



FUTURE Symposium
28 October 2024
Honolulu, USA

Prepared by:

Hannah Lachance, Raphael Roman
Hana Matsubara & Minkyong Kim



Early Career Ocean Professionals in PICES

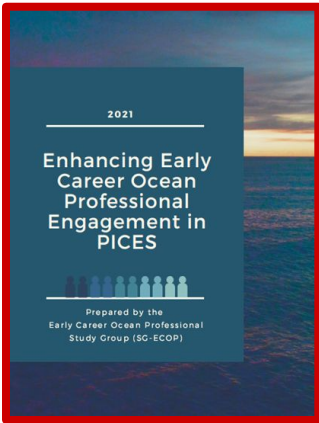
What is an ECOP?

ECOP = Early Career Ocean Professional

New definition adopted by PICES in 2022 ([GC2022/S/11](#)):

*“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”*

Origin Story of ECOPs - Study Group (2020-2022)



★ 2021 Report ★

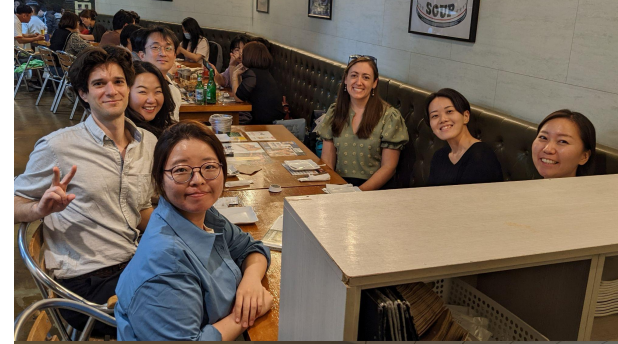
- ❖ Establish and cultivate an inclusive ECOP community. Incorporate a greater number of disciplines and sectors and sustain long-term engagement within the PICES structure.
- ❖ Train the next generation of ocean leaders and nurture their leadership and communication skills, as well as cultural literacy.
- ❖ Foster intergenerational exchanges and establish a PICES mentorship program.
- ❖ Strengthen relationships with organizations outside of the North Pacific (e.g. APN) and engage ECOPs in new international initiatives.



“Share PICES Science with the world!”

PICES AP-ECOP: Cross-Pollinators

1. Engage ECOPs through professional opportunities in expert groups, scientific programs, and other aspects of PICES structure,
2. Recruit diverse ECOPs through revitalized communications and existing networks,
3. Foster intergenerational exchanges through mentorship programs and activities (active since 2023),
4. Strengthen collaborations with other early career networks (UN Ocean Decade-endorsed ECOP Programme, ICES SIIECS)
5. Coordinate ECOP activities, workshops, trainings, and networking sessions, including during high-level international conferences.



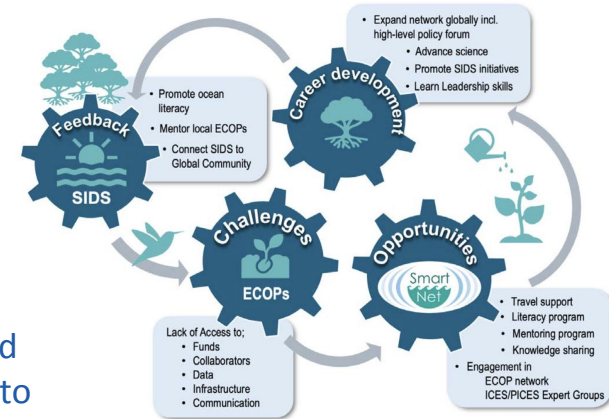
Funding & Mentorship Support from FUTURE

- FUTURE members have been intentional in supporting ECOPs and empowering their ideas and perspectives.
- FUTURE Mentors are an integral part of our AP-ECOP group, regularly joining our meetings, providing feedback, and sponsoring travel for ECOPs.

- Active ECOPs are also invited to co-author important publications led by FUTURE members. Some publications originate from previous workshops or brainstorming sessions, like the one below.



