

W3 FIS/MEQ Workshop

Comparative analysis of frameworks to develop an ecosystem-based approach to management and research needed for implementation

Co-Convenors: Glen Jamieson (Canada), Patricia Livingston (U.S.A.) and Chang-Ik Zhang (Korea)

An ecosystem-based approach to management (EBM) is an integrated approach to management of land, water, and living resources that promotes conservation and sustainable use over a broad range of human activities in an ecosystem. Implementation of an EBM for marine ecosystems in the North Pacific Ocean requires a number of steps and activities. An explicit framework that outlines the objectives, legal mandates, and institutional roles and responsibilities is essential. Data requirements and analytical tools need to be developed. This workshop invites papers to: 1) highlight existing national and international frameworks for implementation of an ecosystem approach to management; 2) outline the data requirements for such an approach; 3) describe the analytical tools being developed; 4) show the progress in communicating results of EBM activities; and 5) discuss outstanding research gaps for making progress. The workshop will be organized to allow time for keynote summaries of PICES Working Group 19 results, invited contributions from other PICES groups, insights by other organizations involved in providing integrated ecosystem advice, talks on governance issues and difficulties, socioeconomic issues, *etc.* During a discussion period, participants are welcome to advise the convenors on the desirability of publishing the results of the workshop in a leading primary scientific journal.

Friday, October 26, 2007 09:00 – 18:00

- 09:00 **Introduction by convenors**
- 09:10 **Keith Sainsbury (Invited)**
Sustainable use of marine ecosystems – The search for practical ways to support and implement ecosystem-based fisheries management and regional development (W3-4429)
- 10:00 **Jake Rice**
Ecosystem approaches to management – Where to start? (W3-4252)
- 10:30 **Coffee / tea break**
- 10:50 **David L. Fluharty**
Realizing ecosystem based management through integrated ecosystem assessment and regional collaboration in the United States (W3-4387)
- 11:15 **Glen S. Jamieson**
Integrated management in Canada's Pacific North Coast: Challenges in determining ecological objectives (W3-4040)
- 11:40 **R. Ian Perry, William R. Crawford and Alan F. Sinclair**
Comparative analysis of Canadian Pacific North Coast and Strait of Georgia marine ecosystems (W3-4202)
- 12:05 **Chang Ik Zhang, Suam Kim, Donald Gunderson, Jae Bong Lee, Inja Yeon, Hee Won Park and Jong Hee Lee**
Progress in the development of an ecosystem-based approach to assess and manage fisheries resources in Korea (W3-4425)
- 12:30 **Lunch**

- 14:00 **Mitsutaku Makino and Tatsu Kishida**
Ecosystem-based management in Japan: Its status and challenges (W3-4507)
- 14:25 **Vladimir I. Radchenko**
Ecosystem-based principles in the contemporary fisheries management on the Russian Far East (W3-4495)
- 14:50 **Jake Rice**
ICES frameworks and processes for science advice in an ecosystem approach (W3-4509)
- 15:15 **Xianshi Jin**
Implementation of ecosystem-based management in China
- 15:40 **Inja Yeon, H.J. Whang, M.H. Shon, Y.J. Im, J.G. Myoung and WWF YSEPP project partners**
Yellow Sea marine ecoregion for implementation of ecosystem-based management in marine capture fisheries (W3-4475)
- 16:00 *Coffee / tea break*
- 16:20 **John Stein**
Science plan for FISP
- 16:40 **Phil R. Mundy**
Data requirements for implementing an ecosystem approach to management from a PICES perspective (W3-4486)
- 17:00 **Bernard A. Megrey, Michio J. Kishi, Shin-ichi Ito, Kenneth A. Rose, Francisco E. Werner and members of the MODEL Task Team and the NEMURO Mafia**
Modeling multi-trophic level marine ecosystems using the NEMURO family of models: Climate change applications in the boreal North Pacific and scientific potential for ecosystem-based management (W3-4510)
- 17:20 *Discussion and summary*