

REPORT OF GOVERNING COUNCIL



The Governing Council met from 8:30-12:30 on October 20, from 8:30-17:00 on October 22 and from 8:30-12:30 on October 23, under the chairmanship of Dr. Vera Alexander. Dr. Alexander Bychkov served as rapporteur. All Contracting Parties were represented at the three sessions (*GC Endnote 1*). The Chairman welcomed attendees, introduced the agenda and suggested the order in which to take up the various items. The agenda was adopted as presented (*GC Endnote 2*). This report summarizes the treatment of each agenda item during the course of the three sessions.

Report on Administration (Agenda Item 3)

The Executive Secretary summarized the activities of the Organization and the Secretariat since PICES XII (*GC Endnote 3*). Council reviewed and adopted the report.

Report of 2004 interim Science Board/ Governing Council meeting (Agenda Item 4)

The 2004 interim Science Board meeting, with the participation of Council members, was hosted by the Korean Ministry of Marine Affairs and Fisheries (MOMAF) and the Korean Ocean Research and Development Institute (KORDI) on May 6-8, 2004, in Jeju, Republic of Korea. Like the first interim meeting (April 7-9, 2003, Victoria, Canada), it proved to be valuable for assessing the progress and for planning future directions of the Organization. The report of this meeting is included elsewhere in this Annual Report. An article entitled "The future of PICES" that briefly summarizes the results from the meeting was prepared by the Science Board Chairman, Dr. Ian Perry, and published in PICES Press in July 2004 (Vol. 12, No. 2).

A ½-day Council meeting was convened in the afternoon of May 7, and the report of this meeting is appended as *GC Endnote 4*.

Membership and observers from other countries (Agenda Item 5)

The Secretariat did not receive proposals from any country to accede to the PICES Convention in 2004.

Earlier, Council expressed strong interest in encouraging Mexico to accede to the PICES Convention (an initial resolution was adopted at PICES VIII; Decision 99/A/), and spent significant efforts in doing so. Details can be found in the 1999-2003 PICES Annual Reports.

Mutual benefits of Mexico joining PICES were discussed at the meeting between PICES and Mexican representatives at the IOC Assembly in June 2003. It was then agreed that formal letters be sent by PICES, Canada, and the United States of America, to high-level Mexican government officials to start the procedures.

On July 24, 2003, the PICES Chairman wrote a letter to Ing. Marco Polo Bernal-Yarahuan (Subsecretario, Subsecretaria de Educación e Investigación Tecnológicas) encouraging Mexico to join the Organization. Supporting letters were also sent by Canada's delegate to PICES, Dr. Joan Kean-Howie, to Ing. Bernal-Yarahuan in late July, and by Ms. Margaret F. Hayes of the US Department of State to Mr. Gerardo Lozano (Director of Mexican Institute for International Cooperation, Secretariat of Foreign Relations) in mid-August. Subsequent to these letters, the PICES Secretariat sent a complete package of these documents with a copy of the PICES Handbook, which contains the PICES Convention and other official documents, to both Ing. Bernal-Yarahuan and Mr. Lozano.

A response from Ing. M.P. Bernal-Yarahuan (dated May 28, 2004) arrived on June 22, 2004. The letter states that the difficult economic situation of Mexico does not permit them to join

the Organization. The Canadian and the US governments have not received any response to their letters directly.

In spite of the negative outcome and the long delay in their reply, Dr. Alexander suggested, that the response from PICES should be encouraging and welcoming, and her view was supported by Council. Her letter to Ing. Bernal-Yarahuan was sent to Mexico by courier mail on July 29. No response has been received from Mexico as of October 5, 2004.

Council agreed that efforts in bringing Mexico to PICES should continue in the following directions:

- Request PICES national delegates to facilitate the process of having Mexico accede to the PICES convention through

Alaska Ocean Observing System (AOOS)
Census of Marine Life (CoML)
Climate Variability and Predictability Program (CLIVAR)
Global Ocean Ecosystem Dynamics (GLOBEC)
Global Ocean Observing System (GOOS)
Exxon Valdez Oil Spill Trustee Council (EVOS)
International Program for deployment of profiling floats (Argo)
International Council for the Exploration of the Sea (ICES)

Intergovernmental Oceanographic Commission (IOC)
Integrated Marine Biogeochemistry and Ecosystem Research (IMBER)
International Whaling Commission (IWC)
North Pacific Anadromous Fish Commission (NPAFC)
North East Asian Regional GOOS (NEAR-GOOS)
North Pacific Research Board (NPRB)
Pacific Coast Observing System (PaCOS)

Scientific Committee on Oceanic Research (SCOR)
Surface Ocean Low Atmosphere Study (SOLAS)
IOC Sub-Commission for the Western Pacific (WESTPAC)

The Science Board Chairman and Executive Secretary reported on communication with the relevant organizations and programs since last year's meeting (see *GC Endnote 3* for details). Time was also reserved at the first session of Council (October 20, a.m.) for representatives of several organizations and programs (AOOS,

bilateral discussions between Mexico and their respective countries;

- Encourage the Directors of Mexican marine research institutes and leading scientists to send letters to high-level Mexican government officials expressing their interest for Mexico to join PICES;
- Explore the practical value of another visit of a PICES delegation to Mexico.

Relations with relevant organizations and programs (Agenda Item 6)

Letters of invitation to attend PICES XIII were sent to intergovernmental and non-governmental organizations and programs on the agreed *Standing List of International and Regional Organizations and Programs* (Decision 03/A/6), and the following sent observers:

Ms. Molly McCammon
Dr. George Boehlert
Dr. Kelvin Richards
Dr. Francisco E. Werner
Dr. Thomas C. Malone
Dr. Phillip Mundy
Dr. John Gould
Dr. David Griffith
Dr. Michael Sissenwine
Dr. Maria Hood
Dr. Julie Hall
Dr. Hidehiro Kato
Dr. Loh-Lee Low
Dr. Vyacheslav Lobanov
Dr. Clarence Pautzke
Dr. William W. Fox, Jr.
Dr. Usha Varanasi
Dr. John Hunter
Dr. Elizabeth Clarke
Dr. Julie Hall
Dr. Shigenobu Takeda
Dr. Miguel Fortes

EVOS, ICES, IMBER, IOC, NPRB, NPAFC, PaCOS, SCOR, SOLAS and WESTPAC/NEAR-GOOS) to express their views on potential areas of collaboration with PICES (some of these presentations are posted on the PICES website).

Dr. Alexander noted a steady progress in the integration and coordination of activities with other international scientific organizations and programs of regional and global scale, and with regional scientific and monitoring efforts in the North Pacific (these efforts might be national or involve several PICES member countries). She thanked all representatives for attending and presenting their ideas, and assured them that PICES will continue expanding its relationships with relevant organizations and programs, especially those aligned with the PICES ecosystem research focus.

The Science Board revises the *Standing List of International and Regional Organizations and Programs* annually (Decision 99/S/6). In addition, it selects a subset of organizations and programs that are considered to have the highest priority for PICES with respect to scientific cooperation and facilitation in the coming year. This list is used, in part, to assist the Executive Secretary and Science Board in decisions regarding travel to meetings of other international organizations. Council reviewed and approved the *Standing List* for 2004-2005 as recommended by Science Board (*SB Endnote 9*), and agreed with the identified priorities for interaction (Decision 04/S/6).

History of PICES: Science and politics (Agenda Item 7)

A study of the history of PICES, from the inception of planning in the 1970s through its first decade as an intergovernmental scientific organization, was funded by the National Science Foundation (through a grant to the University of Alaska Fairbanks) and carried out by Dr. Sara Tjossem during the last two years. She was working with founder and former PICES Chairman Dr. Warren S. Wooster, who was invited to report on the status of this project at the first session of Council on October 20.

Dr. Wooster indicated that the manuscript, "The Journey to PICES: Scientific Cooperation in the North Pacific", is essentially complete and has been delivered to the PICES Secretariat. He recommended that it be published jointly by PICES and a university press, for example, that

of the University of Alaska which made a major contribution to the development of PICES. Distribution of a joint publication would ensure bringing the story of PICES to a wide audience. Some funds to support publication are available from the National Science Foundation, but additional support will be needed from the publishers. Dr. Alexander agreed to approach the Alaska Sea Grant College Program (University of Alaska Fairbanks) to undertake the final editing and publication of the book. Dr. Richard Marasco offered to have the Publication Program of the Alaska Fisheries Science Center provide proofreading gratis. Council concluded that it would be desirable to publish the book prior to PICES XIV (October 2005).

Dr. Wooster also made the following statement. "Review of the history reminds us that establishment of PICES was complicated and delayed by political questions, principally those connected with North Pacific fisheries. The motivation of the scientists promoting the organization was essentially to enhance our collective capability to find out how the ocean system works. Of course, achieving that understanding requires knowledge of human effects, but its application, for example in fishery management, is basically a political rather than a scientific question. The separation of science from its application, as is inherent in PICES structure and external interactions, is the key to ensuring the objective quality of scientific assessments.

New political problems have now arisen in the naming of an important region of PICES activities, the sea lying between Japan, Korea, and Russia. Among other things, this region is a component of the North Pacific Ecosystem Status Report whose completion and publication is threatened by the controversy. The scientific questions are indifferent to its appellation which could as well be "Region X" or as I sometimes think of it, "the sea of despair." As one who has seen how fishery politics has complicated the early days of PICES, I express the hope that this political problem will be resolved outside the halls of PICES, by government officials who are in a better position than scientists to deal with such matters."

Report of the Study Group to respond to the US request for advice (Agenda Item 8)

In October 2003, PICES received a formal request for scientific advice from the United States concerning the characteristics and impacts of recent regime-like changes in the North Pacific (*SB Endnote 15* in the 2003 PICES Annual Report). Previous regime shifts have had serious implications for ecosystems, and consequently for fish populations and the fishing industry. As such, the National Marine Fisheries Service requested scientific advice from PICES that addresses the following questions:

1. Has the North Pacific shifted to a different state or regime since the late 1980s?
2. What is the nature of the new state?
3. What are the ecosystem responses?
4. How long can the shift be expected to last?
5. Is it possible to predict when the regime will shift back and what indicators should be used to determine when it happens?
6. What are the implications for the management of marine resources?

Council found the request as both timely and important, and established a 1-year Study Group on *Potential implications of recent regime shifts in the North Pacific for fisheries*, under the direction of Science Board, to deal with this project (Decision 03/A/5). The Study Group was comprised of 20 scientists representing all Contracting Parties, and was chaired by Dr. Jacquelynn King (Canada). Later, the Study Group was re-named *Fisheries and Ecosystem Responses to Recent Regime Shifts* (FERRRS). The National Marine Fisheries Service provided US \$45,000 to support PICES activities in this direction.

The Study Group met February 9-10, 2004, in Victoria, Canada, to organize activities and outline a report that would provide the background material necessary to prepare responses to the six questions posed in the request for advice. The background material was reviewed at a 3-day workshop held June 14-16, 2004, in Seattle, U.S.A. A major focus for the workshop was the description of coherent regional responses to the 1998 regime shift and development of advice on resource management

approaches. Answers to the six questions were formulated.

The report of the Study Group was submitted to Science Board on September 14, 2004, and then reviewed by selected PICES and external scientists. The revised (in response to reviewers' comments) report was approved by Science Board on September 29, 2004.

At the first Council meeting on October 20, Dr. King presented an overview of the FERRRS report. She indicated that the intent thereafter is

- to publish the full report in the PICES Scientific Report Series by the end of the year, and
- to prepare a simpler version of the Executive Summary with short answers to the questions posed by the United States in a glossy "brochure-type" format for a wider distribution.

At the recommendation of Science Board, Council supported these actions. It was also suggested that the findings of the Study Group be presented at the NOAA Lab Directors meeting to be held in Honolulu on October 21, 2004, and at the future meetings of the North Pacific Fishery Management Council and the Pacific Fishery Management Council.

Dr. Ian Perry, Science Board Chairman, pointed out that all the participants on the Study Group were superb, and the Chairman did an excellent job in keeping the process on track and on time. Council commended the FERRRS members for their work, and the Study Group was disbanded (Decision 04/S/4).

PICES Strategic Plan and development of an Action Plan (Agenda Item 9)

Following the recommendation of the PICES Review Committee, Council established a Study Group on *PICES Strategic Issues* to develop a Strategic Plan for the Organization (Decision 03/S/5(iv)). The final draft of the PICES Strategic Plan was reviewed and approved (with minor changes under *Goal 4*) at the 2004 interim Science Board/Governing Council meeting (Decision 04/A/6(i)).

The PICES Strategic Plan (*GC Endnote 5*) is now posted on the PICES website at http://www.pices.int/about/PICES_strategy.pdf. Council discussed other means for its wider distribution and agreed to publish the Strategic Plan as a brochure (Decision 04/A/6(ii)). Dr. George Boehlert (U.S.A.) and a representative of Science Board will work with the Secretariat to implement this task.

Council directed Science Board to indicate Strategic Plan relevance for all new proposals (Decision 04/A/6(iii)). All Scientific and Technical Committees and the CCCC Program were requested to develop their own Action Plans for current and future activities that fit within the Strategic Plan. An Action Plan for each Committee/Program should identify how to implement the ideas in the Strategic Plan on the short (annual) to medium (~5 years) time scales. Council instructed Science Board to prepare a template with guidance for developing Committee's Action Plans (Decision 04/A/6(iv)). Science Board will coordinate these "individual" Action Plans, and recommend to Council as to how to develop a PICES Action Plan. Detailed discussion on this issue is expected to take place during the 2005 interim Science Board/Governing Council meeting in spring 2005.

PICES capacity building opportunities (Agenda Item 10)

Science Board approved the final report of the Study Group on *PICES Capacity Building* in November 2003, and this document is now available on the PICES website at http://www.pices.int/about/capacity_strategy.pdf (see also *SB Endnote 14* in the 2003 PICES Annual Report).

Council supported the statement that PICES is already involved in various capacity building activities (*e.g.* travel support for young scientists to attend PICES Annual Meetings, Intern Program, *etc.*), and consented with F&A that the current budget limits any additional demands placed on the Organization. It was noted that several new PICES activities that incorporate

substantial capacity building elements have been planned or already begun. These include:

- A 4-day APN/PICES workshop on "Climate interactions and marine ecosystems" (October 2004),
- A 4-day APN/FRA/IAI/PICES workshop to build up a multi-species model using NEMURO.FISH (fall 2005),
- A 3-day CREAMS/PICES workshop on "East Asian Marginal Seas circulation: What we know and how well can we forecast?" (2006),
- A joint PICES/ICES Young Scientists Conference (2007).

Council supported all listed projects, but reiterated that Science Board needs to evaluate the priority of capacity building proposals, in relation to resources available.

At the 2004 interim Science Board/Governing Council meeting, all Scientific and Technical Committees and the CCCC Program were instructed to discuss capacity building opportunities at PICES XIII. Science Board was requested to present a summary of these discussions at the 2005 interim Science Board/Governing Council meeting in spring 2005.

