

GC Appendix A

2009 Governing Council decisions

2009/A/1: Auditor

Council accepted the audited accounts for *FY* 2008.

2009/A/2: Annual contributions

- i. Council instructed the Executive Secretary to send a letter commending Contracting Parties for their performance in submitting annual contributions for *FY* 2009, and describing the difficulties that late and/or partial payment causes the Organization.
- ii. Council confirmed that for planning of their funding requests for annual contributions, Contracting Parties should continue to use the guideline generally accepted at PICES-1999 (Decision 1999/A/2(ii)), which states that the annual contributions will increase at the rate of inflation in Canada.

2009/A/3: Budget and fund-raising

- i. Council accepted the estimated accounts for *FY* 2009.
- ii. Council approved the 2010 budget of \$797,000. The amount of \$110,000 will be transferred from the Working Capital Fund to balance the budget, setting the total annual contribution at \$687,000, and the 2010 annual fee at \$114,500 per Contracting Party.
- iii. Council approved a transfer from the Working Capital Fund to the Trust Fund to recover the 2009 expenses, and to restore the Trust Fund to the level of \$110,000 by the end of the fiscal year.
- iv. Council approved that the amount of \$21,105 in unspent funds from the 2008 symposium on “*Effects of climate change on the world’s oceans*” (Gijón, Spain) be earmarked for high-priority projects other than the preparation of the next North Pacific Ecosystem Status Report.
- v. Council instructed the Executive Secretary to send a letter to the Contracting Parties providing information on planned activities for the new PICES integrative science program on “*Forecasting and Understanding Trends, Uncertainty and Responses of North Pacific Ecosystems*” (FUTURE) and requesting contributions to these activities.
- vi. Council instructed the Executive Secretary to solicit new members for the Consortium on the North Pacific Continuous Plankton Recorder program.

2009/A/4: PICES Strategic Plan

A Study Group on *Updating the PICES Strategic Plan* was established under the direction of Council to review and propose revisions, if necessary, to the Strategic Plan for the Organization to ensure that it reflects the vision of all Contracting Parties for the direction of PICES over the next 5–10 years. The membership and terms of reference for the Study Group are listed in *GC Appendix B*.

2009/A/5: PICES Rules of Procedure

Council approved the proposed amendments to the Rules of Procedure to:

- i. allow experts from outside of PICES to serve as *ex-officio* members on PICES Technical Committees and subsidiary bodies of PICES Scientific Committees (see changes in *Definitions, Rule 1, 13, 14, 15* adopted at the 2009 inter-sessional Council meeting); the main objective of these changes was to achieve better scientific cooperation with non-member countries and other international organizations;
- ii. bring the Rules of Procedure into line with the approved organizational structure for the FUTURE science program (see changes in *Rules 12, 13, 16, 17*).

2009/A/6: Future PICES Annual Meetings and inter-sessional Science Board and Council meetings

- i. Council adopted the final report of the Study Group on *Restructuring the PICES Annual Meeting* and agreed to implement most of the recommended changes in the format of the Annual Meeting starting with PICES-2011. Council decided to immediately implement the proposed changes in the format of the Opening Session. Beginning with PICES-2009, the Opening Session will include remarks by representatives of the host country, remarks by the Chairman of PICES, and such activities that Science Board and/or Council

may wish to include. Remarks by Contracting Parties will now occur at the beginning of the Governing Council meeting.

- ii. Council accepted the proposal of the United States of America to host PICES-2010 from October 22–31, 2010, in Portland, Oregon. The theme of the meeting, “*North Pacific ecosystems today, and challenges in understanding and forecasting change*”, was approved in principle at PICES-2008, and the theme description was finalized at the 2009 inter-sessional Science Board meeting.
- iii. Council accepted the proposal of the Russian Federation to host PICES-2011 from October 14–22, 2011. The venue for the meeting will be decided in spring 2010. Council approved in principle the proposed theme of the meeting, “*Mechanisms of marine ecosystem reorganization in the North Pacific Ocean*”, and instructed Science Board to finalize the theme description by the 2010 inter-sessional Science Board meeting.
- iv. Following the established 6-year rotation cycle, Council requested Japan to explore the possibility of hosting PICES-2012, and inform the Secretariat on this matter by March 31, 2010.
- v. Council accepted the following registration fee structure for PICES-2010:

