

Impact-based Forecasting Workshop**IITM Pune during 29-30 Nov 2019****Attendees:****UK Participants:**

- 1) Joanne Robbins (WCSSP India Met Office WP3 Lead)
- 2) Tracy Small (WCSSP India – Project Manager)
- 3) Ken Mylne
- 4) Catrina Johnson
- 5) Gregory Wolverson
- 6) Prakash Narayanan
- 7) Hannah Tuffin
- 8) Steven Cole (Centre for Ecology and Hydrology – Principal Investigator for IND7)
- 9) Timothy Aldridge (Health and Safety Executive – Principal Investigator for IND6)

India Participants**IITM:**

- 1) Dr. (Mrs.) Medha Deshpande
- 2) Dr. P. Mukhopadhyay, Scientist 'E' (or his nominee)
- 3) Dr. Vinu K. Valsala, Scientist 'E'

NCMRWF:

- 1) Dr. Ragvendra Ashrit, Scientist 'F'
- 2) Dr. Abhijit Sarkar, Scientist 'E'
- 3) Dr S. Karunasagar , Project Scientist 'C'
- 4) Sh. Harvir Singh, Project Scientist 'C'

NCCR:

- 1) Dr. Tune Usha, Scientist 'F'
- 2) Dr. Umasankar Panda, Scientist 'E'
- 3) Dr. S.K.Dash, Scientist 'E'

INCOIS:

- 1) Dr. Hari Kumar, Scientist 'D'
- 2) Mr. Lijo Abraham, SRF

NRSC:

- 1) Dr. S.S.Prijith, Sc./Engg - SE

IMD:

- 1) Dr. R.K.Jenamani, Scientist F (Topic : Heavy Rainfall and Fog)
- 2) Dr. Pulak Guhathakurta, Scientist F (Topic – Hydrology and Health)
- 3) Dr. Kripan Ghosh, Scientist E (Topic – Agriculture)
- 4) Dr. Soma Sen Roy, Scientist E (Topic – Thunderstorm and Lightning)
- 5) Dr. Sunitha Devi, Scientist E (Topic – Cyclone)
- 6) Dr. Naresh Kumar, Scientist E (Topic – Heat Wave)
- 7) Dr Ananda Das, IMD Delhi (Topic – NWP in Impact Based Forecasting)
- 8) Mr. Atul Kumar, Scientist C (Topic – Impact based forecasting in North East Region)
- 9) Mr. Asok Raja, Scientist C (Topic – Flash Flood Guidance System)
- 10) Dr. D.S.Pai, Scientist 'F'
- 11) Mr. Shobit Katiyar, Scientist 'C'

Presentations from Indian participants:

No	Subject	Author	Organisation	Type of Presentation
1	Impact based forecasting of Tropical Cyclones over the north Indian Ocean	Mrs Sunitha Devi	IMD	Oral
2	IBF for drought and flood monitoring and management	Pulak Guhathakurta	IMD	Oral
3	IBF Heavy rainfall and Fog	RK Jenamani and Sri S. Katiyar	IMD	Oral
4	Impact based forecasting for Thunderstorm and associated phenomena	Soma Sen Roy. et al	IMD	Oral
5	Impact Based Agromet Advisory Services in India	K. Ghos et al	IMD	Oral
6	Prediction & impact-based forecast for Heat Waves issued by India Meteorological Department	Naresh Kumar	IMD	Oral
7	Impact Based Forecasting in North East India	Atul Kumar Singh, S. Das and M. Mohapatra	IMD	Poster
8	NWP in Impact Based Forecasting	Anand Das	IMD	Poster
9	South Asia Flash Flood Guidance System (Impact based forecast tools)	Asok Raja	IMD	Poster
10	'Satellite based environmental indicators for IBF: NICES Initiatives'	S. S. Prijith et al.	NRSC, ISRO	Poster
11	Developing an Impact Based Ocean State Forecasting and Warning System: for Saving Life and Property	R. Harikumar et al.	INCOIS	Poster
10	Probabilistic Forecasting of extreme weather events by NCMRWF ensemble forecasting systems	Abhijit Sarkar et al.	NCMRWF	Poster
11	Verification Methods for High Impact Weather	Raghavendra Ashrit	NCMRWF	Poster
12	Ocean response to Tropical Cyclone Vayu	Lijo Abraham Joseph	INCOIS	Poster
13	Disaster risk reduction using impact based early warning systems	Tune Usha	NCCR	Poster

Presentations from UK participants:

No	Subject	Author	Organisation	Type of Presentation
1	Forecasting high-impact weather using weather pattern forecasts – Examples from the UK	Robert Neal, et al.	Met Office, UK	Oral
2	Sector-focused, seasonal impact-based forecasting for UK transport	Catrina Johnson et al	Met Office, UK	Oral
3	Impact Based Forecasting – An Operational Perspective	Gregory Wolverson et al.	Met Office, UK	Oral
4	Developing common approaches for understanding disaster risk	Timothy Aldridge et al.	Health and Safety Executive, UK	Oral
5	A Surface Water Flooding Hazard Impact Model (SWF HIM) for England & Wales	Steven Cole et al.	Centre for Ecology & Hydrology,	Oral
6	Asia Regional Resilience to a Changing Climate (ARRCC): Programme Overview	Prakash Narayanan et al.	Met Office, UK	Poster
7	Semi-automated impact-based evaluation of the Global Hazard Map	Joanne Robbins and Helen Titley	Met Office, UK	Poster
8	A seamless approach to disaster risk management drawing on our seamless weather and climate science and modelling capability	Jane Strachan	Met Office, UK	Poster
9	Developing a hazard impact model to support impact-based forecasts and warnings: The Vehicle Overturning (VOT) Model	Joanne Robbins et al.	Met Office, UK	Poster