



North Pacific Marine Science Organization

International collaboration for improved ocean health.



PICES General Information

PICES facilitates scientific knowledge creation, collaboration & sharing



6 member countries: International Collaboration



Scientific Focus Area:
North Pacific Ocean

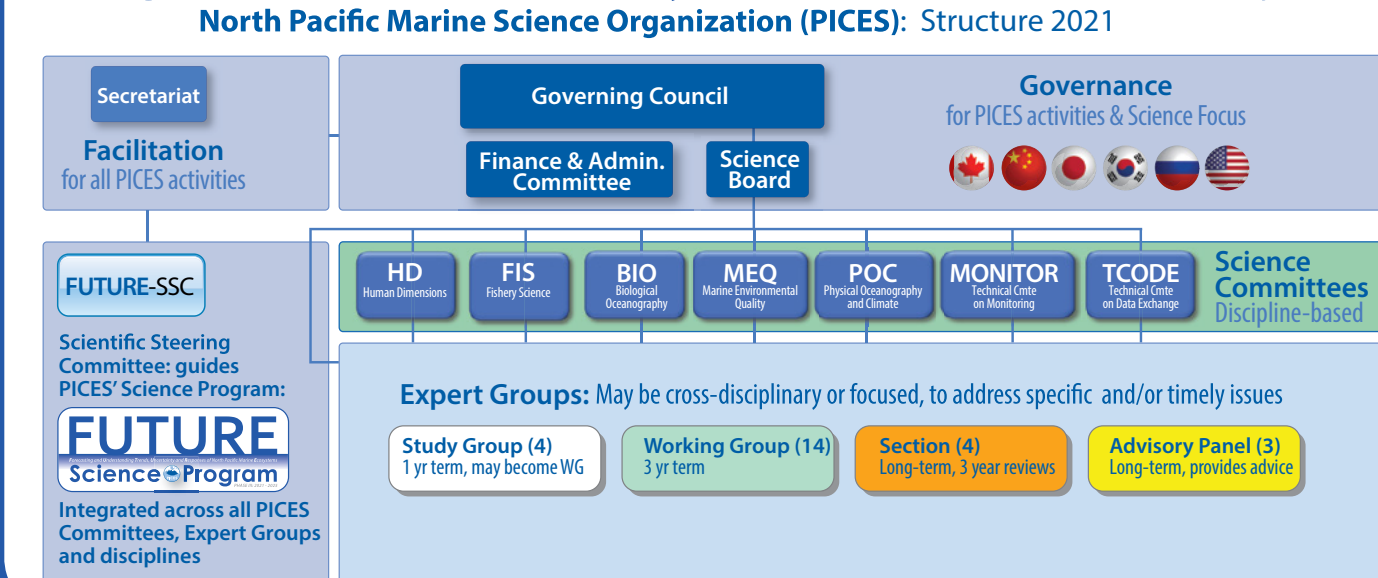
PICES facilitates scientific collaboration by hosting interdisciplinary events:

- Conferences
- Symposia
- Capacity-building
- Training courses
- Special Projects
- Workshops

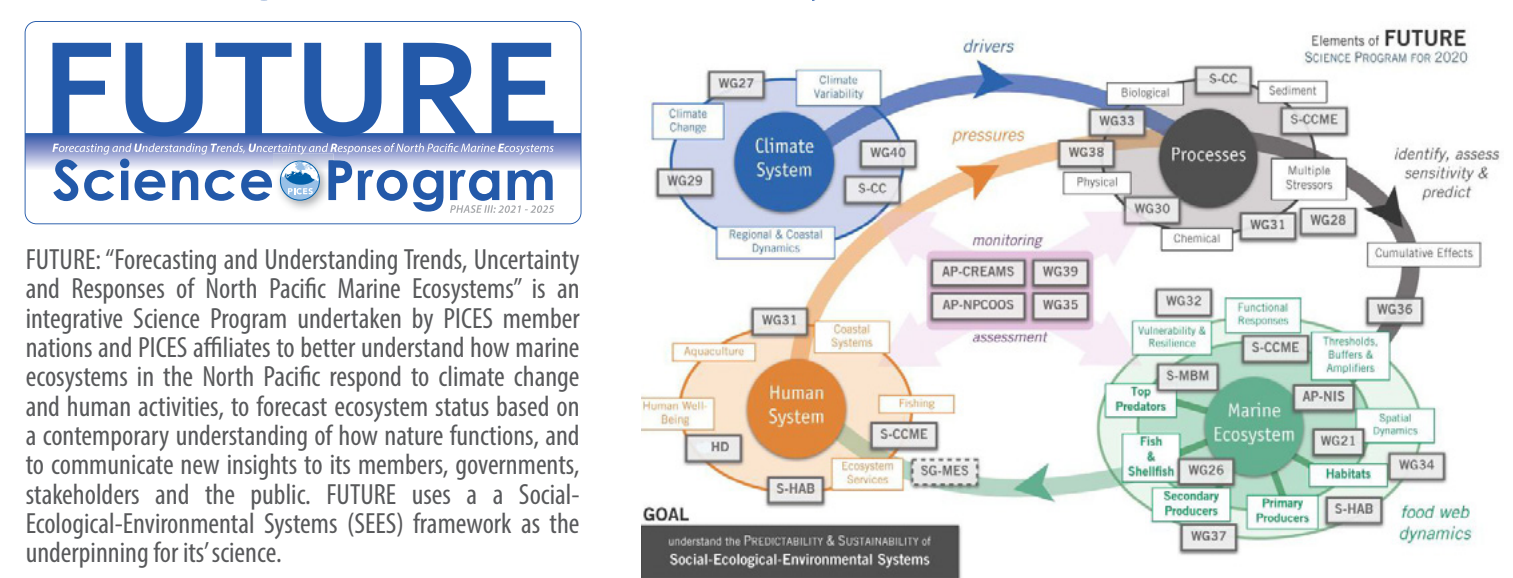
PICES creates and shares scientific knowledge via PICES publications