Type of registration fee	CDN \$
Regular	275
Early	200
Student	50
Spousal/guest	50

- vi. Council approved a 2-day inter-sessional Science Board meeting to be hosted by Japan and held immediately prior to the PICES/ICES/FAO international symposium on “*Climate change effects on fish and fisheries: Forecasting impacts, assessing ecosystem responses, and evaluating management strategies*” (April 25–29, 2010, Sendai, Japan).

2009/A/7: Intern Program

- i. Council confirmed that the stipend should be kept at the current level of \$2,000 per month. The nominating Contracting Party could consider supplementing this modest stipend, depending on the intern’s personal circumstances.
- ii. Considering funding currently available for the Intern Program and stated intentions for contributions from Contracting Parties, Council offered the 2010/2011 intern, Ms. Tatiana Semenova (Pacific Research Fisheries Centre, Russia), a 12-month term to start on March 1, 2010.
- iii. Council instructed the Executive Secretary to invite Contracting Parties to provide voluntary contributions to support the Intern Program in 2010 and beyond.

2009/A/8: Improvement of participation in PICES activities

- i. Council requested Contracting Parties to regularly review their national membership and make changes as appropriate, and to provide the updated national membership list to the Secretariat by the first day of the calendar year (January 1). These lists are required to maintain a historical record of PICES membership, and to assist in improving participation in the activities of the Organization.
- ii. Council requested Contracting Parties to follow up on *Rule 1(ii)* of the PICES Rules of Procedure stating that “*each Contracting Party is requested to notify the Executive Secretary, three weeks in advance, of the names of delegates, alternate delegates, advisors and members, attending each meeting of the Organization*”. The national delegation lists are required to assist in better coordinating activities of the Standing Committees and their subsidiary bodies, and in better preparing the Annual Meeting.
- iii. To better assess problems existing in Contracting Parties with the participation of their scientists in the activities of the Standing Committees and their subsidiary bodies, and in the Annual Meetings of the Organization, Council instructed the Executive Secretary to regularly prepare and circulate to Contracting Parties information on participation of their scientists in the Annual Meetings for the previous six years.

2009/S/1: PICES integrative science program

The FUTURE Implementation Plan was approved in principle at the inter-sessional Council meeting in April 2009 and finalized in June 2009. The basic principles of the Program are contained in the FUTURE Science Plan approved in principle at PICES-2007 (Decision 2007/S/1) and finalized in February 2008.

2009/S/2: 2010 PICES Annual Meeting

The following scientific sessions are to be convened at PICES-2010:

- ¾-day Science Board Symposium on “*North Pacific ecosystems today, and challenges in understanding and forecasting change*”;
- 1-day BIO Contributed Paper Session;
- 1-day BIO Topic Session on “*Understanding the role of iron in regulating biogeochemical cycles and ecosystem structures in the North Pacific Ocean*”;
- ½-day BIO Topic Session on “*The Practical Handbook at 50: A celebration of the life and career of Tim Parsons*”;
- ½-day BIO Topic Session on “*Census of Marine Life – Exploring ocean life: Past, present and future*” (co-sponsored by US CoML);
- 1-day FIS Contributed Paper Session;
- ½-day FIS Topic Session on “*Oceanographic and demographic processes affecting the reproductive biology of exploited marine stocks*”;
- 1-day FIS/BIO Topic Session on “*Observations of ecosystem mixing under climate change*”;
- 1-day FIS/MEQ Topic Session on “*Economic relation between marine aquaculture and wild capture fisheries*”;
- 1-day FIS/POC/BIO Topic Session on “*Impact of climate variability on marine ecosystems: Understanding functional responses to facilitate forecasting*” (co-sponsored by ICES);
- ½-day MEQ Topic Session on “*Conceptual and numerical models of HAB dynamics*”;
- ½-day MEQ/FIS Topic Session on “*New and emerging technologies: Applications of genomics for marine ecosystem studies*”;
- ½-day MEQ/FIS Topic Session on “*Identifying vulnerable marine ecosystems in the North Pacific*”;
- 1-day MEQ/FUTURE Topic Session on “*Anthropogenic forcing in North Pacific coastal ecosystems: Understanding changes in ecosystem structure and function*”;
- 1-day POC Contributed Paper Session
- 1-day POC/BIO/MONITOR/FUTURE Topic Session on “*Comparing the two major gyres of the subarctic North Pacific – Seasonal and interannual variability and its predictability*”;
- ½-day POC/MEQ/FUTURE Topic Session on “*Marine renewable energy development in coastal and estuarine environments around the North Pacific*”;
- 1-day MONITOR Topic Session on “*Development and use of ocean observing and forecasting systems in coastal and marine management*” (co-sponsored by ICES).

