



PICES Report to NPFC

PICES Executive Secretary, Sonia Batten

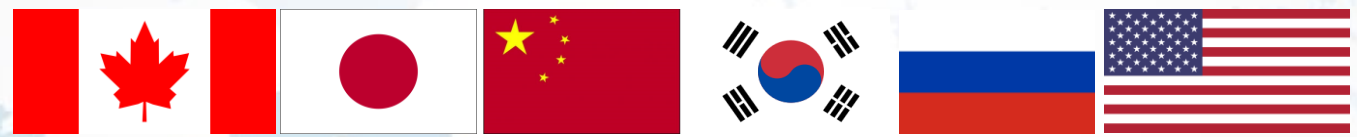


North Pacific Marine Science Organization

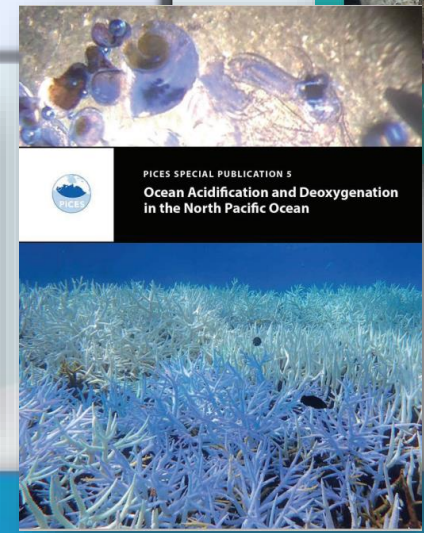
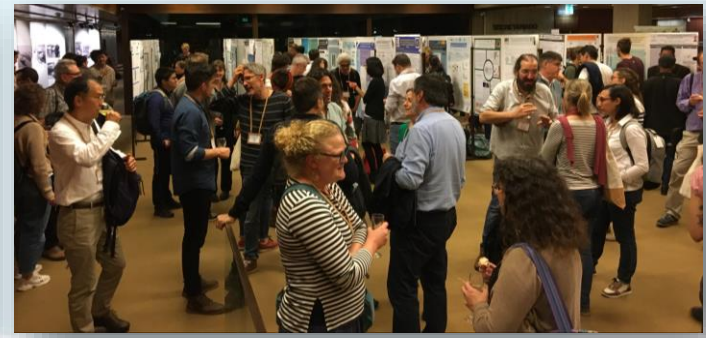
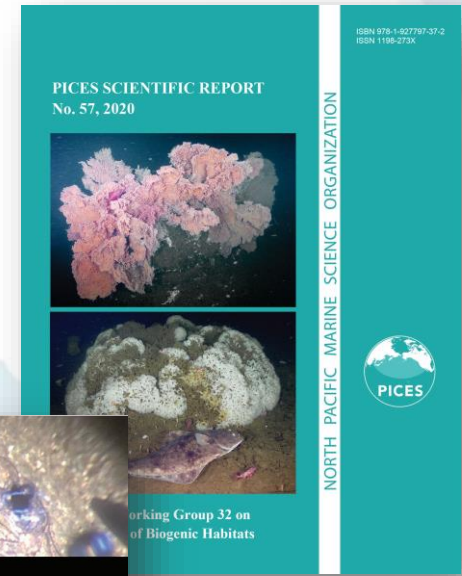


PICES

- The North Pacific Marine Science Organization (PICES) is an Intergovernmental science organization. The Secretariat is head-quartered in British Columbia, Canada
- There are 6 Contracting Parties:



PICES Vision Statement
To engage scientists in trans-disciplinary multi-national collaborations to further our collective understanding of the North Pacific's natural systems and enhance ecological and social resilience of our coasts and oceans.



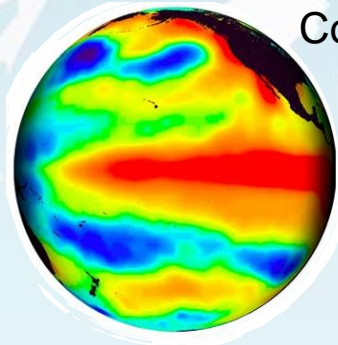


How does PICES work with other RFMOs/Intergovernmental orgs?