Knowledge Sharing and
Capacity Development to
Promote ECOPS in Small
Island Developing States



Chiba et al. (2024)



Ocean Decade Conference - Barcelona:

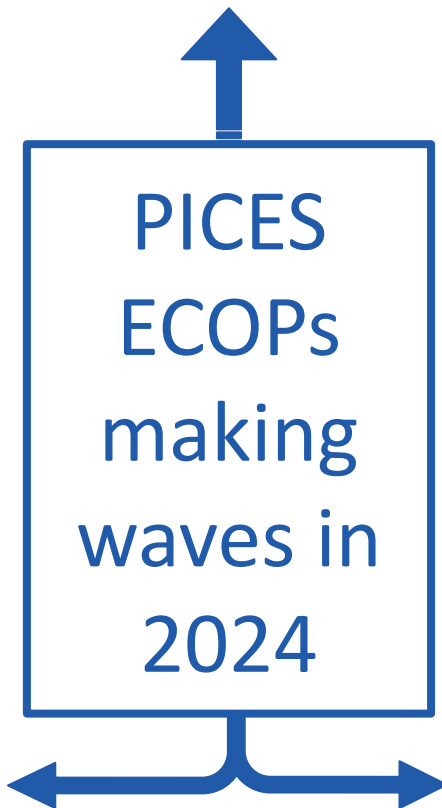
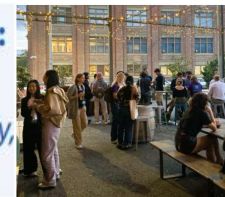
PICES ECOPs at The Barcelona Conference of The UN Decade of Ocean Science for Sustainable Development

Khushboo Jhugroo, Naya Sena, Raphael Roman, and Steven J. Bograd



7th International Zooplankton Production Symposium: ECOP Experience

Alexis Bahl, Patrick Pata, Junya Hirai, Andreas Novotny, and Jeong-Hyun Kim



MSEAS 2024:

Workshop for ECOPs - "An Evening with the Global Ocean"

Hana Matsubara, Olivier Thébaud, Jake Rice, Stewart Frusher, and H  l  ne Buchholzer



Task Team: ECOP Reporting & Demographic Data

ECOP Survey to enhance data collection (2023-2024)

To facilitate a more accurate and representative assessment of ECOPs attending PICES-sponsored conferences:



191 in-person ECOPs (41%)
(Norway, 2023)



