

International Workshop on Modeling the Ocean, ECSB 1202, **PROGRAM:**

Monday, 24-May, 2010

Session 2 (Outstanding Young Scientist Award presentations), Chair: Huijie Xue

8:00 - 9:00 Registration

9:00 - 9:30 Welcome: C. Simpson, Provost, ODU;
R. Zimmerman, Chair, OEAS;
J. Klinck, Director, CCPO;
J. Sokolowski, Director, VMASC

9:30 - 9:40 Welcome and logistics: Tal Ezer

Session 1 (wave/mixing/sediment) Chair: L.-Y. Oey

9:40 - 10:00 **George Mellor**, *Wave Radiation Stress*

10:00 – 10:20 **Hitoshi Tamura**, L.-Y. Oey, and Y. Miyazawa, *Coupled wave-current interaction*

10:20 – 10:40 **Coffee Break**

10:40 – 11:00 **Li-Feng Lu**, Yasumasa Miyazawa, Hitoshi Tamura, and Kazuo Nadaoka, *An application of POM to wave-current interaction study around the Yaeyama Islands, Japan*

11:00 – 11:20 **Hendra Achiari**, Mauludin DY Sutanto, Ahmad Safii, and Jun Sasaki, *Application of hydrodynamic-sediment model for wave and cohesive sediment in Ciasem Estuarine Indonesia*

11:20 – 11:40 **Robin Robertson**, *Vertical tidal mixing in ROMS: A reality check*

11:40 – 12:00 **Xiao Hua Wang**, Fangli Qiao, Jing Lu, and Fang Gong, *The Turbidity Maxima of the Northern Jiangsu Shoal-Water in the Yellow Sea, China*

12:00 – 13:30 **Lunch (catering at the ECSB)**

*Please fill in the evaluation forms and hand them to Tal Ezer at the end of the session

1:30 – 1:50 (1) **Yu-Lin Eda Chang** and Lie-Yauw Oey, *Why can wind delay the shedding of Loop Current eddies?*

1:50 – 2:10 (2) **Ayumi Fujisaki** and Lie-Yauw Oey, *Formation of ice bands by wind*

2:10 – 2:30 (3) **Nickitas Georgas**, *NYHOPS v3: A new, high-fidelity, general, robust, automated, operational forecast model applied to the NY/NJ Harbor Estuary and its surroundings.*

2:30 – 2:50 (4) **Donghui Jiang**, Xiao Hua Wang, and Les J. Hamilton, *On the upwelling events along the Coast of Jervis Bay, New South Wales, Australia*

2:50 – 3:10 (5) **Mahmoud Kamel**, *The effect of an offshore wind turbine array on circulation in an idealized Virginia coastal ocean*

3:10 – 3:30: **Coffee Break**

3:30 – 3:50 (6) **Suriyan Saramul** and Tal Ezer, *Tidal-driven dynamics and mixing processes in a coastal ocean model with wetting and drying*

3:50 – 4:10 (7) **Yongjin Xiao**, Marjoerie Friedrichs, Katja Fennel, Kimberly Hyde, John O'Reilly, *A model study of phytoplankton phenology on the northeast U.S. continental shelf*

4:10 – 4:30 (8) **Fanghua Xu** and Lie-Yauw Oey, *The origin of along-shelf pressure gradient in the Middle Atlantic Bight*

4:30 – 4:50 (9) **Xunqiang Yin**, Fangli Qiao, Yongzeng Yang, and Changshui Xia, *Ensemble adjustment Kalman filter study for Argo data*

5:30 – 7:00 Reception at the **Center for Coastal Physical Oceanography (CCPO)**, Research Building #1, 3rd Floor, 4111 Monarch Way & 41st St.

Tuesday, 25-May, 2010

Session 3 (model development/testing)

Chair: Tal Ezer

- 8:30 – 8:50 **Helge Avlesen** and J. Berntsen, *Non-hydrostatic simulation of small scale eddies behind tidal inlet headlands*
- 8:50 – 9:10 B. K. Galton-Fenzi, **Michael Dinniman**, J. Hunter, *The pressure gradient force at the front of ice shelves in sigma-coordinate ocean models*
- 9:10 – 11:30 **Liang Kuang** and Alan F. Blumberg, *Assessing the vertical solution algorithm in ECOM/POM*
- 9:30 – 9:50 **Ayumi Fujisaki** and L.-Y. Oey, *The MPI-PROFS*
- 9:50 – 10:10 **Ricardo Da Silva**, A. Torres Jr, and L. Landau, *Princeton Ocean Model and PSU/NCAR mesoscale model: Computational coupling strategy and application to southwest Atlantic basin*

10:10 – 10:30 [Coffee Break](#)

Session 4 (data analysis/assim./diagnosis)