Joint Working Groups, or ex-officio members




WG47:
Ecology of
Seamounts



WG49: Climate
extremes and
Coastal impacts

Joint Symposia:



**Small Pelagic Fish:
New Frontiers in Science
and Sustainable
Management**
November 7 - 11, 2022
Lisbon, Portugal

ENDORSED BY
2021-2030 United Nations Decade
of Ocean Science
for Sustainable Development


Logos for PICES, ICES CIEM, and Food and Agriculture Organization of the United Nations.



eccwos 5
17-21 April 2023 · Bergen, Norway

Logos for ICES CIEM, UNESCO, and Food and Agriculture Organization of the United Nations.

Effects of Climate Change on the World's Ocean



**ICES-PICES 7th International
Zooplankton Production Symposium**

17-22 March, 2024
Hobart, Tasmania
AUSTRALIA | #ZPS7

Logos for ICES CIEM, UNIVERSITY of TASMANIA, and IMAS.

Joint Initiatives



2021-2030 United Nations Decade
of Ocean Science
for Sustainable Development

Projects



FishGIS

Building capacity for coastal monitoring by local small-scale fishers
(November 2017 – March 2020)



MSEAS 2024
June 3 - 7, 2024
Yokohama, Japan

2021-2030 United Nations Decade
of Ocean Science
for Sustainable Development
A UN Ocean Decade Event
#MSEAS2024

Marine Socio-Ecological Systems Symposium



Background

- PICES–NPFC Framework for Enhanced Scientific Collaboration in the North Pacific was endorsed in October 2019, following the work of a joint Study Group.



<https://meetings.pices.int/publications/annual-reports/2019/2019-SG-PICES-NPFC.pdf>

- Three major areas of mutual interest were identified:
 - (i) support for stock assessment for priority species
 - (ii) vulnerable marine ecosystems
 - (iii) ecosystem approach to fisheries
- Mechanisms were identified; workshops, working groups, theme sessions and reciprocal representation at annual meetings.





Recent joint activities


- NPFC and PICES representatives participated in each others' annual meetings in 2022/23, online, in-person and through written reports
- NPFC has representation in the PICES-ICES joint Working Group on Small Pelagic Fish, (WG43) which was extended to 2023
- NPFC scientists are involved in WG47 on the Ecology of Seamounts, including the Chair of the NPFC Scientific Committee (Dr Curtis) who co-chairs WG 47, which runs until 2024 (extended)



Recent joint activities






- NPFC co-sponsored the PICES-ICES-FAO Small Pelagic Fish Symposium (November 2022). Dr Toshihide Kitakado was a member of the SSC, Dr Zavolokin attended.




**Small Pelagic Fish:
New Frontiers in Science
and Sustainable
Management**

November 7 - 11, 2022
Lisbon, Portugal

ENDORSED BY



Food and Agriculture
Organization of the
United Nations



2021
2030

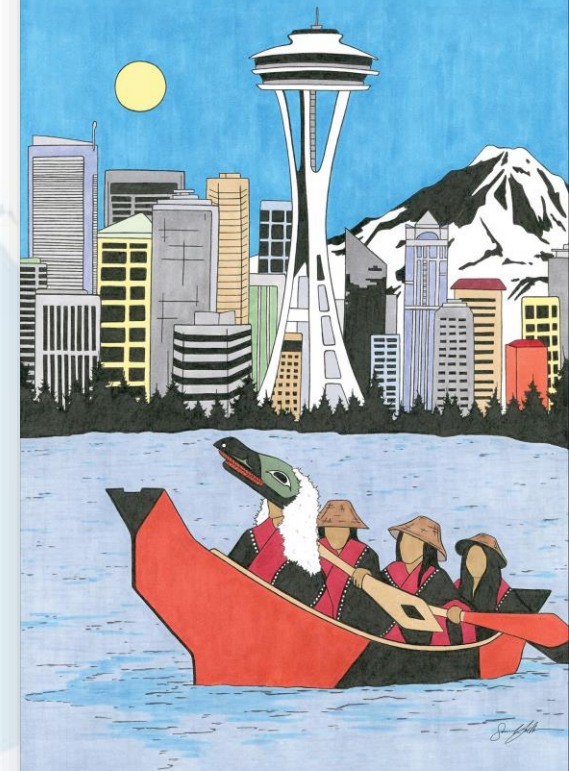
United Nations Decade
of Ocean Science
for Sustainable Development

- The conference comprised **288** participants from **39** countries, of which **44%** were ECS
- **278** presentations were given, **194** oral and **84** posters.
- Two journal special issues are in progress.