The following workshops are to be convened at PICES-2010:

- 2-day BIO Workshop on “*Marine ecosystem model inter-comparisons (III)*”;
- ½-day FIS Workshop on “*Beyond Lagrangian: Modeling migratory fish behavior in Global Circulation Models*”;
- 1-day MEQ Workshop on “*New technologies and methods in HAB detection. I. HAB species detection*” (includes ½-day laboratory demonstration);
- ½-day POC Workshop on “*PICES Working Group on Evaluations of Climate Change Projections (WG 20): Progress and FUTURE*”;
- 2-day POC/BIO Workshop on “*Carbon data synthesis (III)*”.

The following business meetings are to be held at PICES-2010:

- ¼-day Science Board meeting (October 24) and 1-day Science Board meeting (October 30);
- ½-day meetings of Scientific (BIO, FIS, MEQ and POC) and Technical (MONITOR and TCODE) Committees to be run concurrently;
- 1-day meeting of the POC/BIO Section on *Carbon and Climate (CC-S)*;
- 1-day meeting of the MEQ Section on *Ecology of Harmful Algal Blooms in the North Pacific (HAB-S)*;

- 2-day meeting of the MEQ Working Group on *Non-indigenous Aquatic Species* (WG 21), immediately after a 4-day PICES Rapid Assessment Survey (RAS-2010);
- ½-day meeting of the BIO Working Group on *Iron Supply and its Impact on Biogeochemistry and Ecosystems in the North Pacific Ocean* (WG 22);
- 1-day meeting of the BIO Working Group on *Comparative Ecology of Krill in Coastal and Oceanic Waters around the Pacific Rim* (WG 23);
- ½-day meeting of the MEQ/FIS Working Group on *Environmental Interactions of Marine Aquaculture* (WG 24);
- ½-day meeting of the PICES-ICES Working Group on *Forecasting Climate Change Impacts on Fish and Shellfish* (WG 25);
- ½-day meetings concurrent meetings of the FUTURE Advisory Panels on *Anthropogenic Influences on Coastal Ecosystems* (AICE-AP), *Climate, Oceanographic Variability and Ecosystems* (COVE-AP) and *Status, Outlooks, Forecasts, and Engagement* (SOFE-AP) followed by ½-day joint meeting of these Advisory Panels;
- ½-day meeting of the BIO Advisory Panel on *Marine Birds and Mammals* (MBM-AP);
- ½-day meeting of the MONITOR Advisory Panel on the *Continuous Plankton Recorder Survey in the North Pacific* (CPR-AP);
- ½-day meeting of the POC/MONITOR Advisory Panel for a *CREAMS/PICES Program in East Asian Marginal Seas* (CREAMS-AP);
- 1-day meeting of the Study Group on *Human Dimensions for Environmental Change* (HD-SG).