256 ECOPs (38%)
(USA, 2023)

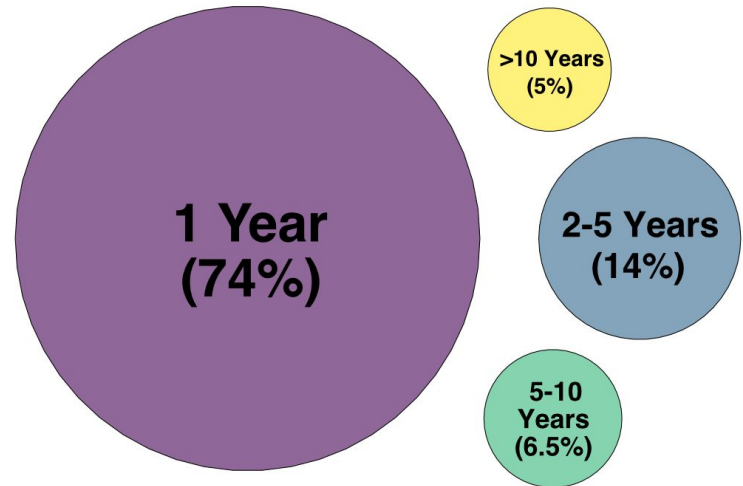


149 ECOPs (47%)
(Tasmania, 2024)



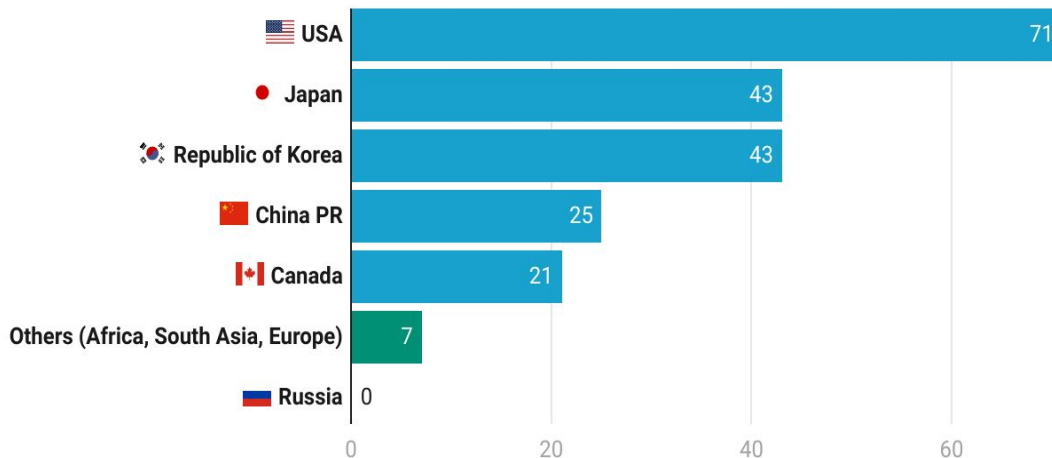
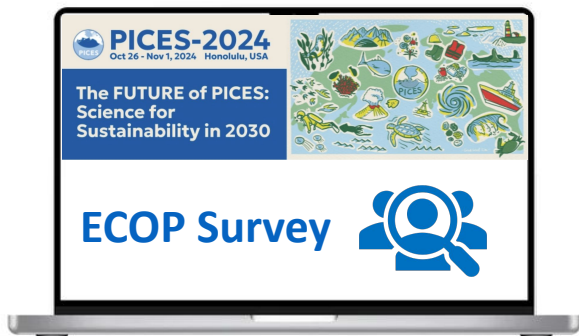
105 ECOPs (53%)
(Japan, 2024)

For how many years have ECOP respondents been attending PICES-sponsored events?



Lots of Newcomers!

210 ECOPs registered for this conference (40%)



6.2%

are co-convening a session or workshop

5%

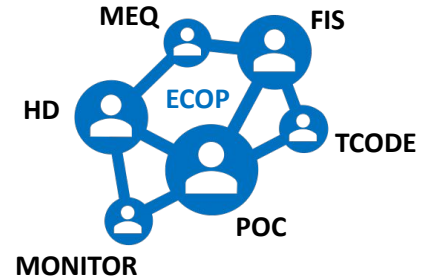
are invited speakers

14.7%

are members of PICES Expert Groups

ECOP Membership across Expert Groups

Starting in 2023, all PICES Expert Groups are now requested to list their ECOP members when filling out their annual activity report to Science Board. This will help AP-ECOP gain a better understanding of the distribution of ECOPs in PICES and connect with them.



Types of Expert Groups	No. of groups	Groups engaging ECOPs	%
Advisory Panel	6	5	83%
Section	4	2	50%
Study Group	3	2	63%
Working Group	10	5	50%
Science Committee	7	2	30%
Scientific Program	1	1	100%
Total	31	17	55%

Task Team: Mentorship

PICES 2023 (59 responses)

-Photo competition : everybody won!



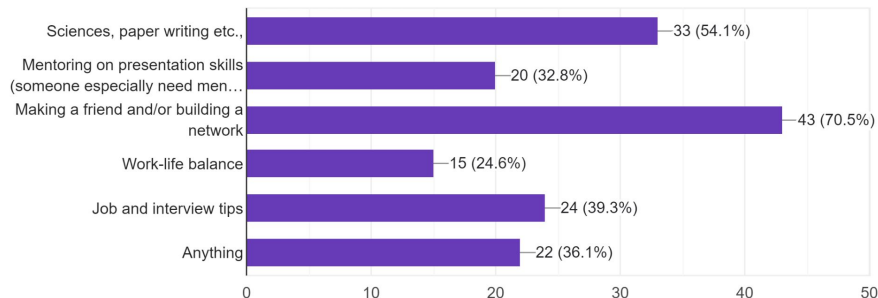
PICES 2024 (61 responses)