PICES Intern Program (Agenda Item 11)

The PICES Intern Program was approved in 1999 (Decision 99/A/7). Since it was commenced in 2000, five scientists from three countries (2 from the People's Republic of China, 2 from the Republic of Korea and 1 from the Russian Federation) have worked as interns at the Secretariat. The description of the Program and the application and selection guidelines are posted on the PICES website (<http://www.pices.int/projects/intern.aspx>).

The status of the Intern Program is reviewed annually by both F&A and Council. Council confirmed again that the Organization and member countries are benefiting from the Program, and that it should be continued. It is also expected that national delegates will take additional measures to broadly advertise the

Intern Program within their countries to ensure the selection of high quality candidates.

2004-2005 PICES Internship

At PICES XII, Council approved extension of the deadline for applications for the 2004-2005 term of the Intern Program to December 31, 2003 (Decision 03/A/8(i)). Before the deadline, two Korean candidates, Mr. Gong-Gu Back (NORI/MOMAF) and Mr. Jin-Yong Lee (KORDI), were nominated and then accepted as interns, for shorter than usual and partially overlapping 6-month terms, starting June 1 and November 1, respectively. It was also agreed that these terms could be extended to a maximum of 8 months, depending on the intern's performance, the workload of the Secretariat and availability of funds. At the 2004 interim meeting (May 2004, Jeju, Republic of Korea), Council agreed that this practice of adopting two interns from the same country for two consecutive but shorter terms, should not be perceived as a permanent change in the PICES Intern Program's selection procedure and a precedent for multiple appointments from a single nation. But it will be a good trial of the Council's proposal of expanding the Intern Program to include a "scientific intern" and an "administrative intern" (see report of the 2003 interim Council meeting in the 2003 PICES Annual Report), and the recommendation by the F&A Committee that interested Contracting Parties give equal consideration to both scientific and administrative staff when making nominations.

2005-2006 PICES Internship

One nomination was received prior to the deadline for applications for the 2005-2006 term of the Intern Program. The Chairman of PICES, in consultation with the Executive Secretary and the Chairman of Science Board reviewed this application and approved Mr. Pavel Vorobyov (TINRO-Center, Russia) as the next PICES intern. His 8-month term is expected to start in July 2005. This term could be extended to a maximum of 12 months, depending on his performance, the workload of the Secretariat and availability of funds.

2006-2007 PICES Internship

According to the *Guidelines for application and selection procedure*, the nominations for the 2006-2007 term of the Intern Program are due at the first Governing Council meeting at PICES XIV in Vladivostok (October 4, 2005).

Financing for the Intern Program

The Intern Program has not been budgeted for, and over the years has been financed solely by voluntary contributions. The Department of Fisheries and Oceans (DFO, Canada) and the Alaska Fisheries Science Center (AFSC, U.S.A.) are the most generous partners for this activity. From 2000-2004, DFO had provided \$47,500 (including \$10,000 in 2004) and AFSC had provided \$74,916 (including \$23,550 in 2004) for the Intern Program. Council commended both partners for their continuing support of the Intern Program, and instructed the Executive Secretary to invite Contracting Parties to provide voluntary contributions supporting the Program in 2005 and beyond (Decision 04/A/10(i)).

Council confirmed that the stipend be kept at the current level of \$2,000 per month, and given the modest stipend, advised Contracting Parties to consider whether personal circumstances of intern warrant supplementation (Decision 04/A/10(ii)).

Schedule and financing of future Annual Meetings (Agenda Item 12)

At PICES XII (October 2003, Seoul, Republic of Korea), Council approved the proposal of the Russian Federation to hold the Fourteenth Annual Meeting from September 30-October 8, 2005, in Vladivostok, Russia (Decision 03/A/5(i)). The overall theme for PICES XIV is "*Mechanisms of climate and human impacts on ecosystems in marginal seas and shelf regions*" (see *SB Endnote 11* for full description). At the recommendation of F&A, Council approved the request of the Russian delegation that \$40,000 be provided by PICES to partially cover Annual Meeting costs.

Council approved the proposal of Japan to host the Fifteenth Annual Meeting in 2006 (Decision 04/A/5), and requested that venue and dates be decided by the end of 2004, and information on the budgetary requirements be provided to the Secretariat by March 31, 2005. The overall theme for PICES XV is “*Boundary current ecosystems*” (see *SB Endnote 12* for full description).

In keeping with the six-year rotation cycle (Decision 94/A/6), Council invited Canada to explore the feasibility of hosting the Sixteenth Annual Meeting in October 2007, and inform the Secretariat on this matter by May 31, 2005 (Decision 04/A/5(ii)).

Council confirmed that the practice of charging a registration fee for future PICES Annual Meetings should continue, and adopted the registration fee structure and purposes of using the registration fee revenue as recommended by F&A (Decision 04/A/5(iii) and 04/A/5(iv)). It was also agreed that the present system of providing up to \$40,000 to assist the host country with expenses associated with Annual Meetings be kept. Council thanked the United States for covering the full cost of PICES XIII.

Council strongly supported the concept of inter-sessional Science Board meetings with the participation of Council members, and approved the holding of an interim Science Board/Governing Council meeting in spring 2005, provided that costs are carefully controlled (Decision 04/A/5(v)). The necessity of having an exclusive inter-sessional Council meeting, in conjunction with the Science Board meeting, will be decided at a later date by correspondence. Even though having inter-sessional meetings at the location of the Secretariat is the cheapest option for the Organization, the value of rotating the place for these meetings was re-iterated. The United States indicated an interest in hosting the 2005 interim Science Board/Governing Council meeting in Seattle, at the NOAA’ Sand Point facilities. The Executive Secretary was requested to communicate with the Alaska

Fisheries Science Center and the Northwest Fisheries Science Center regarding arrangements and financial requirements.

Participation and productivity of PICES committees and groups (Agenda Item 13)

At PICES XII, Council concluded that many problems with the participation in PICES activities outlined by Dr. Wooster in his paper on “PICES perspective” still exist (see p. 21-24 in the 1996 PICES Annual Report), and made several recommendations targeting at improving participation and productivity of PICES Standing Committees and temporary groups (Decision 03/S/7). The Executive Secretary reported on the implementation of these decisions.

In response to Council’s request to follow up on Decision 96/S/6 and the recommendation of the PICES Review Committee, and to consider the formation of national committees to enhance and coordinate involvement of their scientists in PICES activities (Decision 03/S/7(i)), a sub-Committee for PICES was established under the Korea Oceanographic Commission (KOC). The KOC-PICES Committee includes 14 members from MOMAF, NFRDI, KORDI, MRI and several universities, and is chaired by Dr. Hak-Gyoon Kim (NFRDI). Funds are committed by MOMAF to support activities of this Committee, starting *FY* 2005. Council was pleased to hear about this development and thanked Korean delegates for their efforts.

The Secretariat is regularly updating national membership lists on the PICES website (<http://www.pices.int/members/default.aspx>). In addition, prior to the Annual Meeting Contracting Parties are requested to confirm their most recent membership lists that will be subsequently included in the Annual Report (Decision 03/S/7(ii)). Council confirmed that this practice should continue as it will help maintain a historical record of PICES membership, and may help to improve participation in activities of the Organization (Decision 04/S/7(ii)).

Terms of reference for all Standing Committees and temporary groups and other relevant information, including the *Handbook for Chairmen and Convenors*, have been posted on the PICES website (http://www.pices.int/about/chairmens_handbook.aspx). National delegates are encouraged to use these materials when clarifying the responsibilities of members at the time of their appointment (Decision 03/S/7(iii)).

At the 2004 interim meeting, Science Board and Council discussed features that help make temporary groups (Working Groups, Study Groups, Task Teams and Advisory Panels) operate efficiently and complete their tasks in a timely manner. This discussion was initiated by concerns about a few temporary groups which have had problems, and is briefly summarized in the report of the 2004 Science Board/Governing Council interim meeting. Council agreed that important lessons can be learned from the performance and experience of past working groups, and instructed Science Board to perform a review of temporary groups established since the inception of the Organization, and present the results at the 2005 interim Science Board/Governing Council meeting (Decision 04/S/7(i)). The purpose of the review is not to evaluate the performance of any single group, but to get an idea of how PICES is doing in general and whether the current concept of temporary groups is working.

Report of Science Board (Agenda Item 14)

The Science Board met under the chairmanship of Dr. R. Ian Perry, who presented his report to the Governing Council, which Council approved. The complete report is included elsewhere in this Annual Report. Details are given in *Appendix A* (Decisions 04/S/1 – 04/S/7).

Report of F&A Committee (Agenda Item 15)

The Finance and Administration Committee (F&A) met under the chairmanship of Dr. Richard J. Marasco, who presented his report to the Governing Council, which Council approved. The complete report is included

elsewhere in this Annual Report. Details are given in *Appendix A* (Decisions 04/A/1 – 04/A/10).

15.1 Audited accounts for fiscal year 2003

At the recommendation of F&A, Council accepted the audited accounts of *FY* 2003 (Decision 04/A/1(i)).

15.2 Annual contributions

Council discussed the payment schedule of annual fees to the Organization (*F&A Endnote 4*), and following F&A, noted that there has been an overall improvement in the timeliness of payment for all countries but China (the late payment and partial payment in 2004 is uncharacteristic for the United States). Council directed the Executive Secretary to send a letter commending some Contracting Parties for improved performance in submitting annual contributions in 2002-2004, and describing the difficulties partial payment causes the Organization (Decision 04/A/2(i)).

Council re-iterated (Decision 04/A/2(ii)) that for planning of their funding requests, Contracting Parties should continue to use the guideline generally accepted at the Eighth Annual Meeting (Decision 99/A/2(ii)), which states that the annual contributions will increase at the rate of inflation (about 3%) in Canada.

15.3 Fund-raising activities

Grants and voluntary contributions received since PICES XII (October 2003) are reflected in *F&A Endnote 5*. Council noted that the level of external funding for various activities initiated by PICES has increased significantly over the last several years and thanked the Science Board Chairman and the Secretariat for their efforts.

Council re-iterated that fund-raising continues to be an important component of PICES activities and indicated that projects submitted for external funding have to be multi-disciplinary and of multi-national interest, and need to be consistent with the PICES Strategic Plan.

At the recommendations of F&A, Council: (i) requested national delegates, members of F&A Committee and Science Board to prepare information about funding opportunities in their countries by the 2005 interim Science Board/Governing Council meeting; and (ii) directed Science Board to develop a list of high-priority PICES activities that are strong candidates for external funding to be tabled at the 2005 interim Science Board/Governing Council meeting (Decision 04/A/4).

15.4 Budget

15.4a Estimated accounts for fiscal year 2004

The estimated accounts for *FY* 2004 were reviewed by F&A and approved by Council (Decision 04/A/3(i)).

15.4b Proposed budget for fiscal year 2005

Council approved the proposed *FY* 2005 budget of \$710,500 (*F&A Endnote 6*). The amount of \$95,500 will be transferred from the Working Capital Fund to the General Fund to reduce the total annual contribution to \$615,000, setting the 2005 fee at \$102,500 per Contracting Party (Decision 04/A/3(ii)).

15.4c Forecast budget for fiscal year 2006

The *FY* 2006 forecast budget of \$732,100 was examined by F&A and presented to Council for information only. It will be further discussed at PICES XIV. At the recommendation of Canada, Council instructed the Executive Secretary, for planning purposes, to hold 2006 expenses at the 2005 level, with the exception of personnel services (Decision 04/A/3(iv)).

15.4d Working Capital Fund

The balance in the Working Capital Fund is expected to be about \$295,600 at the end of 2004. Council approved a transfer of \$95,500 from the Working Capital Fund to the General Fund for 2005. Council also approved a transfer of \$15,700 from the Working Capital Fund to the Trust Fund to restore the Trust Fund to the level of \$110,000. After all inter-fund transfers

(Decision 04/A/3(iii)), the Working Capital Fund will total approximately \$179,400, including encumbered funds (\$18,690) held for various activities and the amount of \$59,200 contributed by the Alaska Fisheries Science Center for future high priority PICES projects.

15.4e Relocation and Home Leave Fund

The status of the Relocation and Home Leave Fund was reviewed. The Fund will be at its required level of \$110,000 by the end of the fiscal year. No relocation expenses are expected in *FY* 2005.

15.4f Trust Fund

In *FY* 2004, the Trust Fund was used to finance the Intern Program, and to bring young scientists from PICES member countries and scientists from countries with “economies in transition” to scientific meetings. These expenditures were only partly compensated for by interest earned by the Fund, the voluntary contributions from Fisheries and Oceans Canada and the Alaska Fisheries Science Center (U.S.A.) for the Intern Program, and by a travel grant from the Scientific Committee of Oceanic Research. Council approved a transfer of about \$15,700 from the Working Capital Fund to the Trust Fund to restore it to the level of \$110,000 by the end of the financial year.

Changes to PICES’ Rules of Procedure and Financial Regulations (Agenda Item 16)

Since PICES was established in 1992, the Organization has expanded from four to six Contracting Parties. New organizational elements such as Sections, Advisory Panels, Study Groups, *etc.* have been added, and the scope of PICES’ activities has broadened to include ecosystem status reports, an advisory role, and capacity building. Throughout this period of change, the administrative procedures of the Organization (Rules of Procedure and Financial Regulations) have been amended infrequently, to accommodate only the most major changes. In addition, it was indicated that in some cases (*e.g.*, voting eligibility and procedures), the Rules of Procedure lack clarity,

and in other cases (*e.g.* the conduct of elections), what has become the common practice of the Organization differs from what is described in its Rules of Procedure.

Council agreed that thorough review of the Rules of Procedure and Financial Regulations is warranted, and to perform such a review, decided to establish a Study Group on *Rules of Procedure and Financial Regulations* (SG-RPFR) with terms of reference as listed in Decision 04/A/7.

The Study Group should be chaired by the Chairman of F&A, with representation from each Contracting Party, plus a representative from Science Board. The Executive Secretary and Deputy Executive Secretary will serve as ex-officio members of the Study Group.

Election of Chairman and Vice-Chairman (Agenda Item 17)

According to the Rules of Procedure (Rule 7), *“The Chairman and the Vice-Chairman shall be elected from amongst the Delegates for a term of two years and each shall be eligible for re-election only once for a successive term. They shall take office at the conclusion of the Annual Meeting at which elected.”* Dr. Vera Alexander (U.S.A.) and Dr. Tokimasa Kobayashi (Japan) were elected the Chairman and Vice-Chairman, respectively, at PICES XI in 2002 (Qingdao, People’s Republic of China), with their terms ending at the conclusion of this year’s meeting.

Dr. Kobayashi, called for nominations for the Chairman of Council in accordance with the Rules of Procedure. Dr. Vera Alexander was nominated by the Russian Federation and seconded by Japan. She was unanimously elected as Chairman for a second 2-year term (Decision 04/A/8(i)). Dr. Hyung-Tack Huh (Republic of Korea) remains past-Chairman, and will be able to attend the meetings of Council in an ex-officio advisory capacity.

Dr. Alexander called for nominations for the Vice-Chairman of Council in accordance with the Rules of Procedure. Dr. Tokio Wada (Japan) was nominated by the United States and

seconded by the Russian Federation. He was unanimously declared as Vice-Chairman for a first 2-year term (Decision 04/A/8(ii)).