2009/S/3: Inter-sessional symposia/workshops/meetings

The following inter-sessional meetings and workshops are to be convened/co-sponsored in 2010 and beyond:

- Second PICES Harmful Algal Bloom training course, February 10–19, 2010, Guatemala-City, Guatemala;
- 12th Salmon Ecology Workshop, March 24–25, 2010, Santa Cruz, CA, U.S.A.;
- PICES/ICES/FAO Symposium on “*Climate change effects on fish and fisheries: Forecasting impacts, assessing ecosystem responses, and evaluating management strategies*”, April 25–29, 2010, Sendai, Japan (approved in 2008);
- Inter-sessional Science Board meeting (April 23–24, 2010), immediately prior to the PICES/ICES/FAO Symposium, Sendai, Japan;
- Meeting of the PICES-ICES Working Group on *Forecasting Climate Change Impacts on Fish and Shellfish* (April 29–30), immediately after the PICES/ICES/FAO Symposium, Sendai, Japan;
- POC/BIO Workshop on “*Carbon data synthesis (II)*”, June 2010, Japan or U.S.A.;
- Meeting of the Study Group on *Human Dimensions for Environmental Change*, June 2010, Japan;
- Demonstration workshop on “*Introduction to rapid assessment survey and collector survey methodologies for application in developing countries*”, summer 2010, Japan;
- IMBER Summer School on “*Ocean dynamics, marine ecosystems and climate change*” (co-sponsored by PICES), August 23–27, 2010, Brest, France;
- CREAMS/PICES EAST-II (East Asian Seas Time-series) Workshop, September 11–12, 2010, Gangneung, Korea;
- ICES/PICES Theme Sessions on “*Impact of climate variability on marine ecosystems: Understanding functional responses to facilitate forecasting*” and “*Development and use of ocean observing and forecasting systems in coastal and marine management*” at the 2010 ICES Annual Science Conference, September 20–24, 2010, Nantes, France;
- Second IMBER IMBIZO on “*Integrating biogeochemistry and ecosystems in a changing ocean: Regional comparisons*” (co-sponsored by PICES), October 10–14, 2010, Crete, Greece;
- 26th Lowell Wakefield Symposium on “*Ecosystems 2010: Global progress on ecosystem-based fisheries management*” (co-sponsored by PICES), November 8–11, 2010, Anchorage, U.S.A. (approved in 2008);
- Fifth International Zooplankton Production Symposium (primary sponsors: PICES and ICES), March 14–18, 2011, Pucon, Chile (approved in 2008);
- Second ESSAS Open Science Meeting on “*Comparative studies of climate effects on polar and sub-polar ocean ecosystems: Progress in observation and prediction*” (organizational support by PICES), June 2011, Seattle, U.S.A. (approved at the 2009 inter-sessional Council meeting);

- Second PICES/ICES/IOC Symposium on “*Effects of climate change on the world’s oceans*” as one of the official events related to Ocean Expo-2012, May 2012, Yeosu, Korea (approved at the 2009 inter-sessional Council meeting).

2009/S/4: Travel support

PICES will provide travel support for:

2010 PICES Annual Meeting

- Invited speakers for Science Board Symposium and Topic Sessions, with the normal allocation of approximately \$5,000 per Committee/Program; additional requests are subject to fund availability;
- Two invited speakers for each of the following workshops: BIO Workshop on “*Marine ecosystem model inter-comparisons (III)*”; MEQ Workshop on “*New technologies and methods in HAB detection. I. HAB species detection*”; and POC/BIO Workshop on “*Carbon data synthesis (III)*”;
- One invited speaker for the FIS Workshop on “*Beyond Lagrangian: Modeling migratory fish behavior in Global Circulation Models*”.

