

Report of the Advisory Panel on *Continuous Plankton Recorder* in the North Pacific

The Advisory Panel on *Continuous Plankton Recorder in the North Pacific* (MONITOR) was scheduled to meet from 14:00–16:30 on October 12, 2013, in Nanaimo, British Columbia, Canada. The regularly scheduled meeting was replaced by a later, less formal gathering due to circumstances related to the absence of the Chair (Dr. Phillip R. Mundy) from the PICES Nanaimo meetings. Members and guests of the Panel were assembled later that evening by Dr. Sonia Batten at the SAHFOS Nanaimo office for a combination meeting and social event. Contact information for members and guests and the agenda for the regularly scheduled meeting are found in *AP-CPR Endnotes 1* and *2*.

Advice

The North Pacific CPR continues to build a unique set of observations on zooplankton species composition that is invaluable for understanding the extent and effects of global climate change in the North Pacific. Information from NP CPR is made available in a timely manner and it supporting a growing legacy of scientific publications. NP CPR exemplifies the benefits derived from PICES' fostering of cooperation and communication among nations in North Pacific marine science.

Updates

Ms. Moira Galbraith (Canada) has replaced Dr. David Mackas, who has retired.

The Advisory Panel was honored to have Prof. Nicholas Owens, the Director of SAHFOS, attend the meeting. Dr. Owens also attended other parts of the PICES Annual Meeting. He presented information on CPR, including costs and applications, to the Science Board meeting (October 13) and the F&A Committee (October 16) meeting. Dr. Owens' efforts to stimulate interest in CPR and to otherwise encourage further involvement of the PICES community are greatly appreciated by the AP.

Report on CPR activities in 2012 – 2013

An overview of sampling in 2013 was presented by Dr. Batten at the subsequent MONITOR Committee meeting (October 16).

Overview of funding for CPR activities (Batten)

The current funding is reasonably secure, being supported by Canada (Department of Fisheries and Oceans, DFO), Japan (Japan Society for the Promotion of Science, JSPS), the United States (North Pacific Research Board, NPRB, and Exxon Valdez Oil Spill Trustee Council, EVOSTC) and the Sir Alister Hardy Foundation for Ocean Science (SAHFOS). Canadian funding from DFO is expected to continue at the same level through March 2014, when it is expected to be approved for renewal. Funding from Japan JSPS is secure up to FY2017, with the bulk of the anticipated funding being devoted to the personnel who do the analyses, rather than to collecting new observations. In the United States, the NPRB has invited the SAHFOS consortium to submit a proposal to its long-term monitoring request for proposals, RFP. Current NPRB funding is secure through mid-2014, and the timing of the long-term monitoring RFP makes possible continuation of support in the summer of 2014 without interruption. Additional funding from the U.S. is provided by the EVOSTC Gulf Watch program. Gulf Watch is committed to support CPR through 2016 with the possibility of renewal for an additional five years, dependent on performance. NOAA's National Marine Fisheries Service will continue to support NP CPR through its positions on the boards of directors of NPRB and EVOSTC.

Presentations at PICES-2013

- MONITOR Topic Session (S9) on *Cost-effective, cooperative ocean monitoring*: Sonia Batten (Invited), Ship of opportunity sampling of lower trophic levels
- MONITOR Topic Session (S9) on *Cost-effective, cooperative ocean monitoring*: Tomoko M. Yoshiki, Sanae Chiba, Tadafumi Ichikawa, Hiroya Sugisaki and Sonia Batten, P2: Geographical shift of warm water species distribution in western subarctic North Pacific based on CPR sample during 2001-2010
- BIO/POC/TCODE/MONITOR/FUTURE Topic Session (S6) on *Recent trends and future projections of North Pacific climate and ecosystems*: Sanae Chiba, Sonia Batten, Tomoko M. Yoshiki, Tadafumi Ichikawa and Hiroya Sugisaki, Climate induced variation in the basin scale zooplankton community structure in the North Pacific
- POC Topic Session (S4) on *The changing carbon cycle of North Pacific continental shelves and marginal seas*: Sonia Batten, Abigail McQuatters-Gollop and Dionysios Raitsos Exarchopoulos, Variability in lower trophic levels on the Alaskan Shelf (S4-8906)
- BIO Contributed Paper Session: Moira Galbraith and Sonia Batten, P5: Interannual variability in the abundance of *Pseudocalanus* spp.

AP-CPR Endnote 1

AP-CPR participation list

Members

Sonia Batten (SAHFOS)
Sanae Chiba (Japan)
Feiyan Du (China)
Moira Galbraith (Canada)
Hyung-Ku Kang (Korea)
Takashige Sugimoto (Japan)
Song Sun (China)
Anatoly F. Volkov (Russia)
Zhimeng Zhuang (China)

Observers

Catherine W. Boerner (USA)
Jennifer Boldt (Canada)
Alexander Bychkov (PICES)
Carrie Eischens (NPRB)
Abigail Enghirst (NPRB)
Hee-Dong Jeong (Korea)
Tony Koslow (USA)
Jan Newton (USA)
Nicholas Owens (SAHFOS)
Hiroya Sugisaki (Japan)
Ellen Tyler (AOOS)

AP-CPR Endnote 2

AP-CPR meeting agenda

1. Welcome and introductions (Mundy)
2. Additions and modifications to agenda
3. North Pacific CPR Consortium update and solicitation (Mundy and Batten)
4. Overview of CPR activities in 2012–2013 (Batten)
5. Update on Global Alliance of Continuous Plankton Recorder (CPR) Surveys (Chiba and Batten)
6. Reports and comments of national representatives and guests (All)
7. Receive suggestions for 2012–2013 CPR AP Annual Report (Mundy)
8. New business
9. Adjourn

Web links to explore

PICES AP-CPR

http://www.pices.int/members/advisory_panels/CPR.aspx

PICES CPR projects

<http://www.pices.int/projects/tcprsotnp/default.aspx/#data>

Global Alliance of CPR Surveys

<http://www.globalcpr.org/>

North Pacific CPR Survey

<http://www.globalcpr.org/about-gacs/north-pacific-cpr-survey.aspx>