

**First West African Monsoon Modeling and Evaluation  
(WAMME) Workshop  
in 2008 American Meteorological Society Annual Meeting,  
New Orleans, January 20, 2008**

**Organizers: Yongkang Xue, William K.-M. Lau, and Kerry H. Cook**

**(All oral presentations are invited)**

**1). WAMME Results and Related Science.**

**Chairs:** William K.-M. Lau and Kerry H. Cook

8:15-8:25 Brief introduction to the WAMME initiative

Yongkang Xue, University of California, Los Angeles, USA., William K-M Lau, Kerry H. Cook

8:25-8:45 Analyses of the first West African Monsoon Modeling and Evaluation (WAMME) Experiments

Yongkang Xue, University of California, Los Angeles, USA., William K-M Lau, Kerry H. Cook, David Rowell, Aaron Boone, Fernando De Sales, Paul Dirmeyer, Leonard M. Druryan, Jinming Feng, Matthew Fulakeza, Zhichang Guo, Richard Jones, Joseph Intsiful, Kyu-Myong Kim, Akio Kitoh, Vadlamani Kumar, Benjamin Lamptey, Patrick Lonergan, Wilfran Moufouma-Okia, Phil Pegion, Jae Schemm, Siegfried D. Schubert, Wassila Thiaw, Augustin Vintzileos, Ratko Vasic, Edward K. Vizy, Steve Williams, Man-Li C. Wu

8:45-9:00 Modeling interannual variability of the WAM jump using WAMME regional model simulations

Kerry H. Cook, Cornell University, USA, J. F. Newman, E. K. Vizy, and S. M. Hagos

9:00-9:15 West African summer monsoon climate: A comparison of RM3 downscaled analyses to downscaled GCM forecasts

Leonard M. Druryan, NASA/Goddard Institute for Space Studies, USA. Matthew Fulakeza and Patrick Lonergan

9:15-9:30 Influence of soil moisture initialization methodology on simulating the West African Monsoon system in a Regional Climate Model

Wilfran Moufouma-Okia, Met Office, Hadley Centre for Climate Prediction and Research, U.K. Dave Rowell and Richard Jones.

9:30-9:45 West African Monsoon in a 20km-mesh Atmospheric GCM

Akio Kitoh, Meteorological Research Institute, Japan, Masahiro Hosaka and Osamu Arakawa, Meteorological Research Institute, Tsukuba, Japan

9:45-10:00 Predictions of the West African monsoon in the NCEP GFS

Vadlamani B. Kumar, Climate Prediction Center/NCEP, Wassila M. Thiaw, and Jae K. Schemm

10:00-10:30 **Coffee break**

**2). Relationship of WAMME to Other Programs: Developing Interactions and Synergy.** Chairs: Kerry H. Cook and David Rowell

10:30- 10:45 An overview of UCAR Activities in Africa

A. Laing, UCAR, R. Pandya, R. Brientjes, B. Lamptey, P. Kucera, F. Semazzi, T. Yoksas, M. Ramamurthy, M. Weingroff, T. Spangler, A. Traore, M. Konate, N. Fall, R. Boger, T. Warner, S. Herrmann, M. Moncrieff and R. Low

10:45-11:05 The International CLIVAR Climate of the Twentieth Century Project (C20C)

Chris Folland, Met Office Hadley Centre, UK and Jim Kinter, Center for Ocean-Land-Atmosphere Studies, USA

11:05-11:25 AMMA-MIP and AMMA-LMIP modeling activities

Paolo Ruti, ENEA, Italy and Aaron Boone, CNRM, France

11:25-11:40 The AMMA radiosonde programme and its implications for the future of atmospheric monitoring over Africa

Andreas H. Fink, University of Cologne, Köln, Germany; and C. Thorncroft, S. Janicot, M. W. Douglas, A. Beljaars, D. J. Parker, E. Afiesimama, J. B. Ngamini, A. Augusti-Panareda, F. Dide, A. Diedhiou, T. Lebel, J. Polcher, J. L. Redelsperger, and G. Wilson

**11:40 – 1:40 Lunch Break**

**3). What next? Thoughts and issues in designing future African climate studies.**

Chairs: Yongkang Xue and William K-M Lau

1:40-1:55 Some thoughts on SST forcing of Sahel rainfall

David Rowell, Met Office, Hadley Centre for Climate Prediction and Research, UK

1:55-2:10 Scale interactions in the West African Monsoon

Chris Thorncroft, University of New York, Albany, USA

2:10-2:25 Land-atmosphere coupling strength in AGCMs – with a focus on cases in the updated COLA AGCM

Zhichang Guo, Center for Ocean-Land-Atmosphere Interactions, USA. and Paul Dirmeyer.

2:25-2:40 Effects of Saharan dust on the diurnal and seasonal variability of the West African Monsoon

William K-M Lau, NASA/Goddard Space Flight Center, USA, Kyu-Myong Kim, Yogesh Y. Sud, Gregory K. Walker

2:40-2:55 Regional modeling study of the effect of Saharan dust on the West African monsoon

Abdourahamane Konare, University of Cocody, Ivory Coast.

2:55-3:05 Dust and African precipitation

Natalie Mahowald, Cornell University, USA.

3:05-3:15 Designing regional model simulations of the WAM: Lessons learned

Edward K. Vizy, Cornell University, USA., E. E. Riddle, S. M. Hagos, C. M. Patricola, and K.H. Cook

3:15-3:25 On the evolution of African Easterly Waves and precipitation systems over the Sahel as a function of horizontal model resolution

Augustin Vintzileos, National Center for Environmental Prediction and UCAR, USA.

3:25-3:30 Coupled ocean/atmosphere regional modeling of the WAM system

E. E. Riddle, Cornell University, USA, S. M. Hagos , C. M. Patricola, E. K. Vizy, and K.H. Cook

3:30-3:35 Simulating 2005 summer over West Africa.

Benjamin Lamptey, NCAR and Ghana Meteorological Agency, Ghana

**3:35 – 4:00 Coffee break**

**4). Discussion** Chairs: Yongkang Xue, William K-M Lau, and Kerry H. Cook

4:00 – 6:00

Next steps for WAMME.

How can we develop interactions and synergy with other initiatives (such as new CEOP, International Monsoon Years, AMMA, C20C, UCAR initiative) and West African scientists?

How can we attract funding for WAMME?

**7:00 Dinner (Optional)**