-Stickers for mentors/mentees

-Group Photo

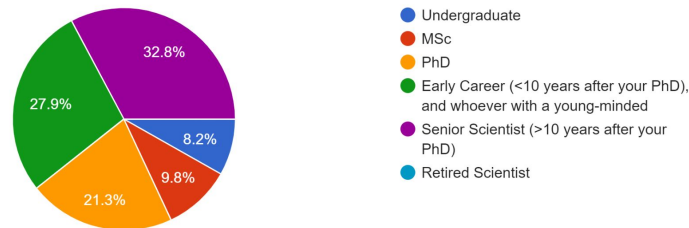
Please choose the mentorship topic you are especially interested in

응답 61개



Please choose your career stage/current degree

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Officially endorsed by:



2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development


Supported by:



ECOP

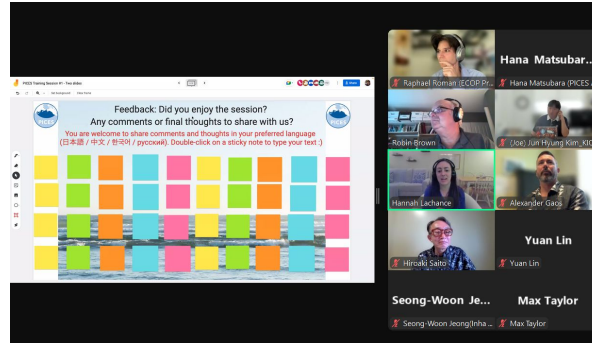
2024 PICES Training Series

International Open Science Training

- **Objective:** Promote intercultural dialogue and explore various facets of international collaboration through three sessions on Science Diplomacy, Data Management, and Communications.
- **No. of participants who registered: 445 / Total attendees: 214**
 - Coming from all over the world! 
- **4 panelists per session** (2 each from west/east side of North Pacific)
- **Four ECOP volunteers** were nominated as travel grantees and supported each session as notetakers, co-moderators, etc.



Recordings & Materials are available on AP-ECOP webpage!



International Open Science Training

Join us for this **FREE** 3 day, interactive training series to learn about:



International Collaboration/ Science Diplomacy

September 26 @ 4-6 pm PDT (Pacific Daylight Time)
September 27 @ 8-10 am JST (Japan Standard Time)

Apply from the QR code or here: <https://tinyurl.com/5af6vexz>



International Data Management

September 30 @ 6-8 pm PDT (Pacific Daylight Time)
October 1 @ 10am-12pm JST (Japan Standard Time)

Apply from the QR code or here: <https://tinyurl.com/25nfd6k>



Science Communication

October 9 @ 5-7 pm PDT (Pacific Daylight Time)
October 10 @ 9-11 am JST (Japan Standard Time)

Apply from the QR code or here: <https://tinyurl.com/458bbhmt>



Please register for the sessions you would like to attend by scanning the QR code!

Note: The date and time are written in **two formats** according to different time zones, but **they refer to the same point** in time.

Who can attend? Any current or aspiring ocean professionals! This training is run by and will include speakers from PICES member countries but the training is open to all regions, career stages, etc.

Co-conveners:

Hana Matsubara (Japan)
Raphael Roman (Canada)
Hannah Lachance (USA)
Steven Bograd (USA)
Shin-ichi ITO (Japan)
Janette Gann (USA)
Seung-Tae Yoon (Korea)
Tammy Norgard (Canada)




Are you new to PICES?
Watch this YouTube video for an introduction! 




Feedback from Participants (Interactive activity!)



 **A Reef** @arifsamshuri · Oct 9

I just attended this virtual training and learned so much from the panelists!


Some key takeaways: Jump into any opportunity, be clear about what we want, keep communicating science to the global community, and last but not least be respectful.

 **PICES - North Pacific Marine Science Orgar** @PICES_Marine · Oct 8


Reminder: Science Communication training tomorrow October 9th @ 5-9pm PDT!

This free virtual training is a @unoceandecade Activity co-organized by the @PICES_MarineSci Advisory Panel on Early Career Ocean ...

