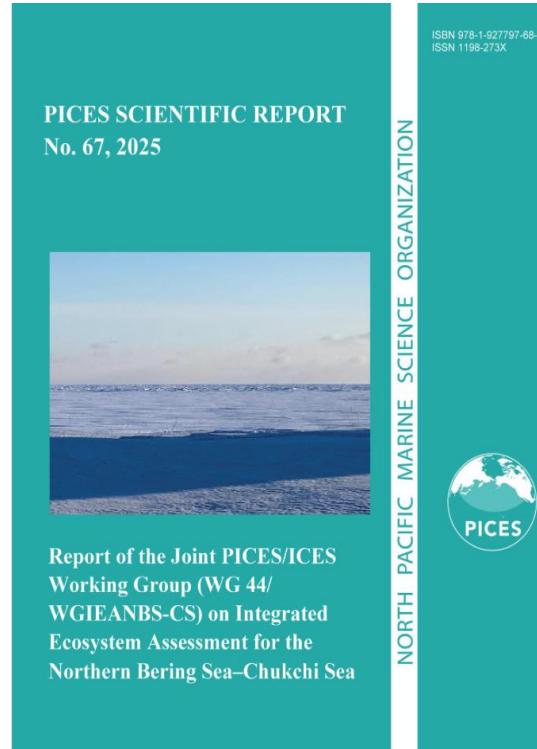


PICES Scientific Excellence - Publications

PICES Scientific Reports

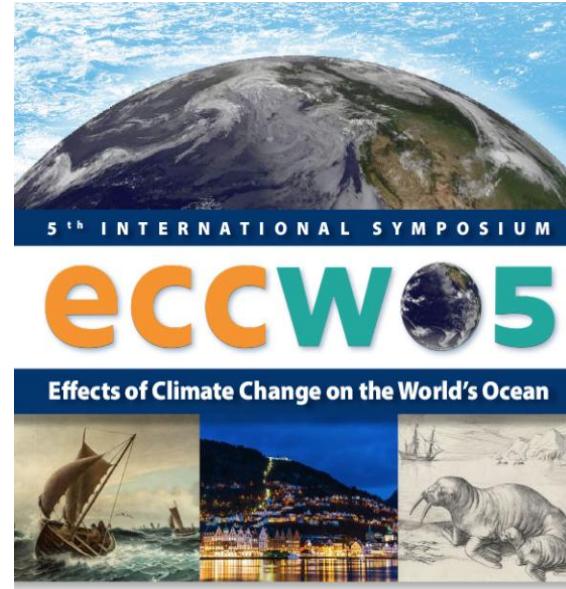


[Final Report of WG42:
WG on Indicators of Marine
plastic pollution](#)

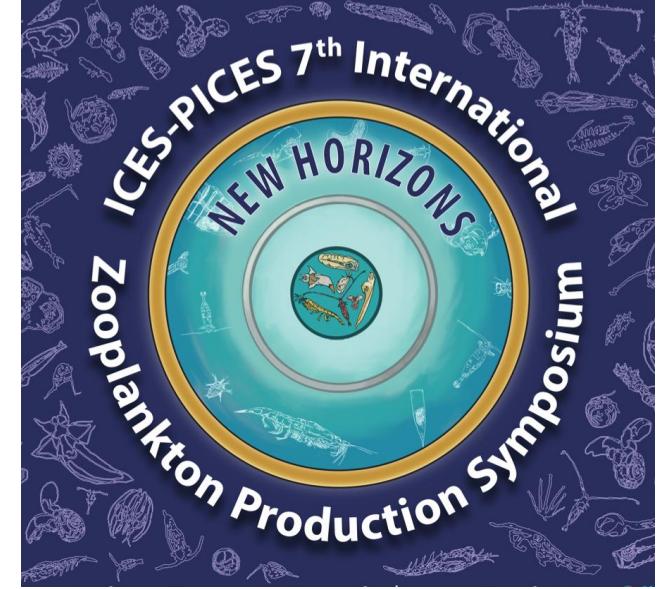


[Final Report of WG44:
Joint PICES/ICES WG on
Integrated Ecosystem
Assessment for the Northern
Bering Sea - Chukchi Sea](#)

PICES Co-organized Symposia Journal Special Issues



[Effects of Climate Change on
the World's Oceans
April 17–21, 2023, Bergen,
Norway](#)



[7th International Zooplankton
Production Symposium
March 17–22, 2024, Hobart,
Tasmania, Australia](#)

[ICES Journal of Marine Science
SPECIAL COLLECTION
ICES J. Mar. Sci., 2025, Vol. 82, Issue 1](#)

[ICES Journal of Marine Science
SPECIAL COLLECTION
ICES J. Mar. Sci., 2025, Vol. 82, Issues
1-7](#)



Upcoming International Symposia



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

May 4 – 8, 2026 | La Paz, Mexico



Food and Agriculture
Organization of the
United Nations

Endorsed by



United Nations Decade
of Ocean Science
for Sustainable Development

WG53: Joint ICES/PICES Working Group on Sustainable Pelagic Forage Communities served as SSC



8 – 14 November 2025

PICES-2025

Yokohama, Japan

Outreach and Engagement – AP-SciCom activities

Online Training Session: Presentation Skills for Ocean Scientists (September 2025)

For scientists to improve their presentation skills at international meetings, with a focus on methods to improve visual and verbal communication with those with differing first languages and interdisciplinary backgrounds.

- 47 participants from worldwide
- Panellists from 2024 ECOP Presentation Award winners
- Interactive activities: “You be the judge!”

A video recording of the training session is available on PICES website: YouTube @PICES_MarineSci.
Direct video link: <https://youtu.be/tHa-h6uw8mk>



8 – 14 November 2025

PICES-2025

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_HQbS0zsvr4mZXQ#/registration

OR
Scan the QR code:



Frequently asked questions:

Is the training required for PICES-2025 presenters? No, this training is completely optional.

Who can attend? This training is organized by PICES but it is open to ocean scientists from any region, organization, career stages, etc.

Is there a cost? This training is free to join with no cost.

North Pacific Marine Science Organization (PICES)
www.pices.int | +1-250-363-6366 | secretariat@pices.int



Yokohama, Japan

Outreach and Engagement – AP-SciCom activities

A Hands-on Science Communication Workshop at PICES-2025 @ 15:50-17:30, Nov 13 (Room Kujaku 2F)

Join us!

for a dynamic, hands-on workshop designed to help you communicate your research clearly and concisely—whether you're preparing a **factsheet**, speaking to decision-makers, or sharing your work with the public.

