

## SATREPS Symposium on Climate Prediction and Its Application in the Southern African Region

Date: October 20-21, 2011

Venue: The University of Tokyo (Koshiba Hall)

October 20

Registration: 9:00-9:30

### Opening Session (Chair: Takahashi)

9:30-9:35	Address 1: Dr. Toshio Yamagata (JAMSTEC/University of Tokyo, Japan)
9:35-9:40	Address 2: H.E. Ambassador Gert J. Grobler (South African Embassy)
9:40-9:45	Address 3: Dr. Kotaro Inoue (JST)

### Session 1: Climate variability and predictability (Chair: Behera)

9:50-10:10	Mathieu Rouault (University of Cape Town, South Africa) <i>"Ocean Atmosphere Interaction in the Agulhas Current System"</i>
10:10-10:30	Mototaka Nakamura (JAMSTEC, Japan) <i>"Impacts of SST Anomalies in the Agulhas Current System on the Regional Climate Variability"</i>

10:30-10:50 Coffee Break

10:50-11:10	Tomoki Tozuka (The University of Tokyo, Japan) <i>"Predictability of the Subtropical Dipole Modes in SINTEX-F1 Model"</i>
11:10-11:30	Yushi Morioka (The University of Tokyo, Japan) <i>"Subtropical Dipole Modes Influencing the Southern African Climate"</i>
11:30-11:50	Francois Dufois (University of Cape Town, South Africa) <i>"The Inter-annual Variability of Sea Surface Temperature in the Southern Benguela System"</i>
11:50-12:10	Ingo Richter (JAMSTEC, Japan) <i>"On the Relation between Equatorial Surface Winds and Atlantic Niños"</i>

12:10-12:20 Photo session

12:20-13:40 Lunch

**(Chair: Rouault)**

13:40-14:00	Motoki Nagura (JAMSTEC, Japan) <i>"Interannual Variability in the Indonesian Throughflow Simulated by SINTEX-F2 and OFES"</i>
14:20-14:40	Takeshi Izumo (The University of Tokyo, Japan) <i>"Influence of Indian Ocean Dipole on El Niño Onset: Historical Analysis and Physical Framework"</i>
14:40-15:00	Hengyi Weng (LASG, Institute of Atmospheric Physics, China) <i>"Anomalous Summer Climate in China Influenced by the Tropical Indo-Pacific Oceans"</i>

15:00-15:20            Coffee Break

**(Chair: Tozuka)**

15:20-15:40	Swadhin K. Behera (JAMSTEC, Japan) <i>"Decadal Variations of Extreme Rainfall Events in South Africa"</i>
15:40-16:00	Satyaban B. Ratna (JAMSTEC, Japan) <i>"A Dynamical Index for Tropical Temperate Trough over Southern Africa and Southwest Indian Ocean"</i>
16:00-16:20	Christien Engelbrecht (ARC, South Africa) <i>"Atmospheric circulation patterns during dry and wet summers over the central and northeastern interior of South Africa"</i>

16:20-17:00            Discussions

18:00-20:00            Reception at Lever son Verre Hongo (Forest Hongo 1F)  
([http://www.leversonverre-tokyo.com/restaurant\\_hongou\\_party/index.html](http://www.leversonverre-tokyo.com/restaurant_hongou_party/index.html))

**October 21**

**Session 2: Seasonal prediction and model development**

**(Chair: Sakuma)**

9:20-9:40	Willem Landman (CSIR, South Africa) <i>"The CCAM as Operational Seasonal Forecast System"</i>
9:40-10:00	Cobus Olivier (SAWS, CSIR) <i>"Global SST Outlook of SAWS Ocean-Atmosphere Coupled Climate Model: Analysis and Operational Prospect"</i>
10:00-10:20	Chiris Lennard (University of Cape Town, South Africa) <i>"The Development of the First Seasonal Attribution Forecast for Africa and the World"</i>
10:20-10:40	Francois Engelbrecht (CSIR, South Africa) <i>"AMIP-style Simulations over Southern Africa using a Variable-Resolution Global Atmospheric Model"</i>
10:40-11:00	Wataru Sasaki (JAMSTEC, Japan) <i>"Role of Vertical Mixing Originating from Small Vertical Scale Structures in the Equatorial Thermocline in a Coupled GCM"</i>

11:00-11:20            Coffee Break

**Session 3: Downscaling (Chair: Landman)**

11:20-11:40	Keiko Takahashi (JAMSTEC, Japan) <i>"Ultra Downscaling Simulation for Forecasting Extremes in South Africa"</i>
11:40-12:00	J. Venkata Ratnam (JAMSTEC, Japan) <i>"Impact of using a Simple Mixed Layer Ocean Model in WRF on the Simulation of Climate over Southern Africa"</i>
12:00-12:20	Joel Botai (University of Pretoria, South Africa) <i>"Nonlinearity in Atmospheric Satellite Laser Ranging (SLR) Range Bias Correction: Contributions from NWP Downscaling"</i>

12:20-13:40            Lunch

**Session 4: Application (Chair: Lennard)**

13:40-14:00	Hirofumi Sakuma (JAMSTEC, Japan) <i>"The Goals and the Present Status of Application Studies in SATREPS South Africa"</i>
14:00-14:20	Noboru Minakawa (Institute of Tropical Medicine, Nagasaki University, Japan) <i>"Climate Change and Highland Malaria in East Africa"</i>
14:20-14:40	Nhlonipho Nhlabatsi (ARC, South Africa) <i>"Determination of Evaporation from the Melanic Horizon using a Weighing Lysimeter and Prospect on Prediction of Rift Valley Fever"</i>
14:40-15:00	Christian Baron (CIRAD UMR TETIS, France) <i>"A Spatial and Temporal Point of View for Food Security"</i>
15:00-15:20	Toshichika Iizumi (NIAES, Japan) <i>"A Process-based Large-area Crop Model to Capture the Impact of Climate Variability on Crop Productivity over a Country Scale: U.S. Maize Case"</i>
15:20-15:40	Pascal Oettli (The University of Tokyo, Japan) <i>"Reducing Bias in Regional Climate Modelling, a Compulsory Step for Crop Modelling"</i>

15:40-16:00            Coffee Break

16:00-16:40            Discussions

16:40-16:50            Concluding Remarks: Dr. Jimmy Adegoke, ACCESS, South Africa

16:50            Adjourn

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