

## REPORT OF TECHNICAL COMMITTEE ON DATA EXCHANGE

### AGENDA ITEMS 1, 2 AND 3

#### **Welcome and introduction of members, election of Chairman and Vice-Chairman, adoption of agenda**

The meeting of the Technical Committee on Data Exchange (hereafter TCODE) was held from 14:10–18:00 on October 27, 2010. Since both the Chairman and Vice-Chairman were absent, Dr. Skip McKinnell, Deputy Executive Secretary, called the meeting to order and welcomed the participants (*TCODE Endnote 1*). The first business item was the election of a new Chairman and Vice-Chairman to serve for the next three years so Dr. McKinnell asked for nominations. Dr. Toru Suzuki (Japan) was nominated for Chairman and Dr. Hernan Garcia was nominated for Vice-Chairman and both were willing to stand for election. No other nominations were received. The nominees were endorsed unanimously by the participants. Formally, a term of office for the chairman does not begin until the conclusion of the Annual Meeting at which they are elected, Dr. Suzuki was willing to conduct the meeting in the absence of the chair and vice-chair. Several changes were made to the draft agenda and the revised agenda was adopted (*TCODE Endnote 2*).

### AGENDA ITEM 4

#### **Review progress on TCODE Work Plan for 2009/2010**

##### *a) Support of HAB-S work*

TCODE will continue, through Mr. Robin Brown, to support HAB-S work. The submission of HAB data to the ICES/PICES database is uneven and generally poor. United States and Atlantic Canada data are good, whereas Canadian Pacific data are poor. Generally, there is one person in each country who controls these data and this can lead to submission delays. The results are disappointing in both ICES and PICES. Few countries are providing the necessary the metadata (hereafter MDB) information by geographical area. We will continue this item and circulate the information to members. Dr. Igor Shevchenko requested that Mr. Brown register the HAB-S database on the TCODE web site.

##### *b) Cooperation with other data management groups outside PICES*

- i) As a follow up on the unsuccessful ICES Topic Session proposal “*Data for the Masses: Recent advances in the application of Marine Data and Information Management*” at the 2010 ICES Working Group on Data and Information Management (WGDIM) meeting in Nantes, France, it was determined that TCODE would not resubmit a proposal for the 2012 ICES ASC. A discussion of how ICES and PICES should work at the broadest levels, including data management, followed. This issue will be tabled until the results of the PICES/ICES Study Group on *Developing a Framework for Scientific Cooperation in Northern Hemisphere Marine Science* are known. Mr. Brown will encourage the inclusion of data management in those discussions.
- ii) A report from ICES WGDIM in 2009 was given by Dr. Georgiy Moiseenko. His continued participation with this Working Group is encouraged.
- iii) An invitation was received to attend IODE’s (International Oceanographic Data Exchange of IOC) 21<sup>st</sup> session (March 23–26, 2011) in Liège, Belgium. TCODE members suggested that Dr. Suzuki attend the conference as a representative of PICES/TCODE. In addition, he should attend the IODE Scientific Conference (March 21–22, 2011) that precedes this committee meeting. TCODE proposed to Science Board that they support a request for \$3000 for this travel.
- iv) Drs. Garcia and Suzuki expressed their wish to attend the 5<sup>th</sup> meeting of IODE GE-BICH (Group of Experts on Biological and Chemical Data Management and Exchange Practices) from January 17–20, 2011 in Oostende, Belgium. They will report the summary of the meeting at PICES-2012.

