

**The 12<sup>th</sup> U.S.-Japan Workshop on Global Change**  
**“Long-term Projection, Near-term Prediction,  
Extreme Events Projection and Observations”**

**Boulder, Colorado, U.S.A., 30 June -- 2 July 2008**

**Monday, 30 June**

0800-0900 Continental breakfast & coffee available outside Centennial Ballroom

**0900-1200: Morning Session: 3 hours**

**Co-chairs : David Randall (Colorado State Univ.), Hiroki Kondo ( MEXT)**

**Opening Remarks (15 minutes)**

**Group Introductions (5 minutes)**

**Lou Brown (NSF), Welcoming Remarks (5 minutes)**

**Tadashi Ishikawa (MEXT), Response (5 minutes)**

**Establishing the Framework of the Workshop (45 minutes)**

**Tadashi Ishikawa (MEXT), MEXT basic science policy and GEOSS (10 minutes)**

**Hiroki Kondo (MEXT), A national research initiative on climate change projection and its background science policy (10 minutes)**

**Chet Koblinsky (NOAA), Development of Climate Science and Services (10 minutes)**

**Jay Fein (NSF), U.S. Climate Change Research (10 minutes)**

**Keynote lectures:**

**Taroh Matsuno (FRCGC), Toward cloud-cluster resolving AGCM- New age of tropical meteorology (60 minutes including questions)**

*15 minute coffee break*

**Susan Solomon (NOAA), Climate Change and IPCC: Where We Are and Where We May Be Going (60 minutes including questions)**

**1215-1230: Group Photo – Photo location will be announced**

**1230-1330: Group lunch in the private dining room**

**13:30-16:30: Afternoon Session: 3 hours plus coffee break**

**Long-term projections (including related process studies)**

**Co-chairs: Jerry Meehl (NCAR), Tatsushi Tokioka (FRCGC)**

**Presentations (20 minutes each)**

**Japan:**

Michio Kawamiya (FRCGC), *Japan's plan for the post-AR4 global warming projection with an integrated earth system model*

Kengo Sudo (Nagoya Univ.), *Global Change in the Contexts of Atmospheric Chemistry and Air Pollution*

Takeshi Ise (FRCGC), *High temperature sensitivity of peat decomposition due to physical-biogeochemical feedback*

**U.S.:**

Ron Stouffer (GFDL), *Uncertainties in the terrestrial biological response to increasing CO<sub>2</sub>*

Jerry Meehl (NCAR), *Challenges for long term climate change projections*

Ron Miller (GISS), *Developing an Earth System Model of Past and Future Climates*

Discussions

**Tuesday, 1 July**

0800-0900 Continental breakfast & coffee available outside the Centennial room

**0900-1200: Morning Session: 3 hours plus coffee break**

***Near-term predictions (including related process studies)***

**Co-chairs: Tom Delworth (GFDL), Masahide Kimoto (CCSR)**

**Presentations (20 minutes each)**

**U.S.:**

Jim Hurrell (NCAR), *Decadal Climate Prediction: Challenges and Opportunities*

Tom Delworth (GFDL), *Decadal Climate Variability, Predictability, and Predictions – Focus on the Atlantic*

Eugenia Kalnay (University of Maryland), *Impacts of urbanization and land surface changes on climate trends (tentative title)*

**Japan:**

Masahide Kimoto (CCSR), *Climate 2030: A Japanese Project for Near-Term Climate Projection*

Seita Emori (NIES), *A new version of the MIROC AOGCM with updated physics schemes*

Masayoshi Ishii (FRCGC), *Data Assimilation for Uncertainty in Near-Term Climate Projection*

Discussions

**1200- 1330: Lunch on own**

**1330- 1630: Afternoon Session: 3 hours plus coffee break**

***Extreme Events projections (including related process studies)***

**Co-chairs: Greg Holland (NCAR), Akio Kitoh (MRI)**

**Presentations (20 minutes each)**

**Japan:**

Akio Kitoh(MRI), *Projection of the change in future weather extremes using super-high-resolution atmospheric models*

Kazuo Kurihara (MRI), *Projection of the change in future weather extremes using nonhydrostatic cloud-resolving regional models*

Masato Sugi (MRI), *Reduction of uncertainties in projection of the change in future tropical cyclones*

Hiroaki Miura (FRCGC), *A Madden-Julian Oscillation simulation using a global cloud-resolving model*

**U.S.:**

Kerry Emanuel (MIT), *Seasonal to centennial prediction of tropical cyclone activity*

Marty Hoerling (NOAA ESRL), *The Future Pulse of Indian Monsoon Climate*

Sumant Nigam, (University of Maryland), *North American Droughts and Rainfall Extremes in the 20<sup>th</sup> Century: Role of SST Variability and Trend*

Discussions

**Depart Hotel 1800: Group dinner at the *Red Lion Restaurant* in Boulder Canyon**

**DRAFT as of 06/27/08**

**Wednesday, 2 July**

0800-0900 Continental breakfast & coffee available outside Centennial Ballroom

***0900-1200: Morning Session: 3 hours plus coffee break***

***Observation and monitoring on climate changes***

**Co-chairs: Chris Kummerow (CSU), Kenji Nakamura (Nagoya Univ.)**

**Presentations (20 minutes each)**

**U.S.:**

Carol Anne Clayson (Florida State Univ.) *Uncertainties in surface fluxes : The way forward*

Phil Arkin (ESSIC, Univ. of Maryland) *Global Precipitation Analyses and Re-analyses*

Arthur Hou (NASA GSFC) *New pathways to model physics improvement in the GPM era*

**Japan:**

Kenji Nakamura (Nagoya Univ.), *TRMM achievements and expectation to GPM*

Shamil Maksyutov (NIES), *Expansion of the atmospheric greenhouse gases observations with global satellite coverage in 2009, (authors: G. Inoue, T. Yokota, S. Maksyutov, T. Hamazaki, C. Miller, D. Crisp)*

Keiji Imaoka (JAXA/EORC), *Overview of the Global Change Observation Mission (GCOM) and its contribution to climate change research*

Discussions on interaction or coordination between modeling and observation

***DRAFT as of 06/27/08***

**1200 General meeting ends**

***1200-1300 Lunch on own***

***1300-?: Afternoon Session: (Working group session co-chairs and meeting co- chairs only)***

**Co-chairs: David Randall (Colorado State Univ.), Hiroki Kondo (MEXT)**

**Discussion of the Communiqué:**

Emerging challenges and possible collaboration to address them

**Adoption of the Communiqué**

**Closure**