



# Stakeholder Consultation Workshop For Development of National Framework for Climate Services in India (NFCS–India)

5-6 October 2023

Organized and coordinated by  
India Meteorological Department (Delhi and Pune)  
Ministry of Earth Sciences, Govt. of India

Co-Hosted by and Venue  
CHRIST University, Lavasa Campus, Pune

## AGENDA

Day 1: 5 October 2023

08.30 – 09.00	Registration	
09.00 – 10.00	<b>Inaugural Session</b>	
	Welcome Address Welcome by host Remarks on NFCS Inaugural Address Vote of Thanks	<b>Shri K. S. Hosalikar</b> , Head, CRS, IMD, Pune <b>Dr Fr Lijo Thomas</b> , Director, Christ University <b>Dr. Rupa Kumar Kolli</b> , Vice-chair WMO SCCS <b>Dr. M. Ravichandran</b> , Secretary, MoES <b>Dr. Satyaban B Ratna</b> , Co-convener, IMD, Pune
10.00 – 10.30	Climate Services in India: An Overview	<b>Sh. K.S. Hosalikar</b> , Head, CRS, IMD Pune
10.30 – 11.15	<b>Group Photo (at Main Gate) and Tea Break</b>	
11:15 – 13:00	<b>Session I: Global and National Frameworks for Climate Services</b> <b>Chair: Dr. A. K. Sahai Co-chair: Dr Saji Mohandas</b>	
11.15 – 11.40	Needs, capacities and potential benefits of NFCS in India	<b>Dr. Rupa Kumar Kolli</b> , Vice-chair of WMO SC on Climate Services
11.40 – 12.05	NFCS initiative in India: Background and potential roles of central and state agencies	<b>Dr. Satyaban B. Ratna</b> , CRS, IMD, Pune
12.05 – 12.30	Climate Services and ISRO	<b>Dr. Rajashree Bothale</b> , National Remote Sensing Centre, ISRO, Hyderabad
12.30 – 13.00	GFCS Background and current status: Examples of NFCS implementation in other countries	<b>Prof. Chris Hewitt</b> , Director of Climate Services Branch, WMO, Geneva (Online)
13.00 – 14.00	<b>Lunch Break</b>	

<b>14.00 – 15.15</b>	<b>Session II: User Perspectives of Climate Services</b> <b>Chair: Dr. M. Rajeevan      Co-chair: Dr. Santanu Kumar Bal</b>	
14.00 – 14.15	Climate Services for agriculture and food security	<b>Dr. Nataraja Subash</b> , ICAR-Indian Agricultural Research Institute (Ministry of Agriculture), New Delhi
14.15 – 14.30	Climate Services for Public health	<b>Dr. Aakash Shrivastava</b> , National Centre for Disease Control (Ministry of Health), Delhi
14.30 – 14.45	Climate Services for Water management	<b>Sh D S Chaskar</b> , National Water Academy, Ministry of Water Resources
14.45 – 15.00	Climate Services for Energy	<b>Dr. Goutam Das</b> , National Power Training Institute (Ministry of Power)
15.00 – 15.15	Climate Services for Disaster risk reduction	<b>Dr. Anshul Agarwal</b> , Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES), Thailand
<b>15.15 – 16.15</b>	<b>Session III: NFCS and Role of State Governments</b> <b>Chair: AVM. Dr. Ajit Tyagi      Co-chair: Dr Pradeep Thapliyal</b>	
15.15 – 16.15	Discussion on the Role of State Governments in the implementation of NFCS-India Officials from State Governments (5-7 minutes each)	<b>Er. Tana Tage</b> , Govt. of Arunachal Pradesh <b>Dr. Pooja Rana Kundra</b> , Govt. of Uttarakhand <b>Sh Animesh Das, IAS</b> , Govt. of Tripura <b>Sh. Anindya Kumar Bhattacharya, IAS</b> , Govt. of Tripura <b>Dr. K.P. Sudheer</b> , Govt. of Kerala <b>Ms. Kimnei Changsan</b> , Govt. of Assam <b>Dr. M. M. Ali</b> , Govt. of Andhra Pradesh <b>Sh Amrinder Singh</b> , Govt. of Punjab <b>Sh.Vikash Kumar Singh</b> , Uttar Pradesh
<b>16.15 – 16.45</b>	<b>Tea Break</b>	
<b>16.45 – 18.00</b>	<b>Session IV: Breakout Session:</b> <b>Consolidation of National Capacities in GFCS Pillars and report preparation</b>	
	<i>All participants will be divided into five groups in separate five rooms according to the five pillars of the GFCS</i>	
	<b>Group 1:</b> Observations and Monitoring	Moderator: <b>Dr. J. V. Thomas</b> , ISRO Group Coordinator: <b>Dr. Shijo Zacharia</b> Rapporteur: <b>Mr Sudarsan Patro</b>
	<b>Group 2:</b> Research, Modelling and Prediction	Moderator: <b>Dr Surya A. Rao</b> , IITM Group Coordinator: <b>Dr. O. P. Sreejith</b> Rapporteur: <b>Dr Sudeep B. L.</b>
	<b>Group 3:</b> Climate Services Information System	Moderator: <b>Dr. Pulak Guhathakurta</b> , IMD Group Coordinator: <b>Dr Rajib Chattopadhyay</b> Rapporteur: <b>Dr Asha Latwal</b>
	<b>Group 4:</b> User Interface Platform	Moderator: <b>Dr. D. S. Pai</b> , IMD Group Coordinator: <b>Dr. K. Niranjan Kumar</b> Rapporteur: <b>Dr Divya Surendran</b>
	<b>Group 5:</b> Capacity Development	Moderator: <b>Dr. D. R. Pattanaik</b> Group Coordinator: <b>Dr. D. R. Pattanaik</b> Rapporteur: <b>Mr Ranjan Phukan</b>
<b>18.00 – 19.00</b>	<b>Cultural Program at the venue</b>	<b>By the Students from CHRIST University</b>
<b>19.00 – 21.00</b>	<b>Dinner at the Venue</b>	

