

2024 Report of the Technical Committee on Data Exchange (TCODE)

Day 1 (Virtual only) 17:00-19:00 (PDT), Tuesday September 24

The meeting of the Technical Committee on Data Exchange (TCODE) was held virtually via Zoom, from 17:00 to 19:00 on September 24, 2024. Five member countries were represented (*TCODE Endnote 1*, missing Russia). Some business agenda items were carried out over email (*TCODE Endnote 2*).

AGENDA ITEMS 1 and 2 **Welcome, Introductions, Agenda & Rapporteur**

TCODE Chair Jeanette Gann welcomed members and other participants to the meeting and introductions were made by each member and guest. The agenda was adopted by all, and Mr. Brett Johnson agreed to be rapporteur.

AGENDA ITEM 3 **Election of TCODE Vice-Chair**

Prof. Wan Fangfang was unanimously elected as the TCODE Vice-chair for a second term.

AGENDA ITEM 4 **Update on New TCODE Data Award and Data Policy Status**

The updated data policy and the new data awards have been unofficially approved by governing council. The updated policy will be referred to as the “revised data policy”. Additionally, it was noted that nominations for the new PICES Ocean Data Excellence award (PODA) may be sought annually but may not necessarily be given annually. TCODE should consider a revision frequency for the data policy (and appendix). TCODE will discuss this and report to Science Board once a decision has been made.

AGENDA ITEM 5 **Upcoming TCODE-related Events**

Ms. Gann updated TCODE members on upcoming events sponsored by TCODE including the International Open Science Training and the W6 workshop on a shared framework for data.

AGENDA ITEM 6 **PICES SG-DATA Technical Report Update**

Ms. Gann updated TCODE members on the SG-DATA technical report and shared the report with members. The report is being used as a basis for WG52 on data management in PICES to move forward with some of the tasks listed in the report.

AGENDA ITEM 7 **Working Group 52 Update**

Mr. Brett Johnson, co-chair of Working Group 52 (WG52) on PICES data, updated TCODE members with a presentation regarding work done in the past year by WG52, including the introduction of Dr. Seung-Tae Yoon as the new co-chair, finalizing the revised PICES data policy, updating the data policy appendix on national ocean data centers, discussing the terms of reference, the PICES data flow diagram which provides guidance for all PICES expert groups on what to do with data products and information arising from PICES collaborations, and the potential appointment of a data steward for PICES. WG52 will work on promoting a culture of shared data within PICES, in addition to updating and choosing a platform for a new PICES data/metadata catalogue for PICES members. Next steps for the working group include potentially refining the terms of reference, establishing a 6-month list of priorities, and recruitment of additional members.

AGENDA ITEMS 8 and 9 **Review of WG52 Activity Report**

TCODE discussed questions related to WG52 reporting. It was noted that if Zenodo is chosen for a new PICES data catalogue, it will need to be overseen by a PICES member to approve new uploads of data. Anyone can add a new record to Zenodo, but someone should be there to make sure all new entries are appropriate for PICES. Perhaps either a member of TCODE or a data steward for PICES (if elected to oversee data and metadata flow) would be able to take on this task.

AGENDA ITEM 10 ECOP Presentation Judges

ECOP presentations and the need for judges/raters from TCODE were discussed. Once materials and judging criteria sheets are distributed regarding a list of ECOP presentations for TCODE to cover, Ms. Gann will forward to TCODE members and ask for volunteers to rate presentations.

AGENDA ITEM 11 SmartNET Program and AP-UNDOS Liaison

Ms. Gann briefly presented slides on PICES SmartNET program and AP-UNDOS, suggesting that TCODE members get involved in this program with at least one representative as a member of one of these groups to be a liaison. Considering the overarching theme of Information Networking, TCODE members would be a great fit to help with this group. Brett Johnson expressed interest in becoming the liaison.

AGENDA ITEM 12 Final Comments/Questions and Close of Meeting An opportunity was given for additional questions and discussion on TCODE topics. No additional comments or questions were added, and the meeting was adjourned.

Day 2 Hybrid 18:00-20:00 (HDT), Sunday, October 27

AGENDA ITEM 1 Welcome and Introduction of Members (*Endnote 1*)

AGENDA ITEM 2 Adoption of Agenda and Appointment of Rapporteur

Jeanette Gann agreed to be the rapporteur for the meeting, and all accepted the agenda (*Endnote 2*).

