

Progress in Weather and Climate Modeling over the Indian Region

(9-12 December 2008)

Venue : ICISA

**Address: A-52, Institutional Area, Sector-62, NOIDA
(Building complex adjacent to NCMRWF)**

Registration: 08:30 – 10:00

Inaugural Session

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| 1000 hrs. | Lighting of Lamp |
| 1005 | Welcome Address: Dr A.K.Bohra, Head, NCMRWF |
| 1010 | Remarks by DG (IMD) |
| 1015 | Remarks by Secretary, MoES |
| 1020 | Inaugural Address
Honourable Minister for Science & Technology and Earth Sciences |
| 1040 | Felicitation |
| 1055 | Vote of Thanks |
| 11:00 - 11:30 | Tea Break |
| 11:30 - 12:15 | Key Note Address :
Seamless Prediction of Weather and Climate: A Vision for India
J. Shukla, IGES, USA |
| 12:15 - 12:45 | 20 years of NCMRWF and 50 years of NWP in India
A. K. Bohra, NCMRWF |
| 12: 45 - 14:00 | L U N C H |

Session 1 14:00 - 15:45

Theme I: Global Modeling/Data Assimilation/Medium Range Prediction Systems

Session Chair:

1400 – 1430	Stuart Bell, UKMO, UK	The Met Office NWP System - improving trend and future potential
1430 – 1455	E. N. Rajagopal, NCMRWF	Modeling Efforts for Medium Range Forecasts at NCMRWF
1455 – 1520	Munmun Das Gupta, NCMRWF	Overview of Data Assimilation at NCMRWF
1520 – 1545	A. K. Mitra, NCMRWF	Multi-Model Ensemble Forecasting

Tea Break : 1545 – 1615

Session 2 16:15 - 17:45

Theme I: Global Modeling/Data Assimilation/Medium Range Prediction Systems

Session Chair:

1615 - 1645	Mitch Moncrieff, NCAR, USA	The Role of Convective Organization in Global Models: The Year of Tropical Convection (YOTC)
1645 - 1715	Zoltan Toth, NCEP, USA	The North American Ensemble Forecast System
1715 - 1745	T. Venkatesh, NAL	Numerical experiments with the Varsha GCM

Dinner: 1930

2nd Day (10-12-2008)

Session 1 09:30 - 11:00

Theme II: Monsoon Simulation/Modeling and Predictability

Session Chair

0930 - 1000	Arun Kumar, NCEP, USA	Seasonal Predictions, Signal-to-Noise, and Predictability Limits
1000 - 1030	Catherine Senior, UKMO, UK	Model development and evaluation at the Met Office Hadley Centre: Towards Seamless prediction
1030 - 1100	S. C. Kar, NCMRWF	Dynamical seasonal monsoon prediction at NCMRWF

Tea Break: 1100 – 1130

Session 2 11:30 - 13:00

Theme II: Monsoon Simulation/Modeling and Predictability

Session Chair

1130 - 1200	James Kinter, COLA, USA	Problems and prospects for dynamical seasonal prediction of the Indian monsoon
1200 - 1230	R. Krishnan, IITM	Internal-feedbacks from monsoon-midlatitude interactions during droughts in the Indian summer monsoon
1230 - 1300	Ravi Nanjundiah, IISc	Impact of Coupling on Simulation of Seasonal Cycle In Atmosphere and Ocean Over the Indian Region

Lunch Break: 1300 – 1400

Session 3 14:00 - 15:00

Theme II: Monsoon Simulation/Modeling and Predictability

Session Chair

1400 - 1430	M. Rajeevan, NARL	Climate model simulations of South Asian Monsoon
1430 - 1500	P. Goswami, CMMACS	Multi-scale Modelling of Monsoon Weather and Processes

Session 4 15:00 - 16:00

Theme III: Meso-scale/Regional Assimilation/Modeling & High Impact Weather Prediction

1500 - 1530	U. C. Mohanty, IITD	Simulation of Extreme Weather Events over India with ARW and NMM-WRF Modeling Systems and Data Impact Studies
1530 - 1600	R. Ashrit, NCMRWF	Mesoscale modeling at NCMRWF

Tea Break: 1600 – 1630

Session 5 16:30 - 18:00

Theme III: Meso-scale/Regional Assimilation/Modeling & High Impact Weather Prediction

Session Chair

1630 - 1700	Kusuma Rao, ISRO	Impact of Meso-Net Observations on simulation of Intense Weather Systems during PRWONAM
1700 - 1730	S. K. Roy Bhowmick, IMD	Regional NWP modelling at IMD, New Delhi
1730 - 1800	Akshara Kaginalkar	Regional mesoscale modeling for monsoon simulation

Dinner : 1900

3rd Day (11-12-2008)

Session 1 09:30 - 11:00

Theme IV: Climate and Climate Change Modelling

Session Chair

0900 - 0930	M. Sugi, MRI, Japan	Climate change prediction with a very high resolution AGCM
1000 - 1030	Kamal Puri, BMRC, Australia	The Australian Community Climate and Earth System Simulator (ACCESS): Towards a unified modelling system
1030 - 1100	O. P. Sharma, IITD	Some Aqua Planet Experiments with a New Generation Atmospheric global Model

Tea Break: 1100 – 1130

Session 2 11:30 - 13:00

Theme IV: Climate and Climate Change Modelling

Session Chair:

1130 - 1200	Tim Palmer, ECMWF, UK	Thirty years of NWP at ECMWF
1200 - 1230	Sumant Nigam , Univ. of Maryland, USA	South Asian Regional Reanalysis: Motivation
1230 - 1300	S. K. Dash, IITD	Changes in some weather characteristics in India

Lunch Break: 1300 – 1400

Session 3 14:00 - 16:00

Theme – V Observation Systems/Field Campaigns

Session Chair:

1400 - 1430	Ajit Tyagi, IMD	Modernization of Observation and Forecasting System in IMD
1430 - 1500	G. S. Bhatt, IISc	Challenging Issues in CTCZ : Clouds & Aerosols
1500 - 1530	P. C. Joshi, SAC	Prospects of New Space Based Observations from Indian Missions for Numerical Weather Prediction
1530 - 1600	M. Ravichandran, INCOIS	Ocean Observing System for the Indian Ocean

Tea Break: 1600 – 1630

Session 4 16:30 - 17:30

Theme – VI Numerical Model Product Interpretation and Applications

Session Chair:

1630 - 1700	L. S. Rathore, IMD	Applications of NCMRWF model output
1700 - 1730	Ashok Kumar, NCMRWF	Statistical Downscaling of global model output

Dinner: 1900

4th Day (12-12-2008)

Session 1 09:00 - 10:00

Special Lectures

Session Chair:

0900- 0930	B. N. Goswami	Analogue methods for real time extended range prediction of active-break spells of monsoon
0930 - 1000	T. N. Krishnamurti	Review talk on Modelling for Tropics

Panel discussion: 10:00-11:00

Challenges of Medium and Extended Range Prediction over the Indian Region , Climate Modelling for Monsoon Region , Data Assimilation

Panel Members:

T. N. Krishnamurti
J. Shukla
B. N. Goswami
Ajit Tyagi
Tim Palmer
K. Puri
M. Sugi
D. R. Sikka
A. K. Bohra