Inter-sessional meetings

- A representative of MONITOR to attend the 2010 meeting of the ICES-GOOS Study Group, April 2010, Woods Hole, U.S.A.;
- One member of WG 20 on *Evaluations of Climate Change Projections* to attend the PICES/ICES/FAO Symposium, April 25–29, 2010, Sendai, Japan; and one WG 20 member to participate in the 2010 ESSAS Annual Meeting, September 2010, Reykjavik, Ireland;
- A representative of MONITOR to attend the 2010 SAON (Sustained Arctic Ocean Networks) meeting, May 2010, Miami, U.S.A.;
- A representative of PICES to participate in the meeting of a Post-Conference Working Group to consider the outcomes of the OceanObs’09 conference, spring 2010, place TBD;
- A representative of PICES to attend the 43rd Session of the IOC Executive Council, June 8–16, 2010, Paris, France;
- Two scientists to attend the POC/BIO Workshop on “*Carbon data synthesis (II)*”, June 2010, Japan or U.S.A.;
- Six early career scientists (partial support) to attend the IMBER Summer School on “*Ocean dynamics, marine ecosystems and climate change*” (co-sponsored by PICES), August 23–27, 2010, Brest, France;
- Two scientists to attend the CREAMS/PICES EAST-II Workshop, September 11–12, 2010, Gangneung, Korea;
- A PICES representative to attend the 2010 SCOR General Meeting, September 13–17, 2010, Toulouse, France;
- A PICES representative and three scientists from the North Pacific (a PICES convenor and/or an invited speaker for the joint sessions on “*Impact of climate variability on marine ecosystems: Understanding functional responses to facilitate forecasting*” and “*Development and use of ocean observing and forecasting systems in coastal and marine management*”) to participate in the 2010 ICES Annual Science Conference, September 20–24, 2009, Nantes, France;
- A PICES representative to attend “*A Decade of Discovery – Census of Marine Life 2010*”, October 4–6, 2010, London, UK;
- Three invited speakers from the North Pacific for the Second IMBER IMBIZO on “*Integrating biogeochemistry and ecosystems in a changing ocean: Regional comparisons*”, October 10–14, 2010, Crete, Greece;
- A PICES representative to attend the 2010 NPAFC Annual Meeting, November 1–5, 2010, Busan, Korea;
- Two non-American scientists from the North Pacific (a PICES SSC member and an invited speaker) and early career scientists from PICES member countries (with total support up to \$3,000) to participate in the 26th Lowell Wakefield Symposium on “*Ecosystems 2010: Global progress on ecosystem-based fisheries management*”, November 8–11, 2010, Anchorage, U.S.A. (approved in 2008).

2009/S/5: Publications

The following publications are to be produced in 2010–2011:

Primary journals

- *Deep-Sea Research II* – special issue based on papers from the SEEDS-II experiment (Guest Editors: M. Uematsu, M. Wells, A. Tsuda and H. Saito) to be published in late 2009 or early 2010;
- *Deep-Sea Research II* – special issue based on selected papers on krill from the 4th International Zooplankton Production Symposium on “*Human and climate forcing of zooplankton populations*” (Guest Editors: S. Kawaguchi and W. Peterson) to be published in spring 2010;
- *Continental Shelf Research* – special issue on “*Tides in Marginal Seas*” dedicated to Prof. Alexei Nekrasov (Guest Editors: A. Rabinovich, M. Foreman, B. Kagan and J. Cherniawsky) to be published in spring 2010;
- *Deep-Sea Research II* – special issue based on selected papers from the OECOS (Oceanic Ecosystem Comparison in the Subarctic Pacific) experiment (Guest Editors: C. Miller and A. Yamaguchi) to be published in fall 2010;
- *ICES Journal of Marine Science* – special issue based on selected papers from the 2009 ICES/PICES Symposium on “*Rebuilding depleted fish stocks: biology, ecology, social science, and management strategies*” (Guest Editor: Niels Daan) to be published in late 2010 or early 2011;
- *ICES Journal of Marine Science* – special issue based on selected papers from the 2010 PICES/ICES/FAO Symposium on “*Forecasting climate change impacts on fish and fisheries*” (Guest Editors: A. Hollowed, S.-I Ito, S. Kim, H. Loeng and M. Peck) to be published in summer 2011, with sufficient time to be considered by review panels responsible for the next IPCC assessment report (AR5);
- *Journal of Oceanography* – special section based on selected papers from the PICES-2009 Topic Session on “*Anthropogenic perturbations of the carbon cycle and their impacts in the North Pacific*” (Guest Editors: J. Christian and T. Saino) to be published in summer 2011;
- *Fisheries Research* – special issue based on selected papers from the PICES-2009 Topic Session on “*Ecosystem-based approaches for the assessment of fisheries under data-limited situations*” (Guest Editors: P. Livingston, L. Richards and TBD) to be published in fall 2011.

PICES Special Publications

- Second North Pacific Ecosystem Status Report (Editors: S. McKinnell and M. Dagg).

