

## REPORT OF THE 2008 INTER-SESSIONAL SCIENCE BOARD MEETING

The sixth inter-sessional Science Board meeting, met from 8:45–17:00 h on April 25, 2008 at the Deca Hotel, Seattle, U.S.A., following a successful 2-day workshop to implement a new science program for PICES on “*Forecasting an Understanding Trends, Uncertainty and Responses on North Pacific Marine Ecosystems*” (FUTURE) prior to the inter-sessional meeting. Science Board Chairman, Dr. John E. Stein, called the meeting to order and welcomed participants, including new Technical Committee members, Dr. Hiroya Sugisaki (MONITOR) and Bernard A. Megrey (TCODE) (*SB-IM Endnote 1*). The meeting agenda is provided in *SB-IM Endnote 2*.

### AGENDA ITEM 2

#### **Action items from the FUTURE implementation workshop**

Dr. Stein summarized the events of the FUTURE implementation workshop that took place April 23–24. Because FUTURE will have a time span of about 10 years, he advised participants who would not be seeing the Program through to completion to encourage younger colleagues who were interested in any aspects of FUTURE to become involved.

**Action:** Science Board members to communicate with the next generation of scientists who may be interested in being involved in FUTURE.

### AGENDA ITEM 3

#### **Mid-term updates**

The following interim report highlights are found in the full Committee reports of this Annual Report.

#### *Biological Oceanography Committee (BIO)*

BIO Committee Chairman, Dr. Michael J. Dagg, presented his Committee’s interim report which includes the following highlights. The Section on *Carbon and Climate*’s (CC-S) revised terms of reference were accepted by BIO (and POC) and endorsed by Science Board. Dr. Dagg indicated that he would like to defer decision on the Advisory Panel on *Marine Birds and Mammals*’s (MBM-AP) request to modify its terms of reference until PICES XVII in order to give the BIO Committee time to discuss the modifications. MIE-AP is working to complete sample sorting from its first (MIE-1) cruise and to make up a verified species list for a PICES Scientific Report. It is not clear how closely Dr. Andrei V. Suntsov, now at Scripps Institution of Oceanography, California, will be able to work with Dr. Richard Brodeur, at the Hatfield Marine Science Center, Oregon, in order to complete the report by PICES XVII.

#### **Action**

Dr. Dagg to:

- Discuss MBM-AP’s recommendation for revised terms of reference with BIO and inform Science Board of the results by PICES XVII;
- Discuss status of MIE-AP’s PICES Scientific Report with MIE Co-Chairmen.

#### *Fishery Science Committee (FIS)*

FIS Committee Chairman, Dr. Gordon H. Kruse, discussed the following main points of his Committee’s interim report. Dr. Akihiko Yatsu (representing Japan), became a new member, replacing Dr. Yukimasa Ishida.

The FIS subsidiary group working on forecasting climate impacts on future fish production has drafted a report on their two NPRB-sponsored workshops on “*Forecasting climate impacts on future production of commercially exploited fish and shellfish*”. The group, now working in conjunction with CFAME and WG 20, has planned a workshop to be held on May 18, 2008 in conjunction with the International Symposium on the Effects of Climate Change on the World’s Oceans in Gijón, Spain.

An ICES/PICES/UNCOVER Symposium on “*Rebuilding depleted fish stocks – Biology, ecology, social science and management strategies*” will be held November 2–5, 2009 in Warnemünde/Rostock, Germany. Dr. Kruse was named as a PICES co-convenor. Since PICES works closely with ICES on many events, Dr. Kruse requested that PICES consider offering either travel support for a PICES member of the ICES SSC (an Asian scientist if Dr. Kruse is to be a Co-convenor) or a Pacific plenary speaker (Ray Hilborn, U.S.A.), and travel support for early career scientists.

#### *Marine Environmental Quality Committee (MEQ)*

Dr. Glen Jamieson, Chairman of the MEQ Committee, presented his Committee’s interim report. At the 2007 inter-sessional Science Board meeting in Yokohama, Japan’s Ministry of Agriculture, Forestry and Fisheries announced that it was making voluntary contributions to PICES which would allow MEQ to coordinate the SSP Project to be studied by HAB-S and WG 21. Dr. Jamieson related progress on both the HAB-S Seafood Safety Project (SSP) and the Alien Species Project (ASP). SSP Principal Investigators (PIs) are focusing first on Southeast Asia, and have been in frequent contact with IOC/WESTPAC regarding project strategy and plans since the IOC has involvement in countries of PI interest. Dr. Jamieson requested advice from Science Board on how SSP investigators should interact with the IOC. Also, because the funding from Japan was for 5 years, Dr. Jamieson pointed out that PICES WG 21 on *Non-indigenous Aquatic Species* will need to continue to be involved after its expected 3-year lifespan, to 2009, as funding from MAFF is for 5 years.

