

Tuesday December 3rd, 2013

9:00-10:00: Registration and Coffee

10:00-10:10: Opening Remarks, Practical Information

Keynote Presentation

Chair: Kevin Hamilton

10:10-11:10: Hisashi Nakamura (University of Tokyo)

Multi-Scale Impacts of the Western boundary Currents and Associated Frontal Zones on the Atmosphere

Role of Oceanic Front on Air-Sea Interactions: Part-I

Chair: Nobumasa Komori

11:10-11:35: Niklas Schneider (IPRC)

Air-Sea Interaction at Weak Fronts of Sea Surface Temperature

11:35-12:00: Kohei Takatama (IPRC)

Atmospheric Response to Surface Stress Induced by the Kuroshio Current in the East China Sea

LUNCH BREAK

Role of Oceanic Front on Air-Sea Interactions: Part-II

Chair: Toru Miyama

13:15-13:40: **Hiroaki Tatebe** (RIGC)

Roles of the Oceanic SST Fronts on the Atmosphere Represented by MIROC5 Coupled with a Nested Regional Ocean Model in the Kuroshio-Oyashio Confluence Zone

13:40-14:05: Bunmei Taguchi (ESC)

Response of Atmosphere-Ocean System to Latitudinal Shifts of the North Pacific Subarctic Frontal Zone: A Coupled GCM Experiment

14:05-14:30: Akira Kuwano-Yoshida (ESC)

Rapid Cyclogenesis over Midlatitude SST Fronts

Ocean Dynamics: Part-I

Chair: Kelvin Richards

14:30-14:55: **Bo Qiu** (UH)

Generation of the North Equatorial Undercurrent Jets by Triad Baroclinic Rossby Wave Interactions

14:55-15:20: Oleg Melnichenko (IPRC)

Multiple, Migrating Quasi-Zonal Jets in the Eastern North Pacific: A Look beneath the Surface

COFFEE BREAK

Ocean Dynamics: Part-II

Chair: Yukio Masumoto

15:40-16:05: Masami Nonaka (RIGC)

Subsurface Temperature Structure Change in Association with Negative Pacific Decadal Oscillation since the Late 2000s

16:05-16:30: Tangdong Qu (IPRC)

Subthermocline Eddies in the Western Equatorial Pacific as Shown by OFES

16:30-16:55: Ryo Furue (IPRC)

Dynamics of the Leeuwin Current in an Inviscid, Variable-Density, Layer Model (with Additional Application to the Atlantic Meridional Overturning Circulation)

16:55-17:20: Motoki Nagura (RIGC)

Meridional Heat Advection Due to Mixed Rossby Gravity Waves in the Equatorial Indian Ocean

Wednesday December 4th

Climate System and Variations

Chair: Motoki Nagura

9:30-9:55: Swadhin Behera (RIGC)

New Frontiers in Climate Variability and Predictability Studies

9:55-10:20: Hariharasubramanian Annamalai (IPRC)

CFES – A Laboratory Research Tool for Monsoon-Indian Ocean Climate Systems

10:20-10:45: **Kelvin J. Richards** (IPRC)

Intraseasonal to Interannual Variability of the Upper Ocean in the Southern Indian Ocean

10:45-11:10: Takuya Hasegawa (RIGC)

Relationship between New Guinea Coastal Upwelling and Different Type of El Niño in a Global Ocean-Atmosphere Coupled Model

COFFEE BREAK

Development of CGCM and Assimilation

Chair: Oleg Melnichenko

11:30-11:55: Toru Miyama (RIGC)

Development of the New Version of the IPRC Regional Ocean-Atmosphere Coupled Model (IROAM)

11:55-12:20: Nobumasa Komori (ESC):

Development of an Ensemble-Based Data Assimilation System with a Coupled Atmosphere-Ocean GCM

12:20-12:30: Photo Session

LUNCH BREAK

Atmospheric Modeling

Chair: Akira Kuwano-Yoshida

13:45-14:10: **Kevin Hamilton** (IPRC)

Modeling Interannual Variations in Stratospheric Water Vapor

14:10-14:35: **Tomoe Nasuno** (RIGC)

Overview of NICAM Development and Simulation Results

14:35-15:00: Wataru Ohfuchi (ESC)

Variation of Hadley Circulation and Midlatitude Jet Strengths in Aqua Planet Experiment

15:00-15:25: Akira Yamazaki (ESC)

The Impact of Radiosonde Data over the Arctic Ocean on the Arctic Cyclone of August 2012

COFFEE BREAK

High-Resolution OGCM and Visualization

Chair: Masami Nonaka

15:45-16:10: Hideharu Sasaki (ESC)

Seasonality of Submesoscale Activity around the Kuroshio Extension in the 1/30° North Pacific OFES

16:10-16:35: Yoshikazu Sasai (RIGC)

Impacts of Submesoscale Dynamics on the Phytoplankton Field in the Kuroshio Extension

16:35-17:00: Yumi Yamashita (ESC)

Visualization of Ocean Vortices and Streams Separated with Boundaries

Closing Remarks