PICES Scientific Report series

- Final report of WG19 on *Ecosystem-based Management Science and its Application to the North Pacific* (Editors: G. Jamieson, P. Livingston and C.-I. Zhang);
- Final report of the Advisory Panel on *Micronekton Sampling Inter-calibration Experiment* (Editors: E. Pakhomov and O. Yamamura);
- Final report for the Climate Change and Carrying Capacity Program (Editor: M. Kishi).

Other publications

- Translation of *Guide to best practices for ocean CO₂ measurements* (PICES Special Publication No. 3, 2007; Editors: A. Dickson, C. Sabine and J. Christian) in Korean and Chinese languages to be published in 2010;
- Brochure on “*Ecosystem-based management science and its application to the North Pacific*”;
- Brochure on “*The status and trends of the North Pacific Ocean*” – summary of the Second North Pacific Ecosystem Status Report for policy makers, managers, commercial stakeholders and other interested members of society to be published in 2010 or early 2011.

Special CD-ROM/USB

- CD/USB with PICES Scientific Publications from 1993–2010 to be published by October 2010 and included in the PICES-2010 registration package.

2009/S/6: Future of current PICES expert groups

- i. The lifespan of the POC/MONITOR Advisory Panel for a *CREAMS/PICES Program in East Asian Marginal Seas* (CREAMS-AP) was extended until October 2011 (approved at the 2009 inter-sessional Council meeting).
- ii. The following expert groups completed their terms of reference and should be disbanded:
 - MEQ/FIS Working Group on *Ecosystem-based Management Science and its Application to the North Pacific* (WG 19; 2004–2009);
 - BIO Advisory Panel on *Micronekton Sampling Inter-calibration Experiment* (MIE-AP; 2002–2009);

- Implementation Panel on Climate Change and Carrying Capacity Program (CCCC; 1995–2009), and CCCC Task Teams on *Conceptual Theoretical and Modeling Studies* (MODEL; 1995–2009) and *Climate Forcing and Marine Ecosystem Response* (CFAME; 2004–2009);
- Governing Council Study Group on *Future Integrative Scientific Program(s)* (SG-FISP; 2005–2009) and two Writing Teams under SG-FISP, *FUTURE Science Plan* Writing Team (SP-WT; 2007–2008) and *FUTURE Implementation Plan* Writing Team (IP-WT; 2008–2009);
- Governing Council Study Group on *Communications* (SG-COM; 2007–2009);
- Governing Council Study Group on *Restructuring of the PICES Annual Meeting* (SG-RAM; 2008–2009).

Final reports of these expert groups will be published either in the PICES Scientific Report series (WG 19, MIE-AP and CCCC Program, including all Task Teams) or in the 2009 PICES Annual Report (SG-COM and SG-RAM).

2009/S/7: New PICES expert groups

- i. Advisory Panels on *Anthropogenic Influences on Coastal Ecosystems* (AICE-AP), *Climate, Oceanographic Variability and Ecosystems* (COVE-AP) and *Status, Outlooks, Forecasts, and Engagement* (SOFE-AP) were established to provide continuing direction, leadership, coordination, and synthesis toward attaining goals of the new PICES integrative science program on “*Forecasting and Understanding Trends, Uncertainty and Responses of North Pacific Ecosystems*” (FUTURE). The recommendations from the Advisory Panels will be considered by Science Board which serves as the Scientific Steering Committee for FUTURE (approved at the 2009 inter-sessional Council meeting).
- ii. A Study Group on *Updating the PICES Strategic Plan* (SG-USP) was established under the direction of Council, with terms of reference as described in *GC Appendix B*.
- iii. A Study Group on *Human Dimensions for Environmental Change* (SG-HD) was established under the direction of Science Board, with terms of reference as described in *GC Appendix B* (approved in principle at the 2009 inter-sessional Council meeting).

2009/S/8: Science Board Chairman-elect

To facilitate the continuity of Science Board affairs, Council established a Science Board Chairman-elect position to allow the election of the Science Board Chairman 1 year before the official change of the chairmanship (Decision 2006/A/11). Dr. Sinjae Yoo (Korea) was unanimously elected for this position by Science Board.