The Delegates congratulated Drs. Alexander and Wada on their election and expressed their gratitude to Dr. Kobayashi for his valuable contribution to Council affairs over the years. Drs. Alexander, Wada and Kobayashi thanked Council for their support.

Appointment of F&A Committee Chairman (Agenda Item 18)

Council accepted the recommendation of F&A and appointed Dr. Laura Richards (Canada) as Chairman of this Committee for a 2-year term (Decision 04/A/9). Dr. Richards thanked Council members for their support. Council also expressed its gratitude to Dr. Richard Marasco (U.S.A.) for his leadership of the Finance and Administration Committee since 1998.

North Pacific Ecosystem Status Report (Agenda Item 19)

At the 2004 interim meeting, Science Board reviewed the draft North Pacific Ecosystem Status Report (NPESR), which had been revised following discussions and comments at and after PICES XII, and approved the scientific content of the report. There was no disagreement with regard to the scientific issues and conclusions in the report. However, controversy emerged over the naming of the sea between the Japanese archipelago and the Northeast Asian mainland. This controversy has delayed the full publication of the report.

The naming issue was referred to Council and discussed at the exclusive Council meeting on May 7, 2004. No consensus was reached at this meeting, but Council adopted the US motion (see *GC Endnote 4* for details) and agreed to put an incomplete version of the report, without the chapter dealing with the sea in question, on the PICES website (available since July 5), with full publication according to PICES’ past usage of the “Japan/East Sea” designation within six months if there is no resolution of the controversy in the meantime.

In early September 2004, Japan has requested that an item on the North Pacific Ecosystem Status Report be included again in the agenda of the Council meeting at PICES XIII. At the meeting, Mr. Junzo Fujita tabled consecutively two motions:

1. The Governing Council recognizes that the name "Sea of Japan" is geographically and historically established and is currently used all over the world. The Governing Council therefore decides to use the name "Sea of Japan" in this report (North Pacific Ecosystem Status Report).
2. In light of the situation in which the naming issue between Japan and the Republic of Korea is pending, the Governing Council encourages the two parties to find an appropriate solution, while postponing the publication of this report (North Pacific Ecosystem Status Report) for another 6 months.

Neither motion 1 nor motion 2 was seconded, and thus they were not discussed by Council.

The Chairman indicated that no retrospective discussion of the matter should take place, since the vote at the 2004 interim Council meeting had already settled the issue. She re-iterated that this sort of political question must be resolved outside the forum of a purely scientific organization such as PICES, where timely scientific contributions can otherwise be seriously impeded. It was recommended that the statement "The NPESR was developed under the guidance of the PICES Science Board and its *North Pacific Ecosystem Status Report* Working Group, and that views expressed in the report are those of the participating scientists under their responsibility", be placed on the citation page in the report. As this condition applies to all PICES Scientific Reports, the Chairman suggested that similar statements be included in all future PICES publications.

It was indicated by several Council members that PICES is now on its way to move beyond its initial focus on advancing scientific knowledge, which centers on activities and products of interest primarily to scientists, to include activities focused on applying that scientific

knowledge to address societal needs through the provision of scientific advice, and a newly developed PICES Strategic Plan explicitly recognizes this important activity. In contrast to ICES, PICES is not designed to provide short-term, tactical, management advice. However, PICES is prepared to work towards providing advice on broad issues concerning North Pacific marine systems, whether specifically requested by member nations (like the FERRRS report prepared in response to the request from the U.S. government), or not. The North Pacific Ecosystem Status Report is one example of unsolicited advice.

Council concluded that the NPESR has been one of PICES most important contributions to North Pacific Ocean science, and should be continued. The project clearly demonstrated that recent conditions in the marine ecosystems of the North Pacific could successfully be integrated and synthesized. But it also identified many information gaps that need to be filled for the next report. Council supported the intent to update the report as regularly as funding will allow (hopefully every three years). The preparation of subsequent reports will be the responsibility of the newly established PICES MONITOR Technical Committee. Details concerning the schedule of the next version will be available after the MONITOR Workshop on "Filling the gaps in the PICES North Pacific Ecosystem Status Report", to be convened at PICES XIV, but the target date of publication is early spring of 2007.

Dr. Marasco stated that the development of the first NPESR attracted a lot of interest from organizations and funding agencies in the United States. For example, between 2001-2004, the Alaska Fisheries Science Center and the *Exxon Valdez* Oil Spill Trustee Council provided US \$36,710 and \$42,800, respectively, for this project. In addition, PICES was awarded a grant of US \$45,000 from the Alfred P. Sloan Foundation for a project complementary to the NPESR. He suggested that PICES submit a proposal to the North Pacific Research Board requesting their funding support for updates to the PICES North Pacific Ecosystem Status Report. He also requested other Contacting

Parties to consider providing voluntary contributions to support the project.

Other business (Agenda Item 20)

News Release

A necessity and mechanism of preparing News Releases for the Annual Meeting was discussed. Council agreed that it would be worthwhile to arrange for both a pre-conference and post-conference News Release. The pre-conference News Release should highlight the most newsworthy results of PICES activities, something that will actually get published under a PICES banner. The main message should be of local interest in particular, with broader

implications. To catch the media's attention, this News Release has to be done early, so that journalists can follow up with more specific items later in the meeting. The post-conference News Release should focus on what actually happened at the Annual Meeting (*e.g.*, it could be based on summaries by convenors and/or invited speakers). Both News Releases are recommended to be posted on the PICES website.

It was suggested that using a professional for preparing the News Releases is essential. Fisheries and Oceans Canada volunteered to assist the PICES Secretariat in drafting these documents.

GC Appendix A. Decisions

04/A/1: Auditor

Council accepted the audited accounts for 2003.

04/A/2: Annual contributions

- i. Council instructed the Executive Secretary to send a letter commending some Contracting Parties for improved performance in submitting annual contributions in 2004, and describing the difficulties partial payment causes the Organization.
- ii. For planning of their funding requests for annual contributions, Contracting Parties should continue to use the guideline generally accepted at the Eighth Annual Meeting (Decision 99/A/2(ii)), which states that the annual contributions will increase at the rate of inflation (about 3%) in Canada.

04/A/3: Budget

- i. Council accepted the estimated accounts for 2004.
- ii. Council approved the 2005 budget at the level of \$710,500. The amount of \$95,500 will be transferred from the Working Capital Fund to reduce the total required

contribution to \$615,000, setting the 2005 annual fee at \$102,500 per Contracting Party.

- iii. Council approved the following inter-fund transfers:
 - A transfer of \$95,500 from the Working Capital Fund to the General Fund for 2005;
 - A transfer of \$15,687 from the Working Capital Fund to the Trust Fund to restore the Trust Fund to the level of \$110,000.
- iv. Council instructed the Executive Secretary, for planning purposes, to hold 2006 expenses at the 2005 level, with the exception of personnel services.

04/A/4: Fund-raising

- i. Council requested national delegates, members of F&A and Science Board to prepare information about funding opportunities in their countries by the 2005 interim Science Board/Governing Council meeting.
- ii. Council directed Science Board to develop a list of high-priority PICES activities that are strong candidates for external funding to be tabled at the 2005 interim Science Board/Governing Council meeting.

04/A/5: Schedule and financing future Annual Meetings

- i. Council approved the proposal of Japan to host the Fifteenth Annual Meeting in 2006. Venue and dates will be decided by the end of 2004.
- ii. Council requested Canada to explore the possibility of holding the Sixteenth Annual Meeting in 2007, and inform the Secretariat on this matter by May 31, 2005.
- iii. Council accepted the same registration fee structure for 2005 as was agreed for 2004 at PICES XII:

Type	CDN \$
Registration fee	225
Early registration fee	150
Students registration fee	50
Spousal registration fee	50

- iv. Council approved that fees will be collected by the Secretariat and credited to the Working Capital Fund to support high priority projects and the Intern Program, and to cover costs associated with Annual Meetings.
- v. Council approved the holding of an interim Science Board/Governing Council meeting in spring 2005, provided that costs are carefully controlled.

04/A/6: PICES Strategic and Action Plan

- i. Council approved the PICES Strategic Plan (at the 2004 interim Science Board/Governing Council meeting).
- ii. Council agreed to publish the Strategic Plan as a brochure. Dr. George Boehlert (U.S.A.) and a representative of Science Board will work with the Secretariat to implement this task.
- iii. Council instructed Science Board to prepare a template with guidance for developing Committee Action Plans.
- iv. Council directed Science Board to indicate Strategic Plan relevance for all new proposals.

04/A/7: Changes to Rules of Procedure and Financial Regulations

A Study Group to review PICES *Rules of Procedure and Financial Regulations* will be established under the direction of the Governing Council. The Study Group should be chaired by the Chairman of F&A, with representation from each Contracting Party, plus a representative from Science Board. The Executive Secretary and Deputy Executive Secretary will serve as ex-officio members of the Study Group. Its terms of reference are:

- To review the Rules of Procedure and Financial Regulations (hereafter RPFR) to identify any inconsistencies between these documents and the PICES Convention, and to recommend, where appropriate, amendments to the RPFR that might be required to alleviate any discrepancies found;
- To recommend such amendments as might be required to reduce ambiguity and/or inconsistency within the RPFR;
- To assess the degree of compliance between the RPFR and the current organization structure and its practices, and to recommend such amendments to the RPFR or changes in current practices to resolve any major discrepancies;
- To report at the 2005 interim Science Board/Governing Council meeting.

04/A/8: Election of Chairman and Vice Chairman

- i. Council unanimously elected Dr. Vera Alexander (U.S.A.) as Chairman for a second 2-year term (2004-2006). Accordingly Dr. Hyung-Tack Huh (Republic of Korea) remains past-Chairman.
- ii. Council unanimously elected Dr. Tokio Wada (Japan) as Vice-Chairman for a 2-year term (2004-2006).

04/A/9: Appointment of F&A Committee Chairman

Council appointed Dr. Laura Richards (Canada) as Chairman of the Finance and Administration Committee for a 2-year term (2004-2006).

04/A/10: Intern Program

- i. Council instructed the Executive Secretary to invite Contracting Parties to provide voluntary contributions to support the Program in 2005 and beyond.
- ii. Council confirmed that the stipend be kept at the current level of \$2,000 per month, and given the modest stipend, advised Contracting Parties to consider whether personal circumstances of the intern warrant supplementation.

04/S/1: Inter-sessional meetings/workshops

The following inter-sessional meetings, Working Group and CCCC Program Workshops are to be convened/co-sponsored in 2005 and beyond (an Acronym List is at the end of the Annual Report):

- A 2-day CCCC/CFAME workshop to develop a CFAME work plan and hypothesis set for CCCC synthesis, late winter/early spring 2005, location on the west coast of North America to be decided;
- A 3-day interim Science Board/Governing Council meeting, spring 2005, location on the west coast of North America to be decided;
- A 2-day CREAMS/PICES workshop on “East Asian Seas Time Series”, spring 2005, Seoul, Korea;
- A symposium, co-sponsored with GLOBEC and several other organizations, on “Climate variability and sub-Arctic marine ecosystems”, May 16-20, 2005, Victoria, Canada (approved in 2003);
- A 2-day workshop to plan “An east-west comparative study of lower trophic level pelagic ecology in the subarctic Pacific Ocean”, late spring 2005, Corvallis, U.S.A.;
- A 1-day ICES/PICES theme session on “Fisheries, ecology and life history of small pelagic fish” at the ICES Annual Science Conference, September 2005, Aberdeen, Scotland (approved in 2003);
- A 1-day ICES/PICES theme session on “Comparing and constructing the scientific strategies and output of regional ecosystem projects” at the ICES Annual Science Conference, September 2005, Aberdeen, Scotland (approved in 2003);
- A 1-day MEQ/HAB workshop on “Review of selected harmful algae in the PICES region: I. *Pseudo-nitzschia* & *Alexandrium*”, in conjunction with PICES XIV (October 2005, Vladivostok, Russia);
- A 1-day MEQ workshop on “Introductions of marine species in the North Pacific”, in conjunction with PICES XIV (October 2005, Vladivostok, Russia);
- A ½-day IFEP/MODEL workshop on “Modelling and iron biogeochemistry: How far apart are we?”, in conjunction with PICES XIV (October 2005, Vladivostok, Russia);
- A 1-day MONITOR workshop on “Filling the gaps in the PICES Ecosystem Status Report”, in conjunction with PICES XIV (October 2005, Vladivostok, Russia);
- A 1-day CFAME workshop on “East-west comparison of community structure, productivity and biodiversity under climate change scenarios”, in conjunction with PICES XIV (October 2005, Vladivostok, Russia);
- A 2-day ORI/PICES workshop to synthesize results from the second *in situ* iron enrichment experiments in the western subarctic North Pacific (SEEDS-II), October 2005, Tokyo, Japan;
- A 4-day MODEL workshop to extend NEMURO.FISH to fish stocks in other geographic regions (Europe, Africa, Asia, South America), September or October 2005, location in Japan to be decided (pending funding from APN, FRA, IAI and IOC);
- A 3-day NPAFC/PICES symposium on “The status of Pacific salmon and their role in North Pacific marine ecosystems”, in conjunction with the NPAFC Annual Meeting, October 2005, location in Korea to be decided (approved in 2003);
- A CCCC/GLOBEC symposium on “Climate variability and ecosystem impacts on the North Pacific: A basin-scale synthesis”, April 19-21, 2006, Honolulu, U.S.A. (approved in 2003);
- A symposium, co-sponsored with ICES, on “Marine bioinvasions”, late spring 2006,

location on the east coast of the United States to be decided (approved in 2003);

- A workshop/symposium celebrating the 50th anniversary of sampling along Line P, summer 2006, Victoria, Canada;
- A CREAMS/PICES workshop on “East Asian marginal seas circulation: What we know and how well can we forecast?”, summer 2006, near Vladivostok, Russia (approved in 2003; postponed to 2005);
- A 4th International Zooplankton Production Symposium, co-sponsored by GLOBEC and ICES, May 28 - June 1, 2007, Hiroshima, Japan (approved in 2003);
- A 3-day Young Scientists Conference, co-sponsored with ICES, dates in 2007 and location on the east coast of the United States to be decided.

04/S/2: Travel support

PICES will provide travel support for:

PICES XIV

- Invited speakers for Topic Sessions at the Annual Meeting with the normal allocation of approximately \$5,000 per Committee and CCC Program (additional requests are subject to fund availability);
- 3 invited speakers to the MEQ/HAB workshop on “Review of selected harmful algae in the PICES region”;
- 2-3 invited speakers to the MONITOR workshop on “Filling the gaps in the PICES Ecosystem Status Report”;
- 1-2 invited speakers to the IFEP/MODEL workshop on “Modelling and iron biogeochemistry: How far apart are we?”.