You reposted


 **単なる大学生** @Fishmer0202 · Oct 9

PICES International Open Science Training に参加してきました。科学者がコミュニケーションを行う時に意識すべきことについて学習しました。日本以外にも様々な国の科学者が参加しており、多様な意見が聞けました。

 **PICES - North Pacific Marine Science Orgar** @PICES_Marine · Oct 8

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 **Camryn Allen** · 2nd
Research Marine Biologist at PIFSC/NMFS/NOAA. Views are ...
1w · 🌐


+ Follow ...

I just attended this @PICES - North Pacific Marine Science Organization & learned about International Science Collaboration, Data Management, & Science Communication! My key takeaways:

- ♥ Relationships are important
- 📁 Its best to use existing data protocols
- 📣 Find the right platform to reach you audience


 **PICES - North Pacific Marine Science Organization**
268 followers
1w · 🌐

Reminder: Science Communication training session tomorrow October 9th @ 5-7pm PDT (Pacific Daylight Time)! ...more

 **Krystina Braid** (She/Her) · 1st
PhD Student
1w · 🌐

I just attended this [PICES - North Pacific Marine Science Organization](#) event & learned about International Science Collaboration, Data Management, & Science Communication! My key takeaways:

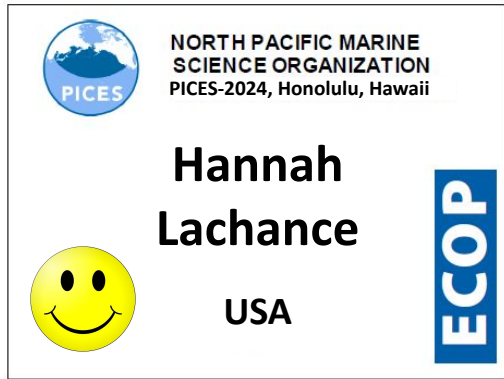
- ♥ Building relationships are important
- 📁 Utilizing existing data protocols is beneficial
- 📣 Know the audience you are trying to reach (and establish relationships that we learned are so important in session one!)

 **PICES - North Pacific Marine Science Organization**
268 followers
1w · 🌐

Reminder: Science Communication training session tomorrow October 9th @ 5-7pm PDT (Pacific Daylight Time)! ...more

Recruitment Needs & Opportunities during PICES 2024

- **All ECOPs are highly welcomed to join any Expert Groups close to your expertise**
- Feel free to join any sessions, workshops, and “business” meetings
- AP-ECOP members can guide ECOPs to join expert groups



Feel free to talk to person with
Smiley face sticker on name tag
For any assistance!

Recruitment Needs & Opportunities during PICES 2024

- **AP-ECOP are also welcoming new members from 6 PICES member countries!**
(Russia, China, Republic of Korea, Japan, USA, and Canada)
- Feel free to come talk to us at one of the events below 😊
- If you cannot join any events during PICES 2024, Google Form is available to contact us

29 Oct. Tuesday, Morning, 9:00-10:15

(Room #305A) Introduction to PICES session

29. Oct. Tuesday, 14:00-17:40

(Room #305B) AP-ECOP Business Meeting

29. Oct - 31 Oct, 14:00-17:40

(Room #302B) ECOP Mentorship Session

(limited for registered mentors/mentees)



[Join the PICES ECOP
Community!](#)

ECOPs as the future of PICES - 2025 and beyond



**UN OCEAN
CONFERENCE
NICE 2025
FRANCE**



- Identify new members and future AP-ECOP co-chairs,
- Sustain the momentum and continue supporting ECOPs' participation in conferences,
- Strengthen existing cooperation with ICES and explore synergies with the Asia-Pacific Network for Global Change Research (APN) and other international partners,

Takeaways from PICES External Review Report

“The robust ECOPs network that now exists within PICES is a clear indication of success”

“PICES initiated efforts to include ECOPs as participants in all activities as well as in leadership roles and encouraged involvement in international scientific research”

Recruitment and Retention: “[...] making the benefits known to the contracting party and the ECOPs of their active participation in PICES”

The shift to “actionable science” is something ECOPs can help with



THANK YOU!

**Join us at our “business” meeting for an informal
meet and greet**