The Working Group on *Ecosystem-based management science and its application to the North Pacific* (WG 19) is planning to have a draft final report ready for their meeting in late spring, 2008, to allow for review and revision before presenting the final at PICES XVII in Dalian, China. When the Working Group terminates after PICES XVII, a Task Team is planned that will build upon the work of WG 19 and be integrated into the context of FUTURE. The proposed name for the proposed Task Team is *PICES Understanding, Linking and Synthesis of Ecosystems* (PULSE) whose emphasis will be on developing a more integrative, science-based ecosystem-scale understanding of the human dimension in FUTURE. The Task Team will be a good place to engage social scientists, and it was proposed to place it under the FUTURE program.

The Working Group on *Non-indigenous Aquatic Species* (WG 21) is presently focusing on work related to MAFF funding, and is currently finalizing the setup of a comprehensive non-indigenous species (NIS) database which will be available online in October 2008. A meeting on Rapid Assessment for Marine NIS will take place in October, and there will be discussion to determine whether to use a centralized or a distributed database for each PICES member country to contain and compare species information. In order to complete the MAFF work, the Working Group proposes to revise its terms of reference to include this work, and extend the group’s duration. Science Board expressed a willingness to extend the 3-year timeline for the Group provided they expand their terms of reference to be more explicit, show more milestones, and provide more deliverables.

#### **Action**

Secretariat to:

- Consult with the Japanese government to determine if the SSP should be a joint PICES/IOC project in Latin America and Southeast Asia;
- Determine whether or not PICES should continue to be involved in a SSP after the termination of MAFF funding for the SSP.
- Ms. Darlene Smith and Dr. Vasily Radashevsky, Co-Chairs of WG 21, to provide Science Board with more explicit terms of reference, showing its milestones and providing more deliverables.

*Physical Oceanography and Climate Committee (POC)*

POC Committee Chairman, Dr. Michael Foreman, presented his Committee's interim report to Science Board. The CREAMS/PICES-AP will hold a workshop on the Korean EAST-I Program in June or July in Seoul, Korea, but the Workshop on "*Flux studies in marginal seas*" has been postponed until spring 2009. A second PICES summer school on "*Ecosystem-based management*" will be held August 23–26, 2008 at Hokkaido University, Hakodate, Japan. A third PICES summer school on "*Satellite oceanography*" is planned for Busan, Korea in 2009.

The Working Group on "*Evaluations of climate change projections*" (WG 20) Co-Chairman, Dr. Michael Foreman, participated in a CFAME workshop in Honolulu, U.S.A. April 15–17, 2008. Preparations are being made by CFAME to publish papers in peer-reviewed journals, such as *Science*, and to provide a PICES Scientific Report. Dr. Foreman requested that PICES provide funding to offset the cost of finalizing figures for CFAME's submission. WG 20 is holding a joint workshop with CFAME and FIS at PICES XVII, and suggests that CFAME member, Dr. Vera Agostini (U.S.A.), be invited to present a talk at the Science Board Symposium.

Dr. Foreman announced that the POC Committee would like to propose publishing a set of papers on "Tides in Marginal Seas" as a special publication in *Progress in Oceanography* in memory of the Russian physical oceanographer, Professor Alexei Nekrasov, who recently passed away. Guest editors will be Drs. Boris Kagan, Alexander Rabinovich and Michael Foreman, and the deadline for submissions is November 2008. PICES Executive Secretary, Dr. Bychkov, stated that PICES will support the proposal provided that 60% of the papers apply to the PICES region.

Membership changes: Drs. Dake Chen and Zhanggui Wang, representing China, replaced Drs. Jinping Zhao and Mingyu Zhou.

**Action:**

- Secretariat to provide funding up to \$2K for CFAME figures to appear in a PICES Scientific Report and paper to be submitted to a primary publication.
- Science Board Chairman to contact Dr. Agostini to be an invited speaker at the Science Board Symposium.