Inter-sessional meetings

- PICES representative to attend the NPAFC Twelfth Annual Meeting (November 2004, Sapporo, Japan);
- MONITOR Co-Chairman to represent PICES at the NEAR-GOOS Coordinating Committee meeting (November 2004, Sendai, Japan);
- TCODE member to participate in the Ocean Biodiversity Data Symposium (November 2004, Hamburg, Germany);
- 2 invited speakers to the 2005 CFAME

inter-sessional workshop (late winter/early spring 2005, west coast of North America);

- PICES representative to attend the meeting of the ICES/IMO/IOC Working Group on *Ballast waters and other ship vectors*, (March 14-18, 2005, Arendal, Norway);
- 2 scientists to attend the CREAMS/PICES workshop on “East Asian Seas Time Series” (spring 2005, Seoul, Korea);
- 2 invited speakers to the symposium on “Climate variability and sub-Arctic marine ecosystems” (May 16-20, 2005, Victoria, Canada);
- 4 scientists (2 from Asia and 2 from North America) to attend the workshop on “An east-west comparative study of lower trophic level pelagic ecology in the subarctic Pacific Ocean” (late spring 2005, Corvallis, U.S.A.);
- Dr. Akihiko Yatsu (Japan) to travel to Canada (Pacific Biological Station in Nanaimo), to work with Dr. Richard J. Beamish to complete the WG 16 report;
- PICES representative to attend the meeting of the ICES/IOC Steering Group for GOOS (June 2004, Brest, France);
- PICES representative to participate in the 23rd Assembly of the Intergovernmental Oceanographic Commission (June 2005, Paris, France);
- Dr. Jacquelynne King (Canada) to attend the meeting of the Pacific Fishery Management Council (June 2005, San-Francisco, U.S.A.);
- MIE-AP members to participate in the next micronekton inter-calibration cruise in summer or early fall 2005;
- PICES representative to attend the 37th SCOR Executive Committee meeting (August 2005, Cairns, Australia);
- PICES convenors to the joint ICES/PICES theme sessions on “Fisheries, ecology and life history of small pelagic fish” and “Comparing and constructing the scientific strategies and output of regional ecosystem projects” at the 2005 ICES Annual Science Conference (September 2005, Aberdeen, Scotland);
- 2 scientists to participate in the MODEL workshop to extend NEMURO.FISH to fish stocks in other geographic regions (fall of 2005, Japan; contingent on funding from

GC-2004

- APN, FRA, IAI and IOC);
- 1 invited speaker to the SEEDS-II synthesis workshop (October 2005, Tokyo, Japan);
- PICES representative to attend the NPAFC Thirteenth Annual Meeting (October 2005, Korea);
- 2-4 scientists to participate in the NPAFC-PICES symposium on “State of Pacific salmon and their role as indicators of the health of North Pacific ecosystems” (October 2005, Korea);
- POC member to attend the NEAR-GOOS Coordinating Committee meeting (fall 2005);
- 2 scientists to participate in two workshops of the “Federated metadata project”, to build a demonstration shared meta-data system between Korea and the United States.

Trust Fund

- Chinese HAB Section member to attend the MEQ/HAB workshop on “Review of selected harmful algae in the PICES region” at PICES XIV.

Science Board Chairman

- Science Board Chairman to attend the 2005 interim Science Board/Governing Council meeting (spring 2005, west coast of North America) and PICES XIV (October 2005, Vladivostok, Russia).

04/S/3: Publications

The following publications were approved:

PICES Scientific Report Series, 2005

- Final report of the Study Group on *Fisheries and ecosystem responses to recent regime shifts*;
- Final report of the Study Group on *Ecosystem-based management science and its application to the North Pacific*;
- Micronekton of the North Pacific (Final Report of WG 14 on *Effective sampling of micronekton*);
- Proceedings of the 2004 Workshop on “*In situ* iron enrichment experiments in the eastern and western subarctic Pacific”;
- Guide to best practices for oceanic CO₂ measurements and data reporting (WG 17);

- Final report of WG 16 on *Climate change, shifts in fish production, and fisheries management*.

PICES Scientific Report Series, 2006

- Findings of the Data-sharing project for federated meta-data on North Pacific ecosystems (TCODE).

PICES Special Publications, 2004-2005

- Marine ecosystems of the North Pacific (North Pacific Ecosystem Status Report);
- Report and web page development for the Census of Marine Life on “Marine life in the North Pacific Ocean: The known, unknown and unknowable”.

Special issues of primary journals, 2005-2007

- *ICES Journal of Marine Science* (2005) – selected papers from the 2004 symposium on “Quantitative ecosystem indicators for fisheries management”;
- *Deep-Sea Research II* (2005) – selected papers from the 2003 CCCC workshop on “Linkages between open and coastal systems”;
- *Ecological Modelling* (2006) – selected papers on NEMURO and NEMURO.FISH models;
- *Progress in Oceanography* (2006) – selected papers from the PICES XIII Topic Session on “Mechanisms that regulate North Pacific ecosystems: Bottom up, top down, or something else?”;
- *Deep-Sea Research II* (2006) – selected papers from the PICES XIII Topic Session on “Hot spots and their use by migratory species and top predators in the North Pacific”;
- A leading international journal (2006 or 2007) – based on the 2003 and 2004 MBM-AP workshops on “Combining data sets on diet of marine birds and mammals”.

Other publications, 2005

- Advisory report on “Fisheries and ecosystem responses to recent regime shifts in the North Pacific” (glossy brochure);
- Book on history of PICES: Sara Tjossem “The journey to PICES: Scientific cooperation in the North Pacific”.

04/S/4: Future of current groups

- CCCC *Basin Scale Studies* (BASS) and *Regional Experiment* (REX) Task Teams and *Nemuro Experimental Planning Team* (NEXT) completed their tasks and will be concluded (approved at the 2004 interim Science Board/Governing Council meeting).
- Study Group on *PICES Strategic Issues* (under Governing Council) completed its terms of reference and will be dissolved.
- Study Group on *Fisheries and ecosystems responses to recent regime shifts* (under Science Board) completed its report and will be disbanded.
- Study Group on *Ecosystem-based management science and its application to the North Pacific* (under MEQ and FIS) submitted its report and will be concluded.
- WG 14 on *Effective sampling of micronekton* (under BIO) completed its report and will be dissolved.
- WG 16 on *Climate change, shifts in fish production and fisheries management* (under FIS) will continue its activities and produce a final report in 2005.
- Accomplishments of the Advisory Panel on *Marine birds and mammals* (under BIO) were reviewed and rated highly by the parent committee, and the Panel will continue for another 5-year term.
- Advisory Panel on *Continuous Plankton Recorder survey in the North Pacific* (CPR-AP) will be moved outside the CCCC Program and will work under the direction of the MONITOR Technical Committee.
- With the completion of BASS, the Advisory Panel on *Iron fertilization experiment in the subarctic Pacific Ocean* will report directly to the Executive Committee of the CCCC Program Implementation Panel.

04/S/5: New PICES groups

- The MONITOR Task Team will be moved outside the CCCC Program to become a Technical Committee directly under Science Board, with terms of reference as listed in *MONITOR Endnote 4* (approved at the 2004

interim Science Board/Governing Council meeting).

- A Task Team on *Climate Forcing and Marine Ecosystem Response* (CFAME) will be established under the CCCC Program, with terms of reference as presented in *CFAME Endnote 3* (approved at the 2004 interim Science Board/Governing Council meeting).
- A Working Group on *Ecosystem-based management science and its application to the North Pacific* will be formed under the direction of FIS and MEQ, with terms of reference as described in *SB Endnote 5* (terms of reference with additional information can be found in *SGEBM Endnote 4*).
- An Advisory Panel for a *CREAMS/PICES Program in East Asian Marginal Seas* will be established under POC (co-sponsorship by BIO and MONITOR should be explored), with terms of reference as presented in *SB Endnote 6*.

04/S/6: Relations with other organizations and programs

Council approved the revised *Standing List of International Organizations and Programs*, and agreed with the identified priorities for interaction in 2004-2005.

04/S/7: Improvement of participation in PICES activities

- i. Council instructed Science Board to perform a review of temporary groups (Working Groups, Study Groups, Task Teams and Advisory Panels) established since the inception of the Organization and present the results at the 2005 interim Science Board/Governing Council meeting.
- ii. Council confirmed that national membership lists be prepared prior to each Annual Meeting and included as Appendices in the Annual Report. This will help maintain a historical record of PICES membership, and may help to improve participation in activities of the Organization.

GC Endnote 1

Participation List

Canada

Robin M. Brown (alternate delegate)
John A. Moores (advisor)
Laura Richards

Japan

Junzo Fujita (alternate delegate, October 22 and 23 only)
Tatsu Kishida (advisor)
Tokimasa Kobayashi
Tokio Wada (advisor)

People's Republic of China

Qian-Fei Liu (alternate delegate, October 22 and 23 only)
Wen-Xi Zhu (alternate delegate)

Republic of Korea

Young-Hoon Chung
Keun-Oh Kim (advisor)
Do-Hoon Lee (advisor)
Chul Park

Russia

Lev N. Bocharov
Sergey Maximov (alternate delegate, October 20 only)
Victor A. Nazarov (advisor)
Igor I. Shevchenko (advisor, October 20 and 23 only)
Pavel V. Vorobyov (advisor)

U.S.A.

George W. Boehlert
Richard J. Marasco
Elizabeth J. Tirpak (advisor)

Other

Vera Alexander (Chairman, PICES)
Alexander Bychkov (Executive Secretary)
Hyung-Tack Huh (Past-Chairman, PICES)
Skip McKinnell (Deputy Executive Secretary, October 20 and 23 only)
R. Ian Perry (Science Board Chairman, October 20 and 23 only)
Warren S. Wooster (First Chairman, PICES, October 20 only)

GC Endnote 2

Governing Council Meeting Agenda

1. Opening remarks
2. Adoption of agenda and meeting procedures
3. Preliminary report on administration
4. Report of 2004 Science Board/Governing Council interim meeting
5. Membership and observers from other countries
6. Relations with relevant international and regional organizations
7. History of PICES: Science and politics
8. Report of Study Group to respond to the US request for advice
9. PICES Strategic Plan and discussion on development of an Action Plan
10. PICES capacity building opportunities
11. PICES Intern Program
12. Schedule and financing of future Annual Meetings
13. Improvement of participation and productivity of PICES committees and groups
14. Report and recommendations of Science Board
15. Report and recommendations of F&A Committee
16. Changes to PICES' Rules of Procedure and Financial Regulations
17. Election of Chairman and Vice-Chairman
18. Appointment of F&A Chairman
19. North Pacific Ecosystem Status Report
20. Other business

GC Endnote 3

Report on Administration for 2004

I. Annual contributions

According to Financial Regulation 5(ii), all national contributions to PICES are payable by

Japan-----	December 26, 2003
Canada-----	January 5, 2004
Russian Federation-----	March 2, 2004
Republic of Korea-----	March 24, 2004
People's Republic of China-----	August 10, 2004
U.S.A.-----	February 9, 2004 (50%) and September 8, 2004 (50%)

the first day of the financial year (January 1) to which they relate. Dues for 2004 were paid as follows:

II. External and additional funding

Serious efforts were made this year to get additional and external funding for various activities initiated by PICES. The following reflects special contributions and grants received since PICES XII (October 2003):

scientific advice on the implications of the 1998/99 regime shift for fisheries.

High priority PICES projects

- In December 2003, the Ministry of Maritime Affairs and Fisheries (MOMAF) of the Republic of Korea contributed \$18,778 to support high priority PICES projects.
- In July 2004 and September 2004, the Alaska Fisheries Science Center (AFSC/NMFS, U.S.A.) contributed \$9,200 (US \$7,000) and \$50,000 (US \$38,200), respectively, to finance high priority PICES projects. [Between 2001-2003, AFSC had provided US \$36,710 for the North Pacific Ecosystem Status Report.]
- In September 2004, the Exxon Valdez Oil Spill Trustee Council (EVOS, U.S.A.) contributed \$11,600 (US \$8,800) to the production of the North Pacific Ecosystem Status Report. [Between 2002-2003, EVOS had provided US \$34,000 for the North Pacific Ecosystem Status Report.]

Ecosystem modeling

- In April 2004, the Asia Pacific Network (APN) approved a proposal by the PICES MODEL Task Team entitled "Climate interactions and marine ecosystems: Effects of climate on the structure and function of marine food-webs and implications for marine fish production in the North Pacific Ocean and marginal seas". The amount of the award is US \$45,000, and this will fund a workshop with approximately 25 participants to be held October 10-13, 2004, in Honolulu, immediately prior to PICES XIII. Funds will be managed by the MODEL Task Team Co-Chairman, Dr. Francisco E. Werner (Univ. North Carolina).

Implications of the 1998/99 regime shift

- In April 2004, the National Marine Fisheries Service (NMFS/NOAA, U.S.A.) provided \$60,410 (US \$45,000) to support PICES activities to address a formal request made by the Government of United States for

Guide to best practices for oceanic CO₂ measurements and data reporting

- In September 2004, the International Ocean Carbon Coordinated Program (IOCCP), via the Intergovernmental Oceanographic Commission (IOC), provided \$2,650 (US \$2,000) for the publication of the "Guide to best practices for oceanic CO₂ measurements and data reporting" being prepared by PICES WG 17 on *Biogeochemical data integration and synthesis*. [In 2003, IOCCP/IOC contributed \$7,932 (US \$6,000) for the same publication.]

Inter-calibration of micronekton sampling

- The PICES Advisory Panel on *Micronekton inter-calibration experiment* (MIE-AP) succeeded in securing 8 days-at-sea aboard the NOAA ship *Oscar Elton Sette* (October 6-13, 2004), for an international collaborative field program to evaluate the efficiency of sampling gears and procedures employed by different agencies to sample micronekton.
- A proposal entitled “Inter-calibration of sampling gear and techniques for assessing prey abundance (micronekton) in the North Pacific and the Eastern Bering Sea” seeking funds for logistical support to conduct the cruise has been submitted to the North Pacific Research Board (NPRB, U.S.A.). Although the proposal was favorably reviewed (all three reviewers rated it “Excellent/Should be Funded”), there was only a limited amount of funding available this year, and the proposal was rejected.

Intern Program

- In March 2004, Fisheries & Oceans Canada (DFO) contributed \$10,000 to finance the PICES Intern Program. [Between 2000-2003, DFO had provided \$37,500 for the Intern Program.]
- In July 2004, AFSC/NMFS (U.S.A.) contributed \$23,550 (US \$17,900) to finance the PICES Intern Program. [Between 2000-2003, AFSC had provided \$51,360 for the Intern Program.]

PICES Annual Meetings

- In December 2003, MOMAF (Korea) contributed \$18,778 to the Trust Fund to involve more young scientists in PICES activities, including Annual Meetings.
- In July 2004, AFSC/NMFS (U.S.A.) contributed \$7,900 (US \$6,000) to support the travel of speakers at the BIO Topic Session on “Mechanisms that regulate North Pacific ecosystems: Bottom up, top down, or something else?” at PICES XIII.
- In September 2004, IOCCP/IOC allocated \$10,500 (US \$8,000) to support the travel of speakers at the joint PICES/IOCCP Topic Session on “The impact of climate change

on the carbon cycle in the North Pacific” at PICES XIII.

- In July 2004, the Scientific Committee on Oceanic Research (SCOR) provided a travel grant of \$5,250 (US \$4,000) for scientists from countries with “economies in transition” to attend the MEQ Workshop on “Developing a North Pacific HAB data resource” at PICES XIII.