What you'll learn:

- Practical strategies for summarizing your science in plain language
- Personalized support from workshop leads to complete your own science summary
- This workshop is perfect for researchers who want to make their work more accessible, impactful, and ready for broader audiences.

RESEARCH GROUP

Rich Fisheries Environment Promotion in Ise-Mikawa Bay

Developing effective nutrient management measures based on the characteristics of the bay for sustainable fisheries and aquaculture.



Ise-Mikawa Bay

This semi-closed area, consists of inner bays and inland seas, and is historically known as a highly productive area for fisheries and aquaculture. In more recent years, a high economic growth period allowed for increased water discharged from urban and industry activities, resulting in eutrophication and pollution of the bay. Since then, measures to reduce the pollutants have been promoted, and water quality has improved significantly. Societal issues related to nutrients and organic matter in coastal areas have shifted from pollution to reduction to proper management.

The Issues

Noticeable ocean changes became a problem throughout the bay, including significant declines in nutrients, total nitrogen, and total phosphorus, as well as increases in water temperature. The benthic species have changed from bivalve and seaweed to low-value species. There is still a major problem with investigating the plankton function, and then we use the results to manage nutrients.

Current Work

- Investigation on long-term changes of marine environment and lower trophic level ecosystems in Ise-Mikawa Bay
- Development of evaluation methods for the influence of the inner bay on bivalve and seaweed production
- Consideration on proper nutrient management measures based on the characteristics of the bay using ecosystem models in order to maintain sustainable fisheries and aquaculture in the rich sea

What Project?

The Rich Fisheries Environment Promotion Project in Ise-Mikawa Bay is a joint research partnership with regional fisheries and aquaculture research institute, which has close ties with local fishermen and aquaculture farmers.

Contact:
Sayaka Sogawa
sogawa_sayaka51@fra.go.jp

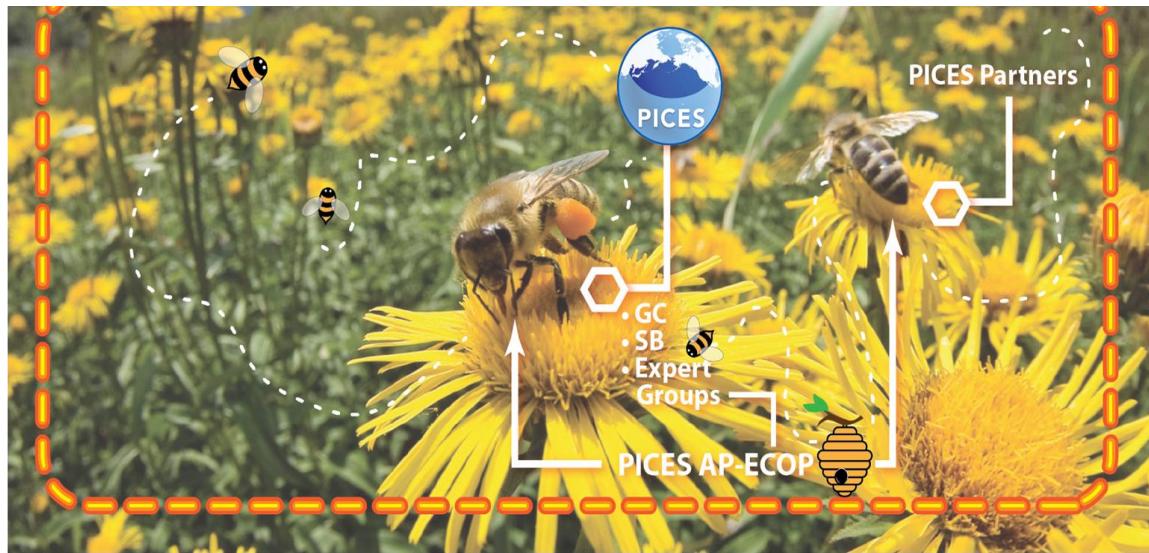
PICES - The North Pacific Marine Science Organization | Secretariat c/o Institute of Ocean Sciences
9860 West Saanich Road, Sidney, BC, Canada V8L 4B

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



PICES Capacity Development Framework - AP-ECOP

The “Cross-Pollinators”



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Yokohama, Japan

PICES 2025: ECOP organized events (on-site)

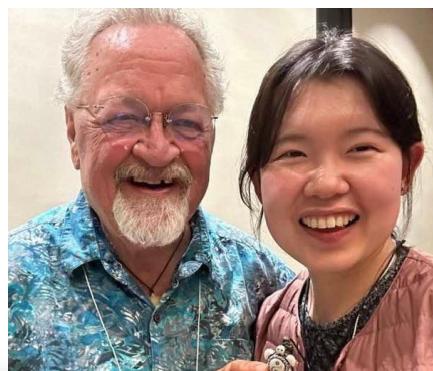
Introduction to PICES

@ 15:50-17:30, Nov 11 (Room: Kujaku 2F)

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)



*This became the regular PICES event since PICES-2023.
Mentors & Mentees were pre-registered for the event and have been ready for communication before PICES-2025.

PICES Capacity Development Framework – AP-ECOP

PICES 2025:
ECOP-organized
Side Events
Nov. 8 and Nov. 14



8 – 14 November 2025

PICES-2025



PICES-2025 Yokohama
Japan

ECOPs tour to Yokohama Marine Park Visit and Seagrass Sowing

This tour offers Early Career Ocean Professionals (ECOPs) a unique opportunity to visit the Yokohama Marine Park and talk with local managers. Participants also can join a seagrass sowing event hosted by Tokyo Gas and learn about the marine biodiversity and the importance of marine conservation through real experience. We hope you can join us!

WHEN: Saturday, November 8, 2025 @ 10:00am–5:00pm
Meeting at 9:00 am at the PICES 2025 venue.
(Participants will travel together by chartered bus)

WHERE: Yokohama Marine Park (Yokohama)

Register Here:
<https://forms.office.com/r/NVjfyKABnP>

Max 25 participants!



This event is supported by
the Nippon Foundation and
Japan Society of Ocean Policy



See PICES 2025
meeting website for:

- Detailed itinerary
- Event sign-up
- Transportation info

www.pices.int



PICES-2025 Yokohama
Japan

ECOPs tour to JAMSTEC Research Facilities

This tour offers Early Career Ocean Professionals (ECOPs) a unique opportunity to explore JAMSTEC's cutting-edge research facilities, learn about the roles of JAMSTEC, FRA, and OPRI through presentations by ECOPs working at these institutes, share individual research and career stories, and build lasting networks through knowledge exchange and open discussion. We hope you can join us!