*Technical Committee on Monitoring (MONITOR)*

MONITOR Technical Committee Chairman, Dr. Hiroya Sugisaki, presented a brief update of his Committee's activities. The Continuous Plankton Recorder Advisory Panel (CPR-AP) now has an East–West (Canada–Japan) transect. Data for 600 samples can be found on-line on the PICES website. Ongoing funding remains an issue for the CPR Pacific project. At PICES XVI, MONITOR asked Science Board to approve the establishment of a consortium that would share the costs among a group of donors. The Secretariat sent letters to five organizations in the U.S. and one in Canada, and responses received indicated general support for the idea of a consortium, but so far there is a firm commitment only from the North Pacific Research Board for \$50K in 2008.

Professor Young-Jae Ro attended the 2008 GOOS Scientific Steering Committee meeting (GSSC-XI) and scientific workshop in Paris, France on April 7–10 where he gave a talk on the activities of PICES and MONITOR.

*Technical Committee on Data Exchange (TCODE)*

TCODE Technical Committee Chairman, Dr. Bernard A. Megrey, presented highlights of his Committee's interim report to Science Board. Dr. Megrey contacted current and former chairmen of the ICES Working Group on *Data and information management* (WGDIM) to discuss areas of potential collaboration between TCODE and WGDIM. TCODE was invited to give a presentation of a WGDIM-sponsored session on

“*Environmental and fisheries data management, access, and integration*” at the ICES ASC in Halifax, Canada in September 2008.

It is hoped that Dr. Toru Suzuki will agree to stand in for Dr. Ling Tong who is not able to represent PICES at the upcoming 7th NOWPAP DINRAC (Northwest Pacific Action Plan Data and Information Regional Activity Center) Focal Points meeting in Beijing, China, May 13–14, 2008.

PICES Technical Report No. 1 on *Metadata Federation of PICES Member Countries* has been updated to include instructions to install the clearinghouse software and metadata on a Windows server. Installation instructions for a Linux server were circulated with the original document.

Drs. Igor I. Shevchenko and Megrey are administering a server rented by the PICES Secretariat from AdHost (a Seattle internet provider) which will help consolidate all PICES metadata clearinghouse nodes onto one computer. Plans are being made for the Secretariat to transfer their digital library to this resource, which will provide faster access to large PDF and Power Point files of meeting presentations. The Russian TINRO node and the U.S. NPEM node have been successfully ported. TCODE is working with the National Marine Data and Information Service in Tianjin, China to establish their node and for Korea and Japan to transfer their nodes.

TCODE is working with MONITOR to implement the global (GOOS) and regional (IOOS) ocean observing systems.

**Action:** Secretariat to contact Dr. Toru Suzuki to represent PICES at the NOWPAP DINRAC Focal Points meeting in Beijing, China May 2008.

#### *Climate Change and Carrying Capacity Program Implementation Panel (CCCC-IP)*

Implementation Panel Co-Chairman, Dr. Harold P. Batchelder, highlighted items of the CCCC-IP’s interim report. Papers covering three themes from the Symposium on “*Climate variability and ecosystem impacts on the North Pacific*” held in Honolulu, U.S.A. in April 2006 will be published in a special issue of *Progress in Oceanography* within the next few weeks. A final CCCC report will be written by Co-Chairman, Prof. Michio J. Kishi for a PICES Scientific Report. Dr. Batchelder will assist by gathering all PICES-sponsored papers published since the CCCC’s inception.

The Climate Forecasting and Marine Ecosystems Task Team (CFAME) held an inter-sessional meeting on “*Linking and visualizing climate-forcing mechanisms and marine ecosystem changes: A comparative approach*” in Honolulu, April 15–17, 2008. Invited members from WG 20 and WG 19 also participated. After PICES XVII, CFAME plans to submit a summary paper of climate–ecosystem effects on three North Pacific ecosystems to a top science journal and a further three manuscripts, one for each ecosystem, to a different journal. A PICES Scientific Report will also be produced.

#### **Action**

- Dr. Batchelder to contact GLOBEC International for archived PICES-sponsored papers;
- Secretariat to contact National GLOBEC projects for lists of CCCC-related papers.

#### AGENDA ITEM 4

#### **Action Plans of each Committee and Program**

Dr. Stein reminded members that as the FUTURE Implementation Plan develops, Committees will need to discuss how their Action Plans will align with FUTURE.