Inter-sessional meetings

- In May 2004, MOMAF (Korea) provided special funds to offset PICES expenses for the 2004 inter-sessional Science Board/Governing Council meeting (May 6-8, 2004, Jeju, Korea).
- In July 2004, AFSC/NMFS (U.S.A.) provided \$13,150 (US \$10,000) for the international symposium on “Climate variability and sub-Arctic marine ecosystems” (May 16-20, 2005, Victoria, Canada).
- In August 2004, EVOS (U.S.A.) approved funding for PICES in an amount of US \$15,000 in support of two workshops during the time period October 1, 2004 – September 30, 2005. The workshops that would be most appropriate for this funding source will be identified at PICES XIII.

PICES Publications

- The National Science Foundation approved funding in an amount of US \$15,000 for the publication of a book “The journey to PICES: Scientific cooperation in the North Pacific”.

Several on-going projects are utilizing funding provided in 2003:

CPR Program

- The sample collection and analysis for the east-west transect of the PICES Continuous Plankton Recorder (CPR) survey of the North Pacific and southern Bering Sea is supported by a grant from NPRB (US \$185,000 total, from July 2003 to June 2005), and for the north-south transect by a grant from EVOS (US \$120,000 per year, from 2004 to 2006).

Ecosystem modeling

- A MODEL workshop to document and distribute the NEMURO/NEMURO.FISH model code, and to edit manuscripts for *Ecological Modeling* (August 2004, Seattle, U.S.A.) was partially covered by a grant from the Fisheries Research Agency of Japan (from April 2003 to March 2006) to support international collaboration on the development of model on coupled response of lower and higher trophic level ecosystems for climate variability in the North Pacific.

III. Inter-sessional meetings

Since PICES XII (October 2003), the following inter-sessional meetings were convened/co-sponsored, for which financial, travel and logistical arrangements were made:

- A 3-day PICES/CoML workshop on “Marine life in the North Pacific: The known, unknown and unknowable”, November 17-19, 2003, Victoria, Canada;
- A 3-day workshop on “Development of pilot coastal monitoring program(s) in the NE Pacific” (co-sponsored by PaCOS, EVOS and AOOS), November 20-22, 2003, Victoria, Canada;
- A 5-day MODEL workshop on “Summary and synthesis of contributions from NEMURO and NEMURO.FISH” (funded by the Fisheries Research Agency of Japan), December 4-6, 2003, Yokohama, Japan;
- A 4-day IOCCP/NIES/PICES workshop on “Ocean surface p(CO₂), data integration and database development”, January 14-17, 2004, Tsukuba, Japan (44 scientists from 12 countries);
- A 2-day meeting of the PICES Study Group on *Fisheries and Ecosystem Responses to Recent Regime Shifts* (FERRRS), February 9-10, 2004, Victoria, Canada;
- A 3-day PICES-IFEP workshop on “*In situ* iron enrichment experiments in the eastern and western subarctic Pacific”, February 11-13, 2004, Victoria, Canada (25 scientists from 3 countries);
- A 1½-day Canada-SOLAS/PICES-IFEP Session on “Response of the upper ocean to mesoscale iron enrichment” at the TOS/ASLO 2004 Ocean Research

Conference, February 17-18, Honolulu, U.S.A.;

- A 4-day symposium on “Quantitative ecosystem indicators for fisheries management” (co-sponsored by IOC, SCOR, PICES, ICES, GLOBEC, etc.), March 31-April 3, 2004, Paris, France (250 scientists from 42 countries);
- A 3-day interim Science Board/Governing Council meeting, May 6-8, 2004, Jeju, Republic of Korea;
- A 3-day NOAA/GCP/PICES workshop on “Understanding North Pacific carbon-cycle change: Data synthesis and modeling”, June 2-4, 2004, Seattle, U.S.A. (60 scientists from 5 countries);
- A 3-day meeting of the PICES Study Group on *Fisheries and Ecosystem Responses to Recent Regime Shifts*, June 14-16, 2004, Seattle, U.S.A.;
- A 4-day MODEL workshop on “The development of a model on coupled responses of lower and higher trophic levels for climate variability in the North Pacific” to document and distribute the NEMURO model code, and to edit *Ecological Modeling* manuscripts (co-sponsored by the Fisheries Research Agency of Japan), August 20-23, 2004, Seattle, U.S.A.

The following workshops were held in conjunction with PICES XIII:

- A 4-day APN/PICES Workshop on “Climate interactions and marine ecosystems: Effects of climate on the structure and function of marine food webs and implications for marine fish production in the North Pacific Ocean and marginal seas” and young-investigator training, October 10-13, 2004;
- A 1-day MIE-AP workshop/meeting on “Micronekton sampling gear inter-calibration experiment”, October 14, 2004;
- A 1-day MBM-AP workshop/meeting on “Combining data sets on diets of marine birds and mammals - Phase II”, October 14, 2004;
- A 1-day CCCC/REX workshop on “Seasonal cycles of plankton production in continental shelf waters around the North Pacific Rim”, October 14, 2004;

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- A 1-day MEQ workshop on “Developing a North Pacific HAB data resource II”, October 15, 2004;
- A 2-day CCCC workshop on “Linking open ocean and coastal ecosystems II”, October 15-16, 2004,
- A 2-day PICES-CLIVAR workshop on “Scale interactions of climate and marine ecosystems”, October 23-24, 2004.

Preparation and arrangements are in progress for:

- A 5-day GLOBEC symposium on “Climate variability and sub-Arctic marine ecosystem”, May 16-20, 2005, Victoria, Canada (PICES is represented in the Scientific Steering Committee and the Local Organizing Committee; PICES Secretariat is responsible for local arrangements of the meeting);
- A 3-day NPAFC/PICES symposium on “The status of Pacific salmon and their role in North Pacific marine ecosystems”, fall 2005, Republic of Korea;
- A 3-day PICES/GLOBEC symposium on “Climate variability and ecosystem impacts on the North Pacific: A basin-scale synthesis”, April 19-21, 2006, Honolulu, U.S.A.

IV. Publications

Publications produced after PICES XII or still in progress include:

Special issues of primary journals, 2004

- *Marine Environmental Research* (Vol. 57, Nos. 1-2, Feb.-Mar. 2004) - papers resulting from the 1999 MEQ Practical Workshop (Guest editor: R. Addison); the issue includes 9 papers from all PICES member countries;
- *Journal of Oceanography* (Vol. 60, No. 1, Feb. 2004) - invited papers on *Synthesis of JGOFS North Pacific Process Study* (jointly with JGOFS) (Guest editors: Toshiro Saino, Alexander Bychkov, Chen-Tung A. Chen and Paul J. Harrison); the issue includes 13 papers by authors from Canada, Germany, Japan, Russia, and U.S.A.;

- *Progress in Oceanography* (Vol. 61, No. 2-4, May-June, 2004) - selected papers from the PICES/CREAMS workshop on “Recent progress in studies of physical processes and impact to the Japan/East Sea ecosystem” (Guest editors: Stewart M. McKinnell, Alexander Bychkov, Kyung-Ryul Kim and Makoto Terazaki); the issue includes 9 papers by authors from Japan, Korea, Russia and U.S.A.;
- *ICES Journal of Marine Research* (Vol. 61, No. 1, June 2004) - selected papers from the 3rd Zooplankton Production Symposium (Guest editors: Luis Valdez, Roger Harris, Tsutomu Ikeda, Stewart M. McKinnell and William Peterson); the issue includes 27 papers by authors from 14 countries;
- *Journal of Marine Systems* (Vol. 50, Nos. 1-2, September 2004) - selected papers from the 2002 BIO/POC/FIS Topic Session on “The importance of biophysical coupling in concentrating marine organisms around shallow topographies” (Guest editors: Richard D. Brodeur and John Dower); the issue includes 5 papers by authors from Israel, Japan, Mexico and U.S.A.

Peer-review process is initiated for three special issues (publication is expected in early 2005):

- *Deep-Sea Research II* – selected papers from the 2003 PICES workshop on “Linkages between open and coastal systems” (Guest editors: Stewart M. McKinnell and Gordon A. McFarlane);
- *Ecological Modelling* – selected papers on NEMURO and NEMURO.FISH models (Guest editors: Shin-ichi Ito, Michio Kishi, Bernard Megrey and Francisco Werner);
- *ICES Journal of Marine Research* – selected papers from the 2004 symposium on “Quantitative ecosystem indicators for fisheries management” (Guest Editor: Neils Daan).

PICES Scientific Report Series

- PICES Scientific Report No. 26 (September 2004): Proceedings of the Third PICES workshop on the Okhotsk Sea and adjacent areas;
- PICES Scientific Report No. 27 (publication is expected in December 2004): PICES-

GLOBEC International Program on Climate Change and Carrying Capacity Program - Report of the 2003 MODEL Task Team second workshop to develop a marine ecosystem model of the North Pacific Ocean including pelagic fishes;

- PICES Scientific Report No. 28 (publication is expected in December 2004): Report of the Study Group on *Fisheries and Ecosystem Responses to Recent Regime Shifts*;
- PICES Scientific Report No. 29 (publication is expected in December 2004): Report of the 2000 Planning Workshop on Designing the iron fertilization experiment in the subarctic Pacific and the 2004 Workshop on *In situ* iron enrichment experiments in the eastern and western subarctic Pacific.

Special publications

- North Pacific Ecosystem Status Report (pre-publication available on the PICES website);
- Executive summary of the Report of the Study Group on *Fisheries and Ecosystem Responses to Recent Regime Shifts* (publication is expected in December 2004);
- Report on “Marine life in the North Pacific Ocean: The known, unknown and unknowable” (publication of the baseline report and detailed web version is expected in December 2004).

PICES Press - Newsletters

- Two regular issues: Vol. 12, No. 1 (January 2004) and Vol. 12, No. 2 (July 2004).

Other publications

- Final announcement and poster for PICES XIII (February 2004);
- PICES 2003 Annual Report (March 2004);
- A Book of Abstracts for the Symposium on “Quantitative ecosystem indicators for fisheries management” (April 2004);
- A Book of Abstracts for PICES XIII (September 2004).

V. Travel and representation at other organization meetings

- Full travel support was provided to all members (except NOAA employees) of the

FERRRS Study Group to attend the 1st (February 2004, Victoria, Canada) and 2nd (June 2004, Seattle, U.S.A.) meetings of the group;

- Dr. Alexander Bychkov (Executive Secretary) and Ms. Christina Chiu (Deputy Executive Secretary on Administration) travelled in February 2004, to Honolulu, U.S.A., to discuss preparations for PICES XIII with the Hawaii Convention Center, hotels and the Local Organizing Committee; and attended the International Fisheries Commission Pension Society Meeting in April, in Washington DC, U.S.A.;
- Drs. Ian Perry (Science Board Chairman) and Jeffrey Polovina (invited speaker) and members of the Secretariat travelled in March 2004, to Paris, France, for the Symposium on “Quantitative ecosystem indicators for fisheries management”;
- Partial travel support from the Trust Fund was provided to 2 scientists from the People’s Republic of China, and 1 scientist from the Republic of Korea, to attend the Symposium on “Quantitative ecosystem indicators for fisheries management” in March 2004, in Paris, France;
- Drs. Vera Alexander (PICES Chairman) and Ian Perry (Science Board Chairman) and members of the Secretariat travelled in May 2004, to Jeju, Republic of Korea, for the 2nd interim Science Board / Governing Council Meeting; and in October 2004 to Honolulu, U.S.A., for PICES XIII;
- Full travel support was provided to 1 scientist from the Republic of Korea and 1 scientist from Russia to participate in the NOAA/GCP/PICES workshop on “Understanding North Pacific carbon-cycle change: Data synthesis and modeling” in June 2004, in Seattle, U.S.A.;
- Partial travel support was provided to Dr. Francisco Werner (MODEL Task Team Co-Chairman) to attend the MODEL workshop on “The development of a model on coupled responses of lower and higher trophic levels for climate variability in the North Pacific” in August 2004, in Seattle, U.S.A.;
- Full travel support was provided to 2 Canadian scientists to attend the APN/PICES Workshop on “Climate

interactions and marine ecosystems: Effects of climate on the structure and function of marine food webs and implications for marine fish production in the North Pacific Ocean and marginal seas” held in conjunction with PICES XIII;

- Full travel support was provided for 1 invited speaker to the REX Workshop on “Seasonal cycles of plankton production in continental shelf waters around the North Pacific Rim”, 1 invited speaker to the MBM-AP Workshop on “Combining data sets on diets of marine birds and mammals - Phase II”, 2 invited speakers to the CCCC Workshop on “Linking open ocean and coastal ecosystems II”, and 9 invited speakers to the PICES/CLIVAR Workshop on “Scale interactions of climate and marine ecosystems” (funding for 5 speakers was allocated by the US CLIVAR, and 2 speakers by WCRP) at PICES XIII;
- Full or partial travel support was provided to 21 invited speakers to scientific sessions at PICES XIII;
- Full travel support from the Trust Fund (funding is allocated by SCOR) was provided to 1 Russian and 1 Chinese scientist to attend the MEQ workshop on “Developing a North Pacific HAB data resource II” at PICES XIII;
- Partial travel support from the Trust Fund was provided to 1 Canadian, 8 Chinese, 3 Japanese, 6 Korean, 1 Mexican, 12 Russian and 8 US scientists to attend PICES XIII. The majority of these scientists are younger than 35 years of age;
- Full travel support was provided to the recipient of the 2004 Wooster Award, Dr. Paul LeBlond and partial travel support was provided to the PICES past-Chairman, Dr. Hyung-Tack Huh, to attend PICES XIII.
- Dr. Elizabeth Logerwell (US member of FIS) represented PICES at the 11th NPAFC Annual Meeting, held in October 2003, in Honolulu, U.S.A.;
- Dr. Sei-ichi Saitoh (Co-Chairman, MONITOR Task Team) represented PICES at the POGO Annual Meeting held in November 2003, in Tokyo, Japan. It is expected that he will represent PICES at the 12th NPAFC Annual Meeting to be convened in October 2004, in Sapporo, Japan; and at the 9th NEAR-GOOS Coordinating Committee meeting to be held in November 2004, in Sendai, Japan;
- Dr. Skip McKinnell (Deputy Executive Secretary) represented PICES at the Canada Global Change Planning Meeting and Canada CLIVAR Network Meeting held in February 2004, in Victoria, Canada; at the PaCOS Board Meeting convened in May 2004, in La Jolla, U.S.A.; and at the NOAA Climate regimes and ecosystems Planning Meeting (by invitation from NOAA) held in September 2004, in Seattle, U.S.A.;
- Drs. Yasuwo Fukuyo and Mark Wells (Harmful Algal Blooms Section) represented PICES at the meetings of the ICES/IOC/IMO Working Group on *Ballast and Other Ship Vectors* and the ICES Working Group on *Introductions and Transfers of Marine Organisms* held consecutively in March 2004, in Cesenatico, Italy;
- Dr. Phillip Mundy (Co-Chairman, MONITOR Task Team) represented PICES at the meeting of the ICES-GOOS Steering Group held in April 2004, in Tenerife, Spain;
- Dr. Georgiy Moiseenko (Russian member of TCODE) represented PICES at the meeting of the ICES-IOC Study Group on *Development of marine data exchange systems using XML* held in May 2004, in Oostende, Belgium;
- Dr. Suam Kim (Co-Chairman, CCCC Program) represented PICES at the 7th North Pacific Rim Fisheries Conference held in May 2004, in Busan, Republic of Korea;
- Dr. Ian Perry represented PICES at the 2004 ICES Annual Science Conference held in September 2004, in Vigo, Spain;
- Dr. Alexander Bychkov represented PICES at the NOAA/GCP/PICES workshop on “Understanding North Pacific carbon-cycle change: Data synthesis and modeling” convened in June 2004, in Seattle, U.S.A.; and the 27th SCOR General Meeting held in September 2004, in Venice, Italy.

