

CREAMS/PICES International Workshop on  
Model/Data Inter-comparison for the Japan/East Sea

*August 21-22, 2006*

*Busan, Korea*

**PROGRAM**

## **August 21 (Monday), 2006**

08:30-09:00 **Registration**

09:00-09:10 **Welcoming Address**

*Prof. Kyung-Ryul Kim (Chair, SEES, Seoul National University)  
(Chair, CREAMS/PICES Advisory Panel)*

### **Session 1. Review of Observational Results (09:10 – 10:50)**

*Sok-Kuh Kang, Presiding*

09:10-09:50 Water dynamics and structure in the northern Japan/East Sea: Review of recent observations

*Vyacheslav Lobanov (invited)*

09:50-10:20 Hydrography and circulation in the Ulleung Basin between June 1999 and June 2001

*Kyung-Il Chang\*, Yun-Bae Kim, Young-Ho Kim, Hanna Na, and Kuh Kim*

10:20-10:50 On the low-frequency sea surface temperature variability of the East (Japan) Sea

*Sang-Wook Yeh\*, Young-Gyu Park, Hong Sik Min, and Cheol-Ho Kim*

Coffee Break (10:50-11:10)

### **Session 2. Modeling and Inter-comparison with Data (11:10 – 12:30)**

*Vyacheslav Lobanov, Presiding*

11:10-11:50 The ocean circulation of the Japan/East Sea – Its past and present

*Jong-Hwan Yoon (invited)*

11:50-12:30 Variability modes and typical patterns of wind stress and curl over the JES and their impact on the sea circulation

*Olga Trusenkova\*, Vyacheslav Lobanov, Aleksandr Nikitin, and Dmitry Kaplunenko (invited)*

Lunch break (12:30-13:30)

## **Session 2. Modeling and Inter-comparison with Data (13:30 – 15:10)**

*Jong-Hwan Yoon, Presiding*

- 13:30-14:10 US Navy Modeling efforts and model-data comparisons in the Japan/East Sea  
*Patrick Hogan\**, *Harley Hurlburt*, *William Teague*, and *Gregg Jacob (invited)*
- 14:10-14:50 JES model-data comparisons during CREAMS II  
*Christopher Mooers\**, *Inkweon Bang*, and *Hee-Sook Kang (invited)*

Coffee Break (14:50-15:10)

## **Session 2. Modeling and Inter-comparison with Data (15:10 – 16:30)**

*Kyung-Il Chang, Presiding*

- 15:10-15:50 Comparison between a reanalyzed product by the 3D-Var technique and observations in Ulleung Basin of the East/Japan Sea (from 1999 to 2001)  
*Young Ho Kim\**, *Jong-Jin Park*, *Seon-Ki Park*, *Sang-Hyun Lee*,  
*Young-Gyu Kim*, *Hyoung-Rok Kim*, *Kuh Kim*, and *D. Randolph Watts*
- 15:50-16:30 Numerical modeling of internal tide generation in the East/Japan Sea  
*Sok Kuh Kang\**, *J.Y. Cherniawsky*, *M.G.G. Foreman*, *Jae Hak Lee*,  
*Moon Sik Suk*, *Jae-Kwi So*, *Hyoun-Woo Kang*, and *Chan Joo Jang*

## **Session 3. Operational Nowcast/Forecast System (16:30 – 17:30)**

*Kyung-Il Chang, Presiding*

- 16:30-17:10 The Japan/East Sea operational forecasting system of RIAM, Kyushu University  
*Sergey M. Varlamov\**, *Naoki Hirose*, and *Jong-Hwan Yoon (invited)*
- 17:10-17:30 An evaluation of US Navy Ocean Monitoring and Prediction systems in the Asian Seas  
*Patrick Hogan*, *Shelly Riedlinger*, *Jay Shriver*, and *Ole Martin Smedstad (invited)*

## **Welcoming Reception (18:30 – 20:30)**

Hosted by Korea Ocean Research and Development Institute

## **August 22 (Tuesday), 2006**

### **Session 3. Operational Nowcast/Forecast System (09:00 – 10:20)**

*Christopher Mooers, Presiding*

09:00-09:40 Verification of the predictability of JCOPE ocean forecast system and its improvements.

*Shin-ichi Ito\**, *Tatsuro Watanabe*, *Daisuke Shimizu*, *Shigeho. Kakehi*, *Yasumasa Miyazawa*, *Kosei Komatsu*, *Takashi Setou*, *Manabu Shimizu*, *Akira Kusaka*, and *Kazuyuki Uehara (invited)*

09:40-10:20 Forecasting of oceanic meso-scale variability in Northwestern Pacific using high-resolution 4D-VAR assimilation system.

*Yoichi Ishikawa\**, *Takahiro Toyoda*, *Toshiyuki Awaji*, *Teji. In*, *Tomoharu Nakayama*, and *Shigeki Shima (invited)*

Coffee Break (10:20-10:40)

### **Session 4. Ecosystem Modeling in North Pacific Regions (10:40 – 12:00)**

*Shin-ichi Ito, Presiding*

10:40-11:20 The impact of Pacific climate forcing on marine ecosystems

*Fei Chai (invited)*

11:20-12:00 Ecosystem modeling in North Pacific Regions – NEMURO and its application

*Michio Kishi (invited)*

Group Photos and Lunch Break (12:00-13:30)

### **Session 4. Ecosystem Modeling in North Pacific Regions (13:30 – 14:30)**

*Fei Chai, Presiding*

13:30-14:00 3-D ecosystem model of the southern Yellow Sea

*Xuehai Liu\**, *Xiaoyan Lei*, *Fangli Qiao*, and *Yeli Yuan*

14:00-14:30 Modelling studies investigating the mechanisms causing high silicic acid to nitrate uptake during SERIES: an iron-fertilization experiment in the subarctic Pacific

*Naoki Yoshie\**, *Shigenobu Takeda*, *Philip W. Boyd*, and *Yasuhiro Yamanaka*

Coffee Break (14:30-14:50)

**Poster Session (14:50 – 16:20), \* Display only**

P-1: Coupled physical-ecosystem model in the Japan/East Sea

*Goh Onitsuka\**, *Tetsuo Yanagi*, and *Jong-Hwan Yoon*

P-2: Comparison of seasonal characteristics in biogeochemistry among the subarctic North Pacific stations described with a NEMURO-based marine ecosystem model

*Masahiko Fujii\**, *Yasuhiro Yamanaka*, *Yukihiro Nojiri*, *Michio J. Kishi*, and *Fei Chai*

P-3: Application of web-based technologies to assess mesoscale eddy characteristics in the Japan/East Sea

*Dmitry Kaplunenko\**, *Vyacheslav Lobanov*, *Olga Trusenkova*, and *Svetlana Ladychenko*

P-4: The longer-term variability in the water mass formation in the Japan/East Sea

*Svetlana Taranova\** and *Igor Zhabin*

P-5: Low-frequency deep water variability in the southwestern East/Japan Sea

*Yun-Bae Kim\**, *Kyung-Il Chang*, *Jae-Hun Park*, *Jong-Jin Park*, *D. Randolph Watts*, and *Jae Chul Lee*

P-6: Variability of the mixed layer depth in the North Pacific simulated from a global ocean general circulation model

*Chan Joo Jang*

**Panel discussion (16:20-18:00)**

Circulation and Ecosystem Modeling and Forecast in the JES – Its future

*Panel Moderator: Christopher Mooers*

*Panelists: Jong-Hwan Yoon, Michio Kishi, Olga Trusenkova, Fei Chai, Patrick Hogan, Sok-Kuh Kang*