

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) met from 18:00 to 19:00 h on October 15, 2011, in Khabarovsk, Russia. The meeting was chaired by Dr. Phillip R. Mundy and attended by the Chair of MONITOR, Dr. Hiroya Sugisaki. The list of participants and agenda are found in *CPR-AP Endnotes 1 and 2*.

AGENDA ITEM 3

Report on CPR activities in 2010–2011

Advice

The 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 CPR is made available in a timely manner and it is used to support a growing legacy of scientific publications. CPR exemplifies the benefits derived from PICES' fostering of cooperation and communication among nations in North Pacific marine science.

Sampling 2011

Sampling was conducted as planned with 3 east–west (VJ) transects and 5 north–south (AT) transects being completed, with a sixth AT transect producing useful data for only two thirds of its length. A new ship, *Morning Cedar*, took over the VJ route when the *Skaubryn* was sold after the 2010 sampling season. An analysis of the depth of tow on the VJ route during 2011 found that it was about the same as 2010 on the *Skaubryn*, indicating that the collection of CPR data should not be affected by the transition even though the *Morning Cedar* is slightly faster. A successful transition to new support personnel for the AT transect in Alaska was completed following the retirement of long-time CPR servicing volunteers, Bob and Scott Benda, at the end of the 2010 season.

Publications

- Batten, S.D. and Walne, A.W. 2011. Variability in northwards extension of warm water copepods in the NE Pacific. *Journal of Plankton Research*. doi: 10.1093/plankt/fbr065
- Bond, A.L., Jones, I.L., Williams, J.C. and Byrd, V. 2011. Diet of auklet chicks in the Aleutian Islands, Alaska: similarity among islands, interspecies overlap, and relationships to ocean climate. *Journal of Ornithology*. doi: 10.1007/s10336-011-0704-3. **NB: This is a significant achievement as the first paper to use Pacific CPR data without Batten as co-author.**
- Rooper, C.N., Boldt, J.L., Batten, S.D., and Gburski, C. (in review) Growth and production of Pacific ocean perch (*Sebastes alutus*) in nursery habitats of the Gulf of Alaska. *Fisheries Oceanography*.

Presentations at PICES-2011

- Science Board Symposium (S1) Mechanisms of marine ecosystem reorganization in the North Pacific Ocean - Chiba *et al.* *Phytoplankton phenology and community changes in the western subarctic North Pacific 2000–09 based on satellite and CPR observation.*
- (S4) Recent changes of North Pacific climate and marine ecosystems: Implications for dynamics of the dominant species - Yoshiki *et al.* *Interannual variability of zooplankton community structure based on Continuous Plankton Recorder in the western subarctic North Pacific during 2001–2009.*

AP-CPR-2011

Funding

Dr. Sonia Batten reported that funding from Canada, Japan, the United States is in place through the end of 2013 to 2016, and funding from the Sir Alister Hardy Foundation (SAHFOS) is in place through 2012. Details on funding outlooks are presented in national reports under Agenda Item 5.

AGENDA ITEM 4

Report from MONITOR Chair

Dr. Sugisaki attended the Global Alliance of Continuous Plankton Recorders Surveys (GACS) at SAHFOS in Plymouth, England, September 22–23, 2011 where he signed to support GACS on behalf of PICES. Following the GACS inauguration, Dr. Sugisaki attended the 80th anniversary celebratory scientific meeting of the CPR, Plankton 2011. AP-CPR participants, Drs. Chiba, Batten and Yoshiki also attended the meeting. Dr. Sugisaki reported that SAHFOS strongly supports Pacific CPR as one of its best examples of the global nature of the CPR network.

AGENDA ITEM 5

National CPR Reports

Canada

Dr. Batten reported on behalf of Dr. David Mackas who was unable to attend. Canadian funding was renewed through March 2014 at the same level as the previous year.

Japan

Dr. Sanae Chiba reported that funding from the Japan Society for the Promotion of Science (JSPS) is secure through 2013. She has an application in process that would extend funding through 2018. Dr. Chiba is presenting a paper in the 2011 Science Board Symposium (S1-7707) on changes in phenology and community structure on CPR results (see Agenda Item 3). Co-authors include three participants in the AP meeting (Sugisaki, Batten and Yoshiki) and two other authors. Dr. Tomoko Yoshiki will present a paper (S4-7803) later in the week on community structure in CPR samples 2001–2009. SAHFOS and JAMSTEC (Japan Agency for Marine-Earth Science and Technology) exchanged an official IA on CPR sample handling and data policy as for the Japanese contribution to the North Pacific CPR project, which will be effective up to FY2013.

Russia

Dr. Vladimir Radchenko reported on an atlas of historical biomass of common species of zooplankton from the western North Pacific and marginal seas that will be prepared at the end of this year and published in the first half of 2012. The structure of the atlas will be close to the four-volume “Atlas of quantitative nekton distribution” published in 2003–2006. The plankton database includes information from approximately 21,800 net stations conducted by TINRO-Center (Vladivostok) in the time period 1984–2010.

USA

The Exxon Valdez Oil Spill Trustee Council (Anchorage, USA) has committed support through 2016 with the possibility of renewal for an additional 5 years, dependent on performance. The North Pacific Research Board funding is secure through mid-2014.

Auke Bay Laboratories continues to pursue participation in processing of CPR samples and support of CPR transects on behalf of the Alaska Fisheries Science Center. NOAA’s National Marine Fisheries Service has invited a presentation to its Science Board in February 2012, which indicates continued interest at the national level in supporting CPR.

AGENDA ITEM 7

New Business

None presented.

CPR (North Pacific) web links

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

SAHFOS: <http://www.sahfos.ac.uk/sister-survey/pacific-cpr-survey/background.aspx>

AP-CPR Endnote 1

AP-CPR participation list

<u>Members</u>	<u>Observers</u>
Sonia D. Batten (Canada, SAHFOS)	Tsuneo Ono (Japan)
Sanae Chiba (Japan)	Hiroya Sugisaki (Japan, MONITOR Chair)
Phillip R. Mundy (USA, Chairman)	Tomoko Yoshiki (Japan)
Vladimir Radchenko (Russia)	

AP-CPR Endnote 2

AP-CPR meeting agenda

1. Welcome (Mundy)
2. Additions and modifications to agenda
3. Overview of CPR activities in 2010 – 2011 (Batten)
4. Report of Plymouth, UK meetings and GACS MOU (Sugisaki)
5. Reports and comments of national representatives
6. Receive suggestions for 2010 – 2011 CPR draft annual report (Mundy)
7. New business
8. Adjourn