VI. Relations with international scientific organizations and programs

The following reflects expanding relationships with international scientific organizations and programs, and with regional monitoring efforts in the North Pacific that are aligned with the PICES ecosystem research:

International Program for Deployment of profiling floats (Argo)

- PICES co-sponsored the First Argo Science Symposium held in November 2003, in Tokyo, Japan.
- A 1-day joint PICES/Argo Topic Session on “Application of Global Observing Systems to physics, fisheries, and ecosystems” was held on October 19, 2004, at PICES XIII.

International Research Programme on Climate Variability and Predictability (CLIVAR)

- A 2-day PICES-CLIVAR workshop on “Scale interactions of climate and marine ecosystems” was held October 23-24, 2004, in conjunction with PICES XIII.

Census of Marine Life program (CoML)

- In 2002, PICES was awarded a grant of US \$45,000 from the Alfred P. Sloan Foundation to produce a report for the Census of Marine Life entitled *Marine life in the North Pacific Ocean: The known, unknown and unknowable*. The project will be completed this year by publication of a baseline report in December 2004; a detailed web version of the report will be posted on the PICES website at the same time.

Global Ocean Ecosystem Dynamics (GLOBEC)

- The PICES CCCC Program provides a mechanism for integrating national GLOBEC research programs in the North Pacific and is a regional component of the international GLOBEC effort.
- PICES co-sponsored the GLOBEC/SPACC Workshop (December 8-10, 2003, Tokyo, Japan) to compare long-term data on small pelagics from the Kuroshio/Oyashio system with those of other ecosystems in the Pacific

and Atlantic Oceans to better understand mechanisms which govern regime shifts.

- Members of the GLOBEC Focus 3 Working Group on *Linking biophysical and upper trophic level models* and the PICES MODEL Task Team were the key players in the SCOR/IOC Study Group on *Extending ecosystem models to the basin scale*. Two workshops convened by this Study Group in May and October 2003 (Cambridge, UK) resulted in the publication of a multi-authored background paper “Challenges in modeling ocean basin ecosystems” in *Science* in 2004.
- Several scientific sessions directly related to GLOBEC activities were convened at PICES XIII (e.g., **S2: Mechanisms that regulate North Pacific ecosystems: Bottom-up, top-down, or something else?** and **S9: The impacts of large-scale climate change on North Pacific marine ecosystems**).
- The GLOBEC Focus 1 Working Group on *Retrospective analysis* met in conjunction with PICES XIII and contributed joint and individual papers to the CCCC Topic Session on “The impacts of large-scale climate change on North Pacific marine ecosystems”. This provided an opportunity for PICES CCCC scientists to interact more closely with GLOBEC synthesis efforts.
- PICES will act as a co-sponsor and a local organizer of the GLOBEC Symposium on “Climate variability and sub-arctic marine ecosystems” to be held May 16-20, 2005, in Victoria, Canada. The symposium’s scientific objective is to present current knowledge of the effects of seasonal to multi-decadal climate variability on the structure and function of sub-arctic marine ecosystems.
- GLOBEC will co-sponsor the PICES/CCCC Symposium on “Climate variability and ecosystem impacts on the North Pacific: A basin-scale synthesis” to be held April 19-21, 2006, in Honolulu, U.S.A. The primary scientific objective of this symposium is to present a synthesis of the effects of seasonal to multi-decadal variability on the structure and function of the North Pacific that goes beyond the analysis and understanding

developed from studies of a single trophic level, process or region—a True Synthesis.

- PICES and GLOBEC agreed to work together to organize the 4th International Zooplankton Production Symposium to be held in spring 2007, in Hiroshima, Japan (local sponsors and organizers are the Plankton Society of Japan and the Japanese Society of Fisheries Oceanography).

Global Ocean Observing System (GOOS)

- PICES carries on a few projects of direct relevance to GOOS: the North Pacific Ecosystem Status Report, North Pacific Continuous Plankton Recorder Program, inter-laboratory method comparisons of measurement technique for carbonate parameters in seawater and micronekton sampling gears, etc.
- PICES and GOOS started a dialogue in order to define the direction that PICES should take in integrating its regional interests with GOOS.
- PICES is actively communicating with regional monitoring efforts in the eastern North Pacific to develop options for international coordination of observing resources of the California Current, Gulf of Alaska and the Bering Sea.
- PICES is working with NEAR-GOOS (North-East Asian Regional GOOS) and participating in NEAR-GOOS meetings, with the idea of broadening the program to an ecosystem-based effort.

International Council for the Exploration of the Sea (ICES)

- PICES, ICES and GLOBEC worked together to organize the 3rd Zooplankton Production Symposium on “The role of zooplankton in global ecosystem dynamics: Comparative studies from the World Ocean” held May 20-23, 2003, in Gijón, Spain. The project was completed this year by the publication of a special issue (Guest editors: Luis Valdez, Roger Harris, Tsutomu Ikeda, Skip McKinnell, and William Peterson) in the *ICES Journal of Marine Science*, Vol. 61, No. 4, p. 441-737.
- ICES accepted PICES’ invitation to co-sponsor a Topic Session on “Introduction of

marine species” at PICES XIII by identifying and covering travel expenses of an invited speaker and convenor, Dr. Stephan Gollasch (Chairman of the ICES Working Group on *Introductions and Transfers of Marine Organisms*).

- PICES accepted ICES’ invitation to co-sponsor two Topic Sessions on “Fisheries, ecology and life history of small pelagic fish” and on “Comparing and constructing the scientific strategies and output of regional ecosystem projects” at the 2005 ICES Annual Science Conference (Aberdeen, Scotland), by identifying and supporting travel expenses of PICES convenors for these sessions. Dr. Douglas E. Hay (Canada) will serve as a PICES convenor for the first session. A PICES convenor for the second session will be identified later.
- A joint ICES/PICES Symposium on “Marine bioinvasions” is planned for spring 2006, on the east coast of the United States. Dr. Yasuwo Fukuyo (Japan) will serve as a PICES co-convenor and a member of the Scientific Program Committee for the Symposium.
- At PICES XII, Dr. David Griffith, General Secretary of ICES, extended an invitation to PICES to jointly organize a (P)ICES Young Scientist Conference on Marine Sciences that would bring together “early career” scientists from around the globe. A draft proposal of the conference tabled by the PICES Secretariat was enthusiastically endorsed by the PICES Science Board and Council at their interim meeting in May 2004, and by the ICES Consultative Committee and ICES Bureau at their meetings in June 2004.
- To discuss/initiate possible co-operation in specific areas, PICES representatives attended annual meetings of the following ICES Groups:
 - Drs. Yasuwo Fukuyo and Mark Wells (PICES Section on Harmful Algal Blooms) attended meetings of the ICES/IOC/IMO Working Group on *Ballast and Other Ship Vectors* and the ICES Working Group on *Introductions and Transfers of Marine Organisms*

held consecutively March 22-24 and March 25-26, 2004, in Cesenatico, Italy.

- Dr. Phillip Mundy (Co-Chairman, PICES MONITOR Task Team) attended the meeting of the ICES-GOOS Steering Group held April 20-21, 2004, in Tenerife, Spain.
- Dr. Georgiy Moiseenko (PICES Technical Committee on Data Exchange) participated in the meeting of the ICES-IOC Study Group on Development of marine data exchange systems using XML held May 6-7, 2004, in Oostende, Belgium.

Integrated Marine Biogeochemistry and Ecosystem Research (IMBER)

- PICES is interested in the development of a new project on ocean biogeochemistry and ecosystem research, and invited a representative of IMBER to give a programmatic talk at PICES XIII and to discuss how PICES can assist in the implementation of this project in the North Pacific. Dr. Julie Hall attended PICES XIII on behalf of IMBER.

Intergovernmental Oceanographic Commission (IOC)

- In 2002, IOC and PICES agreed to cooperate on four fronts: (i) monitoring (PICES - GOOS cooperation, see under GOOS); (ii) ecosystem indicators (PICES - SCOR/IOC WG 119, see under SCOR); (iii) CO₂ data integration and synthesis (see under IOCCP); and (iv) harmful algal blooms (see below).
- At last year's joint PICES/IOC Workshop on "Harmful algal blooms – Harmonization of data", representatives from PICES member countries accepted an offer from IOC/ICES to utilize their successful harmful algal event meta-database (HAE-DAT) format on a trial basis. A follow-up PICES/IOC workshop on "Developing a North Pacific HAB data resource - II" was held at PICES XIII to provide an interim "report card" on the use of this database.

International Ocean Carbon Coordinated Project (IOCCP)

- IOCCP is working to develop a central information source of on-going and planned ocean carbon observations, and to establish international agreements on observation methods, best practices, data management, and data sharing that will lead to the joint development of global data products and synthesis activities documenting the ocean carbon cycle. PICES is acting as a regional coordinator for these activities (see the article by Dr. Maria Hood in PICES Press, July 2004, Vol. 12, No. 2).
- To foster international cooperation towards integration and synthesis, IOCCP and PICES continue to collaborate on developing the global database for CO₂ and CO₂-related data. An initial North Pacific data inventory (PICNIC - PICES CO₂ Related Data Inventory in North Pacific) has been prepared following recommendations from two PICES CO₂ Data Integration Workshops and is now available on-line at <http://picnic.pices.jp> (426 cruises by six PICES member countries). The PICES WG 17 on *Biogeochemical data integration and synthesis* will carry this task to ensure continuous updates and geographical expansion of the database.
- A joint IOCCP/PICES/NIES Workshop on "Ocean surface pCO₂ data integration and database development" was held January 13-17, 2004, in Tsukuba, Japan. This workshop, which brought together 44 participants from 12 countries, focused on (i) the results of the inter-comparison experiment for ocean underway and moored pCO₂ systems, (ii) standardization of data and metadata formats, and (iii) data integration and networking.
- IOCCP, via the Intergovernmental Oceanographic Commission, provided US \$6,000 in 2003 and US \$2,000 in 2004 to PICES for the publication of the "Guide to best practices for oceanic CO₂ measurements and data reporting" being prepared by PICES WG 17. Publication is expected in the PICES Scientific Report Series by the end of 2004.

- A joint PICES/IOCCP Topic Session on “The impacts of climate change on the carbon cycle in the North Pacific” was convened October 20-21, 2004, at PICES XIII. IOCCP/IOC allocated US \$8,000 to support the travel of speakers to this session.

Joint Global Ocean Flux Study (JGOFS)

- Selected papers from the PICES/JGOFS Topic Session on “Plankton size classes, functional groups and ecosystem dynamics: Causes and consequences” at PICES X were published as a special issue of *Progress in Oceanography* (Guest editors: A. Peña and A. Bychkov) published in October 2003 (Vol. 57, Nos. 3-4). The issue includes 11 papers by authors from Canada, Chile, Japan, Korea and U.S.A.
- A collection of invited papers on JGOFS North Pacific Synthesis was published as a special issue of *Journal of Oceanography* (Guest Editors: T. Saino, A. Bychkov, C.T.A. Chen and P. Harrison) in February 2004 (Vol. 60, Nos. 1-2). The issue includes 13 papers by authors from Canada, Germany, Japan, Russia and U.S.A.
- A JGOFS North Pacific Process Studies DVD, prepared jointly by JGOFS North Pacific Task Team and PICES WG 13/WG 17 was released by the Japan Oceanographic Data Center (JODC) in fall 2004.

North Pacific Anadromous Fish Commission (NPAFC)

- NPAFC accepted PICES’ invitation for the Chairman of NPAFC’s Committee on Scientific Research and Statistics (CSRS) to present annual updates on the status of Pacific salmon in the North Pacific to the MONITOR Technical Committee. Every third year, the CSRS Chairman will make a more complete presentation on the status of Pacific salmon in the North Pacific as input to update the North Pacific Ecosystem Status Report. A representative of PICES will present the North Pacific Ecosystem Status Report to NPAFC Annual Meetings.
- A 3-day NPAFC/PICES symposium on “The status of Pacific salmon and their role in North Pacific marine ecosystems” will be held in fall 2005, in the Republic of Korea.

PICES’ convenor for the symposium is Dr. V. Radchenko, and PICES members of the Scientific Steering Committee are Drs. Y. Ishida, S. Kim, I. Perry and J. Stein. Symposium outline will be discussed during PICES XIII and the 2004 Annual Meeting of NPAFC.

Scientific Committee on Oceanic Research (SCOR)

Relationships with GLOBEC, JGOFS, SOLAS, IMBER and IOCCP are reflected separately. Other collaborations between PICES and scientific projects and groups established/co-sponsored by SCOR are listed below:

- The overlapping scientific interests of PICES and SCOR-IOC WG 119 resulted in PICES’ involvement in planning and organizing the International Symposium on “Quantitative ecosystem indicators for fisheries management” held March 31-April 3, 2003, in Paris, France. PICES was represented on the Scientific Steering Committee and supplied logistical support to get the Symposium organized by handling on-line registrations and submission of abstracts, producing the book of abstracts, staffing the Symposium Office during the event, as well as supporting the participation of some scientists from PICES member countries. The Symposium attracted 250 participants from 43 countries, and the program included 40 presentations and close to 150 posters. The Symposium papers will be published as a special issue of the ICES *Journal of Marine Science* in early 2005.
- PICES is developing a North Pacific Ecosystem Status Report, and this effort opens new opportunity for cooperation with the SCOR-IOC WG 119 that could assist in identifying what should be addressed in the report, using relevance to management decisions as selection criteria.
- A workshop on “Climate variability, zooplankton abundance and distribution – comparative opportunities from the world’s oceans” hosted at the 3rd PICES/ICES/GLOBEC Zooplankton Production Symposium (May 2003, Gijón, Spain) led to a proposal submitted to SCOR for a Working Group on *Global*

comparisons of zooplankton time series. At the 2004 interim meeting, PICES Science Board supported this proposal and agreed to provide funding for one additional member from the North Pacific to participate in this Working Group, should it be accepted by SCOR.

- All PICES member countries and Mexico have significant HAB problems, and similar levels of scientific uncertainty in regards to HABs that are severely limiting the ability to forecast and mitigate HAB events. To achieve and maintain the appropriate level of coordination and collaboration among its member countries, PICES decided to establish a longer-lifespan Section on *Harmful algal blooms and their impacts* (instead of a short-lived Working Group). This will provide additional opportunity for participation in the international collaborations that are currently underway, including GEOHAB.
- SCOR provided a travel grant of US \$5,000 to support participation of Russian and Chinese scientists in the workshop on “Developing a North Pacific HAB data resource” to be convened at PICES XIII.