Chair: C.-R. Wu

- 10:30 – 10:50 Antoni Jordi and **Dong-Ping Wang**, *Application of the ensemble Kalman filter for satellite altimetry data assimilation in the Mediterranean Sea*
- 10:50 – 11:10 **Hidenori Aiki** and Kelvin J. Richards, *Maintenance of the mean kinetic energy in the global ocean by the barotropic and baroclinic energy routes*
- 11:10 – 11:30 **Yasumasa Miyazawa**, Xinyu Guo, RuoChao Zhang, Sergey M. Varlamov, Tomowo Watanabe, Takashi Setou, Daisuke Ambe, *Roles of the in-situ observations in the detection of the Kuroshio frontal variability south of Japan*
- 11:30 – 11:50 **Hua Liu** and Tal Ezer, *Integrating inundation models, Landsat satellite imagery, and GIS to assess tidal movements in Cook Inlet, Alaska*

12:00 – 1:30 [Lunch \(catering at the ECSB\)](#)

Session 5 (process studies/modeling)

Chair: Xiao Hua Wang

- 1:30 – 1:50 **Vlado Malačić** and B. Petelin, *Circulation in widely open bays in northern Adriatic*
- 1:50 – 2:10 **Tal Ezer** and Lie-Yauw Oey, *Numerical simulations reveal the role of the Alaskan Stream in modulating the Bering Sea climate*
- 2:10 – 2:30 **Dong-Ping Wang**, *Surface frontogenesis and thermohaline intrusion in a shelfbreak front*
- 2:30 – 2:50 **Guillaume Martinat**, Ying Xu, Chester E Grosch, and Andres Tejada Martinez, *LES of turbulent shear flow and pressure driven flow on shallow continental shelves*
- 2:50 – 3:10 **Y.-L. Eda Chang** and L.-Y Oey, *Loop Current Cycle: coupled response of Loop Current with deep flows*

3:10 – 3:30 [Coffee Break](#)

Session 6 (regional modeling)

Chair: Y. Miyazawa

- 3:30 – 3:50 **Jingping Gan**, *Modeling China Sea Circulation*
- 3:50 – 4:10 **Changshui Xia**, Fangli Qiao, Fredolin Tangang, Liew Juneng, *Simulation of the circulation in the Malaysian Peninsula East Continental Shelf*
- 4:10 – 4:30 **Chau-Ron Wu**, Lie-Yauw Oey and Tzu-Ling Chiang, *Modulation of the South China Sea Circulation through the Kuroshio*
- 4:30 – 4:50 **Chao Ma**, Jiayan Yang, Dexing Wu, *On the mechanism of seasonal variation of the Tsushima Warm Current*
- 6:30 – 8:30 [Dinner at the "Pagoda", 265 W. Tazewell St., Downtown Norfolk. \(Transportation will be provided from the SpringHill Hotel, 6:00pm\).](#)

Wednesday, 26-May, 2010

Session 7 (bio-physical/nested models/forecast systems)

Chair: Dong-Ping Wang

- 8:30 – 8:50 **Huijie Xue**, Stephen Cousins, Lewis Incze, Richard Whale, and Andrew Thomas, *A coupled bio-physical model study of connectivity of lobster populations in the Gulf of Maine*
- 8:50 – 9:10 **Wen Long**, Jerry W. Wiggert, Jiangtao Xu, Lyon Lanerolle, Bala K. P. Prasad, Raghu Murtugudde, Christopher Brown, Raleigh Hood, *The development of a Chesapeake Bay physical-biogeochemical modeling system (ChesROMS) for hindcast, nowcast and forecast: Achievements, challenges and outlooks*
- 9:10 – 9:30 **Guan-Yu Chen**, Rei-Chun Wu, Jia-Jang Hung, Yuh-ling Lee Chen, Yu-Hwui Wang, *Internal solitary wave and the nutrient transport in Dongsha Atoll*
- 9:30 – 9:50 **Tommy Jensen**, Paul Martin, Clarke Rowley, Tim Campbell, Richard Allard, Travis Smith and Justin Small, *Recent Developments in the Navy Coastal Ocean Model and its Application as the Ocean Component in Regional Coupled Forecast Models*
- 9:50 – 10:10 **Sergey M. Varlamov**, Yasumasa Miyazawa, and Xinyu Guo, *Regional nested tide-resolving real-time modeling system for Pacific coastal waters southeast off Japan (JCOPE-T)*
- 10:10 – 10:30 **Coffee Break**
- 10:30 – 10:50 **Guansuo Wang**, Fangli Qiao, Changshui Xia, and Yongzeng Yang, *Operational marine environment forecast system in the seas off China*
- 10:50 – 11:10 F.H. Xu, Y.-L. Chang, Z.-B. Sun, **L.-Y. Oey**, J. Blanco, T. Ezer, L. Atkinson and D.-P. Wang, *A hindcast model of the Mid-Atlantic ocean region*
- 11:10 – 11:30 **Y.-L. Chang** and L.-Y. Oey, *The BP oil spill of 2010*
- 12:00 – 1:30 **Lunch (catering at the ECSB)**
- 1:30 – 3:00 **Open Discussion:**
1. Location of IWMO-2011
 2. Publication of special issue
 3. Other topics
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