WHEN: Thursday, November 14, 2025 @ 1:30pm–5:30pm
WHERE: JAMSTEC (Yokosuka)
Transportation will be provided from the PICES venue.

Register Here:
<https://forms.office.com/r/ypH9A5R1Fa>

Max 25 participants!



This event is supported by
the Nippon Foundation and
Japan Society of Ocean Policy



See PICES 2025
meeting website for:

- Detailed itinerary
- Event sign-up
- Transportation info

www.pices.int



Yokohama, Japan

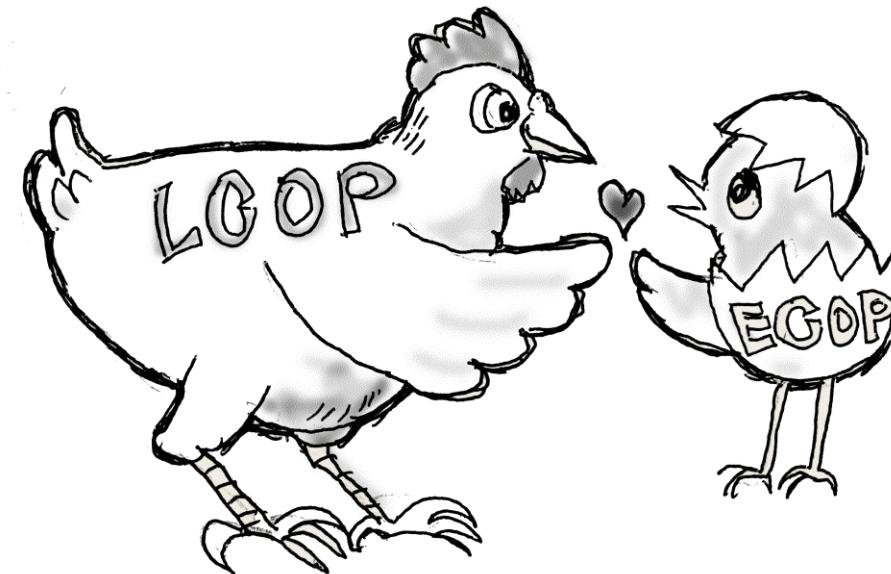
PICES Capacity Development Framework – AP-ECOP

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 Expert Groups and AP-ECOPs.



PICES Capacity Development Framework – Travel Support

PICES-2025



PICES scheme supported travels of **26** ECOPs (more are supported by member countries' schemes)



Capacity development events and meetings of partner organizations, etc.

June 2025	APN proposal development training workshop, Jeju, Korea	2 ECOPs (Japan, Russia)
June 2025	One Ocean Science Conference, Nice, France	2 ECOPs (Canada, USA)
October 2025	12th International Conference on Marine Bioinvasions (ICMB XII), Madera, Portugal	2 ECOPs (Canada, USA)
November 2025	GOOD-OARS Summer School 2025, Penang, Malaysia	2 ECOPs (In preparation)

PICES Capacity Development Framework – Intern Program

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

2000~



Sept 2025~

Yoho Saito (the first intern from Japan)



8 – 14 November 2025

PICES-2025

Yokohama, Japan

PICES Collaborations & Partnerships

International/regional organization partners and collaborators



Observer participants
from 14 partners at
PICES-2025;
7 partners co-sponsor
Sessions/Workshops



Congratulations on TINRO's 100th Anniversary (Sept 2025)



Has conducted ecosystem-based fisheries research of more than 600 units of stocks and contributed to advancing forecasting and monitoring of fisheries resources in the Far East North Pacific.

Over 70 years of International cooperation with the Asia-Pacific countries in the field of fisheries.

Providing Integrated assessments of the ecological capacity of coastal waters and recommendations for their use for the harmonious development of economic sectors related to the sea.



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PICES-2025

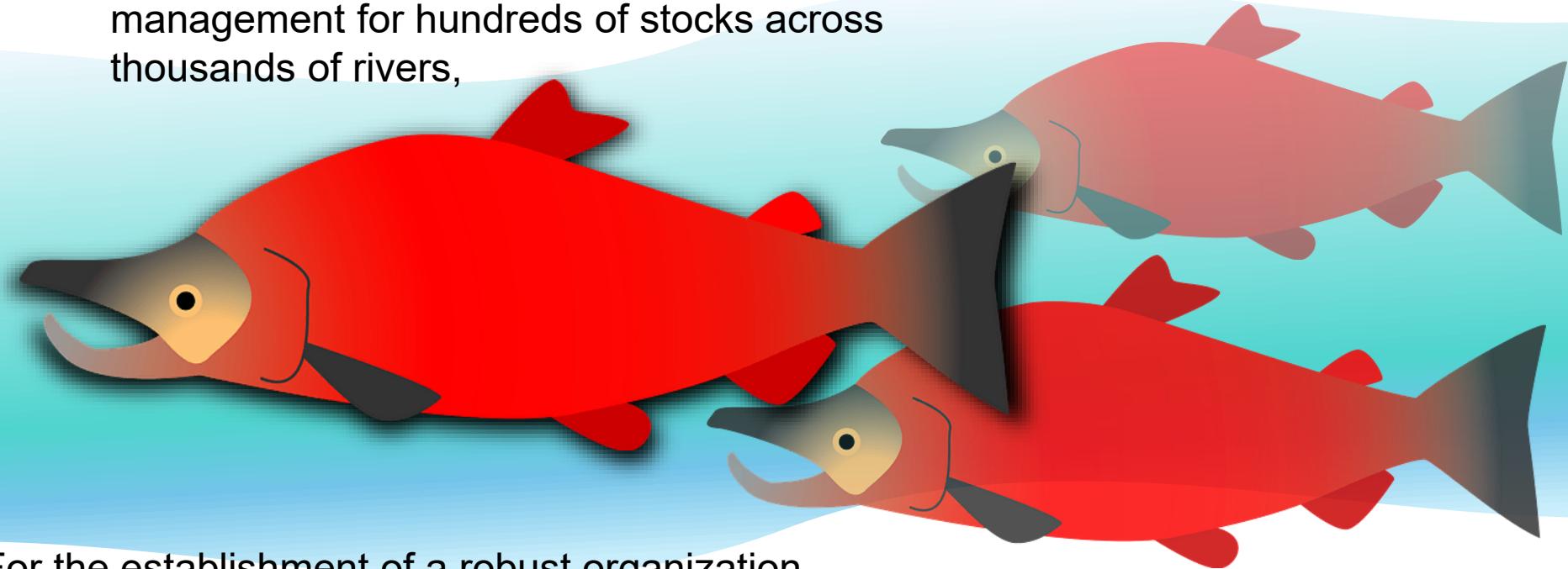
Yokohama, Japan

Congratulations on 40th Anniversary of the Pacific Salmon Treaty



Decades of contribution to better salmon fisheries management in the eastern North Pacific

For the adoption of abundance-based management for hundreds of stocks across thousands of rivers,



For the establishment of a robust organization representing all sectors from indigenous and non-indigenous society.