**Action:** Committee Chairmen to discuss with their members how Committee Action Plans will align with FUTURE, before PICES XVII.

## AGENDA ITEM 5

**High priority activities**

At the 2007 inter-sessional Science Board/Governing Council meeting in Yokohama, Japan, Science Board unanimously endorsed PICES Deputy Executive Secretary, Dr. Skip McKinnell, to take the lead in the preparation and publication of the next North Pacific Ecosystem Status Report (NPESR). However, Dr. McKinnell was unable to devote the majority of his time to this project without jeopardizing his duties and responsibilities within the Secretariat. In view of this, a plan to invite an outside expert who could dedicate time to preparing the report, in collaboration and consultation with Dr. McKinnell, was discussed. Experts for each PICES region will form the editorial board.

**Action**

- Drs. Stein/Pooley to send a proposal to NOAA for a scientist willing and able to dedicate time to preparing the second North Pacific Ecosystem Status Report;
- Dr. McKinnell to contact experts to form an editorial board for NPESR;
- MEQ Committee to search for a contaminants expert for the report.

## AGENDA ITEM 6

**Interactions with other organizations**

Since 2003, PICES has experienced steady growth in the number of organizations or programs that have accepted invitations to be observers at PICES Annual Meetings. The highest attendance to date was at PICES XVII in 2007, with 25 organizations being represented. Of these, representatives of 19 addressed either Council, Science Board or Committees. The BIO, FIS, and POC Committees hosted the most observers, and their Chairmen recommended that in future, the invitees address only essential items and limit their presentations to 5 minutes.

Science Board agreed to co-sponsor a GLOBEC Open Science Meeting in Victoria, Canada on June 22–26, 2009. PICES will provide travel support for invited speakers and early career scientists, and will assist with local arrangements, as needed.

At the request of PICES, Science Board Vice-Chairman, Dr. Sinjae Yoo, and MONITOR Chairman, Dr. Hiroya Sugisaki, attended NOWPAP's First Coastal Environmental Assessment Workshop in Toyama, Japan on March 7, 2008. Dr. Yoo recommended that it would be mutually beneficial for PICES and NOWPAP to become more involved with each other's activities, especially in the development of FUTURE. Dr. Yoo advised sending an expert on eutrophication to a YSLME-NOWPAP workshop on eutrophication in Senyang, China in June 2008.

The Standing List of International Organizations and Programs, which indicates high priority organizations/programs to whose meetings PICES should regularly send a representative, was reviewed and updated (*IM-SB Endnote 3*).

**Action**

Secretariat to:

- Instruct potential observers to provide background information in a letter or poster presentation, and to focus only on specific meetings and funding requests at a meeting;
- Contact Dr. Paul Harrison (Hong Kong University of Science and Technology) to represent PICES at the eutrophication workshop in Senyang, China.

AGENDA ITEM 7

**2007 Wooster Award and POMA**

Members discussed adjustments to be made to the selection criteria for the POMA (PICES Ocean Monitoring Service Award): one award will be given per year; unselected worthy nominations will be retained in a pool of potential candidates for subsequent year(s) and any unranked nominations will need to be resubmitted in order to be considered again; MONITOR and TCODE Technical Committees are to provide rankings independent of each other. Documents for the 2007 Wooster Award and POMA were reviewed and discussed *in camera* by Science Board.

**Action:** Secretariat to revise POMA selection criteria.

AGENDA ITEM 8

**PICES policy on Affiliate status**

Science Board reviewed a draft report of the Affiliate Members Policy and it was unanimously endorsed. Members concluded that items b. (scientists from affiliated institutes could be members of a Scientific Program, Scientific or Technical Committee) and c. (scientists from affiliate institutes could be full members of Sections, Task Teams, Study Groups, and Working Groups of PICES) of the ICES affiliate model were the most relevant to Science Board.

**Action:** PICES Chairman, F&A Chairman, and Secretariat to prepare a second draft of the Affiliated Status policy.

AGENDA ITEM 9

**Status of inter-sessional workshops/symposia**

Science Board recommended travel support for scientists to attend the 6th International Conference on “*Marine Bioinvasions*” to be held in summer 2009 in Portland, U.S.A.

AGENDA ITEM 10

**Status of proposed publications (Agenda Item 10)**

A set of selected papers from a co-sponsored ICES/PICES topic session on “*Comparative marine ecosystem structure and function: descriptors and characteristics*” convened by Drs. Bernard A. Megrey, Jason S. Link, Webjørn Melle and Ian Perry will be published in *Progress in Oceanography* in 2009. Guest editors will be Bernard A. Megrey, Jason S. Link, and Erland Moksness.