Recent joint activities

- The NPFC co-sponsored a topic session, “S5-Environmental variability and small pelagic fishes in the North Pacific: exploring mechanistic and pragmatic methods for integrating ecosystem considerations into assessment and management”. The session comprised 12 talks (two invited and ten contributed) and two posters in the poster session.
- NPFC Scientific Committee members also co-convened a workshop at PICES-2022 with members of WG 47, held in hybrid mode, on “Distributions of pelagic, demersal and benthic species associated with seamounts in the North Pacific Ocean and factors influencing their distributions”
- NPFC co-sponsored a topic session at PICES-2023, “S14: BIO Topic Session Seamount biodiversity: vulnerable marine ecosystems (VMEs) and species associated with seamounts in the North Pacific Ocean”



Potential for upcoming joint activities



- PICES-NPFC joint [international course/workshop on VME indicator taxa identification](#), with financial contributions of \$15,000 USD from each organization (postponed from 2020). The course is aimed at capacity development and sharing knowledge on the identification of coral species in the North Pacific. It will include both theory and practical exercises.
- Revision of the joint Framework for Enhanced Scientific Collaboration will be due after 2024. It is a good time to plan the next phase.
- In February 2024 a workshop will be held to begin planning of the Small Pelagic Fish-2026 Symposium
- PICES-2024 will be in Honolulu, Oct 26 – Nov 3 2024 at the Hawaii Convention Centre
- BECI project endorsed by NPFC in 2022 – Initial project office funding received.





BECI

BASIN-SCALE EVENTS TO COASTAL IMPACTS

An Ocean Intelligence System for a Changing World



North Pacific Marine Science Organization

THE PROBLEM



KTOO

News

Shows & Podcasts

Re

10 billion snow crabs disappeared from the Bering Sea. Scientists and fishermen are working to learn why

May 5, 2023 by Kirsten Dobroth, KMXT - Kodiak



Federal and state researchers in Kodiak hope work being done in the lab will provide more information about how Bering Sea crab populations handle climate change. (Elyssa Loughlin/Alaska Public Media)



Pacific Saury: Overfishing and Environmental Change Puts Future of Japanese Autumn Delicacy in Doubt

AK ALASKA PUBLIC MEDIA

Four years into the Yukon salmon collapse, an Interior Alaska village wonders if it will ever fish again

By Kavitha George, Alaska Public Media - Anchorage - September 15, 2023



An aerial view of Fort Yukon Alaska on Aug. 29, 2023. (Matt Faubion/Alaska Public Media)

BASIN-SCALE EVENTS TO COASTAL IMPACTS

An ocean intelligence system for a changing world



2021-2030 United Nations Decade of Ocean Science for Sustainable Development



North Pacific Marine Science Organization

UN DECADE OF OCEAN SCIENCE



The Science We Need for the Ocean We Want



SUSTAINABLE DEVELOPMENT GOALS 17 GOALS TO TRANSFORM OUR WORLD



BASIN-SCALE EVENTS TO COASTAL IMPACTS

An ocean intelligence system for a changing world



North Pacific Marine Science Organization

BASIN-SCALE EVENTS TO COASTAL IMPACTS



OBJECTIVE

Implement an international ocean intelligence system of monitoring, research and analytical approaches that provides timely advice to decision makers about the impact of current and future climate conditions on socio-ecological systems.