Surface Ocean-Lower Atmosphere Study (SOLAS)

- Iron enhancement experiments are an important part in the agenda of both SOLAS and PICES. In the summer of 2001, an iron enrichment experiment (Subarctic Pacific Iron Experiment for Ecosystem Dynamics Study – SEEDS-I) was performed in the western subarctic Pacific, and in the summer of 2002, another iron enrichment experiment (Subarctic Ecosystem Response to Iron Enrichment Study - SERIES) was carried out in the eastern subarctic Pacific. These international collaborative projects were developed under the umbrella of PICES, through its Advisory Panel on *Iron Fertilization Experiment in the Subarctic Pacific Ocean*. Both experiments were successful and generated important new findings were published recently in *Science* (SEEDS-I: Tsuda *et al.* 2003, 300: 958-961) and *Nature* (SERIES: Boyd *et al.* 2004, 428: 549-553). More detailed results from these

experiments will be published as special issues of primary journals in 2004/05. The latest joint Japan/U.S.A./Canada experiment in the western subarctic Pacific (SEEDS-II) was completed in August 2004.

- A 1½-day session on “Response of the upper ocean to meso-scale iron enrichment” was organized jointly by Canadian-SOLAS and PICES at the TOS/ASLO 2004 Ocean Research Conference (February 17-18, 2004, in Honolulu, U.S.A.). A brief report on the session was published in PICES Press (Vol. 12, No. 2).
- A 3-day workshop on “*In situ* iron enrichment experiments in the eastern and western subarctic Pacific” organized by the PICES IFEP was held February 10-12, 2004, in Victoria, Canada. Specific objectives of the workshop were (i) to synthesize results from two recent *in situ* iron enrichment experiments in the subarctic Pacific (SEEDS-2001 and SERIES-2002); (ii) to determine similarity and differences in biogeochemical and ecosystem responses to iron addition between eastern and western subarctic Pacific; and (iii) to identify specific scientific questions for the longer-term experiment in the western subarctic Pacific (SEEDS-2004). The workshop was attended by 25 scientists from Canada, Japan and U.S.A. A brief report of the workshop was published in PICES Press (Vol. 12, No. 2), and proceedings will be published in the PICES Scientific Report Series.

Exxon Valdez Oil Spill Trustee Council (EVOS)

- The sample collection and analysis for the north-south transect of the PICES Continuous Plankton Recorder (CPR) survey of the North Pacific is supported by a grant from EVOS (US \$120,000 per year, from 2004 to 2006).
- In September 2004, EVOS contributed \$11,600 for the production of the North Pacific Ecosystem Status Report. [Between 2002-2003, EVOS provided \$34,000 for the North Pacific Ecosystem Status Report.]
- In August 2004, EVOS approved funding in an amount of US \$15,000 in support of two

PICES workshops during the time period October 1, 2004 – September 30, 2005. The workshops that would be most appropriate for this funding source will be identified at PICES XIII. The deliverables will be PICES publications on the workshops.

North Pacific Research Board (NPRB)

- The sample collection and analysis for the east-west transect of the PICES Continuous Plankton Recorder (CPR) survey of the North Pacific and southern Bering Sea is supported by a grant from NPRB (US \$185,000, from July 2003 to June 2005).
- NPRB agreed to provide US \$25,000 for the symposium on “Climate variability and sub-arctic marine ecosystems” to be held May 16-20, 2005, in Victoria, Canada. PICES will act as a co-sponsor and a local organizer for this symposium.

Pacific Coastal Observing System (PaCOS)

- An international alliance for monitoring the California Current’s natural resources and ecosystems is needed to coordinate existing observing activities in the EEZs of the three countries (Canada, U.S.A. and Mexico) and international waters, integrate new initiatives as they arise, and provide early warning of ocean ecosystem change for all dependent coastal communities. PaCOS encouraged PICES to develop options for such an alliance that could be considered by the governments and organizations involved. The options developed at the workshop on “Development of pilot coastal monitoring program(s) in the NE Pacific” (November 2003, Victoria, Canada) were endorsed at the 2004 interim PICES Science Board/Governing Council meeting, and presented at the PaCOS Board meeting in May 2004. This proposal will be considered by the Board at its next meeting.

VII. PICES Intern Program

See GC Agenda item 11 for details.

VIII. PICES database and website

In today’s era of communication, the first contact between the public and an organization

is most often through its website, which therefore provides the first impressions of this organization. At the 2003 interim Science Board/Governing Council meeting (April 2003, Victoria, Canada), it was agreed that the PICES website was in need of a complete overhaul, and the Secretariat was requested to develop a plan to improve the website. The most important changes implemented in 2003-2004 include:

- The *look* and *functionality* of the website were considerably improved. Overall, about 40 new pages (*e.g.* Site map, Publications, PICES Intern Program) were added. Existing pages were re-organized and/or connected to the database to become user-friendly (*e.g.* News, Member Search). Pages with PICES publications and meetings are now updated on a regular basis. The drop-down and left-hand menus, and the local search engine were added to improve the navigation through the website.
- Both PICES’ database and website were re-organized and re-designed to make use of various advantages of a *dynamic* website (*e.g.* allow users to register for meetings and update information on-line, withdraw the most updated information, *etc.*).
- The website now provides more useful information for PICES members. 28 new pages were created for PICES standing and temporary groups. Among other information, these pages carry (i) *Terms of Reference* for the group (useful for new members); (ii) *List of members* with detailed contact information; and (iii) *Mailing List* – a tool to improve members’ communication. Some pages (*e.g.* FERRRS, WG-14) have their “Private Login areas” accessible only to members of the specific group. From these pages users can download protected files, such as draft reports, for editing purpose.
- The new, password protected, Login system was created. This protected system significantly improved database security and allowed users to directly “communicate” (update/withdraw information) with the database on-line. This direct “communication” allowed the new feature – “personal meeting summary” that brings

useful information to meeting registrants about their registration, abstract submission, registration fee payment processing, financial support status, *etc.* This system saves time for both users and the Secretariat: there is no need to exchange e-mails to confirm registration, payments, *etc.*, as these e-mails are generated automatically; and there is no need to manually update database tables as most of these updates are done by users on-line.

The new database and website have been successfully tested during the registration for the Symposium on “Quantitative ecosystem indicators for fisheries management” (April 2004, Paris, France), and PICES XIII (October 2004, Honolulu, U.S.A.). At the 2004 interim meeting, Science Board concluded that the

PICES website is now an attractive and effective product, and congratulated the PICES Secretariat for their work. In July 2004, the Secretariat received a formal letter from Dr. Ian Perry, PICES Science Board Chairman, who highly valued the new PICES website.

At the 2004 interim meeting, Science Board also agreed that the major outstanding issue now is to populate the website with information, in particular about each Committee and Program. Quality control of information posted to the PICES website will be maintained by a small “web” Publications Committee, which will periodically review information and recommend common formats. Dr. Harold P. Batchelder volunteered to chair this Committee, with additional members being nominated by each Committee and the CCCC Program.

GC Endnote 4

Report of 2004 interim Governing Council meeting

The 2004 interim Governing Council meeting was held from 14:00-18:00 on May 7, 2004, immediately after the 2004 interim Science Board/Governing Council meeting at the Hyatt Regency Hotel, Jeju, Republic of Korea. All Contracting Parties were represented at the meeting. The Chairman, Dr. Vera Alexander, also invited Dr. Ian Perry, Science Board Chairman, to attend. The participants are identified in *GC-IM Endnote 1*, and the agenda is appended as *GC-IM Endnote 2*.

PICES Strategic Plan and the next steps (Agenda Item 1)

At the 2003 interim meeting, Council established a Study Group on *PICES Strategic Issues* to develop a Strategic Plan for the Organization (Decision 03/S/5(iv)). The Study Group worked primarily by correspondence and met only once, at PICES XII (October 2003, Seoul, Korea). The Study Group is chaired by Dr. Alexander, who presented her report to Council. The draft PICES Strategic Plan was reviewed and approved in principle. The only change suggested during this discussion was to include “sustainable development” somewhere

in the draft. It was agreed that the Chairman will make the requested modification, and then the final version of the Strategic Plan will be posted on the PICES website.

All Standing Committees and the CCCC Program are requested to review the Strategic Plan prior to PICES XIII and to discuss development of their own Action Plans for current and future activities that fit within the Strategic Plan. These Action Plans should undergo an initial review at PICES XIII.

A potential role for PICES in coordinating international coastal and ocean observing systems (Agenda Item 2)

Currently, strong national and international attention is being paid to establishing effective observing systems for long-term information gathering and to serve research and operational requirements. The Pacific Coastal Observing System (PaCOS) is a new U.S. NOAA/NMFS initiative concerned with offshore and integrated coast-wide observations in the California Current System (CCS). An international alliance for monitoring the California Current’s

natural resources and ecosystems is needed to coordinate existing observing activities in the EEZs of the three countries bordering the CCS (Canada, U.S.A. and Mexico) and international waters, integrate new initiatives as they arise, and to provide early warning of ocean ecosystem change for all dependent coastal communities. PaCOS formally invited PICES to develop options for such an alliance that could be considered by the governments and organizations involved, and present them to the PaCOS Governing Board at their meeting on May 17-18, 2004.

Council reviewed the recommendations of the PICES/PaCOS/EVOS workshop on "Development of pilot coastal monitoring program(s) in the NE Pacific" (November 20-21, 2003, in Victoria, Canada; the report of this workshop was published in PICES Press Vol. 12, No. 1), and endorsed an initiative to explore the formation of a relationship with PaCOS to coordinate the international elements of this program, as long as there was no impact on national annual contributions to PICES. PICES involvement could range from facilitating international collaboration among Canada, Mexico and the United States, to providing services such as data provision and analyses, to a "PaCOS desk" at the PICES Secretariat, which would have an important role in updating the CCS chapter of the next North Pacific Ecosystem Status Report. Any involvement of PICES that requires funds must be accompanied by incremental contributions from PaCOS to implement these activities. It was also suggested that PICES should consider ways to facilitate similar interactions in the western Pacific (that do not overlap with existing projects such as NEAR-GOOS).

Approval of the recommendations from the 2004 interim Science Board meeting (Agenda Item 3)

The Chairman noted that the 2004 interim Science Board meeting proved to be extremely valuable for assessing the progress of the PICES Committees, Scientific Program and temporary groups, and for planning future directions for the Organization. All member countries profited

from the experience of having Governing Council meet with Science Board. Council complimented the Science Board Chairman, Dr. Ian Perry, on his excellent work in preparing for and convening the meeting.

Council approved the proposed structural changes to the CCCC Program:

- Concluding the *Basin Scale Studies* (BASS) and *Regional Experiment* (REX) Task Teams and the *Nemuro Experimental Planning Team* (NEXT);
- Establishing a new Task Team on *Climate Forcing and Marine Ecosystem Response* (CFAME) with terms of reference as presented in *SB-IM Endnote 3*;
- Moving the MONITOR Task Team outside the CCCC Program to become a Technical Committee directly under Science Board with terms of reference as presented in *SB-IM Endnote 4*.

Council also recommended that Contracting Parties:

- Review their membership on MEQ to determine if current national members are still appropriate, and appoint new members if necessary;
- Review their membership on TCODE for ability to represent national data holdings, and appoint new members if necessary.

Financial and administrative matters (Agenda Item 4)

Auditor's report for FY 2003

The Auditor's (*Flader & Hale*) Report for FY 2003 was distributed at the meeting. In the auditor's opinion, the financial statements are an accurate representation of the financial position of the Organization as of December 31, 2003. It was agreed that audited accounts for FY 2003 should be reviewed by F&A and presented to Council for approval at PICES XII.

Annual and voluntary contributions

Council reviewed the payment schedule of annual contributions in 2000-2004, and noted further improvements in the timeliness of

payments for all countries but China (it was indicated that the separate partial payments in 2004 is uncharacteristic for the United States). Four of the six Contracting Parties paid their full fees, and the United States paid half the fee by the end of March 2004. The People's Republic of China stated that they will attempt to pay the 2004 annual dues and the outstanding balance from 2003 within the third fiscal quarter.

The Executive Secretary reported on the following voluntary contributions and grants received since PICES XII:

- The Ministry of Maritime Affairs and Fisheries of the Republic of Korea contributed \$18,778 to the Trust Fund to involve more young scientists in PICES activities, and \$18,778 to the Working Capital Fund to support high priority PICES projects. (December 22, 2003).
- In addition to the annual fee, Fisheries & Oceans Canada contributed \$10,000 to the Trust Fund to finance the 2003-2004 PICES Intern Program. (March 29, 2004).
- The National Marine Fisheries Service (NOAA, U.S.A.) provided \$45,000 US to support activities of the PICES Study Group on *Fisheries and Ecosystem Responses to Recent Regime Shifts* which was formed to address a formal request made by the United States Government for scientific advice on the implications of the 1998/99 regime shift for fisheries. (April 19, 2004).
- The Scientific Committee on Oceanic Research (SCOR) provided a grant of \$4,000 US to support travel of scientists from countries with "economies in transition" to PICES XIII (March 18, 2004).
- The Asia Pacific Network (APN) approved a proposal by the PICES MODEL Task Team entitled "Climate interactions and marine ecosystems: Effects of climate on the structure and function of marine food-webs and implications for marine fish production in the North Pacific Ocean and marginal seas" (the amount of the final award will be known by the end of April). This will fund a workshop with approximately 25 participants in October 2004, in Honolulu, immediately prior to PICES XIII. (April 7, 2004).

Council thanked the Republic of Korea, Canada and the United States for their voluntary contributions.

PICES Intern Program

Council reviewed the status of the Intern Program and re-iterated that this is one of the best working PICES programs that is beneficial for the Organization as well as for member countries.

At PICES XII, Council approved extension of the deadline for applications for the 2004-2005 term of the Intern Program to December 31, 2003 (Decision 03/A/8(i)). Before the deadline, two Korean candidates, Mr. Gong-Gu Back (NORI/MOMAF) and Mr. Jin-Yong Lee (KORDI), were nominated and then accepted as interns, for shorter and partially overlapping 6-month terms, starting June 1 and November 1, respectively. It was also agreed that these terms could be extended to a maximum of 8 months, depending on the intern's performance, the workload of the Secretariat and availability of funds. Council agreed that this practice of adopting two interns from the same country for two consecutive but shorter terms, should not be perceived as a permanent change in the PICES Intern Program's selection procedure and a precedent for multiple appointments from a single nation, but rather a good trial of the Council's proposal of expanding the Intern Program to include a "scientific intern" and an "administrative intern".

The Intern Program has not been budgeted for, and over the years has been financed solely by voluntary contributions. According to the instructions from Council (Decision 03/A/8(ii)), the Executive Secretary sent letters inviting voluntary contributions from member countries to support the Intern Program in 2004 and beyond. He reported that in response to this request:

- Canada contributed \$10,000 to the Trust Fund to finance the 2003-2004 Intern Program; and
- The Republic of Korea suggested that a part of their contribution to the Trust Fund

(\$18,778) can be used to finance the 2004-2005 Intern Program.

Dr. Marasco indicated that the Alaska Fisheries Science Center would contribute at least US \$10,000 to the Intern Program in 2004. Dr. Kobayashi mentioned that the Fisheries Research Agency of Japan is trying to establish a new system that will allow funding to the Intern Program in the future.