## Day 2: 6 October 2023

<b>09.00 – 10.00</b>	<b>Session V: Views from stakeholders</b> <b>Chair: Dr. S. Balachandran Co-chair: Dr. Sanjib Bandyopadhyay</b>	
09.00 – 10.00	Views from stakeholders (5 minutes each)	<b>Abhiyant Tiwari</b> , NRDC <b>Pushpa S</b> , GRID India <b>Nitin Bassi</b> , CEEW <b>Nidhi Jamwal</b> , Gaon Connection <b>Anjali Marar</b> , Indian Express <b>Capt TS Ramanathan</b> , Indian Navy <b>Dr. Lija Jacob</b> , CHRIST University <b>Dr. Bijendra Kumar Baghel</b> , Government of Madhya Pradesh
<b>10.00 – 10.30</b>	<b>MoU signing between IMD and CU</b>	
10.00 – 10.30	Welcome to Dr. M. Mohapatra, DGM, IMD Address by Dr. M. Mohapatra, DGM, IMD Signing of MoU between IMD and CU <b>(Dr. M. Mohapatra, DGM, IMD and Dr Fr Lijo Thomas, Director, Christ University)</b>	
<b>10.30 – 11.00</b>	<b>Tea Break</b>	
<b>11.00 – 12.00</b>	<b>Session VI: Breakout Group Reports and Discussion</b> <b>Chair: Dr. M. Mohapatra Co-chair: K.S. Hosalikar</b>	
11.00 – 12.00	Group 1: Observations and Monitoring Group 2: Research, Modelling and Prediction Group 3: Climate Services Information System Group 4: User Interface Platform Group 5: Capacity Development	<b>Dr. J. V. Thomas</b>  <b>Dr Surya A. Rao</b>  <b>Dr. Pulak Guhathakurta</b>  <b>Dr. D. S. Pai</b>  <b>Dr. D. R. Pattnaik</b>
<b>12.00 – 13.00</b>	<b>Session VII: Towards the Establishment of NFCS-India</b>	
12.00 – 13.00	Discussion on Draft NFCS-India Workshop Statement	<b>Dr M. Rajeevan</b> , NCESS <b>Dr M. Mohapatra</b> , IMD <b>Dr. Rupa Kumar Kolli</b> , IMS & WMO SCCS <b>Dr. J. V. Thomas</b> , ISRO <b>Sh Abhiyant Tiwari</b> , NRDC <b>Sh. Anindya Kumar Bhattacharya</b> , Government of Tripura
13.00 – 13.10	Distribution of certificate	
13.10 – 13.15	vote of thanks	<b>K. S. Hosalikar</b> , Head, CRS, IMD, Pune
<b>13.15 – 14.15</b>	<b>Lunch at the Venue</b>	
	<b>End of Stakeholder Consultation Workshop on NFCS-India</b>	