- Scientific Reports
- Special Publications
- Technical Reports
- Primary Journals
- PICES Press
- Outreach materials

PICES' structure facilitates scientific collaboration, and integrated multi-disciplinary international science projects.



PICES Flagship Science Program, FUTURE, supports PICES' integrated, multi-disciplinary collaborative science



PICES Publications & Links to Resources

PICES scientific publications for download:

- [PICES Scientific Reports \(59\)](#)
- [PICES Special Publications \(6\)](#)
- [Primary Journals](#)
- [PICES Technical Reports](#)
- [PICES Books \(5\)](#)
- [PICES Press](#)
- [PICES Brochures](#)



PICES Videos

- [PICES: Researching the North Pacific](#)
- [PICES: Celebrating 25 years](#)
- [What PICES is to me](#)
- [PICES FUTURE Science program](#)



PICES web resources:

- www.pices.int
- [Upcoming Meetings](#)
- [PICES Carbon Savings](#)
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- [PICES Special Projects](#)
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PICES Plans for the UNDOs



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

PICES and its partner, ICES, will establish an UNDOs Program entitled: Sustainability of Marine Ecosystems through global knowledge networks (SMARTNET)



PICES and ICES are established intergovernmental marine science organizations with a network of scientists, significant knowledge-generation and sharing capacity. PICES and ICES comprise 23 northern hemisphere member countries as well as organizations with formal PICES/ICES affiliations, including southern hemisphere countries, UN bodies, Regional Fisheries Management Organizations, and parties to Regional Seas Conventions.

Our natural capital and infrastructure make us ideally positioned to focus scientific efforts to meaningfully contribute to the UNDOs. Contact PICES to participate and collaborate in SMARTNET!



SMARTNET will:

- Develop and implement a global knowledge network to support knowledge production and dissemination on the status and future of marine social-ecological systems.
- Implement joint working groups, workshops and symposia that embrace new working cultures and ways of working together that prioritise accessibility.
- Advance and share scientific understanding of marine ecosystems and the services they provide.
- Increase collaboration of scientists with diverse partners, including under-represented communities, indigenous populations, and early career ocean professionals.
- Coordinate with Global Stakeholder Fora at an early stage to identify and prioritize programme activities.
- Generate state-of-the-art advice and evidence for meeting conservation, management, and sustainability goals.
- Generate Clear Science Communications targeted at achieving solution-based goals for the "ocean we want."

SMARTNET plan to address UNDOs Challenges
Sustainability of a healthy and resilient ocean for the benefit of future generations requires evidence-based decision-making. SMARTNET will facilitate ecosystem-based science to develop and implement tools and assessments to support decision-making, including the evaluation of cumulative effects and analyses of trade-offs among ocean users.¹

SMARTNET will provide ecosystem, fisheries, and aquaculture assessments in new areas (ecosystem description, identification of human pressures and effects on key ecosystem components), and will advance best practices in including local, traditional, and stakeholder knowledge.²

ICES and PICES currently coordinate their Northern Hemisphere efforts to understand, estimate and predict climate change impacts on marine ecosystems. This substantive, diverse work includes important UNDOs themes such as: i) global assessment of the implications of climate change on the spatial distribution of fish and fisheries, and forecasting, ii) seasonal to decadal prediction of marine ecosystems, iii) development and evaluation of socio-economic scenarios, and iv) development of scientific evidence to support decision-making. Current efforts in survey design and technology, data analysis and curation will be extended in cooperation with partners, i.e. regional organisations, stakeholders and member countries.³

¹ Challenges: 1, 2, 3, 4, 10.
² Challenges: 2, 3, 5, 10.
³ Challenges: 6, 7, 8, 9.



PICES / MAFF MarWeb project team and students releasing juvenile Olive Ridley sea turtles on the Pacific coast of Guatemala.
<https://meetings.pices.int/projects/marweb>