

2022 Report of the Advisory Panel on the *UN Decade of Ocean Science*

The Joint PICES Advisory Panel/ICES Council Strategic Initiative to plan participation in the UN Decade of Ocean Science (ICES–PICES Ocean Decade), hereafter known as the Advisory Panel on the *UN Decade of Ocean Science* (AP-UNDOS), held its first in-person business meeting at PICES-2022, Busan, Korea, on September 27, 2022 (*AP-UNDOS Endnote 1, 2*). The primary objectives of this meeting was to elect Co-Chairs and review membership, review our Terms of Reference, review recent and plan new activities for the SmartNet Programme and other PICES-related UN Ocean Decade activities for the coming year.

AGENDA ITEM 2

Review membership and elect leadership

Participants briefly discussed the current membership of AP-UNDOS, and noted that members are still needed from Korea, China, and Russia. In addition, two Early Career Ocean Professionals (ECOPs) were recommended for membership: Raphael Roman (Canada) and Evgenia Kostianaia (Russia), both of whom have significant roles as ECOPs in the UN Decade of Ocean Science (UNDOS). Several other PICES scientists were recommended for AP-UNDOS membership: Li Li (China); Sukyung Kang, Hanna Na, Sinjae Yoo (Korea); Igor Shevchenko (Russia); and a representative from the Asia Pacific Network as *ex officio*.

Two members were nominated for and elected as AP-UNDOS Co-Chairs:
Steven Bograd (USA)
Sanae Chiba (PICES Secretariat)

AGENDA ITEM 3

Review recent activities

Dr. Bograd reviewed the activities over the past year of the SmartNet Programme and the ICES-PICES Ocean Decade (IPOD) steering committee (*AP-UNDOS Endnote 3*). These activities included the planning and execution of several virtual meetings, including our virtual SmartNet workshop held in June 2022 as part of the UNDOS Laboratory on ‘A Productive Ocean’.

AGENDA ITEM 4

Review Terms of Reference

Members reviewed our Terms of Reference, as initially proposed, and agreed that they represented the scope and objectives of AP-UNDOS, primarily defining and promoting UNDOS activities within PICES and its partner organizations and implementing the SmartNet Programme. This discussion required some clarification on the synergistic roles of IPOD and SmartNet. SmartNet is the UNDOS-endorsed joint ICES-PICES Programme, and thus serves currently as the primary venue in which PICES engages with UNDOS. It aims to leverage ICES and PICES history of collaboration and organizational infrastructure to build global networks under the UNDOS umbrella to promote sustainable marine ecosystems. AP-UNDOS objectives and activities include, but are not limited to, implementing SmartNet. IPOD essentially serves as the joint ICES-PICES steering committee for the implementation of SmartNet. At present, AP-UNDOS members also serve as PICES representatives on IPOD.

Members proposed a new wording for ToR 3 (see *AP-UNDOS Endnote 4*).

AGENDA ITEM 5

Collaborations with other UNDOS programmes

Members discussed ongoing and potential collaborations between SmartNet (and PICES more broadly) and other UNDOS-endorsed programmes, including: ‘*Basin-Scale Effects to Coastal Impacts*’ (BECI), which was presented in-person by Robin Brown; the ‘*Deep Ocean Observing System*’ (DOOS), which was represented at PICES-2022 by Leslie Smith (USA); and the ‘*Sustainability, Predictability and Resilience of Marine Ecosystems*’ (SUPREME), which was represented at PICES-2022 by Hannah Lachance (USA). There was some discussion at our meeting, and informally throughout PICES-2022, about cross-Programme synergies and the potential to co-design joint activities around the theme of marine spatial planning.

There was some discussion about the relationship between BECI and SmartNet, and whether BECI could fit as a UNDOS-endorsed project under the SmartNet Programme umbrella. No decisions were made, but it is anticipated that there will need to be coordination between BECI and AP-UNDOS, SmartNet and IPOD.

