**Technical Committee on Data Exchange Action Plan (2022---)**

**Mission**

The mission of the PICES Technical Committee on Data Exchange (TCODE) includes the following:

1. Identify the data management requirements of PICES;
2. Develop strategic plans to meet these requirements;
3. Recommend to Science Board, establishment of expert groups to deal with specific functions of TCODE;
4. Review the progress of tasks assigned within TCODE, and provide Annual Reports to Science Board on the work of TCODE;
5. Advise the PICES Secretariat on its data exchange activities; and
6. Review and update PICES data management policy

**Strategy of TCODE**

To implement its mission, the TCODE will address each of the six specific goals to advance and apply scientific knowledge of PICES strategy. Specific actions and tasks within each of these goals are as follows:

**Goal 1: Foster collaboration among scientists within PICES and with other multinational organizations**

**Action 1** Establish dialogue with the various bodies of the international, national, state and local organizations, commissions and programmes involved in Marine Data and Information Management issues

**Task 1.1** Maintain dialogue with the ICES Data and Information Group (DIG) and Data and Information Center

**Task 1.2** Maintain dialogue with relevant programmes, sub-commissions, sub-projects in the IOC of UNESCO, such as IODE, ODINWESTPAC, NEAR-GOOS, IOOS, and CIOOS.

**Task 1.3** Establish dialogue with organizations such as UNESCO/IOC and ICES to support the UN Decade of Ocean Science, in particular, its societal outcome of "Transparent and accessible ocean"

**Task 1.4** Maintain dialogue with the NOWPAP DINRAC

**Task 1.5** Review and evaluate proposals submitted to SCOR and ICES to establish new working groups

**Task 1.6** Review and update PICES data management policy

**Task 1.7** Work with PICES expert groups and PICES Secretariat to update and maintain PICES data inventory

**Task 1.8** Provide guidance to each PICES expert groups regarding PICES data management policy and data inventory

**Goal 2: Understand the status and trends, vulnerability and resilience, of marine ecosystems**

**Action 2** Propose topic sessions and workshops at upcoming annual meetings, and intersessional meetings and symposia

**Task 2** Support topic sessions and workshops at upcoming annual meetings, and intersessional meetings and symposia

**Goal 3: Understand and qualify how marine ecosystems respond to natural forcing and human activities**

**Action 3** Propose topic sessions and workshops at upcoming annual meetings, and intersessional meetings and symposia

**Task 3** Support topic sessions and workshops at upcoming annual meeting, and intersessional meetings and symposia

**Goal 4: Advance methods and tools**

**Action 4** Provide support for the use of shared information technologies

**Task 4.1** Maintain PICES Metadata Catalogue Service

**Task 4.2** Plan topic sessions and workshops at upcoming annual meetings for marine data quality control/assurance and information exchange

**Task 4.3** Advise the PICES Secretariat and expert groups on data exchange activities

**Goal 5: Provide relevant scientific information pertinent to North Pacific ecosystems that is timely and broadly accessible**

**Action 5** Support preparation of the North Pacific Ecosystem Status Report (NPESR)

**Task 5** Assist in maintenance of ETSO database

**Goal 6: Engage with early career scientists to sustain a vibrant and cutting edge PICES scientific community**

**Action 6** Promote training and education activities of local, regional and international organizations

**Task 6** Support training and education activities of regional and international organizations, programmes, projects such as IOC, IODE, and ODINWESTPAC.

Legend:

POMA – PICES Ocean Monitoring Service Award

SCOR – Scientific Committee on Ocean Research

ICES = Intergovernmental Council for the Exploration of the Sea

IODE = Intergovernmental Oceanographic Data and Information Exchange

IOC = Intergovernmental Oceanographic Commission

UNESCO = United Nations Education Scientific and Cultural Organization

NOWPAP = Northwest Pacific Action Plan

DINRAC = Data and Information Network Regional Activity Center

NEAR-GOOS = North-East Asian Regional Global Ocean Observing System

NPESR = North Pacific Ecosystem Status Report

ODINWESTPAC = Ocean Data and Information Network of the Western Pacific

IOOS = Integrated Ocean Observing System

CIOOS = Canadian Integrated Ocean Observing system.

ETSO = Ecological Time Series Observations