

## 2023 Report of Human Dimensions Committee

The Human Dimensions Committee (HD) meeting took place under the chairmanship of Prof. Mitsutaku Makino (Japan) from 17:00–19:00, September 27, 2022, Seattle time (Online) and from 18:00–20:30, October 21, 2023, Seattle time, at PICES-2023 in Seattle, USA. Some of the participants attended using Zoom. Each member introduced himself/herself (*HD Committee Endnote 1*), and Drs. Takemura and Jardine volunteered to take notes. The agenda was reviewed and adopted unanimously by the Committee (*HD Committee Endnote 2*).

### AGENDA ITEM 2

#### Reports from SB and FUTURE SSC

Prof. Makino provided an overview of PICES as an organization, including the tasks of the Human Dimensions Committee. The mission of the HD Committee is to support its two current working groups to conduct integrated research in close collaboration with FUTURE, and to promote collaboration with ICES and IMBeR. Then, Prof. Makino reported main decisions and discussions at the SB, ISB, and FUTURE SSC.

### AGENDA ITEM 3

#### REPORTS FROM THE CHILDREN EXPERT GROUPS AND PROJECTS

Dr. Elizabeth Logerwell reported the recent activities of WG44 on PICES/ICES integrated ecosystem assessment for the Northern Bering Sea and Chukchi Sea, such as the participation of local indigenous communities and their workshop to be held at the Annual Meeting in Seattle.

Dr. Shion Takemura reported the activities of WG51 on Exploring Human Networks to Power Sustainability. It includes the development of database, analytical method, plans for Year 1 and 2, and the process for developing the final report which will be submitted as a primary journal article.

Prof. Makino introduced the new PICES-MAFF Project “FishPhytO”. It is a new project starting from 2023 following the previous PICES-MAFF project “Ciguatera”. The location is Lombok Island of Indonesia, and they are planning to apply the smart-phone app with new technology such as AI.

### AGENDA ITEM 4

#### Finalization of the HD Committee’s Action Plan 2023-2028

The discussion started last year at the Busan meeting, and the latest draft was review and discussed among the committee members. After the meeting on Day 1, comments were exchanged by e-mail communication, and on Day 2, all the comments were reflected in the third draft (see *Endnote 4*)

### AGENDA ITEM 5

#### Country Reports

Each member country made a short report about human-dimension related topics in each country. From Canada, Prof. Makino introduced materials prepared by Ms. Karen Hunter, including recent discussions about the Marine Protected Area Network with First Nations. From China, Prof. Sunny Chen reported the Gross Ecosystem Product (GEP) accounting system in China and a case study of Yancheng City. From Japan, Dr. Aoi Sugimoto reported the revision of Fisheries Basic Plan of Japan and discussed the treated water from the Fukushima Nuclear Plant. Members from Korea reported the situation of offshore wind farms and conflicts with the fisheries sector. The report from Russia includes the application of a digital approach to increase recreational fisheries in Russia. Dr. Pan from the USA reported on the HAB risk study of Dungeness Crab and offshore wind farms off the west coast.

## **AGENDA ITEM 6**

### Plan for 2024 Onward

Dr. Takemura proposed a WG51 workshop (see *Endnote 3*).

## **AGENDA ITEM 7**

### Others

Prof. Makino introduced a UN Ocean Decade global survey project, which surveys four countries (Australia, France, Japan, USA) to investigate the “Ocean We Want”. Additionally, Prof. Makino discussed an idea of setting a common topic for “Country Report” was agreed. The common topic for the next year will be suggested and discussed via e-mail.