In Memorial

Ichiro Imai

January 6, 1953 - April 21, 2025

- Member of PICES S-HAB (2000-2019)
- Council member of the International Society for the Study of Harmful Algae (ISSHA) Council member (2008-2012, 2016-2025)

"I have a great job and am blessed with the opportunity to do exciting research, supported by a long list of smart, talented, and hard-working students and collaborators. My successes are theirs as well."

Ichiro dedicated his professional life for studying Harmful Algae and nurturing young scientists in the area. His primary objective was to create an environmentally-friendly control methods against HABs to reduce the hardships faced by fishermen.



8 – 14 November 2025

PICES-2025

Yokohama, Japan

In Memorial

Adi Kellermann

January 6, 1953 – February 2025

Head of The International Council for the Exploration of the Sea (ICES) Science Programme (2004 - 2016)

Adi was an advocate for open dialogue and scientific progress through international partnerships. He developed closer cooperation between ICES and PICES, when PICES was still young as an intergovernmental organization, leading the initiation of ICES-PICES Early Career Scientist Conference series in 2007.

“In hindsight, I found that there were people in our business that you worked with because you had to and people you worked with because you wanted to. Adi fell among the latter.” (by Skip McKinnell, Former PICES Deputy Executive Secretary)



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PICES-2025

Yokohama, Japan

In Memorial

Daniel Lew

September 23, 1972 - March 22, 2025

- Applied economist, Alaska Fisheries Science Centre, NOAA (2003-2025)
- Member of PICES WG41: Marine Ecosystem Services (2017-2021)
- Member of PICES WG49: Climate Extremes and Coastal Impacts in the Pacific

Dan's friends in PICES remember him for his warm personality and hard work, always inspiring, encouraging and supportive of ECOPs.

“...He encouraged us to take on important parts of the work, providing his expertise as a support for us. he was clearly trying to support our development as scientists by allowing us to lead.....” (Helen Killeen, ECOP, WG49 co-chair)



In Memorial

Kazuko Odate

July 9, 1932 - August 13, 2025

Former researcher at the Tohoku National Fisheries Research Institute, Japan

Joining the institute in 1950, when female ocean scientists were rare in Japan, Kazuko had dedicated herself to studying zooplankton for 42 years. She collated more than 20,000 samples, which is globally known as the ODATE Collection. Her pioneering work later helped PICES scientists reveal long-term variations in zooplankton, providing critical insight into climate impacts on marine ecosystems and fisheries in the western North Pacific. Kazuko's contributions earned international recognition, and the ODATE Collection and the succeeding monitoring efforts by the institute won the 2022 PICES POMA Award.



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PICES-2025

Yokohama, Japan

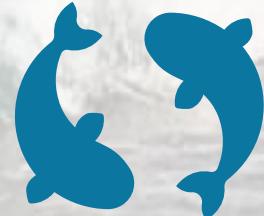
Thank you to everyone who made PICES-2025 happen!

Local Organizing Committee

Hiroshi Nishida
Takashi Kamaishi
Ryuji Kuwahara
Shinji Uehara
Masaaki Fukuwaka
Yasutaka Okamoto
Manabu Shimizu
Hiroyuki Okamoto

Kameda Takahiko
Yutaka Hiroe
Yosuke Tanaka
Kengo Suzuki
Daisuke Arai
Tomonori Hamatsu
Hiroshi Namba
Manabu Kimura

Shinichi Koshida
Hiroaki Kurogi
Shiroh Yonezaki
Mikio Watai
Tsuneo Ono
Shingo Minamikawa
Kazuhiro Oshima
Yuuho Yamashita