AGENDA ITEM 6

Plans for Upcoming Workshops

Members discussed plans for two upcoming workshops with significant AP-UNDOS involvement: a workshop at ECCWO-5 in Bergen, Norway, in April to co-design UNDOS activities around the ‘climate-fisheries nexus’ (Workshop 2: *The climate-fisheries nexus within the UN Decade of Ocean Science for Sustainable Development: Co-designing actions and solutions for a productive, healthy and resilient ocean*); and a workshop proposed for PICES-2023 titled ‘*Sharing capacity and promoting solutions for marine ecosystem sustainability within the UN Decade of Ocean Science*’ (AP-UNDOS Endnote 5).

In addition, AP-UNDOS requests financial support (\$6,000 CAD) for travel to ECCWO-5 for two ECOPs from PICES member countries.

AGENDA ITEM 7

2023 Action Plan

Members reviewed SmartNet and IPOD activities planned for 2023 (AP-UNDOS Endnote 5).

AP-UNDOS Endnote 1

AP-UNDOS participation list

Members

Steven Bograd (USA, Co-Chair)
Jennifer Jackson (Canada)
Andrea White [*virtual*] (Canada)
Fangli Qiao [*virtual*] (China)
Mitsutaku Makino (Japan)
Hiroaki Saito (Japan)
Emmanuele di Lorenzo (USA)
Kirstin Holsman (USA)
Emily Lemagie (USA)
Erin Satterthwaite (USA)
Vera Trainer (USA)

Observers

Robin Brown (Past PICES Executive Secretary)
Elliott Hazen (USA)
Li Li [*virtual*] (China)
Raphael Roman (Canada)

AP-UNDOS Endnote 2

AP-UNDOS meeting agenda

September 27, 1400-1800

1. Welcome, share agenda
2. Review membership and elect leadership
3. Review recent activities of IPOD/SmartNet
4. Review Terms of Reference
5. Discuss collaborations with other UNDOS programmes
6. Develop plans for upcoming workshops
7. Develop 2022–2023 Action Plan and timeline

AP-UNDOS Endnote 3

List of IPOD/SmartNet activities completed over the past year (updated January 2023)

Completed

1. Participation in UNDOS ‘Blue Foods’ Community of Practice (**Jan 2022**)
2. Submitted SRI Symposium & ECCWO Symposium session proposals (**Feb 2022**)
3. Participated in OSM-Ocean KAN Town Halls (**Feb-Mar 2022**)
4. Update IPOD/SmartNet material on ICES and PICES websites (**Mar-Apr 2022**)
5. Proposal for PICES AP-UNDOS (**Apr 2022**)
6. Coordination with Tula Foundation – Decade Collaborative Center (**Apr 2022**)
7. Participate in Consortium for Ocean Leadership ‘Workshop to Coordinate Biological Observing Programs in UNDOS’ in DC (**Apr 2022**)
8. Submitted UN Ocean Conference side event – with MPOWR and ECOP (**May 2022**)
9. Submitted SmartNet video with ECOPs (**May 2022**)
10. Submitted resource needs assessment (**May 2022**)
11. Prepared for, conducted ‘Productive Ocean’ Town Hall: invite participants, prepare agenda and materials (**May-Jun 2022**)
12. IPOD Chairs meeting: workshop planning; UNDOS program collaboration; survey update; funding (**Sep 2022**)
13. Organized & conducted PICES-2022 SmartNet Workshop (**Sep 2022**)
14. Participated in Ocean KAN ‘network weaving’ training session (**Oct 2022**)
15. Reviewed proposed Projects for UNDOS endorsement (**Oct 2022**)
 - a. Recommended endorsement of: *The Ocean Matter; COST Action - Marine Animal Forest of the World; sustainMare*
 - b. Need more information for: *Monitoramento Mirim Costeiro; Frames; Conserve, Restore and Manage C&M Habitats*
16. Conference call to discuss SmartNet-SIDS engagement with Khush Jhugroo and Daniel Marie of Mauritius Oceanographic Institute (**Nov 2022**)
17. Chairs coordination discussion with Ocean Visions DCC (**Dec 2022**)
18. End-of-year update e-mail to IPOD and partners (**Dec 2022**)

