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**Global Research Laboratory (GRL) Korea-US joint workshop on  
Global Monsoon Variability and Change**

**January 09-10, 2012**

POST 414, University of Hawaii at Manoa, Honolulu USA

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**Monday**

**January 09, 2012**

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**9:00 - 9:20 WELCOMING AND OPENING REMARKS**

Kevin Hamilton, University of Hawaii/ IPRC, USA  
Bin Wang, University of Hawaii/ IPRC, USA  
Jong-Ghap Jhun, Seoul National University, Korea  
Kyung-Ja Ha, Pusan National University, Korea  
Kyong-Hwan Seo, Pusan National University, Korea

**SESSION 1 Keynote Presentations (Chair: June-Yi Lee)**

9:20 – 9:40 Bin Wang, UH/IPRC, USA: Recent Changes in the Global Monsoon Precipitation

9:40 – 10:00 Kyung-Ja Ha, PNU, Korea: Northward propagating ISO over the East Asia summer monsoon region and an association with ENSO

10:00 – 10:20 Jong-Ghap Jhun, SNU, Korea: Interannual and interdecadal components in the East Asian winter monsoon

10:20 – 10:40 Kyong-Hwan Seo, PNU, Korea: Mechanisms of the Extraordinary Sub-monthly Variations in the East Asian Summer Monsoon of July 2011

**10:40 – 11:00 Opening Ceremony for GRL and Picture**

**SESSION 2 Subseasonal Variability and Predictability (Chair: Kyung-Sook Yun)**

11:00 – 11:20 Sun-Seon Lee, PNU, Korea: Role of the Tibetan Plateau and Hadley circulation on storm track activity

11:20 – 11:40 Ki-Young Heo, PNU, Korea: Interdecadal Change in Pacific Storm Track Activity and Its Possible Causes

11:40 – 12:00 Seok-Woo Son, McGill Univ., Canada: Evaluation of Northern Hemisphere Blocking Climatology in the Global Environmental Multiscale (GEM) model

**12:00 – 13:30 LUNCH**

## **SESSION 2 Continue (Chair: Kazuyoshi Kikuchi)**

- 13:30 – 13:50 June-Yi Lee, UH/IPRC, USA: Multi-Model Ensemble Prediction for MJO  
13:50 – 14:10 Xiouhua Fu, UH/IPRC, USA: Intraseasonal forecasting of monsoon and tropical cyclones  
14:10 – 14:30 Nat Johnson, UH/IPRC, USA: Toward a framework for incorporating MJO and ENSO information into probabilistic long-range forecasts  
14:30 – 14:50 Pallay Ray, UH/IPRC, USA: Role of the Mean State on the MJO Initiation in a High Resolution Nested Regional Climate Model  
14:50 – 15:10 Fei Liu, UH/IPRC: A frictional Multi-Scale Skeleton Model for the MJO

### **15:10 – 15:30 Coffee Break**

## **SESSION 2 Continue (Chair: Sun-Seon Lee)**

- 15:30 – 15:50 Weidong Yu, SOA, China: Structures and Mechanisms of the First-Branch Northward-propagating Intraseasonal Oscillation over the Tropical Indian Ocean  
15:50 – 16:10 Ja-Yeon Moon, UH/IPRC, USA: Teleconnections associated with Northern Hemisphere Summer Monsoon Intraseasonal Oscillation  
16:10 – 16:30 Kazuyoshi Kikuchi, UH/IPRC, USA: The relationship between TC genesis and ISO  
16:30 – 16:50 Hiroshi Taniguchi, UH/IPRC, USA: Global Statistics of MJO and its Relationship to Tropical Cyclone in Athena Project  
16:50 – 17:10 Yumi Choi, PNU, Korea: Effects of SST Gradient on Tropical Cyclone Motion

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**Tuesday**

**January 10, 2012**

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## **SESSION 3: Global Monsoon Variability and Change (CHAIR: Ki-Young Heo)**

- 09:00 – 09:20 Ye-Won Seo, PNU, Korea: Global Monsoon Perspective on the WNPSH Variability  
09:20 – 09:40 Eun-Jeong Lee, PNU, Korea: Interannual and Interdecadal Variability of Global Monsoon Precipitation and Hydrologic Cycle  
09:40 – 10:00 Yu Kosaka, UH/IPRC, USA: Limitations of Seasonal Predictability for Summer Climate over East Asia and the Western North Pacific

### **10:00 – 10:30 Coffee Break**

## **SESSION 3: Continue (CHAIR: Ja-Yeon Moon)**

- 10:30 – 10:50 H. Annamalai, UH/IPRC, USA: TBC  
10:50 – 11:10 Alejandro Ludert, UH, USA: Variability and Predictability of the South American Monsoon

11:10 – 11:30 Hye-Jin Ryu, Haegang High School, Korea (PNU TAG Institute): On Global Dimming Experiment

11:30 – 11:50 Pang-Chi Hsu, UH/IPRC, USA: Changes in Global Monsoon Precipitation under Global Warming

### **11:50 – 13:30 LUNCH**

### **SESSION 4 Possible Sources of the WNP-EA Climate Variability (Chair: Baoqiang Xiang)**

13:30 – 13:50 Baoqiang Xiang, UH/IPRC, USA: Predominance of the Central Pacific Warming after the late 1990s'

13:30 – 13:50 Jong-Seong Kug, KORDI, Korea: Impact of Arctic Warming on Extratropical Climate Variation

13:50 – 14:10 Mi-Kyung Sung, Yonsei Univ, Korea: Phase Asymmetric Downstream Development of the NAO and its Impact on the East Asian Winter Monsoon

14:10 – 14:30 Kyung-Sook Yun, PNU, Korea: The Role of Extratropical Circulations on the Monsoon-ENSO Interaction

14:30 – 14:50 Jung-Eun Chu, PNU, Korea: Dominant Interannual to Interdecadal Variability of Indian Ocean SST and its Relationship with Asian Summer Climate

### **14:50 – 15:10 Coffee Break**

### **SESSION 5 Discussion (Chair: Bin Wang and Kyung-Ja Ha)**

15:10 – 17:00: Discussion on collaboration between IPRC and PNU

### **18:00 – 20:00 Banquet at Longhi's**