PICES Secretariat Staff

Sonia Batten
Sanae Chiba
Julia Yazvenko
Saeseul Kim
Susan Hannah

Devon Warawa
Alexander Bychkov
Rosalie Rutka
Robin Brown (Emeritus)
Yoho Saito



PICES-2025

Opening Session Closing Remarks

Sanae Chiba

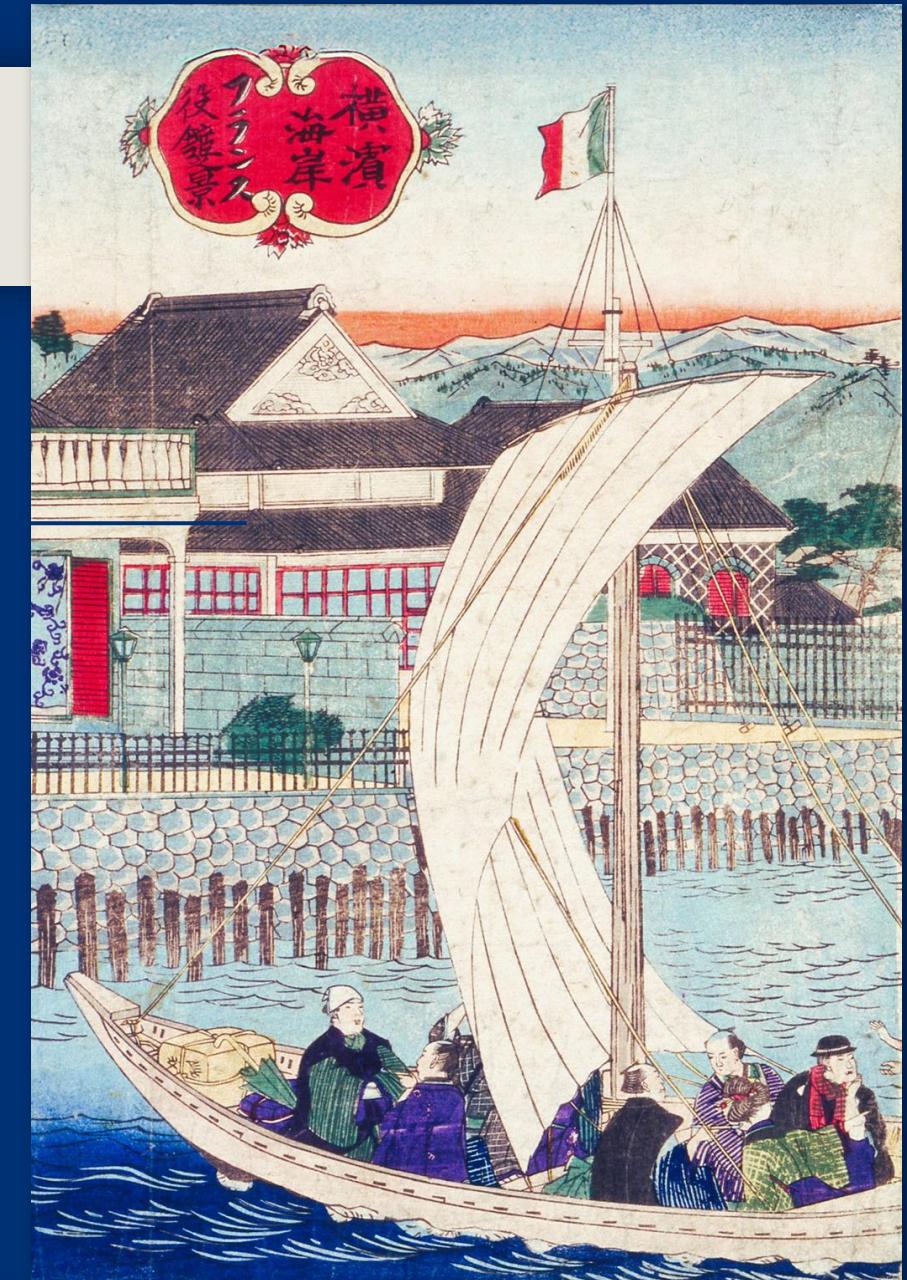
PICES Deputy Executive Secretary

Tips to make your
days easier
at PICES-2025



8 – 14 November 2025

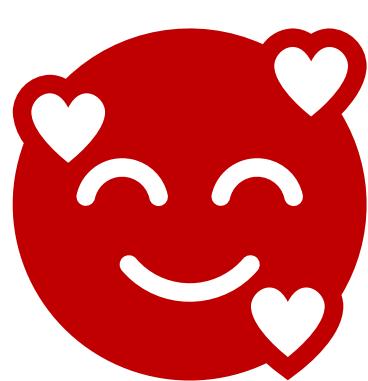
PICES-2025



Yokohama, Japan

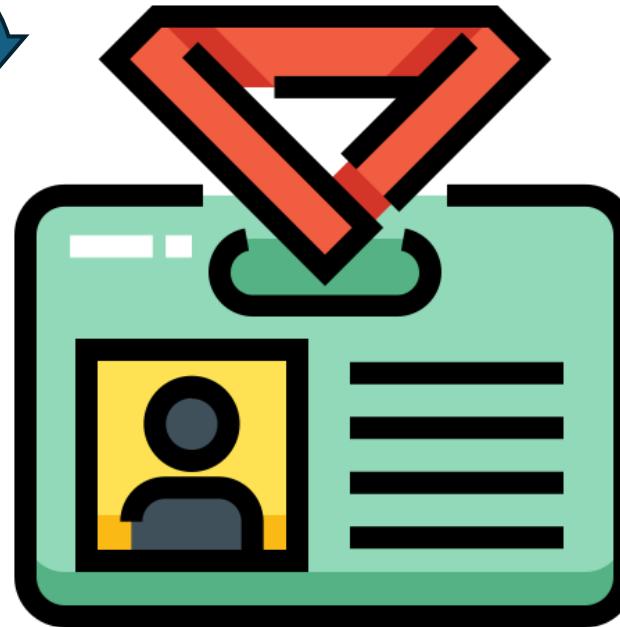
Essentials to Survive

Your name tag is your passport



GOOD NEWS!

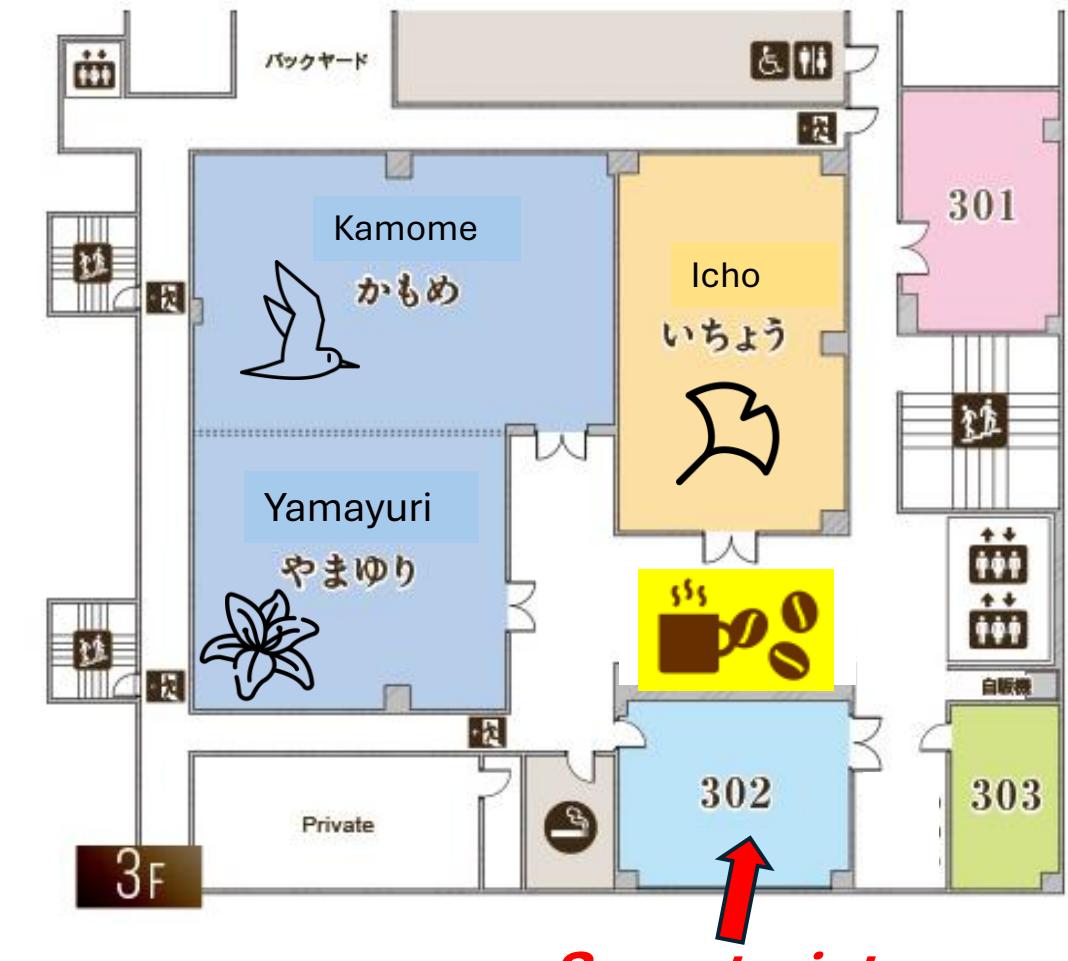
No drink tickets required
for the Welcome reception
and Poster Session