Science Board endorsed the proposed special issue of papers on “*Tides in marginal seas*” dedicated to the memory of Russian physical oceanographer, Professor Alexei Nekrasov to the journal *Progress in Oceanography*. Dr. Batchelder stated that there might be a final CFAME report to be published in the PICES Scientific Report series although it is preferred that it be incorporated into the final report of CCCC Program scheduled for submission in 2009. Science Board supported funding for the preparation of high quality figures for a CFAME paper to be submitted to a primary journal, as long as the figures could be used in a PICES Scientific Report. Dr. Kruse announced that papers from PICES XVII Topic Session S4 on “*Institutions and ecosystem-based approaches for sustainable fisheries under fluctuating marine resources*” may go to a primary journal/PICES Scientific Report.

**Action:** Secretariat to contact the editor of *Progress in Oceanography* to make arrangements for a special issue on “*Tides in marginal seas*”.

## AGENDA ITEM 11

**Status of preparations for PICES XVII**

The status of proposed invited speakers for PICES XVII was reviewed and discussed. Dr. Stein proposed that Dr. Vera Agostini would be a valuable contribution to the Science Board Symposium as an invited speaker but that PICES should only need to pay half her expenses. Since not all invited speakers have been decided for this year's Annual Meeting, it was decided that, in future, Science Board will consider proposals for sessions only when convenors have been recruited; when there are more than 2 convenors for a session, the Committee Chairman will appoint one convenor to take responsibility for invitations. Invited speakers are to be selected by no later than the end of the year. Science Board recommended that there be no workshop for the FUTURE Writing Team at PICES XVII.

To expedite preparation of Science Board decisions in a report to Council at future Annual Meetings, Dr. Stein proposed that Committee/ Program Chairmen use a template that he had developed which consists of two parts: one for Science Board business and one with Science Board decisions to present to Council for endorsement.

Dr. Batchelder proposed that PICES change its nomenclature for PICES Annual Meetings from the Roman numeral system to a year-venue system, *i.e.*, PICES 2008, Dalian.

**Action**

- Science Board Chairman to circulate recommendations template by email to Science Board after making minor edits.

Committee Chairmen to:

- Have convenors recruited and session summaries prepared for PICES XVIII by the Annual Meeting in Dalian;
- Decide on invited speakers for PICES XVIII by December 2008;
- Appoint a lead convenor to organize invitations if there are more than 2 convenors for a session.

## AGENDA ITEM 12

**Selection of PICES XVIII topic sessions**

Science Board reviewed the suggested theme for PICES XVIII and recommended three minor modifications. Dr. Stein asked the Committee/Program Chairmen to immediately begin discussions on potential topic sessions and convenors/speakers.

**Action:** Secretariat to make minor modifications to theme for PICES XVIII.

## AGENDA ITEM 13

**Capacity building actions**

Dr. Yoo presented a draft proposal for a 4-day PICES summer school on "*Satellite Oceanography*" in Seoul, Korea in 2009. The major coordinator of the school will be a scientist from Seoul National University. Dr. Yoo requested that PICES fund travel costs for 5 non-Korean students and 1 foreign lecturer.

Dr. McKinnell suggested that a capacity building programming language course on "R" (a freeware scientific programming and graphics language similar to Matlab) be held at a future Annual Meeting, as it is becoming a useful tool in marine sciences. Science Board expressed interest but no firm plans were made on when to hold the course.

## **SB-IM-2008**

### AGENDA ITEM 14

#### **Status of membership**

Science Board reviewed the memberships all Committees/Program and their subsidiary bodies and noted that China had added members in several areas. The Board suggested that a participation list would be a useful tool in determining attendance at future PICES Annual Meetings.

### AGENDA ITEM 15

#### **Committee Chairmen and Vice-Chairmen**

Dr. Kruse announced that he will not seek re-election as FIS Chairman at PICES XVII. Dr. Batchelder declared that CCCC will be holding its last meeting at PICES XVII.

### AGENDA ITEM 16

#### **Proposals for new PICES expert groups**

The proposal to form a Task Team on *PICES understanding, linking and synthesis of ecosystems* (PULSE) under MEQ was endorsed by Science Board. It was recommended that the proposal be forwarded to the FUTURE Writing Team Co-Chairmen, Dr. James E. Overland and Hiroaki Saito for consideration as a component of FUTURE.