2009/S/9: Chairmen and Vice-Chairmen for permanent committees and expert groups

The following reflects changes in Chairmanship/Vice-Chairmanship and new appointments for Scientific and Technical Committees and expert groups:

- Dr. Steve S. Rumrill (U.S.A.) was elected as MEQ Chairman to replace Dr. Glen Jamieson (Canada);
- Dr. Mitsutaku Makino (Japan) was elected as MEQ Vice-Chairman to replace Dr. Hak-Gyoon Kim (Korea);
- Dr. Thomas W. Therriault (Canada) was appointed as Chairman of the FUTURE AICE-AP;
- Dr. Hiroaki Saito (Japan) was appointed as Chairman of the FUTURE COVE-AP;
- Dr. Robin Brown (Canada) was appointed as Chairman of the FUTURE SOFE-AP;
- Drs. Vyacheslav Lobanov (Russia) and Joji Ishizaka (Japan) were appointed as Co-Chairmen of the POC/MONITOR CREAMS-AP; Dr. Yasunori Sakurai (Japan) will step down as Co-Chairman and Dr. Kyung-Ryul Kim (Korea) will continue to serve as the third Co-Chairman;
- Dr. Mitsutaku Makino (Japan) was appointed as Chairman of the Science Board SG-HD.

2009/S/10: Relations with other organizations and programs

- i. Council confirmed keeping the 2008 *Standing List of International and Regional Organizations and Programs* and agreed with the priorities for interaction in 2009–2010 identified by Science Board (*SB Endnote 3*).
- ii. PICES supported the establishment of the SCOR Working Group 137 on *Patterns of Phytoplankton Dynamics in Coastal Ecosystems: Comparative Analysis of Time Series Observation* and agreed to support an Associate Member from the North Pacific (Dr. Sinjae Yoo, Korea) to participate in its activities.

- iii. Council approved a joint PICES/ICES Study Group on *Developing a Framework for Scientific Cooperation in Northern Hemisphere Marine Science* (SG-SP) in principle, and directed Science Board and the Secretariat to work with ICES to finalize the terms of reference, membership and timelines for the group. The goal of the Study Group is to develop a formal framework for cooperation between ICES and PICES to serve as the basis for linkages of science plans and longer-term strategic planning for the two organizations (*GC Appendix B*).

GC Appendix B

Study Group on Updating the PICES Strategic Plan (SG-USP)

Terms of Reference

The PICES Strategic Plan was developed by a Study Group on *PICES Strategic Issues* in 2003–2004, and approved by Governing Council in 2004 (Decision 2004/A/6(i)). Since that time, PICES has adopted the new integrative science program, FUTURE, and modified the Rules of Procedure. The Strategic Plan of the Organization should now be updated to ensure that it reflects the vision of all Contracting Parties for the direction of PICES over the next 5–10 years.

The Study Group on *Updating the PICES Strategic Plan* will be convened to:

1. Review the PICES Strategic Plan, the FUTURE Implementation Plan, and current Action Plans of PICES Standing Committees;
2. Review the strategic plans of other relevant international organizations such as ICES;
3. Consider the views of Contracting Parties on the priorities for marine scientific research in the North Pacific Ocean over the next 5–10 years;
4. Propose revisions to the PICES Strategic Plan (if necessary) in time for consideration by Governing Council at PICES-2010 in Portland, U.S.A.

Membership

The Study Group will be led by the Chairman of PICES (Dr. Tokio Wada), and its membership will include the Past-Chairman of PICES (Dr. Vera Alexander), the Vice-Chairman of PICES (Dr. Lev Bocharov), the Science Board Chairman and Science Board Chairman-elect (Drs. John Stein and Sinjae Yoo), and one representative from each of the two Contracting Parties, Canada and People's Republic of China, that otherwise are not represented on the Study Group. The Executive Secretary and Deputy Executive Secretary (Drs. Alexander Bychkov and Skip McKinnell) will serve as *ex-officio* members of the Study Group.