##### *c) PICES Metadata Federation project*

- i) Dr. Shevchenko requested that TCODE recommend the renewal of the remote server contract with

- AdHost. Additional storage space will be needed in the upcoming fiscal year (July 2011–July 2012). Dr. Shevchenko estimates that the cost will be approximately \$3000 (up from about \$2000 for this year). TCODE will request that funds be made available by PICES.
- ii) Dr. Shevchenko will continue to administer the AdHost server and Dr. Suzuki will serve as backup.
  - iii) Dr. Shevchenko will run the AdHost server performance experiment (stress test) on accessing metadata from different locations and multiple users. He will approach other TCODE members as participants.
  - iv) Mr. Brown and Dr. John Holmes added 50–60 Canadian metadata records to the PICES Metadata server in addition to the 100 that were already there. Canadian records total about 150 and now all PICES countries are participating.
  - v) TCODE thanks Ms. Tatiana Semenova, intern at the PICES Secretariat, for her work to transfer the PICES Digital Library to the rented server. The rented server will contain a virtual PICES web site and a backup for the PICES web site.
  - vi) It is requested that China, Japan, and Korea move their metadata records to the AdHost server. This will be the responsibility of Drs. Suzuki, Kyu-Kui Jung, and Shevchenko.
  - vii) There are links to MIRC NPEM and KODC servers from the NSDI clearinghouse site that are unusable and should be removed. TCODE needs to look into this and it was requested that Dr. Suzuki try to do this removal. Updating the AdHost server to monitor MDB use was tabled.
  - viii) Dr. Shevchenko will present a poster on this issue at the PICES-2010 poster session (October 28). He and Mr. Brown will also prepare a PowerPoint presentation to explain and promote the GeoNetwork portal. Plans to advertise the GeoNetwork resource at the 3rd PICES summer school on “*Satellite oceanography*” in Seoul, Korea (August 25–28, 2009) and a training course on “*Remote sensing data analysis*” in Vladivostok, Russia (October 8–12, 2011) were/will not be done due to a lack of space. The request to have the GeoNetwork resource reported at next year’s Opening Session was to be tabled and reviewed prior to next year’s Annual Meeting. Plans to have short GeoNetwork resource presentations for MONITOR, FUTURE’s Advisory Panels, SOFE, COVE and AICE, were tabled pending the development of the PowerPoint presentation. The MDB server link on the sidebar has been added to the PICES web page and backup options for the GeoNetwork portal have been explored by Dr. Shevchenko. Mr. Brown and he will continue to update the technical report to reflect GeoNetwork.

d) *TCODE web pages*

Dr. Shevchenko continues to maintain and update TCODE web pages.

e) *FUTURE activities*

Mr. Brown is participating in FUTURE activities and serves as Chairman of the Advisory Panel on *Status, Outlook, Forecast and Engagement* (SOFE-AP).

f) *Update of WG 22 iron database and proposed collaboration with IOC/IODE*

The update of the Working Group on *Iron Supply and its Impact on Biogeochemistry and Ecosystems in the North Pacific Ocean* (WG 22) iron database and proposed collaboration with IOC/IODE has not been done but will continue to be the responsibility of Mr. Brown.

g) *Metadata reporting from NPESR*

The recent publication of the North Pacific Ecosystem Status Report (PICES Special Publication 4, 2010) will be examined by Mr. Brown to see if the metadata in the report is in the TCODE MDB.

h) *Coordination with Section on Carbon and Climate*

Dr. Suzuki discussed coordination with the Section on *Carbon and Climate*, including a description of their database.

i) *Activities with MONITOR*

The coordination of activities with MONITOR will continue as the responsibility of Dr. Thomas Royer, with the gathering of MONITOR activities through their reports and correspondence.

j) *PICES-2011 Topic Session proposals*

The TCODE e-poster Topic Session on “*Monitoring and ocean observing systems*” at PICES-2010 and a proposal for a Topic Session at PICES-2011 were discussed. Since there were only three e-posters in 2010, it was decided not to give an award for the top poster. It was suggested that TCODE hold a joint e-poster session on monitoring and data management systems with MONITOR at PICES-2011. The theme of that meeting is “*Ecosystem reorganization – tracking changes in ecosystems and their status*”. Conveners are needed for that session. A joint session with CREAMS-AP/POC/BIO/MONITOR is a possibility to address permanent observations and data exchanges in East Asia Marginal Seas in the PICES region. (The topic was later changed to “*How well do our models really work and what data do we need to check and improve them?*” and was co-sponsored by MONITOR and FUTURE; TCODE later announced an e-poster Topic Session on “*Data and data systems for validation of numerical models*” (TCODE Endnote 3)).

