

# Takio Murakami Memorial Symposium on Tropical Meteorology and Monsoon

July 2-3, 2014  
Asia Room  
East West Center  
Honolulu, HI

## Wednesday, July 2

### Registration

8:30- 9:00 Asia Room, Jefferson Hall

### Opening Ceremony

Chair: Johnson, H. Richard

9:00- 9:40 Schroeder, Thomas (University of Hawaii)  
Matsumoto, Jun (Japan Agency for Marine-Earth Science and  
Technology, Tokyo Metropolitan University, Japan)  
Krishnamurti, T.N. (Florida State University)  
Shrestha, L. Madan (Nepal Academy of Science and Technology)  
Sikka, D. R. (Former Director, IITM, India)

### Observational Projects

Chair: Nakazawa, Tetsuo

9:40- 10:10 Sumi, Akimasa (National Institute of Environmental Studies, Japan):  
Impacts of W-MONEX in the Monsoon study —A memory of Prof.  
Takio Murakami in the Asia Monsoon Study—  
10:10-10:40 Johnson, H. Richard (Colorado State University): New insights on the  
MJO from DYNAMO  
10:40-11:00 Bell, M. Michael (University of Hawaii): Observations of tropical  
convection during HERO (2013)

### Group Photo & Coffee Break

### Monsoon Dynamics

Chair: Wang, Bin

11:25-11:55 Krishnamurti, T.N. (Florida State University): Heavy rains in an extreme  
monsoon rain event and the history of Buoyancy fields.

- 11:55-12:20 Kawamura, Ryuichi (Kyushu University, Japan): Large-scale water vapor transport by a Rossby wave response to typhoon forcing at the mature stage of the Baiu/Meiyu season
- 12:20-12:40 Rao, D. Nagarjuna (Indian Institute of Tropical Meteorology, India): Changing relationship between the tropical easterly jet and the Indian summer monsoon rainfall: Role of Indian Ocean warming
- 12:40-13:00 Annamalai, H. (University of Hawaii): Moist static energy diagnostics for monsoon research

### **Lunch Break**

#### **Regional Monsoon Aspects (section 1)**      Chair: Ueda, Hiroaki

- 14:30-15:00 Ding, Yihui (Chinese Meteorological Administration, China): Long-term variation of heat sources over the Tibetan Plateau
- 15:00-15:25 Shrestha, L. Madan (Nepal Academy of Science and Technology): Monsoon over Nepal and its challenges
- 15:25-15:45 Fujinami, Hatsuki (Nagoya University, Japan): Dynamics of distinct intraseasonal oscillation in summer monsoon rainfall over the Meghalaya-Bangladesh-western Myanmar region
- 15:45-16:05 Lin, Zhongda (Institute of Atmospheric Physics, Chinese Academy of Sciences): Interannual characteristics of the summer northern East Asian low and its impact on East Asian rainfall

### **Coffee Break**

#### **Regional Monsoon Aspects (section 2)**      Chair: Ding, Yihui

- 16:25-16:50 Matsumoto, Jun (Japan Agency for Marine-Earth Science and Technology, Tokyo Metropolitan University, Japan): Seasonal changes of monsoon over the Indochina Peninsular
- 16:50-17:15 Ueda, Hiroaki (University of Tsukuba): Important factors for the development of the Asian-Northwest Pacific summer monsoon

### **Reception**

- 17:30-19:30 East-West Center Garden Level

## Thursday, July 3

### **ENSO and Ocean Processes**      Chair: Kawamura, Ryuichi

- 9:00- 9:30      Miyakoda, Kikuro (Princeton University): Oceanic Process of ENSO  
9:30- 10:00      Lukas, Roger (University of Hawaii): Murakami-sensei: Scale Interactions and the 1982-83 El Nino

### **Coffee Break**

### **Monsoon Prediction and Forecast (section 1)**      Chair: Annamalai, H.

- 10:20-10:50      Singh, O.P. (India Meteorological Department, Retired): South Indian Convergence Zone Model: A new approach to seasonal forecasting of summer monsoon rainfall in India  
10:50-11:15      Wang, Bin (University of Hawaii): How predictable is Indian summer monsoon rainfall?  
11:15-11:40      He, Jinhai (Nanjing University of Information Science and Technology): Meridional propagation of the 30-60 days oscillation of rainfall in the East Asian subtropical monsoon region: Monitoring and prediction  
11:40-12:05      Alessandri, Andrea (Italian National Agency for New Technologies, Energy and Sustainable Development, Italy): Prediction of Indian summer monsoon onset using dynamical sub-seasonal forecasts  
12:05-12:25      Kikuchi, Kazu (University of Hawaii): Tropical intraseasonal oscillation simulated in an AMIP-type experiment in NICAM

### **Lunch Break**

### **Monsoon Prediction and Forecast (section 2)**      Chair: Kikuchi, Kazu

- 14:00-14:30      Nakazawa, Tetsuo (World Meteorological Organization, University of Tsukuba, Japan): The TIGGE database predicted extreme warm/cold events in NH in January 2014  
14:30-14:50      Kajikawa, Yoshiyuki (RIKEN Advanced Institute for Computational Science, Japan): Indian summer monsoon onset in 2012 simulated by global cloud-system resolving model NICAM.  
14:50-15:10      Lee, June-Yi (Pusan National University): Definition and prediction for boreal summer intraseasonal oscillation

- 15:10-15:30 Lee, Sun-Seon (IPRC): Predictability and prediction skill of the boreal summer intraseasonal oscillation in the intraseasonal variability hindcast experiment
- 15:30-15:50 Wu, Shu (University of Hawaii): Comparison of performances for SST-nudging and ensemble optimal interpolation for seasonal forecast--results from a coupled GCM

### **Coffee Break**

#### **Future Projection and Changes**      Chair: Lee, June-Yi

- 16:10-16:40 Kitoh, Akio (University of Tsukuba, Japan): Projection of the monsoon precipitation through the 21st century
- 16:40-17:10 Yasunari, Tetsuzo (Research Institute for Humanity and Nature, Japan): On the important role of the Asian monsoon climate in the global environment change issues
- 17:10-17:30 Cherchi, Annalisa (CMCC/INGV): South Asian summer monsoon and the eastern Mediterranean climate: The “monsoon-desert mechanism” in CMIP5 simulations (present-day & projections)

#### **Closing Remarks**      Chair: Matsumoto, Jun

- 17:30-17:40 Wang, Bin (University of Hawaii)