

7TH CHINA-JAPAN-KOREA IMBER SYMPOSIUM

“Variability in biogeochemical cycles and ecosystem dynamics in the marginal seas of the Northwest Pacific”

24-26 March 2016, Jeju International Marine Research and Education Center,
KIOST, Jeju, Republic of Korea

Se-Jong Ju¹, Hiroaki Saito², Masao Ishii³, Yi Xu⁴ and Sinjae Yoo⁵

1. *Korea Institute of Ocean Science & Technology, Ansan, South Korea*
2. *The University of Tokyo, Tokyo, Japan*
3. *Meteorological Research Institute, Tsukuba, Japan*
4. *IMBER Regional Project Office, SKLEC, ECNU, China.*
5. *Jeju International Marine Research and Education Center, KIOST, Jeju, South Korea*

Marine scientists from China, Japan and Korea (CJK) gathered to discuss and exchange ideas on marine biogeochemistry and ecosystem dynamics at the CJK symposium series that began under the auspices of GLOBEC in 2002. Since GLOBEC ended in 2010, the symposia have continued under IMBER, focusing on the interrelationships between marine biogeochemical cycles and ecosystems, and the responses of marine systems to natural and anthropogenic forcings, especially in the Northwestern Pacific region. In the same vein, the 7th China-Japan-Korea IMBER Symposium focused on the impact of climate change and anthropogenic forcings on physical processes and biogeochemical cycles, ecosystem structure and functions, and fisheries in the marginal seas in the Northwestern Pacific region, and how, in turn, these complex interactions influence marine ecosystems and human society. More than 90 IMBER scientists from the three countries participated in the symposium (Fig. 1).

In addition to 31 oral presentations, 18 posters showing IMBER-related research achievements were presented during the symposium. Kwang-Soon Park, Vice President of KIOST, gave the welcome address and briefly introduced KIOST. Yi Xu, Deputy Executive Officer of the IMBER Regional Project Office in Shanghai, China, provided an overview of IMBER program with updates of IMBER Science Plan and Implementation Strategy (SPIS) and the status of IMBER's transfer from SCOR/IGBP to SCOR/Future Earth. This was followed by country reports on IMBER-related activities from China, Japan, and Korea.

The oral presentations in the scientific sessions were grouped into the following four sessions:

- Recent inter-annual/decadal trends in circulation and ecosystem dynamics (Chaired by Masao Ishii and Kitack Lee)
- Anthropogenic impacts (eutrophication, atmospheric deposition, overfishing, increased CO₂, etc.) on biogeochemical cycles and ecosystem dynamics. (Chaired by Chan Joo Jang and Joji Ishizaka)

- Impact of the Kuroshio Current on biogeochemical cycles and ecosystems of the marginal seas in the Northwest Pacific. (Chaired by Hiroaki Saito and Wonho Yih)
- Abnormal ecosystem phenomena. (Chaired by Suam Kim)

