

Earth System Science Organization
Ministry of Earth Sciences

Monsoon Mission Review Meeting

18-20 February 2015

Venue: Indian Institute of Tropical Meteorology, Pune

Wednesday, 18th February, 2015

0930-1000 hrs: Inauguration Ceremony

Dr Shailesh Nayak, Chairman, ESSO and the Secretary, MoES
Dr Vinod Gaur, Chairman, Governing Council, ESSO-IITM
Monsoon Mission Director
Associate Monsoon Mission Director

1000-1030 hrs: Tea/coffee

1030-1315: Session-1 : Model Development Activities at MoES/NOAA/UKMET
(Chair-Prof J Srinivasan, IISc Bangalore)

1030-1100: Model development activities at ESSO-IITM (CFS V2): Dr Suryachandra Rao, IITM
Pune

1100-1130: Monsoon Desk and Recent model Development activities at NCEP (CFS V2): Dr.
Sreenivas Moorthy

1130-1200: Model Development activities at ESSO-NCMRWF (UKMO): Dr.
E.N.Rajagopal/Dr.Swati Basu, NCMRWF

1200-1230: MoES-UKMO Cooperation and UKMO model development activities at UKMO:
Dr. Rechar Renshow

1230-1300: Experimental extended range forecasts: Dr A.K.Sahai, IITM Pune

1300-1320: Operational Short-range and Long range forecasts: IMD representative

1320-1400: LUNCH

1400-1600: Session-2: Model Diagnostics for model development-I
(Chair- Prof J Shukla, GMU/COLA)

1400-1430: Sensitivity Studies for Indian Monsoon Forecast Modelling: Dr
T.N.Krishnamurti, FSU, USA

1430-1500: Ocean-Land-Atmosphere coupling and initialization strategies to improve CFS v2
and Monsoon Prediction: Dr James L Kinter, GMU, USA

1500-1530: Understanding bias errors and addressing physics errors in the CFS V2 model: Dr
Brain Mapes, University of Miami

1530-1600: Understanding the role of sea surface temperatures in the simulation and
prediction of the monsoon intraseasonal oscillation: Dr Arun Kumar, NCEP USA

1600-1630: Extended Monsoon Episodes: Understanding processes and pathways for
improved prediction CFS v2: Dr H. Annamalai, IPRC, Hawaii

1630-1700: Tea/Coffee

1700-1830: Session-3. New Techniques and Parametrization Schemes
(Chair: Prof. U.C.Mohanty, IIT Bhubaneswar)

1700-1730: An approach of Multiscale multcloud parameterization to improve the CFS
model fidelity of monsoon weather and climate through better organized tropical
convection: Dr Bhoualem Khoudier, University of Victoria, Canada

1730-1800: Advancing Monsoon Weather Climate Fidelity in the NCEP CFS through
Improved Cloud-Radiation-Dynamical Representation: Dr Duane Waliser, JPL, USA

1800-1830: Stochastic Parameterization and Forecasting of Wind Energy in India: Dr Ralf
Toumi, Imperial College, UK

1900 hrs: Dinner

Thursday, 19th February 2015

0930-1330: Session-4 Modelling activities with UKMO model
(Chair: Prof B.N. Goswami)

0930-1000: Improved Indo-UK capability for seamless forecasting of monsoon rainfall: from
days to the season: Dr Andrew Turner, University of Reading

1000-1030: Diurnal variability of summer monsoon rainfall in the UKMO-Unified Model: Dr
M.S. Madhusoodanan, TERI

1030-1100: Impacts of ocean-atmosphere coupling and SST high frequency variability on the coupled simulation of the mean state and variability of the Indian Summer Monsoon: Dr Pascal Terray, LMD France

1100-1130: Evaluation and Improvement of the Unified Model for Short- and Medium-Range Prediction of Monsoon Rain Systems: Dr Elizebeth Ebert, CAWCR, Australia

1130-1200: Tea/Coffee

1200-16:00 Session-5 Observational networks and Data Assimilation
(Chair: Prof Sulochana Gadgil)

1200-1220: Atmospheric Observational Networks by IMD: Dr. L.S.Rathore/ IMD representative

1220-1240: Atmospheric Observational Research Campaigns: Dr. Thara Prabhakaran, IITM

1240-1300: Ocean Observational Network: Dr. Satish Shenoi, INCOIS

1300-1330: Coupled physical processes in the Bay of Bengal and monsoon air-sea interaction: Dr Debasis Sengupta, IISc Bangalore

1330-1430: LUNCH
Session-5 Continue.....

1430-1500 Use of observations defining upper ocean processes in the Bay of Bengal towards improved weather/seasonal forecast: Dr Rubi Krishnamurti, FSU, USA

1500-1530: Improving Monsoon Predictions with a Coupled Ensemble Kalman Filter Data Assimilation System: Dr Eugenia Kalnay, University of Maryland

1530-1600: The Indian Monsoon Advanced Regional Reanalysis (IMARR) Project: Dr Dale Barker, Met Office, UK

1600-1630: Improved Ocean Initialization for Coupled Modelling for week-2 Monsoon forecast: Dr Suneet Dwivedi, University of Allahabad

1630-1700: Tea/Coffee

1700-1830: Session-6 Model Diagnostics –II (Chairperson: Prof. G.S.Bhat, IISc Bangalore)

1700-1730: Role of the atmosphere and the Indian Ocean in the evolution of Monsoon-ENSO teleconnection in CFS: Dr Raghu Murtugudde, University of Maryland

1730-1800: Improving multi-scale variability and interactions in a global coupled seasonal climate forecast system through embedded regional modeling at weather and cloud resolving scales: Dr Saji Hameed, University of Aizu, Japan

1800-1830: Identification and Correction of Errors in Various Components of Dynamics and Physics of the Global Forecast System (GFS) Model: Dr Arindam Chakraborty, IISc Bangalore

1900 hrs: Dinner

Friday, 20th February 2015

0930-1130: Session -7 Model Diagnostics – II
(Chair: Dr Ajit Tyagi, MoES)

0930-0950: Role of ocean in the extended range prediction of monsoon's active break cycle improving hindcast skill of the NCEP CFS modelling system: Dr Baby Chakrapani, CUSAT, India

0950-1010: Predictability of intraseasonal oscillatory modes and ENSO-monsoon relationship in NCEP CFS with reference to Indian & Pacific Ocean: Dr Shailendra Rai, Allahabad University

1010-1030: Towards understanding the biases in the model SST, wind field and rainfall in the Climate Forecasting System for the Monsoon: Dr SSVS Ramakrishna, Andhra University

1030-1050: Bias estimation and effort for removal of UM/CFS coupled model output with adaptive techniques for improving forecast skill of Indian summer monsoon: Dr Sutapa Chaudhari, University of Calcutta, India

1050-1115: Tea/Coffee

1115-1330: Monsoon Mission SRMC meeting (closed door meeting)

1330-1430: LUNCH