Schedule and financing of future Annual Meetings

Dr. Marasco reported on the status of arrangements for PICES XIII (October 15-23, 2004, Honolulu, U.S.A.), and the Russian delegation provided brief information on preparations and the budgetary requirements for PICES XIV (September 30-October 5, 2005, in Vladivostok, Russia).

At PICES XII, Council requested Japan to explore the possibility of hosting the Fifteenth Annual Meeting in 2006, and inform the Secretariat on this matter by May 31, 2004 (Decision 03/A/5(ii)). At the interim meeting, the Japanese delegation confirmed their intention to host PICES XV.

At PICES XII, and again at the 2004 interim Council meeting, Canada indicated an interest to host the Annual Meeting in 2008, so as to link it to the celebration of the centennial anniversary of the Pacific Biological Station (Nanaimo, B.C.). This would mean an alteration to the existing rotation cycle. No action was taken, and it was agreed that this issue will be revisited at PICES XIII.

Administrative matters

At PICES XII, four specific administrative issues were raised and discussed. Canada was requested (1) to explore the feasibility of an amendment to the Headquarters Agreement that will allow the extension of the tax levy practice to all staff of the Secretariat; and (2) to clarify and inform the Secretariat of the process required to request a change in the terms of "Acceptance" status. The United States was

asked (1) to resolve the problem with restrictions when issuing the official G4 visa for PICES' Russian staff; and (2) to explore the possibility of tax exemption for PICES.

The Canadian and US delegations and the Executive Secretary provided an update on the status of these requests. It was recommended that F&A should re-visit these issues at PICES XIII.

Other business (Agenda Item 5)

North Pacific Ecosystem Status Report

At the 2004 interim meeting, Science Board reviewed the draft North Pacific Ecosystem Status Report (NPESR), which had been revised following discussions and comments at and after PICES XII, and approved the scientific content of the report. However, the controversy emerged over the naming of the sea between the Japanese archipelago and the Northeast Asian mainland. This controversy would affect the full publication of the report and the timely delivery of this scientific product valuable to all Contracting Parties. Thus, the issue of the naming of the sea was referred to Council.

The Chairman reminded Council that concerning the body of water bounded by Japan on the east and Russia and the Korean Peninsula on the west, PICES has, since 1995, used the terminology "Japan/East Sea". This practice arose because of cooperative investigations of Japan and Korea at that time, and until recently has not been challenged. Accordingly that name was used in the current preparation of the NPESR. In 2002, representatives of the Government of Japan asked that the sole term "The Sea of Japan or Japan Sea" be used for that sea (see *GC Endnote 9* in the 2002 PICES Annual Report).

Japanese and Korean representatives repeated well-known views of their governments on this issue. Japan's position is that the only "Sea of Japan or Japan Sea" should be used in the international arena, as this name is historically and geographically established, and Korea's position is that the names "East Sea" and "Japan

Sea (Sea of Japan)” should be used simultaneously, until a final resolution is agreed upon between the relevant countries (see *GC Endnote 5* in the 2003 PICES Annual Report).

After a lengthy discussion, all Contracting Parties agreed that PICES, as a scientific organization, is not the appropriate venue for political discussions, but no consensus was reached on how to proceed with the publication of the NPESR.

Dr. Marasco indicated that the NPESR is an excellent example of how an international scientific organization can generate a product of value to many countries, and that Council should not allow postponing the publication of this report any further. On behalf of the United States he tabled the following motion:

1. With the exception of the chapter currently identified as “Region 3”, all remaining chapters will be published on the web, after checking other chapters to ensure references to the sea in question have been removed.
2. The chapter on “Region 3” will be held off the web for a period of up to 6 months. If the naming issue is resolved within 6 months, the agreed name would be included and hard copy produced. If the issue is not resolved, use of past naming practices of PICES will be employed and the document published on the web and in hard copy.

This motion was seconded by the Republic of Korea and came to a vote. The outcome of the vote was four votes in favour, one against and one abstention. The PICES Convention requires a three-quarters majority in favour for a motion to pass. The Japanese delegate claimed that all six Contracting Parties have to be counted as voting, and thus the motion failed. The Korean delegate claimed that only five Contracting Parties have to be counted as voting (excluding the abstention), and thus the motion passed. The Chairman stated that neither the PICES Convention nor its Rules of Procedure contains a provision on how to deal with an abstention. Accordingly, she will seek legal advice from international lawyers and inform Council on the decision of the vote at the earliest possible date. A letter from Dr. Alexander (*GC-IM Endnote 3*) was circulated on May 28, 2004. The conclusion was that the US motion is adopted by a concurring vote of more than the three-quarters majority required to pass a motion, as a party that abstains is count as not voting.

At the conclusion of this item, the Chairman emphasized again that this sort of political question must be resolved outside the forum of a purely scientific organization such as PICES, where timely scientific contributions can otherwise be seriously impeded. Council should take all possible measures that would allow important efforts such as the NPESR to proceed unimpaired.

GC-IM Endnote 1

Participation List

Canada

Joan Kean-Howie

Japan

Tokimasa Kobayashi
Tsuyoshi Yamamoto
Satoru Yasuda (advisor)

People's Republic of China

Zhi-Xin Chen (alternate delegate)
Qian-Fei Liu (alternate delegate)
Jin-Ping Zhao (advisor)

Republic of Korea

Jong-Hyun Choe (alternate delegate)
Young-Hoon Chung
Keun-Oh Kim (advisor)

Kuh Kim (advisor)

Russian Federation

Lev N. Bocharov
Igor I. Shevchenko (alternate delegate)
Pavel V. Vorobyov (advisor)

U.S.A.

George W. Boehlert
Richard J. Marasco

Others

Vera Alexander (Chairman, PICES)
Hyung-Tack Huh (Past-Chairman, PICES)
Alexander Bychkov (Executive Secretary)
Skip McKinnell (Deputy Executive Secretary)
R. Ian Perry (Chairman, Science Board)

GC-IM Endnote 2

Governing Council 2004 Interim Meeting Agenda

1. PICES Strategic Plan and the next steps (Report of Study Group on *PICES Strategic Issues*)
2. A potential role for PICES in coordinating international coastal and ocean observing systems
3. Approval of the recommendations from the 2004 interim Science Board meeting
4. Financial and administrative matters
 - 4.1 Auditor's report for FY 2003
 - 4.2 Annual and voluntary contributions
 - 4.3 PICES Intern Program
 - 4.4 Schedule and financing of future Annual Meetings
 - 4.5 Administrative matters
5. Other business

GC-IM Endnote 3

**Decision on the vote on the US motion
(Letter of May 28, 2004, from Dr. Vera Alexander to Governing Council)**

I promised to present my decision vis-à-vis the vote on the U.S. motion (see full text below) that was taken at the meeting of the North Pacific Marine Science Organization Governing Council (PICES) held in Jeju, Korea, on May 7, 2004.

First of all, I must express my deep regret that our Governing Council was obliged to consider an issue that is not scientific, that is of direct concern to only two of the Contracting Parties,

and that has not been yet resolved in other, more appropriate, international venues. Nevertheless, two years of solid work on the North Pacific Ecosystem Status Report are in jeopardy, and in this regard, also the ability of the Organization to deliver scientific input to the Contracting Parties on a timely basis. This has serious implications, since PICES is purely a scientific organization, even though it is intergovernmental in nature, and it must provide timely information to be effective.

The use of the joint name (Japan/East Sea) has been the custom in PICES since 1995, when the Working Group on “Circulation and ventilation in the Japan/East Sea” was established. It was not until 2002, that the issue was raised by representatives of the Government of Japan, asking that the sole term used for the sea between Japan and Korea must be “the Sea of Japan or Japan Sea”. There is absolutely no way for PICES to rule effectively on the principles of such a matter. Nevertheless, the matter did come to a vote at our May meeting, specifically with regard to the name used in the North Pacific Ecosystem Status Report. The U.S. motion had two parts. First, to place an incomplete version of the report on the web, with the chapter dealing with the sea in question deleted, and second, if there is no resolution re the name of the sea within six months, to publish the report using PICES past practice (Japan/East Sea) to identify the sea that lies between Japan and Korea.

The outcome of the vote was four votes in favor, one against and one abstention. Official delegates from all six Contracting Parties were

present. The PICES Convention requires a three-quarters majority in favor for a motion to pass. If all six Contracting Parties are counted as voting, as the Japanese delegate claimed, the motion fails. If only five are counted as voting, excluding the abstention, as the Korean delegate claimed, then the motion passes with four in favor and one against. Neither the PICES Convention nor its Rules of Procedure contains a provision on how to deal with an abstention. Accordingly, the Executive Secretary and I have consulted extensively with experts, and sought legal advice. The conclusion is that the three-quarters majority required to pass a motion, as specified in the PICES Convention, is based on those who vote. A party that abstains is not voting. Therefore, the motion was adopted.

I point out that this decision by Council concerns only this particular report. Even if no resolution of the name is achieved in other venues within the six-month period, and PICES reverts to its previous practice, this does not necessarily have permanent implications for future uses. It does, however, point out the need for this matter to be settled as soon as possible.

GC Endnote 5

PICES Strategic Plan

The Nations surrounding the North Pacific Ocean depend on these waters for food, economic benefit and recreation, primarily through the abundant living marine resources. The ocean also provides transportation, while the coastal areas afford desirable locations for human habitation. Human health, pollution, aquaculture, overfishing and the effects of geo-tectonic processes are becoming major issues. The importance of the oceans in climate, and the effects of variability in climate on weather and on living marine resources are now recognized. Yet integration of scientific knowledge on the North Pacific Ocean, along with its marginal seas, has not occurred as a coherent effort in the past. The North Pacific Marine Science Organization (PICES) has undertaken this task, by bringing together scientific expertise from the Contracting Parties to synthesize and disseminate knowledge and design appropriate multinational research programs in response to identified needs. PICES is working to advance knowledge and develop an integrated understanding about how the Pacific Ocean works, so that we can make predictions and improve human conditions among the Contracting Parties.

The PICES Mission

To promote and coordinate marine scientific research in the North Pacific Ocean in order to advance scientific knowledge of the area concerned and of its living resources

The goal is to advance scientific knowledge and capacity available to the Contracting Parties, including information on human activities affecting, and affected by marine ecosystems, and to provide a mechanism for collaboration among scientists in addressing timely and critical scientific questions.

The PICES Mission calls for:

- Providing leadership on scientific issues and identifying research priorities and problems pertaining to the North Pacific Ocean, as well as appropriate methods for their solution;
- Promoting the collection and exchange of data related to marine scientific research in the North Pacific Ocean;
- Recommending coordinated research programs and related activities pertaining to the North Pacific Ocean to be undertaken through the national efforts of the participating partners;
- Establishing effective arrangements for scientific consultation and exchange;
- Coordinating and enhancing physical, chemical, biological, and interdisciplinary research;
- Developing and implementing large-scale research;
- Synthesizing scientific information regarding the regions, and making the results widely available;
- Responding to requests from the Contracting Parties to provide advice on scientific issues relating to the North Pacific Ocean;
- Building capacity within the scientific communities of the Contracting Parties;
- Fostering partnerships with other organizations that share a common interest;
- Informing interested parties and the public about marine ecosystem issues.

The PICES Strategy

The PICES mission is built upon five central themes: (A) Advancing scientific knowledge; (B) Applying scientific knowledge; (C) Fostering partnerships; (D) Ensuring a modern organization in support of PICES activities; and (E) Distributing PICES scientific knowledge. Specific goals are identified within each of these themes. The actions and activities required to meet each of these goals will change over time, and will be described and updated regularly in a separate PICES Action Plan.

Theme A. *Advancing scientific knowledge*

Goals 1 and 2 address our need to understand the Pacific Ocean system, a need that can only be addressed by multi-national scientific cooperation. Effective resource management by each member country requires comprehensive scientific understanding, including, for example, the role of the ocean in climate. Furthermore, human populations residing in coastal regions are growing, and the sustainable use of marine resources is a priority. The potential for disrupting the marine ecosystems is increasing, but mitigation and effective use is possible with sufficient information on the impacts of human activities.

Goal 1. *Understand the physical, chemical, and biological functioning of marine ecosystems*

The PICES scientific program is dedicated to understanding and quantifying the physical, chemical and biological processes of the North Pacific Ocean, including the oceanographic and ecological responses to climate variability. Understanding biological diversity, life histories and trophic relationships depend on the development of modern technologies for sampling the marine environment.

Goal 2. *Understand and quantify the impacts of human activities and climate on marine ecosystems*

PICES recognizes that humans are part of the ecosystem of the North Pacific Ocean. They are affected by climate scale variability, and in turn conduct activities that impact marine ecosystems. This goal

addresses the ecosystem effects of fishing, mariculture, contamination and eutrophication on the marine ecosystem, and also includes physical habitat changes and accidental introduction of non-native species.

Goal 3. *Provide advice on methods and tools to guide scientific activities*

The quality of our science benefits from comparable methods and techniques. PICES provides workshops on, and opportunities for, inter-calibration of methodology and sampling equipment, as well as collaborative opportunities to develop new, creative methodologies.

Theme B. *Applying scientific knowledge*

Scientific knowledge can be applied to address societal needs. This activity follows logically from the previous theme, in that it demonstrates how scientific understanding can assist with societal problems related to the North Pacific Ocean.

Goal 4. *Provide scientific advice towards wise use of the North Pacific Ocean*

PICES provides periodic reports dealing with critical issues, including a comprehensive assessment of the Status of the North Pacific Ecosystem. Information needed in support of sound utilization and sustainable development of the marine environment is a PICES priority.

Theme C. *Fostering partnerships*

Collaboration and communication lies at the heart of creating scientific knowledge and using it effectively. PICES creates a forum that enhances international collaboration in the North Pacific region, as well as with similar organizations throughout the world.

Goal 5. *Promote collaboration with organizations, scientific programs, and stakeholders that are relevant to the PICES goals*

PICES develops close relationships with scientific organizations and commissions that have shared goals, and also exchanges observers and carries out joint activities. Close collaboration with regional and international programs is critical to PICES success. PICES activities provide an opportunity for capacity building through internships and expediting the involvement of young scientists in PICES activities.

Goal 6. *Promote collaboration among scientists within PICES*

PICES must continue to widen the appeal of the PICES Annual Meeting, broaden the scope and readership of publications, and continually develop new partnerships to address emerging issues. PICES must be open to non-governmental scientists, and must ensure the participation of under-represented groups.

Theme D. *Ensuring a modern organization in support of PICES activities*

The activities in support of the primary mission of PICES require effective support and implementation, as well as broad participation from the scientific communities of the Contracting Parties.

Goal 7. *Provide an effective infrastructure to support PICES programs*

An effective Secretariat that supports the mission and goals of the organization is essential to its success.

Theme E. *Distributing PICES scientific information*

PICES has an important role in making information resulting from the Organization's activities available.

Goal 8. Make the scientific products of PICES accessible

PICES needs to communicate the results of its scientific activities broadly, through high quality publications, the PICES website, and production and dissemination of educational materials. PICES will maximize the use of electronic media as a vehicle, to allow updates as new information is produced.