k) *Relationships with other international organizations*

The request to have an *ex-officio* member from OBIS (Ocean Biogeographic Information System) was tabled pending further discussions with OBIS on the situation and the purpose of such an appointment. Dr. Suzuki will investigate this with IODE.

l) *POMA nominations*

A call will come in December for nominations for the PICES Ocean Monitoring Service Award (POMA) and candidates will be voted on by MONITOR and TCODE. Candidates from previous years will continue to be considered and will need to be resubmitted to the Secretariat for consideration for 2011. Members of TCODE were requested to think about likely candidates and to have their nominations ready before the inter-sessional Science Board Meeting in April 2011.

m) *Renewal of rented server*

A proposal to renew the rented server for next year was prepared by Dr. Shevchenko and a request for its funding was presented to the Science Board for consideration.

n) *Metadata submissions*

A discussion of how TCODE can encourage the submission of metadata was conducted. Dr. Shevchenko presented a PowerPoint and requested that TCODE members view his poster during the poster session. It was suggested that this PowerPoint of the GeoNetwork portal be circulated and/or presented to the other PICES Committees. A presentation at the Science Board Symposium at PICES-2011 might be an appropriate venue. Dr. Garcia indicated that it might be possible to pursue a more formal approach to encourage metadata submissions.

AGENDA ITEM 5

**Report of FUTURE AP meetings**

Mr. Brown, Dr. Shevchenko and Dr. Suzuki reported on the summaries of SOFE-AP, AICE-AP and COVE-AP meetings, respectively.

AGENDA ITEM 6

**Annual country reports**

Canada, Japan and Russia presented their annual activities of oceanographic data and information.

## TCODE-2010

### AGENDA ITEM 7

#### **Relation with other international programmes/organizations**

TCODE continues to investigate a relationship with ICES, IOC/IODE, OBIS and other international programmes and organizations.

### AGENDA ITEM 8

#### **Summary of items with financial implications**

Dr. Suzuki's request of \$3,000 for travel support to attend an IODE XXI session in Liège, Belgium; Dr. Shevchenko proposal of \$3,000 to continue renting a server with expanded capability for next year; TCODE's request for travel support for an invited speaker for PICES-2011 in Khabarovsk, Russia were presented to Science Board at the PICES Annual Meeting.

### AGENDA ITEM 9

#### **Discussion and adoption on the TCODE work plan 2010/2011**

Members of TCODE discussed the work plan for 2010/2011 and adopted it (*TCODE Endnote 4*).

#### **TCODE Endnote 1**

##### **TCODE participation list**

##### Members

Robin Brown (Canada)  
Hernan Garcia (U.S.A.)  
Georgiy Moissenko (Russia)  
Tom Royer (U.S.A.)  
Yin Ruguang (China)  
Igor Shevchenko (Russia)

Toru Suzuki (Japan)  
Tomowo Watanabe (Japan)  
Ninsheng Yang (China)

##### Observer

Skip McKinnell (PICES)

#### **TCODE Endnote 2**

##### **TCODE meeting agenda**

- 1) Welcome and introduction of members
- 2) Election of chairperson and vice-chairperson in triennial 2011–2013
- 3) Adoption of agenda
- 4) Review progress on TCODE Work Plan for 2009/2010
  - a) Continue to support HAB-S work (R. Brown)
  - b) Cooperation with other data management groups outside PICES
    - i) Follow up on the unsuccessful ICES Topic Session proposal at the 2010 WG on Data and Information Management meeting in Nantes, France (T. Suzuki [B. Megrey])
    - ii) ICES WG on Data and Information Management (G. Moiseenko)
    - iii) IODE-XXI (T. Suzuki)
    - iv) IODE GE-BICH (H. Garcia and T. Suzuki)
  - c) PICES Metadata Federation project
    - i) Renew Remote server contract (I. Shevchenko)
    - ii) Continue to administer AdHost server (I. Shevchenko)

