

A world map with continents in black and oceans in various colors (blue, green, yellow, orange, red, purple).

3rd OFES International Workshop

November 4–5, 2010

Miyoshi Memorial Auditorium

JAMSTEC Yokohama Institute for Earth Sciences
Yokohama, JAPAN

Abstracts

Organizers

Earth Simulator Center (ESC), JAMSTEC

Research Institute for Global Change (RIGC), JAMSTEC

Application Laboratory on Climate Variation Studies (APL), JAMSTEC

International Pacific Research Center (IPRC), University of Hawaii

Conveners

Hideharu Sasaki (ESC, JAMSTEC)

Kevin Hamilton (IPRC, Univ. of Hawaii)

Yukio Masumoto (RIGC, JAMSTEC)

Wataru Ohfuchi (ESC, JAMSTEC)

Workshop Schedule

Thursday November 4

9:30–10:00

Registration

Opening Session

Chair: Yukio Masumoto

10:00–10:10

Opening Address

Shiro Imawaki (JAMSTEC)

10:10–11:00

Keynote presentation 1

David Webb (National Oceanography Centre, Southampton)

Development and research with the FRAM and OCCAM ocean models

11:00–11:50

Keynote presentation 2

Lie-Yauw Oey (Princeton University)

Regional Ocean Modeling and Processes

11:50–13:00

Lunch Break

13:00–13:20

Photo Session

Session 1: Mid-latitude Ocean

Chair: Shinichiro Kida

13:20–13:40

Bo Qiu (University of Hawaii)

Decadal predictions of the dynamic state of the Kuroshio Extension system

13:40–14:00

Masami Nonaka (RIGC, JAMSTEC)

Internal variability of the Kuroshio Extension Current in OFES North Pacific regional model: a preliminary result

14:00–14:20

Magdalena Andres (Woods Hole Oceanographic Institution)

The barotropic response of the Kuroshio to wind-forcing: observations and OFES data

14:20–14:40

Jiangu Hu (Xiamen University)

Comparison between OFES results and in situ observations near the Luzon Strait

Chair: Francois Ascani

14:40–15:00

Yu-Lin Eda Chang (Princeton University, National Taiwan Normal Univ.)

Tide-gauge data off the northeastern coast of Taiwan

15:00–15:20

Yan Du (South China Sea Institute of Oceanology, CAS)

Pathways of mesoscale variability in the South China Sea

15:20–15:40

Tea Break

15:40–16:00

Yoshi N. Sasaki (IPRC, University of Hawaii)

Propagation of decadal spiciness anomalies in the North Pacific

16:00–16:20

Miho Ishizu

Oxygen-nitrate relationship of water masses in the Kuroshio Extension, the Oyashio and the mixed water region

Chair: Akio Ishida

16:20–16:40

Tomoki Tozuka (The University of Tokyo)

Indian Ocean Subtropical Dipole Mode and its influence on the Agulhas Current

16:40–17:00

Tangdong Qu (IPRC)

Formation and variability of North Atlantic sea surface salinity maximum in global OGCMs

17:00–17:20

Ali Belmadani (IPRC)

Impact of intraseasonal equatorial Kelvin waves on eddy activity in an eddy-resolving model of the Humboldt system

17:20–17:40

Yoshikazu Sasai (RIGC, JAMSTEC)

Formation and spreading of SAMW and AAIW using OFES

18:00–20:00

Reception (Guest house)

Friday November 5

Session 2: Tropical Ocean

Chair: Masami Nonaka

9:30–9:50

Yukio Masumoto (RIGC, JAMSTEC)

Simulated oceanic evolutions associated with the 2006 Indian Ocean Dipole event

9:50–10:10

P. N. Vinayachandran (Indian Institute of Science)

Modeling intraseasonal variations in the Bay of Bengal

10:10–10:30

Iskhaq Iskandar (PMEL, NOAA)

Coherent oceanic intraseasonal variations in the eastern equatorial Indian Ocean and in the Lombok and Ombai Straits

10:30–10:50

Shinichiro Kida (ESC, JAMSTEC)

The impact of the Indonesian Throughflow and tidal mixing on the SST over the Indonesian Seas

10:50–11:10

Tea Break

Session 3: Coupled Ocean-Atmosphere Processes

Chair: Tandong Qu

11:10–11:30

Niklas Schneider (IPRC)

The impact of SST on the atmospheric Ekman layer and Ekman pumping

11:30–11:50

H. Annamalai (IPRC)

Role of local air-sea interaction on the south Asian monsoon in a changing climate

11:50–12:10

Nobumasa Komori (ESC, JAMSTEC)

“Coupling coefficients” around the mid-latitude SST fronts in a coupled atmosphere–ocean and a stand-alone atmospheric GCMs

12:10–12:30

Bunmei Taguchi (ESC, JAMSTEC)

Deep oceanic zonal jets driven by fine-scale wind stress curls in a high-resolution coupled GCM

12:30–13:40

Lunch Break

Session 4: Ocean dynamics

Chair: Bo Qiu

13:40–14:00

Bach Lien Hua (IFREMER)

Layering and stratified turbulence surrounding an anticyclonic eddy: geoseismic observations and numerical simulations

14:00–14:20

Jin-Song von Storch (Max-Planck-Institute for Meteorology)

Internal gravity waves simulated by 1/10 degree OGCMs

14:20–14:40

Hidenori Aiki (RIGC, JAMSTEC)

The combined pressure and potential energy flux in the global ocean

14:40–15:00

Tea Break

Chair: Kelvin Richards

15:00–15:20

Patrice Klein (IFREMER)

Impact of submesoscales on the large-scale oceanic circulation from high-resolution simulations

15:20–15:40

Hideharu Sasaki (ESC, JAMSTEC)

Preliminary results from a 1/30 degree North Pacific simulation

15:40–16:00

Francois Ascani (University of Hawaii, IPRC)

Contribution of the surface, barotropic and baroclinic modes in the North Pacific using the 1/10th and 1/30th-degree OFES simulations

Session 5: Discussion

Chair Hideharu Sasaki

16:00–17:00

Discussion

17:00 Adjourn