AP-UNDOS Endnote 4

Proposed revision for AP-UNDOS Term of Reference 3

Bold indicates revision from:

3. Implement a strategy that prioritizes engagement with early career ocean professionals, indigenous **communities, developing nations**, and recognizes the importance of promoting diversity and gender equity in our activities; Coordinate with FUTURE SSC, AP-ECOP and AP-SciCom to develop these strategies.

To:

3. Implement a strategy that prioritizes engagement with early career ocean professionals, Indigenous **Peoples, least developed and small developing states**, and recognizes the importance of promoting diversity and gender equity in our activities; Coordinate with FUTURE SSC, AP-ECOP and AP-SciCom to develop these strategies.

AP-UNDOS Endnote 5

**Proposal for a hybrid Topic Session/Workshop on
 “Sharing capacity and promoting solutions for marine ecosystem sustainability within
 the UN Decade of Ocean Science”
 at PICES-2023**

Convenors:

Steven Bograd (USA), Kirstin Holsman (USA), Hannah Lachance (USA/AP-ECOP, AP-SciComm), AP-SciComm, AP-ECOP members from western Pacific TBD

Duration: 2 days (One day of oral presentations, one day of targeted discussion)

The UN Decade of Ocean Science for Sustainable Development (UNDOS; 2021–2030) addresses challenges associated with ecosystem health, food security, and climate change through international Programmes, Projects and Activities. PICES, in partnership with ICES, leads the UNDOS-endorsed Programme called ‘Sustainability of marine ecosystems through global knowledge networks’ (SmartNet), which aims to leverage ICES and PICES infrastructure and long-term collaborations to advance global marine ecosystem research and sustainability. Related UNDOS-endorsed Programmes include SUPREME (advance ocean forecasts and projections to guide climate-informed resource management); FishSCORE (sustain fisheries, protect ocean ecosystems, and enhance equitable benefits); Marine Life 2030 (coordination to deliver actionable knowledge of ocean life and ecosystem restoration); and ECOP (empower early career ocean professionals and incorporate new thinking into ocean sustainability and stewardship). We propose a 2-day hybrid topic session and workshop to share knowledge and capacity amongst UNDOS programs, to establish collaborative networks to advance UNDOS goals, and to co-design transformative actions. On the first day, oral and poster presentations will highlight recent science advances within the climate-fisheries nexus, including developments in climate and marine ecosystem predictability and social-ecological-environmental systems. On the second day, participants will engage in open discussion to identify opportunities for developing scientific products for societal benefit and sharing capacity with developing nations. We encourage participation from those not currently associated with an UNDOS action, and especially from early career ocean professionals.

AP-UNDOS Endnote 5

**List of IPOD/SmartNet planned activities for the coming year
 (updated January 2023).**

Active

1. Update IPOD membership (**Jan 2023**)
2. Conduct IPOD meeting; form sub-groups on priority actions (**Jan 2023**)
3. Prepare contribution to ‘Food for Thought’ article for *ICES Journal of Marine Science* (**Jan-Apr 2023**)
4. Prepare ECCWO UNDOS co-design workshop – build from satellite event, reach out to partners (**Jan-Apr 2023**)
5. Develop partnerships with Ocean Visions DCC and endorsed umbrella Projects (**Jan-Jun 2023**)
6. Prepare SmartNet Implementation Plan (including Phase I action plan, products & deliverables) (**Jan-Jun 2023**)
7. Contribute to UNDOS National Surveys (**2023**)
8. Planning and organization of Workshops on community engagement (ITK; community-supported observation) (**2023**)