## ***HD Committee Endnote 1***

### **HD Committee participation list**

#### Members

Mitsutaku Makino (Japan, Chair)  
Karen Hunter (Canada, Vice-Chair, via Zoom)  
Shang Sunny Chen (China, via Zoom)  
Jingmei Li (China, via Zoom)  
Aoi Sugimoto (Japan, via Zoom)  
Shion Takemura (Japan)  
Dohoon Kim (Korea)  
Tae-Goun Kim (Korea)  
Jongseong Ryu (Korea, via Zoom)  
Oleg Katugin (Russia, via Zoom)  
Ekaterina Kurilova (Russia, via Zoom)  
Anna Skvortsova (Russia, via Zoom)  
Sunny Jardine (USA)  
Minling Pan (USA, via Zoom)

#### Members unable to attend

Canada: Natalie Ban  
China: Yang Han  
USA: Keth Criddle, Ron Felthoven, Sarah Pence  
Wise

#### Observers

Hiroki Wakamatsu (Japan)

## ***HD Committee Endnote 2***

### **HD Committee meeting agenda**

#### **<Day 1 Online>**

1. Self-introduction, adoption of the agenda and appointment of rapporteur (All, 15 min)
2. Reports from SB and FUTURE SSC (Makino, 20 min)
3. Reports from the children expert groups and projects
  - [WG 44](#) (Libby, 5 min)
  - [WG 51](#) (Shion, 5 min)
  - A new PICES-MAFF Project “[FishPhytO](#)” (Makino, 5 min)
4. Finalization of the HD Committee’s Action Plan 2023-2028 (Makino and Karen, 60 min)
  - Based on the discussions in the previous HD Committee meeting in Busan.

**<Day 2 Hybrid>**

5. Country reports (maximum of 10 min from each Member Country about recent updates of research activities or policy measures relating to HD committee discussions)
6. Plan for 2024 onward (15 min)
  - 1) Topic session/Workshop proposals for the next Annual Meeting 2024 (All)
  - 2) New expert group proposals, if any (All)
7. Others (5min)
  - Update from Ocean Decade Program “[SmartNet](#)” and “Global survey on UNDOS 7 Outcomes” (Makino, 5 min)
  - Others (All)

**HD Committee Endnote 3**

**Proposal for a WG51 Workshop on  
“Exploring Human Networks to Power Sustainability in North Pacific Ocean”  
at PICES-2024**

TITLE	Workshop on Exploring Human Networks to Power Sustainability in North Pacific Ocean	[max 255 char]
WORKSHOP DURATION	1.0day	
CONVENORS [MAX 4] please identify the corresponding convenor	<ul style="list-style-type: none"> <li>• Shion TAKEMURA (JAPAN)*</li> <li>• Moo Joon Lee (KOREA)</li> <li>• Ling Cao (CHINA)</li> <li>• Karen Hunter (CANADA)</li> </ul> *corresponding	Information for all convenors Order: name, country, email address [max 255 char] (e.g. John Smith, Canada, smith@uvic.ca (corresponding); George Brown, U.S.A., brown@wash.edu)
INVITED SPEAKERS [optional field]	<ul style="list-style-type: none"> <li>• Raphaël ROMAN (UNESCO/ECOP Regional Coordinator for Asia)</li> <li>• Rachel Seary (NOAA)</li> </ul>	Information for potential invited speakers Order: name, country, email address [max 255 char] (e.g. John Smith, Canada, smith@uvic.ca; George Brown, U.S.A., brown@wash.edu)
WORKSHOP DESCRIPTION	The Human Dimension Committee has been conducting analysis since 2020 to conduct a preliminary assessment of the PICES human network towards understanding how the organization may already be addressing a variety of UNDOS goals. The research team assembled and analyzed research products created within PICES since 1992 (Annual Meeting Books of Abstracts). WG51 on “Exploring Human Networks to Power Sustainability” aims to	Please submit the full WORKSHOP description, i.e. copy the content of the file, which you are going to submit, into this textbox [unlimited length]

	expand our initial work on the PICES organization by studying linkages among research activities and their social networks within PICES nations and other significant marine science organizations around the globe. The working group will update the database of PICES Abstract books until the proposed workshop. The practical workshop is for WG 51 members and other interested participants to (1) analyze case studies using updated version of the database by each PICES nations, (2) identify 100 keywords for each case studies for correspondence analysis and (3) create list of research institutions of each PICES member nation for network analysis and (4) establish the database for the final analysis in the following year (the final year of WG-51).	
non-PICES-CoSPONSORS [e.g. ICES, SOLAS, etc.] [optional field]		[max 100 char]
PICES Expert Group SPONSORS [BIO, MEQ, FIS, etc.] [required field]	WG-51, HD, FUTURE	[max 150 char]
PUBLICATION [optional field]	Yes (ICES JMS)	[Are you planning to publish the workshop results?]