- iii) Run the AdHost server performance experiment on accessing metadata from different locations and multiple users (I. Shevchenko [B. Megrey])
- iv) Brown and Holmes will gather some Canadian metadata records to establish a Canadian presence on the PICES Metadata server. Report on progress at next year TCODE meeting (R. Brown)
- v) Request SB suggest to GC that next PICES intern (Tatiana Semenova) assist with the transfer of the PICES Digital Library to the rented server. Report on status of PICES Digital Library migration and Ecosystem Status Report web pages (I. Shevchenko)
- vi) Japan, Korea and Canada move their metadata records to the AdHost server (T. Suzuki, K-K. Jung, R. Brown, I. Shevchenko)
- vii) Remove NPEM and KODC servers from the NSDI clearinghouse site [B. Megrey]
- viii) Update AdHost server to monitor MDB use (Olga Vasik)
- ix) Promote the GeoNetwork Portal
  - (1) Prepare short PowerPoint presentation on GeoNetwork portal (I. Shevchenko [B. Megrey])
  - (2) Request GeoNetwork resource be advertised at PICES Summer in Seoul (June 2010) and Winter school in Vladivostok (February 2010) (I. Shevchenko [B. Megrey])
  - (3) Request GeoNetwork resource be reported at next years opening session as part of PICES activities\_(I. Shevchenko [B. Megrey])
  - (4) Plan to have a short presentation on the GeoNetwork resource be given at the MONITOR (and other committee's?) meetings (request at front of the agenda and delay start of TCODE). Prepare a presentation for SOFE, COVE and AICE (I. Shevchenko, R. Brown)
  - (5) Add the MDB server link on the sidebar of the PICES web page
    - (a) Explore GeoNetwork Portal backup options (I. Shevchenko)
    - (b) Update the Technical report to reflect GeoNetwork (I. Shevchenko)
- d) Maintain TCODE web pages (I. Shevchenko)
- e) Participate in FUTURE activities (R. Brown)
- f) Update of WG 22 iron database and proposed collaboration with IOC/IODE (R. Brown)
- g) Use preparation of NPESR to examine participation of metadata reporting (R. Brown)
- h) Coordination with CC-S (Section on *Carbon and Climate*) (T. Suzuki)
- i) Coordination of Activities with MONITOR (Tom Royer)
- j) PICES-2011 Topic Session proposals (All)
- k) Relationships with other international organizations  
TCODE will request the Science Board instruct the PICES Secretariat to invite Edward Vanden Berghe (OBIS, USA) to join TCODE as an *ex-officio* member (T. Suzuki [B. Megrey])
- l) POMA Nomination  
Nominations will be prepared by Hernan Garcia, K.-K. Jung and R. Brown
- m) Prepare proposal to renew rented server for another year (I. Shevchenko [B. Megrey])
- n) Develop strategy to award and encourage metadata submission (All)
- o) Add TCODE web site to collect and distribute TCODE documents (H. Garcia)
- 5) Report of FUTURE AP meetings (R. Brown, I. Shevchenko, T. Suzuki)
- 6) Annual country reports
- 7) Relation with other international programmes/organizations
- 8) Summary of items with financial implications
  - a) Proposed inter-sessional meetings for 2011 and beyond
  - b) Proposed publications for 2011 and beyond
  - c) Travel support requests
  - d) Proposal to continue rented server for another year
  - e) Other items
- 9) Discussion and adoption on the TCODE work plan 2010/2011
- 10) Other business
- 11) Closing