AGENDA ITEM 3 Update on AP-NPCOOS

Jennifer Jackson was unable to come to TCODE meeting to present the AP-NPCOOS updates and instead will send TCODE a report of activities that will be forwarded to TCODE members for review.

AGENDA ITEM 4 FUTURE Update

Dr. Rykaczewski gave a more thorough presentation (than the slides presented by Ms. Gann during the first meeting) on FUTURE program updates including information on the SmartNET program and participated in discussions including those regarding the external review.

AGENDA ITEM 5 External PICES Review Panel Report Discussion

TCODE discussed topics from the external review report primarily related to TCODE which included PICES as a data portal and the combining of TCODE and MONITOR committees into one committee. Notes on this were collected in person at the meeting and online from virtual participants and then forwarded to the Secretariat.

AGENDA ITEMS 6 and 7 Break and IODE Relations Update

Dr. Toru Suzuki presented updates on IODE meetings and relational activities. This included an invitation to PICES participants to join the next IODE meeting to take place in Columbia in 2025.

AGENDA ITEM 8 Status of CFP Project

Updates to the CFP project including the history of the project were provided. It was relayed that funding for the project was stopped and the project was in a halted status for a period. Some funding was obtained from multiple entities, but it will not be enough to finish the project. An October 30 meeting, during the PICES meeting time frame, will take place in which they hope to learn more. It was then found that additional funding for data server will be obtained, and the project is slated to close in 2026 at which time the data should be added to an open database and shared freely.

AGENDA ITEM 9 Discussion of TCODE Data Products Worksheet

The inherited list of data products within TCODE are currently listed with links and contacts in a spreadsheet. Most of the current TCODE members are not familiar with the information in this worksheet. However, Shelee Hamilton agreed to ask DFO colleagues known to be involved in two of the data products about the status and whereabouts of the data. This will likely be a project for a hired intern to help transfer data records from the old TCODE/PICES metadata catalog into the new chosen platform (likely Zenodo).

AGENDA ITEM 10 Discussion of ECOP Presentation Judges

Ms. Gann pressed TCODE members to help judge ECOP presentations (both oral and poster) for the sessions sponsored by TCODE. Toru Suzuki and Daiki Ito both agreed to help rank TCODE presentations. Other TCODE members that attended in person were unable to stay for the entire meeting and were unavailable during sessions needed for judging.

AGENDA ITEM 11 Additional Questions and Close of Business Meeting

No additional questions or items were added and the meeting was adjourned.

TCODE Endnote 1

TCODE participation list

Day 1

Members

Jeanette Gann (USA, Chair)
Fangfang Wan (China, Vice-chair)
Shelee Hamilton (Canada)
Brett Johnson (Canada)
Di Wan (Canada)
Daiki Ito (Japan)
Toru Suzuki (Japan, ex officio IODE)
HuiTae Joo (Korea)
Cholyoung Lee (Korea)

PICES

Sonia Batten (PICES Executive Secretary)