BASIN-SCALE EVENTS TO COASTAL IMPACTS

An ocean intelligence system for a changing world



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MAJOR COMPONENTS OF BECI

1. MODELING
2. DATA MOBILIZATION
3. OBSERVATION AND MONITORING
4. TARGETED AT-SEA RESEARCH
5. OUTREACH, COMMUNICATION AND COORDINATION



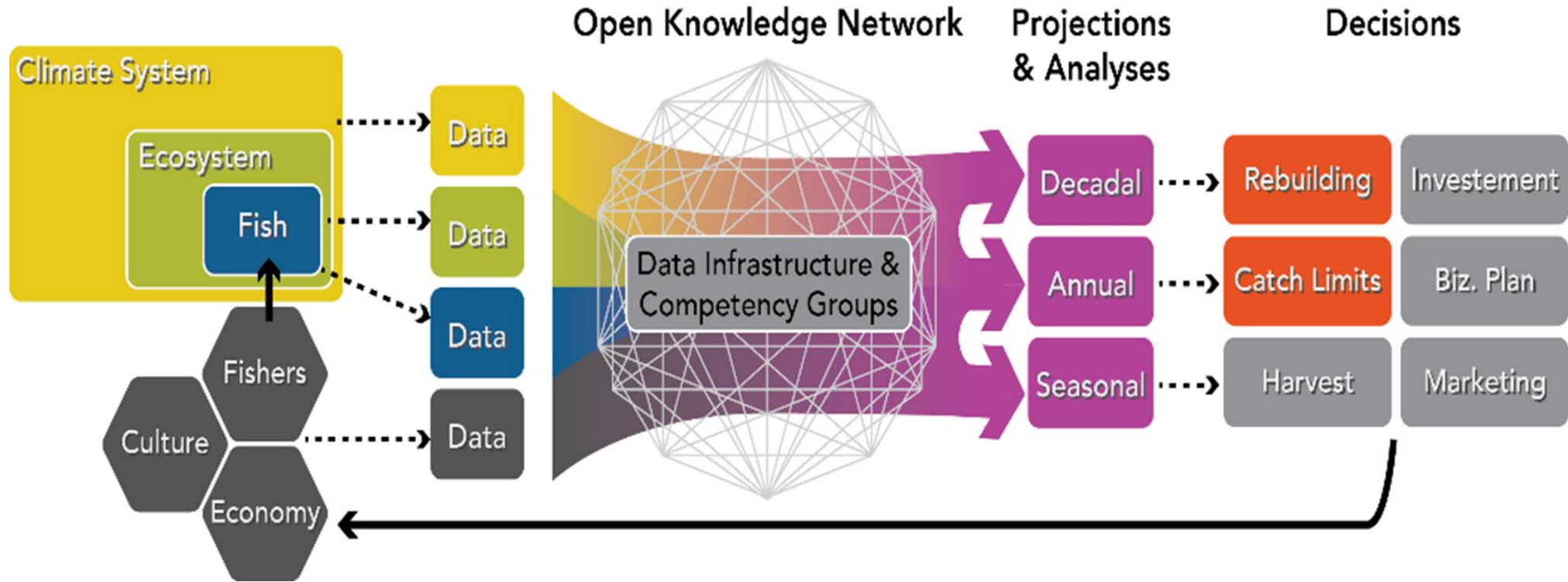
BASIN-SCALE EVENTS TO COASTAL IMPACTS

An ocean intelligence system for a changing world



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DATA SYNTHESIS



BASIN-SCALE EVENTS TO COASTAL IMPACTS

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2021
2030
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North Pacific Marine Science Organization

BECI PROGRESS



2022



2023



2024 ONWARDS

2022 BECI WORKSHOP SERIES

UPDATE TO PICES AND NPAFC

2023 SCIENCE PLAN
DEVELOPMENT WORKSHOP

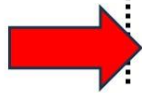
APPLICATION FOR SEED FUNDING

FUNDING ANNOUNCEMENT

STAFFING FOR SCIENCE DIRECTOR

COMPLETION OF SCIENCE PLAN AND
DISTRIBUTION FOR COMMENTS

BUILDING OF IMPLEMENTATION
PLAN AND COLLABORATION
NETWORK



BASIN-SCALE EVENTS TO COASTAL IMPACTS

An ocean intelligence system for a changing world



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