Wear your name tag at
Workpia and at the social
and side event venues



Floor Map: Workpia 2F & 3F

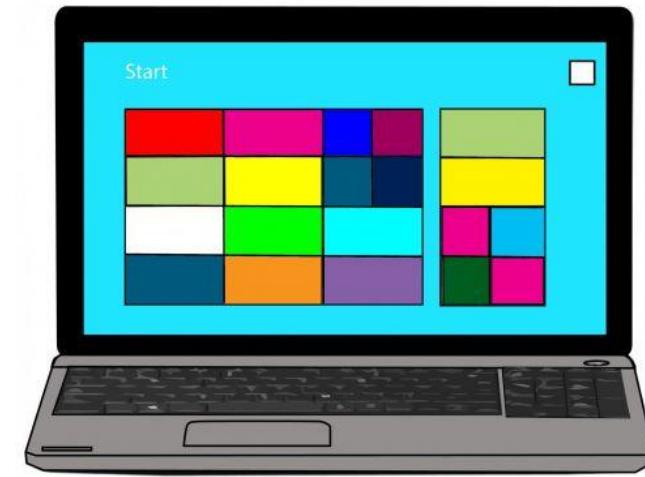


Whova helps

Use **Whova** for planning your schedules, latest updates, social events, side events, session poll, etc.



Or



Take candid photos, and post them on



Welcome Reception

18:30-20:30 **TODAY!**
at **Osanbashi Hall** (15 min walk from Workpia)



Local university students organize an event to introduce marine conservation efforts by the City of Yokohama.



横浜市



8 – 14 November 2025

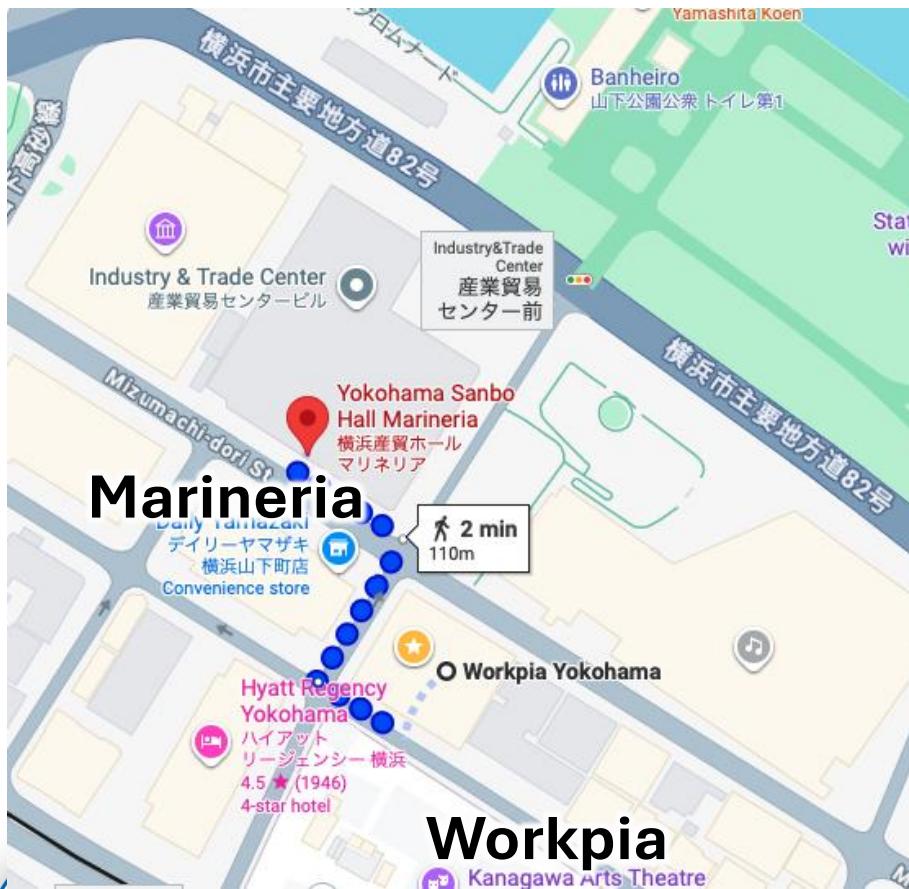
PICES-2025

Yokohama, Japan



Poster Session

18:00-20:30 November 12
at Marineria (2 min walk from Workpia)



with Light snacks and drinks



Don't forget,
It's Wednesday!!