#### ***HD Committee Endnote 4***

#### **The 3<sup>rd</sup> Draft of HD Committee Action Plan (2023-2028)**

##### **The HD Committee's Key Tasks**

Established in 2016, the PICES Human Dimensions Committee plays an important role in the PICES organization and research community.

The Committee's mission is vast. Formally, the HD area of responsibility is to **promote and coordinate interdisciplinary research** that leads to **increased understanding of the relationship** between North Pacific marine ecosystems and the **people, communities, and economies** that are part of those systems and rely on the resources and services they provide.

Particular emphasis will be given to fostering research on:

- (a) **methodological and empirical challenges involved in integrating human dimensions into ecosystem analyses;** and
- (b) **exploration of development pathways that are sustainable** from social, economic, and ecological perspectives.

The HD committee will **support the work of other PICES expert groups**, including any integrated science program.

Where other PICES expert groups often consider the impact of human activities on ecosystems, the HD

committee will **promote both the consideration of these impacts and how biophysical changes impact the well-being of people, communities, and economies** taking into account their characteristics and values. In addition, the committee will engage with kindred ‘**human dimension**’ initiatives of other organizations (e.g., ICES and IMBeR).

### **Action Planning Essentials**

1. We, the members of the PICES HD Committee, recognize the broad range of faculties, disciplines, experts, training, methodologies, and topics included in “HD”.
2. The Action Plan must consider the key tasks of HD and align wherever possible.
3. The Action Plan must consider that HD committee members bring a wide variety of skills and career experiences. This will likely be an ongoing benefit as well as a challenge for the Committee’s overall mission.

### **HD Action Plan**

#### **1. Key Task: Promoting interdisciplinary research**

##### **Action: Improve HD Committee Integration**

- I. Determine current Human Dimensions ecosystem-related priorities for each member country. Compare and contrast these across member states to identify key focus areas for HD Committee.
- II. Seek more ECOP representation, preferably from each member country.
- III. Determine the types of approaches being taken in member states to achieve integrated ecosystem analyses or other HD integration (preferably, by establishing an Expert Group).
- IV. Present outcomes and address new questions by hosting a workshop on “Progress for Social Sciences/HD Integration in our Understanding of and Responses to Ecosystem Change” at the PICES Annual Meeting.

##### **Action: Support interdisciplinary research in PICES**

- I. Participate in FUTURE SSC and contribute to the planning of interdisciplinary research activities within PICES.
- II. Define and determine areas of possibility in PICES to contribute to ‘transformative ocean science’ (New WG: Human Networks).
- III. Support existing and new SGs and WGs from the appropriate HD perspective (i.e. which faculty/expertise) by providing member state representation (e.g. WG49, WG Human Networks, AP-SciComm, etc.).
- IV. Examine outputs from previous HD SGs and WGs. Compile new knowledge or next steps identified by WGs.
- V. Link MSEAS Meeting to Annual PICES meeting – i.e. “Highlight sessions” and keynote speakers. Have a central place on the 2025 PICES Annual Meeting agenda.

#### **2. Key Task: Coordinating HD research within PICES**

##### **Action: Understand limitations, gaps, and opportunities of HD research in PICES**

- I. Determine how HD is already involved within PICES and its impact on PICES research to date (e.g., Takemura et al. in preparation).
- II. Acknowledge and communicate the broad range of faculties, disciplines, experts, training, methodologies, and topics included in “HD”.
- III. *Work with AP-SciComm to advertise HD opportunities within PICES*

#### **3. Key Task: Explore development pathways from an interdisciplinary lens**

**Action: Explore this key task at the committee level**

- I. Committee level discussions on this key task to determine opportunities to address it.
- II. Participate in the planning process of ICES-PICES collaboration for UN Decade of Ocean Sciences for Sustainable Development and contribute to it with Human Dimension lens (AP-UNDOS)