Day 2

Members

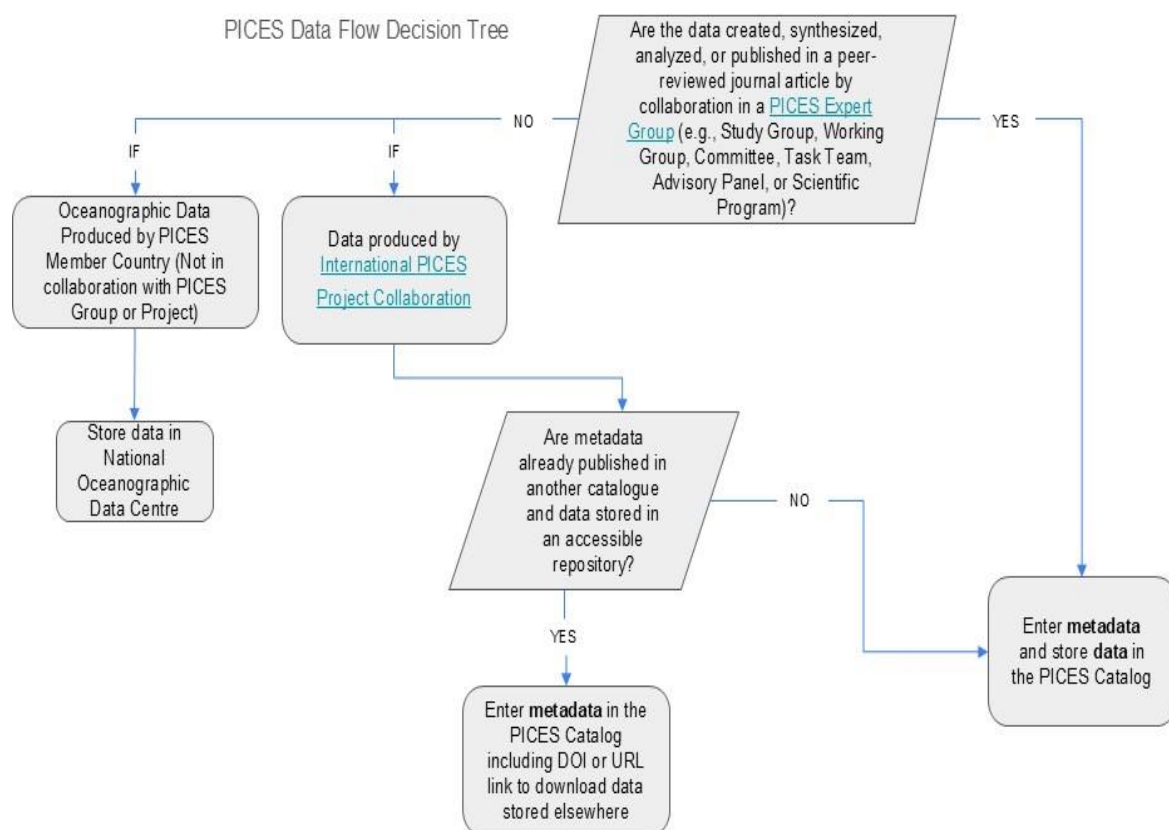
Jeanette Gann (USA, Chair)
Fangfang Wan (China, Vice-chair)
Shelee Hamilton (Canada)
Daisuke Ambe (Japan)
Takashi Hosono (Japan)
Daiki Ito (Japan)
Toru Suzuki (Japan)
HuiTae Joo (Korea)
Cholyoung Lee (Korea)

Observers

Ryan Rykaczewski (USA, FUTURE)
Noriko Shoji (USA)

TCODE Endnote 2**TCODE meeting agenda****Agenda items carried out via email (**Selected items shown below):**

- 1) Review of PICES data inventory
- 2) PICES Data Flow Diagram**
- 3) SmartNET/ AP-UNDOS Slides
- 4) PICES Data Policy Appendix**
- 5) SG-DATA Technical Report
- 6) WG52 Activity Report
- 7) International Science training Flyer
- 8) ECOP Judging sheet and list of presentations to attend
- 9) Rank PICES 2024 session and workshop proposals





PICES DATA POLICY

APPENDIX A.

NATIONAL OCEAN DATA CENTERS

CANADA	Marine Environmental Data Section (MEDS) https://meds-sdmm.dfo-mpo.gc.ca/isdm-gdsi/index-eng.html
CHINA	China NODC (see also alternative *CMOC site in English below) National Marine Data and Information Service https://www.nmdis.org.cn/english/nmdiss-mission/
JAPAN	Japan Oceanographic Data Center https://www.jodc.go.jp/jodcweb/
KOREA	Korea Oceanographic Data Center https://www.nifs.go.kr/kodc/eng/index.kodc
RUSSIA	All-Russian Research Institute Hydrographic Information World Data Center, Obninsk (RIHMI-WDC) http://www.meteo.ru/nodc/index.html
UNITED STATES	United States National Centers for Environmental Information https://www.ncei.noaa.gov/



PICES DATA POLICY

APPENDIX A.

ADDITIONAL DATA RESOURCES

PICES AQUADOCS	North Pacific Marine Science Organization (PICES) aquadocs.org
OIH	Ocean Info Hub https://cioos.ca
ODIS	IOC Ocean Data and Information System Catalog of Sources https://catalogue.odis.org/
NOAA WOD	NOAA World Ocean Database: https://www.ncei.noaa.gov/products/world-ocean-database
GOOS	Global Ocean Observing System https://goosocean.org/
CIOOS	Canadian Integrated Ocean Observing System https://cioos.ca



PICES DATA POLICY

APPENDIX A.

ADDITIONAL DATA RESOURCES

KOREA COASTAL	Korea Coastal Big Data Platform (*Note, not in English) https://www.bigdata-coast.kr/
*CMOC	China website (run by NMDIS, in English and has more data and data products available) http://www.cmoc-china.cn/
OBIS	Ocean Biodiversity Information System https://obis.org/
IOOS	Integrated Ocean Observing System https://ioos.noaa.gov/data/