8 – 14 November 2025

PICES-2025

Yokohama, Japan

Poster Session

18:00-20:30 November 12 (Wednesday)

- Mount your poster for **1-2 PM** on Nov 11 (Tue)
- Attend at your poster for **6:30- 7:30 PM** during **Poster Session**.
- Take down the poster before **2 PM** on Nov 13

Posters are available for viewing on:

Nov 11 (14:00-17:00)

Nov 12 (09:00-20:30)

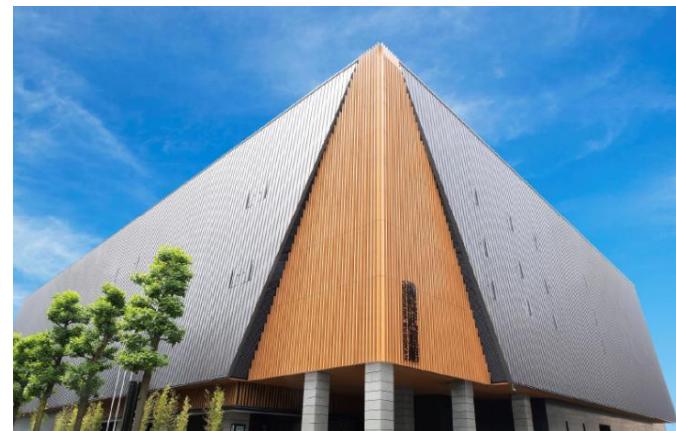
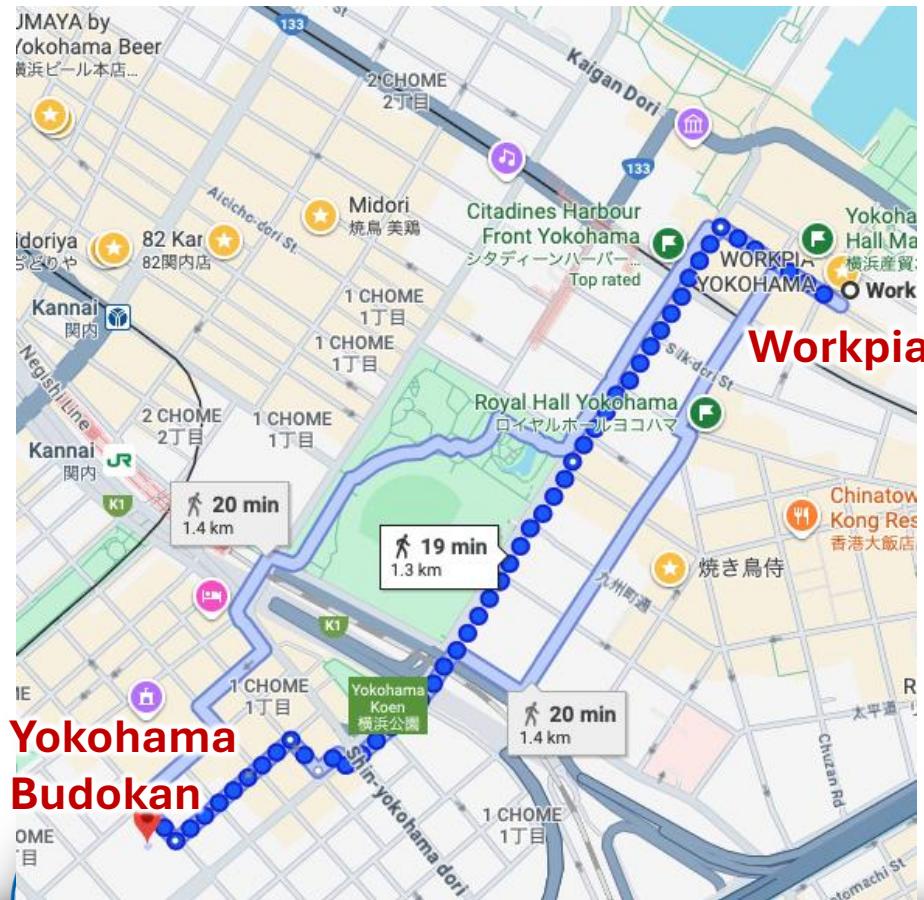
Nov 13 (09:00-13:00)



PICES Sports Event is Back!



18:00-19:45 November 13 (Thursday)
at **Yokohama Budokan** (18-20 min walk from Workpia)



- No reservation needed (just go to the place)
- Light snack and non-alcohol beverages are served



PICES Sports Event is Back!



18:00-19:45 November 13 (Thursday)

at **Yokohama Budokan** (18-20 min walk from Workpia)



...Because Budokan is a special place for Japanese traditional martial arts

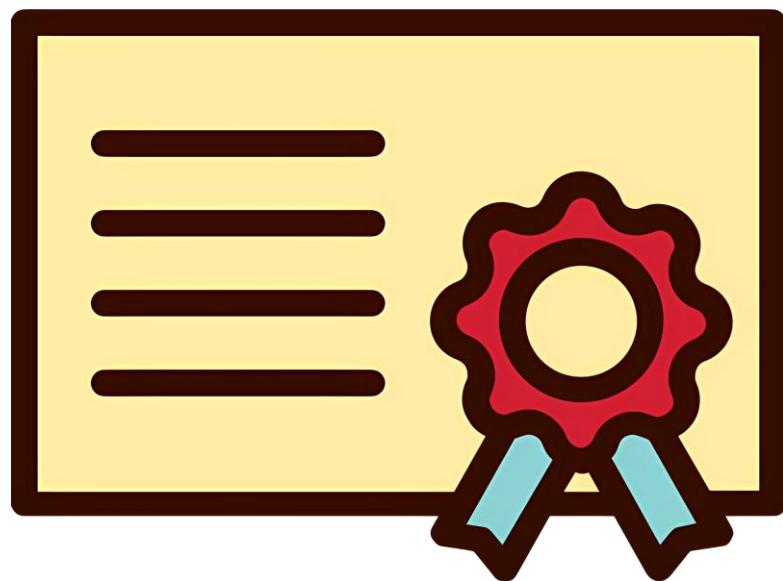


Please respect the rules

- **Take off your shoes** at the gate to the martial arts hall and put them in the shoe locker
- Eating and drinking are allowed **only in the spectator seats**.

Closing Session

12:15 – 13:00: Nov 14 (Fri)

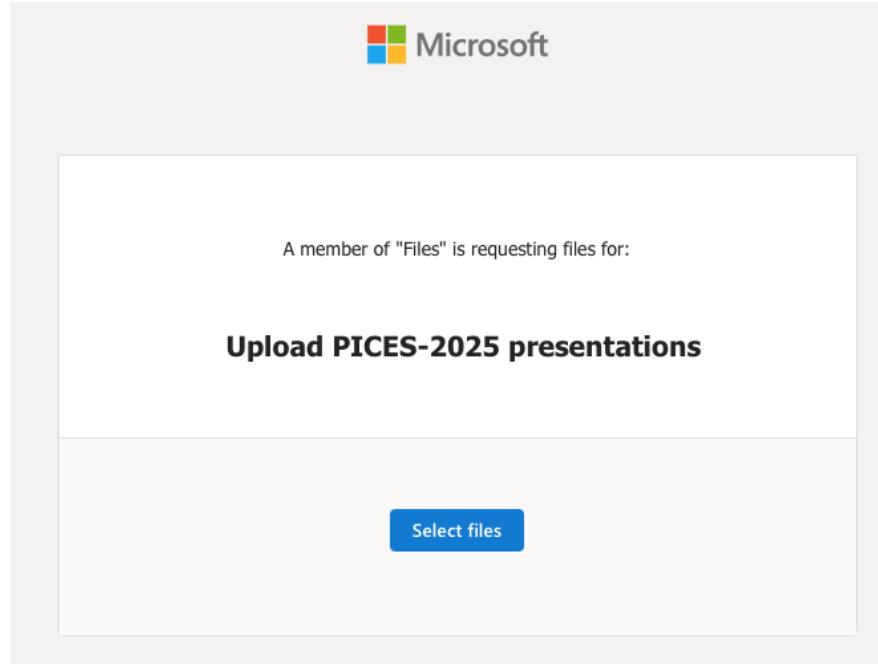


Don't miss!