**TCODE Endnote 3**

**Proposal for an electronic poster session on  
“Data and data systems for validation of numerical models” at PICES-2011**

Significant physical, chemical, biological and fisheries information has been assembled from ocean monitoring and observing systems. Data and data products from these repositories are provided for users in many fields of ocean sciences. Contributors to this session will demonstrate standalone and web-based applications for exploring, viewing, analysing and distributing data and data products that can be used to force and/or evaluate The ocean circulation and ecosystem models that support the goals of FUTURE. Traditional poster presentations are also welcome. This session is linked with MONITOR/FUTURE Topic Session on “How well do our models really work and what data do we need to check and improve them?”.

Recommended convenors: Igor Shevchenko (Russia) and TBD

**TCODE Endnote 4**

**TCODE work plan 2010/2011**

- 1) Continue to support, coordinate, and identify of PICES data and information products
  - a) MONITOR (T. Royer)
  - b) AICE-AP (HAB-S, WG21, WG24) (I. Shevchenko and R. Brown (HAB-S))
  - c) COVE-AP (CC-S, WG20, WG22, WG23) (T. Suzuki and R. Brown (WG22))
  - d) SOFE-AP (WG-FCCIFS, SG-HD) (R. Brown)
  - e) CREAMS-AP (T. Suzuki)
  - f) CRP-AP (TBD)
  - g) MBM-AP (TBD)
- 2) Cooperation with other data management groups and activities
  - a) ICES WG on Data and Information Management (WGDIM) (G. Moiseenko)
  - b) IODE-XXI Session in March 2011 (T. Suzuki)
  - c) IODE GE-BICH in January 2011 (H. Garcia and T. Suzuki)
  - d) IODE ODP (T. Suzuki)
  - e) OBIS (TBD)
  - f) Invitation of *ex-officio* member (T. Suzuki)
- 3) PICES Metadata Federation Project
  - a) Renew Remote server contract (I. Shevchenko)
  - b) Continue to administer AdHost server (I. Shevchenko)
  - c) Prepare proposal to renew rented server for another year (I. Shevchenko)
  - d) Develop strategy to award and encourage metadata submission (All)
  - e) Run the AdHost server performance experiment on accessing metadata from different locations and multiple users (I. Schevchenko and All)
  - f) China, Japan and Korea move their metadata records to the AdHost server (R. Yin (China), T. Suzuki (Japan), K-K. Jung (Korea), I. Shevchenko)
  - g) Remove NPEM, KODC, MIRC servers from the NSDI clearinghouse site (TBD (NPEM), TBD (KODC), T. Suzuki (MIRC))
  - h) Update AdHost server to monitor MDB use (Olga Vasik)
  - i) Promote the GeoNetwork Portal
    - i) Prepare short PowerPoint presentation on GeoNetwork portal (I. Schevchenko and R. Brown)
    - ii) Request GeoNetwork resource be reported at PICES 2011 opening session as part of PICES activities (I. Schevchenko)
    - iii) Prepare a presentation for Expert Groups (I. Shevchenko and R. Brown)
    - iv) Add the MDB server link on the sidebar of the PICES web page
      - (1) Explore GeoNetwork Portal backup options (I. Shevchenko)
      - (2) Update the Technical report to reflect GeoNetwork (I. Shevchenko, H. Garcia, R. Brown)

- 4) Maintain TCODE web pages (I. Shevchenko)
  - 5) PICES 2011 E-Poster Session  
Responsibility – I. Schevchenko (convenor)
  - 6) PICES 2011 POC/MONITOR/TCODE Workshop (T. Suzuki (co-convener))
  - 7) Topic Session and/or Workshop Proposals to PICES 2012 in Hiroshima, Japan (All)
  - 8) POMA nomination
- Three remaining nominations will be rolled over to the next year for consideration at the next inter-sessional SB meeting. Recommendation of new nominations will be prepared before the next inter-sessional Science Board meeting in April 2011 by H.Garcia.