

## The 11th IPRC Annual Symposium

Imin Conference Center, East-West Center

September 7, 2011

### Session 1 – 9:00 am to 12:00 pm

(Session chairs: Kazuyoshi Kikuchi, Axel Lauer, Hiroki Tokinaga)

#### *Wailana Room*

8:30-9:00 am Coffee

#### *Asia Room*

9:00-9:10 am Opening and welcome from the IPRC Director

9:10-9:50 am Introductory talks 1 (2-minute presentations)

1. Zuojun Yu: *Oxygen Minimum Zones in the Northern Indian Ocean: Take III*
2. Ryo Furue, Jay McCreary, Jessica Benthuisen, Helen Phillips and Nathan Bindoff: *Density-driven flow along an eastern-boundary continental margin in an inviscid, variable-density layer model*
3. Tomomichi Ogata: *Interdecadal ENSO amplitude modulation and its relationship with the tropical Pacific decadal variability*
4. Hiroshi Taniguchi: *Global statistics of MJO and its relationship to tropical cyclone in Athena project*
5. Nikolai Maximenko and Jan Hafner: *Ocean surface currents and circulation of marine debris*
6. Koki Iwao: *Recent changes in winter bomb-cyclones over the northwestern Pacific*
7. Ali Reda Bel Madani: *Wind-induced baroclinic beta-plumes: Application to the Hawaiian Lee Counter-Current*
8. Dong-Hyun Cha: *Real-time Forecasts of Tropical Cyclones over the Western North Pacific*
9. Yu Kosaka: *The Pacific-Japan pattern as an atmospheric internal mode and influence of ENSO*
10. Malte Heinemann: *Driving glacial cycles: sensitivity experiments with LOVECLIM and IcIES*
11. Matthew Widlansky: *The South Pacific Convergence Zone: Dynamics, model biases, and climate projections*
12. Bing Fu: *Predicting Tropical Cyclone Genesis in the Western North Pacific*
13. Jinbao Li: *Interdecadal modulation of El Nino amplitude during the past millennium*
14. Audine Laurian: *Marine biogeochemical response and carbon cycle changes due to volcanic eruptions during the last two millennia: a special focus on the 1258 AD event*
15. Pallav Ray: *On the relative roles of circumnavigating waves and extratropics on the Madden-Julian Oscillation (MJO)*

#### *Wailana Room*

10:00-12:00 Poster session 1 (refreshments provided)

12:00-1:00 pm Lunch break

## Session 2 – 1:00 to 3:15 pm

(Session chairs: Oliver Elison Timm, Andrei Natarov)

### Asia Room

1:00-1:30 pm Introductory talks 2 (2-minute presentations)

1. Kazuyoshi Kikuchi: *An introduction to zonal wavenumber-wavelet transform*
2. Axel Lauer: *Taking into account the subgrid scale variability of clouds - A new parameterization of precipitation formation in climate models*
3. Hiroki Tokinaga: *Tropical patterns of climate change observed over the past six decades*
4. Pang-chi Hsu: *Role of the Boundary Layer Moisture Asymmetry in Causing the Eastward Propagation of the Madden-Julian Oscillation*
5. Chunxi Zhang: *The settings and evaluation of Hawaiian Regional Climate Model (HRCM)*
6. Yanping Li: *Offshore propagation of precipitation in the tropics*
7. Prasanna Venkatraman: *Land-atmosphere feedbacks on monsoon breaks - Preliminary results*
8. Xiouhua Fu: *Intraseasonal Predictability of Asian Summer Monsoon*
9. Oleg Melnichenko, N. Maximenko and H. Sasaki: *A case study of multiple migrating zonal jets in the eastern North Pacific*
10. Prasamsa Singh: *Extreme rainfall events over monsoon regions*

### Wailana Room

1:45-3:15 pm Poster session 2 (refreshments provided)

## Session 3 – 3:30 to 6:00 pm

(Session chairs: Ryo Furue, Oleg Melnichenko)

### Asia Room

3:30-4:00 pm Introductory talks 3 (2-minute presentations)

1. Tobias Friedrich, Axel Timmermann, et al.: *Detecting regional trends in ocean acidification against the background of natural variability*
2. Miho Ishizu: *The oxygen-nitrate relationship in the world ocean*
3. Lu Wang: *Intraseasonal SST Variability and Air-Sea Interaction over Kuroshio Extension Region during Boreal Summer*
4. Neven Fuckar: *Elements of the tropical-extratropical and interhemispheric interaction in an idealized coupled climate model*
5. Oliver Elison Timm: *Modeling Glacial Inception and Glacial Termination Processes during the last 126,000 years with an Earth System Model of Intermediate Complexity*
6. Andrei Natarov, Kelvin Richards and Yuji Kashino: *The roles of wind and stratification in setting levels of thermocline mixing in the Western Equatorial Pacific*

7. Fei Liu: *Critical role of the planetary boundary layer in sustaining the Madden-Julian oscillation skeleton*
8. June-Yi Lee, Bin Wang and CliPAS ISO Team: *Development of Monsoon ISO Diagnostics and Evaluation Metrics: Application to the CliPAS ISO Hindcast Experiment*
9. Ja-Yeon Moon, Bin Wang and Kyung-Ja Ha: *MJO Modulation on 2009/10 Winter Snowstorms in the United States*
10. Nat Johnson: *The impact of the MJO and ENSO on wintertime weather regime frequency over the Pacific/North America region.*
11. Yamei Xu: *On the sensitivity of a mature tropical cyclone to the vertical profile of wind shear*
12. Yoo-Bin Yhang: *Future climate simulation over East Asia using IPRC RegCM*

*Wailana Room*

4:15-6:00 pm Poster session 3 (refreshments and pupus provided)

**Organizing committee:**

Oliver Elison Timm, Ryo Furue, Kazuyoshi Kikuchi, Axel Lauer, June-Yi Lee, Oleg Melnichenko, Andrei Natarov, Hiroki Tokinaga