ECOP
Presentation
Awardees will
be announced.

Upload your Presentation File

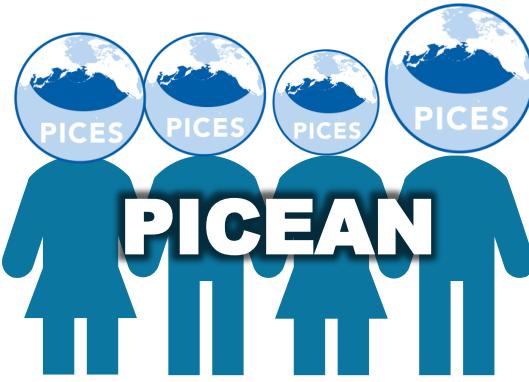
Upload your presentation file **48 hr** before your Session through the link mailed to you.



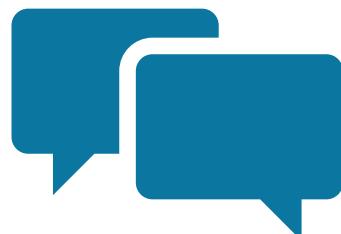
If you have an issue in uploading, please see
Ms. Julia Yazvenko at Secretariat Room (302)



We are Family, We are PICEAN



Celebrate diversity
and
Communicate thoughtfully



8 – 14 November 2025

PICES-2025

Yokohama, Japan

Coffee time ☺

*Please return to the room before **10:55** for Keynote presentation*



"What have we done and where should we go?- The role of PICES for the North Pacific marine science and human well-being"



by Hiroaki Saito



PICES - 2025 Keynote

Hiroaki Saito

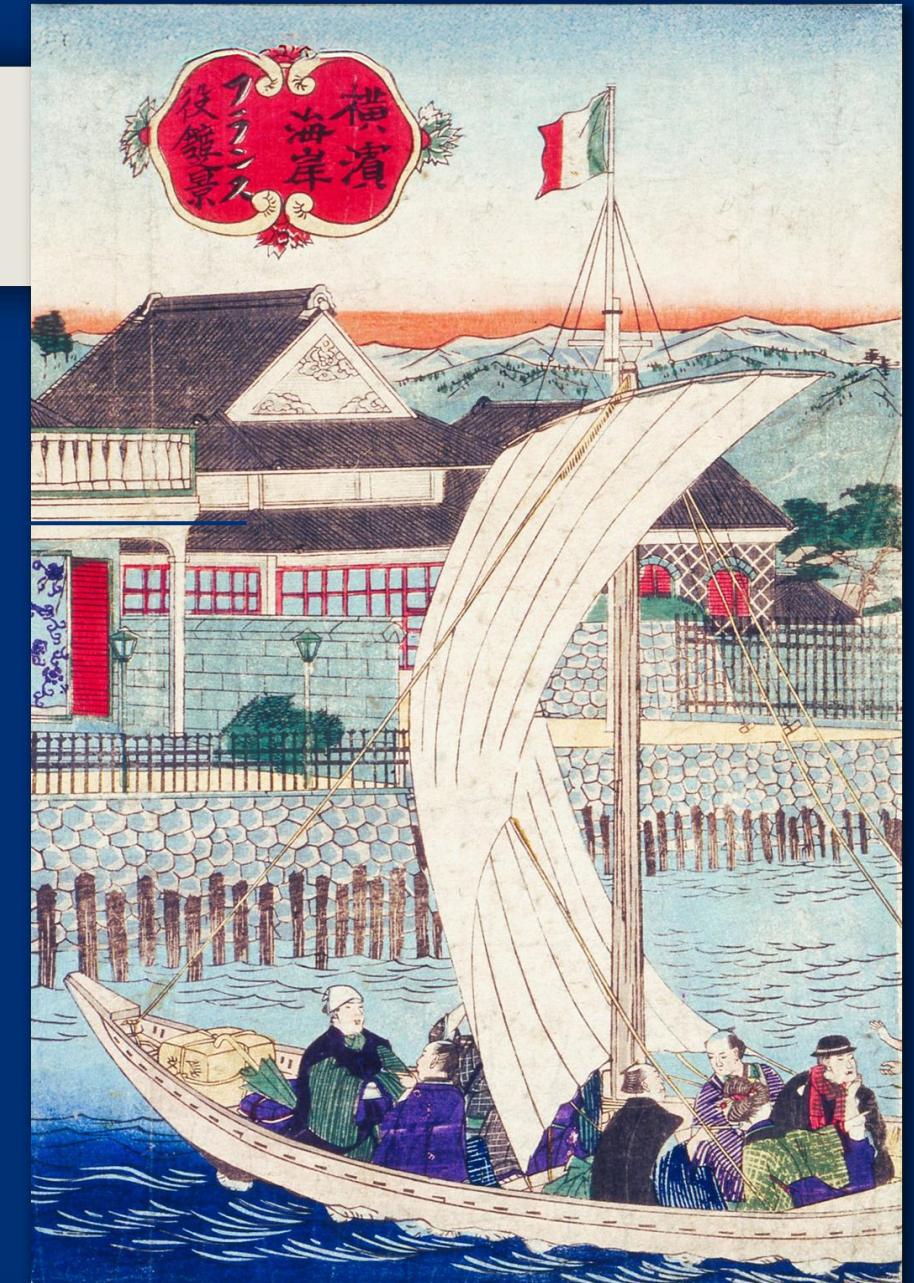
Director

Center for International Research Collaboration,
Atmosphere, and Ocean Research Institute
The University of Tokyo



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Yokohama, Japan