

**Brainstorming Workshop on
 “CLIMATE MODELLING: NATIONAL STATUS”
 19-20 July 2016
 Indian Institute of Technology Delhi
 Hauz Khas New Delhi**

PROGRAMME

Day-I: Tuesday the 19th July 2016

INAUGURAL SESSION

Venue: Senate Room, Main Building

1000-1005	Welcome by	Prof. A. D. Rao Head, CAS, IIT Delhi
1005-1015	Opening Remarks & Background by	Dr. Akhilesh Gupta Head Climate Change Programme, SPLICE, DST
1015-1025	Remarks by	Prof. V. Ramgopal Rao Director, IIT Delhi
1025-1035	Address by	Dr. M. Rajeevan Secretary, Ministry of Earth Sciences, Government of India
1035-1045	Address by	Prof. Ashutosh Sharma Secretary, Department of Science & Technology, Government of India
1045-1050	Vote of Thanks	Dr. S. K. Mishra , CAS, IITDelhi

1050-1115

High Tea

1115-1330: Session-I: Building National Capacity in Climate Modelling: Status and Strategies

Venue: Bharti Building, Room No. 101

(Session Chair: Dr. L. S. Rathore, DG, IMD)

1115-1130	DST's initiatives on Building S&T Capacities in Climate Change	Dr. Nisha Mendiratta , Director, Climate Change Programme, DST
1130-1145	MoES's initiatives and programmes on Climate Modelling	Dr. K. J. Ramesh Adviser, MoES
1145-1200	NCMRWF's Initiatives in climate modeling	Dr. E. N. Rajagopal Director, NCMRWF
1200-1215	IMD's initiatives and programme in weather and climate modeling	Dr. S. D. Attri DDG, IMD
1215-1230	IITM's initiatives in Climate Modelling	Dr. Ramesh Vellore IITM, Pune

1230-1330	Panel discussion and remarks by the Chairman
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1330-1430	Lunch
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1430-1730: Session-II: Prioritization of Research & Capacity Needs and identification of themes for the proposed Network Programme

**Venue: Bharti Building, Room No. 101
(Session Chair: Prof. D. Bhaskar Rao)**

1430-1450	Rationale of Proposed Network Programme on Climate Modeling	Dr. Akhilesh Gupta Adviser, DST
1450-1510	Process and phenomenological studies through modeling	Dr. S. K. Mishra CAS, IITD
1510-1530	Climate Projection	Dr. A. Karumuri Hyderabad Univ.
1530-1550	Understanding Extremes	Dr. V. Venu IISc, Bangalore
1550-1610	Regional Climate Modeling	Dr. Arun Chakraborty IIT Kharagpur
1610-1620	Summary and Remarks by the Chairman	
1620-1730	Discussion initiated and moderated by Prof. S. K. Dash , CAS, IITD and Dr. Akhilesh Gupta , DST	

Day-II: Wednesday the 20th July, 2016

0930-1300: Session-III - Identification of Sub-themes, Potential Projects/ Project investigators (Group discussion in breakaway sessions)

**Venue: Centre for Atmospheric Sciences (CAS), Block-VI, Room No. 412
Session Chair: Prof. U. C. Mohanty**

0930-0945	Explaining the concept and methodology for the Network Programme	Prof. S. K. Dash
0945-1215	Group-I: Process and Phenomenological Studies (Convener : Dr. S. K. Mishra)	
	Group-II: Climate Projection(Convener: Dr. A. Karumuri)	
	Group-III: Understanding Extremes (Convener: Dr. V. Venu)	
	Group-IV: Regional Climate Modeling (Convener: Dr. A. Chackraborty)	
1215-1235	Presentation by Group Conveners on the outcome of Group discussion (5 min each)	
1235-1330	Panel Discussion	

1330-1430	Lunch
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1430-1600: Concluding Session: Finalization of Potential Partners, Coordinators and Follow up action

**Venue: Centre for Atmospheric Sciences (CAS), Block-VI, Room No. 412
(Moderated by Dr. Akhilesh Gupta, Adviser, DST)**

1430-1530	General discussion on outcome of the group discussions	Initiated by moderator and joined by Group Conveners
1530-1555	Recommendations, follow up actions and Concluding Remarks	Dr. Akhilesh Gupta, DST
1555-1600	Vote of thanks	Dr. Nisha Mendirata, DST

1600-1630	Tea
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1630	Departure
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GENERAL GUIDELINES FOR GROUP DISCUSSION

a. GENERAL

- All the participants will be distributed into 4 groups to discuss the 4 identified themes.
- The Participants are free to choose the group depending on their areas of interest. However, they need to select only one group.
- Each group will proceed to different rooms identified for them.
- Each room will have facilities for flip chart and board for noting.
- Each group will have a convener and a rapporteur.
- The group convener will conduct the proceedings, identify the project sub-themes and potential participants, finalise the outcome of discussion by taking views of the participants of the group, and report back with a brief presentation.
- In the reporting, initially the group members and then any participant may provide their suggestions and comments.
- The group convener and rapporteur will take the suggestions and provide a brief write-up (5-6 bullets) to the Chair and make a brief presentation of 5 min in the Session-III.

b. ISSUES TO BE DISCUSSED BY EACH GROUP ON THEIR RESPECTIVE THEMES

- What are the major issues and gaps in climate modeling? Enlist the gaps.
- Which are the most important among them? Prioritize them.
- What are the research-needs to address them? Enlist the needs.
- What are the most urgent research-needs to fill the gaps? Prioritize them.
- Identify the research activities to fill up the most urgent research-needs.
- What are the capacity-needs in climate modeling areas? Enlist them.
- What are the most urgent capacity-needs? Prioritize them.
- Identify the capacity building activities to fill up the most urgent needs.
- Identify the urgent needs for infrastructure including supercomputing facilities for undertaking climate modeling work
- Identify the priority actions / activities to address the infrastructural requirements