An ICES/PICES co-sponsored meeting on “*Environmental interactions of marine aquaculture*” was held in Victoria, Canada on April 14–18 to assess whether or not there was sufficient interest to establish a working group. All PICES countries except China were represented. Since the ICES/PICES and inter-sessional Science Board meetings were held so closely together, Dr. Michael Rust had only a short time to prepare a draft Action Plan for a Working Group on *Environmental interactions of marine aquaculture* before submitting it to Science Board just prior to its meeting, leaving little time for review. After the FIS and MEQ Committee Chairmen distribute the Plan to their members for discussion, recommendations will be anticipated for discussion at PICES XVII.

#### **Action**

- Secretariat to send a proposal for a Task Team on *PICES understanding, linking and synthesis of ecosystems* (PULSE) to FUTURE Writing Team Co-chairmen for consideration as a component of FUTURE.
- Drs. Jamieson and Kruse to discuss the draft Action Plan for a Working Group on *Environmental interactions of marine aquaculture* with their Committees and have recommendations ready by PICES XVII.

### AGENDA ITEM 17

#### **Other business (Agenda Item 17)**

Travel support requests for the ICES Symposium on “*Rebuilding depleted fish stocks – Biology, ecology, social science and management strategies*” and the selection of an appropriate representative to send to the YSLME-NOWPAP workshop on eutrophication in Senyang, China were finalized (see Agenda Items 2 and 6).

**SB-IM Endnote 1****Science Board participation list**Science Board

Harold P. Batchelder (Co-Chairman, CCCC-IP)  
 Michael J. Dagg (Chairman, BIO)  
 Michael G. Foreman (Chairman, POC)  
 Glen Jamieson (Chairman, MEQ)  
 Michio J. Kishi (Co-Chairman, CCCC-IP)  
 Gordon H. Kruse (Chairman, FIS)  
 Bernard A. Megrey (Chairman, TCODE)  
 John E. Stein (Chairman, Science Board)  
 Hiroya Sugisaki (Chairman, MONITOR)  
 Sinjae Yoo (Vice-Chairman, Science Board)

Governing Council

Vera Alexander (Past Chairman, PICES)  
 Samuel Pooley (Delegate, U.S.A.)  
 Igor I. Shevchenko (Advisor, Russia)  
 Ming Yuan Zhu (Alternate Delegate, People's  
 Republic of China)  
 Tokio Wada (Chairman, PICES)

PICES Secretariat

Alexander Bychkov (Executive Secretary)  
 Christina Chiu (Deputy Executive Secretary on  
 Administration)  
 Skip McKinnell (Deputy Executive Secretary)

**SB-IM Endnote 2****Inter-sessional Science Board meeting agenda*****Friday, April 25, 2008***

1. Welcome and introduction of new members
2. Action items from the FUTURE implementation workshop
3. Mid-term update on activities of Committees and CCCC Program and their Subsidiary Bodies
  - 3.1 BIO (Dagg)
  - 3.2 FIS (Kruse)
  - 3.3 MEQ (Jamieson)
  - 3.4 POC (Foreman)
  - 3.5 MONITOR (Sugisaki)
  - 3.6 TCODE (Megrey)
  - 3.7 CCCC (Batchelder/Kishi)
4. Action Plans of each Committee and Program
5. High priority activities
6. Interactions with other organizations
7. 2007 Wooster and POMA Awards
8. PICES policy on Affiliate status
9. Status of proposed inter-sessional workshops/symposia
10. Status of proposed publications
11. Status of preparations for PICES XVII (Dalian, China)
12. Selection of PICES XVIII topic sessions (Busan, Korea)
13. Capacity building actions
14. Status of proposed changes in membership for committees/program and their subsidiary bodies
15. Committee Chairmen and Vice-Chairmen
16. Proposals for new PICES expert groups
17. Other items

## IM-SB Endnote 3

**Standing List of International Organizations and Programs**

The Standing List of International Organizations and Programs, which facilitates PICES interactions with other programs, and indicates high priority organizations/programs to whose meetings PICES should regularly send a representative, was updated by Science Board at the inter-sessional Science Board meeting in Seattle, U.S.A. in April 2008. Updates to the list for 2008 were the addition of YSLME, changes from BEST to BEST/BSIERP and from NANOOS-IOOS to NANOOS, and deletion of SCOPE:

YSLME	Yellow Sea Large Marine Ecosystem project
BEST/BSIERP	Bering Ecosystem Study/Bering Sea Integrated Ecosystem Research Program
NANOOS	Northwest Association of Networked Ocean Observing Systems

The following list is used, in part, to assist the Executive Secretary and Science Board in making decisions regarding travel to meetings of other international organizations. Council approved the revised Standing List of International Organizations and Programs, and agreed with the identified priorities for interaction in 2008–2009 (below) as recommended by Science Board. (The programs and studies marked with an asterisk denote those having the highest priority for PICES with respect to scientific cooperation and facilitation in the coming year.)

ACIA	Arctic Climate Impact Assessment Program (ACIA of AMAP)
AFSCAR	American Fisheries Society Program on Climate and Aquatic Resources
AMAP	Arctic Monitoring and Assessment Program
AOOS*	Alaska Ocean Observing System
APEC-MRC*	Marine Resources Conservation WG, Asia Pacific Economic Cooperation
APEC-FWG*	Fisheries Working Group, Asia Pacific Economic Cooperation
APFIC	Asia-Pacific Fisheries Commission
APN	Asia-Pacific Network for Global Change Research
Argo*	International Program for deployment of profiling floats (linked with GOOS)
BEST/BSIERP*	Bering Ecosystem Study/Bering Sea Integrated Ecosystem Research Program
CLIVAR*	Climate Variability and Predictability Program
CoML*	Census of Marine Life
CREAMS*	Circulation Research in the East Asian Marginal Seas
DBCP	Data Buoy Cooperation Panel
ECOR	Engineering Committee on Oceanic Resources
ESSAS*	Ecosystem Studies of Sub-Arctic Seas
FAO	Food and Agriculture Organization
GCOS*	Global Climate Observing System
GEM*	Gulf of Alaska Ecosystem Monitoring and Research Program of <i>Exxon Valdez</i> Oil Spill Trustee Council (EVOS)
GEOSS	Global Earth Observing System of Systems
GESAMP	Group of Experts on Scientific Aspects of Marine Pollution
GIPME	Global Investigation of Pollution in the Marine Environment
GLOBEC*	Global Ocean Ecosystem Dynamics
GOOS*	Global Ocean Observing System
IAMSLIC	International Association of Marine Science Libraries
IASC	International Arctic Science Committee
IATTC	Inter-American Tropical Tuna Commission
ICES*	International Council for the Exploration of the Sea
ICSU	International Council of Scientific Unions
IGBP*	International Geosphere-Biosphere Program
IGOSS	Integrated Global Ocean Services System

IMBER*	Integrated Marine Biogeochemistry and Ecosystems Research (former OCEANS)
IMO	International Maritime Organization
IOC*	Intergovernmental Oceanographic Commission
IODE	International Oceanographic Data and Information Exchange
IPCC*	Intergovernmental Panel on Climate Change
IPHC	International Pacific Halibut Commission
IWC	International Whaling Commission
NAFO	Northwest Atlantic Fisheries Organization
NANOOS	Northwest Association of Networked Ocean Observing Systems
NASCO	North Atlantic Salmon Conservation Organization
NEAR-GOOS*	North East Asian Regional GOOS
NOWPAP*	Northwest Pacific Action Plan
NPAFC*	North Pacific Anadromous Fish Commission
NPFMC	North Pacific Fishery Management Council
NPRB*	North Pacific Research Board
PaCOOS*	Pacific Coast Ocean Observing System
PAG	Pacific Arctic Group
PORSEC	Pacific Ocean Remote Sensing Conference
PSA	Pacific Science Association
PSC	Pacific Salmon Commission
PSG	Pacific Seabird Group
SAHFOS*	Sir Alister Hardy Foundation for Ocean Science
SCOR*	Scientific Committee on Oceanic Research
SOLAS*	Surface Ocean Low Atmosphere Study
SPC	South Pacific Commission
SPREP	South Pacific Regional Environmental Program
START	South Asian Regional Committee for the System for Analysis, Research and Training
UNEP	United Nations Environment Program
WCRP	World Climate Research Program
WESTPAC*	Cooperative Study of the Western Pacific, IOC Sub Committee for the Western Pacific
WMO	World Meteorological Organization
YSLME	Yellow Sea Large Marine Ecosystem project