Study Group on Human Dimensions for Environmental Change (SG-HD)

Terms of Reference

The Implementation Plan for the new PICES integrative science program on “*Forecasting and Understanding Trends, Uncertainty and Responses of North Pacific Marine Ecosystems*” (FUTURE) calls for PICES scientists to make the societal implications of their science more explicit and accessible through long-term engagement and communication activities among scientists, decision makers, stakeholders, and across sectors. Because, different marine sectors view ecosystems in terms of their own economic, cultural and societal needs, the objective of ecosystem conservation is “a societal choice” (Principle 1 of the *Ecosystem Approach of the Convention on Biological Diversity*). Therefore, the social significance of predicted impacts from climate or ecosystem changes, and the types of information, advice and guidance that might be requested of FUTURE might differ from country to country and sector to sector.

The objective of the Study Group on *Human Dimensions* is not to design management systems or planning and outreach steps, but to review the role of social sciences practices applied in decision-making in marine sectors around the world. In order to fully utilize the limited time frame of the Study Group (one year), the main focus will be on ecosystem-based fisheries management (EBFM). The Study Group intends to:

1. Review how social science has been used/applied globally and regionally in EBFM and the theoretical basis for these practices;
2. Review the social scientific tools and information available for EBFM in PICES member countries;
3. Develop an inventory of practices (the term “best practice” is not used because it is expected what is “best” will vary and be determined according to the circumstances in each of PICES member countries) for use of social economic information appropriate to the circumstances in each of PICES member countries;
4. Prepare a final report on activities and findings of the group and make recommendations on the desirability of establishing an expert group related to socio-economic sciences within PICES and on the role of such group. For example, based on sound social and economic science, the potential expert group should first survey/assess the needs of potential stakeholders for FUTURE products, and scientifically clarify differences in societal objectives among stakeholders in different sectors and countries.

Membership

Each Contracting Party was requested to nominate two members to the Study Group, with one expert being a social scientist.

Tentative timelines

October 2009	Study Group approval
November 2009	developing/finalizing terms of reference
December 2009	nominating/finalizing membership and chairmanship
January 2010	initiating work by correspondence
Summer 2010	holding an inter-sessional meeting (venue and dates TBD)
October 2010	holding a meeting at PICES-2010 to finalize the report
December 2010	submitting the final report to the PICES Secretariat

PICES/ICES Study Group on *Developing a Framework for Scientific Cooperation in Northern Hemisphere Marine Science (SG-SP)*

The two major international marine science organizations in the northern hemisphere, ICES (International Council for the Exploration of the Sea) and PICES (North Pacific Marine Science Organization), are focused on different oceans but have in common many scientific issues. In the past 10 years, there have been significant increases in reciprocal exchanges, cooperative sponsorships of scientific meetings and projects, and deeper linkages that have often developed on a case-by-case basis. The objective of this Study Group is to develop a formal framework for cooperation between ICES and PICES to serve as the basis for linkages of our science plans and longer-term strategic planning.

Terms of Reference

1. Study Group members will review their organization’s existing and planned scientific activities to identify scientific themes that could potentially benefit from the other’s involvement in these activities.
2. Lists of potential areas of cooperation will be exchanged by September/October 2010;
3. A meeting/workshop will be convened after documents are exchanged in spring 2011 to:
 - a. Improve understanding of the science activities of each organization;
 - b. Review scientific topics from TOR(1) to identify areas of common interest;
 - c. As an example of recent cooperation, review progress of the joint Working Group on *Forecasting of Climate Change Impacts on Fish and Shellfish* (WG-FCCIFS) established in 2008;
 - d. Develop a framework for cooperation between ICES and PICES that lists categories of joint activities and the rationale for each, including the benefits to each Organization from the joint activity; identify priorities for joint activities within categories;
 - e. Recommend processes for implementing TOR(3d);
 - f. Recommend approaches to develop a strategic plan for cooperation and mechanisms to periodically update that plan.

4. The Co-Chairmen will prepare a final Study Group report for distribution by the P/ICES Secretariats by August 15, 2011.

Membership

PICES (6 members): Science Board Chairman, Science Board Vice-Chairman, Deputy Executive Secretary, and Committee representation (3 individuals) responsible for Climate, Fisheries, and Aquaculture science;

ICES (6 members): members of Scientific Committee Steering Group.