



TERI – Uni Research Climate Research School on Extremes

18th – 22nd September 2017

TERI University, Vasant Kunj, New Delhi

Final Agenda

Day 1 September 18th

Time		Speaker
9:00 – 9:30 am	Registration	
	Inaugural Session	
10:00 – 10:10 am	Welcome Address	Dr. Ajay Mathur Director General, TERI
10:10 – 10:15 am	Video Address	Dr. Trond Dokken, Research Director, Uni Research
10:15 – 10:25 am	Special Address	HE Nils Ragnar Kamsvåg Ambassador, Royal Norwegian Embassy
10:25 – 10:35 am	Inaugural Address	Dr. M. Rajeevan Secretary, Ministry of Earth Science, India
10:35 – 10:40 am	Concluding remarks	Dr. Leena Srivastava Vice Chancellor, TERI University
10:40 – 10:50 am	Group Photograph	
10:50 – 11:20 am	High Tea	

Invited Talks

Time	Topic	Speaker
11:30 am – 12:30 pm	Climate change and the Asian monsoon: the role of greenhouse gases and aerosol	Dr. Andrew Turner University of Reading
12:30 – 1:30 pm	Observed Analysis of Heavy Rainfall over Indian Region	Dr. O. P. Sreejith IMD, Pune
1:30 – 2:30 pm	Lunch	
2:30 – 3:30 pm	Role of Oceans in modulating regional extremes	Dr. Roxy Mathew Koll IITM, Pune
3.30 – 4.00 pm	Tea	
4:15 – 5:15 pm	Regional Dynamical processes of relevance for climate extremes	Dr. Krishna AchutaRao IIT-Delhi
5:15 – 6:30 pm	Participant introduction and group formation and Paper assignments to groups	
7:00 pm onwards	Research School Dinner	

End of day 1: each group receives a paper related to the project work they will do for day 4. On day 5, they need to give a 10 minute presentation on the paper.

Day 2 September 19th
Theory of Extremes

Time	Topic	Speaker
9:00 – 10:00 am	Mid latitude interactions, the subtropical jet and western disturbances and their role in extreme events in northern India.	Dr. Andrew Turner University of Reading
10:00 – 11:00 am	Large-scale tropical and inter-hemispheric circulation and the dynamics of the ITCZ	Dr. Thomas Toniazzo Uni Research
11:00 – 11:05am	Tea	
11:05 – 12:00 noon	Evolution of the circulation in the Indian Ocean during boreal Spring, and its coupling with oceanic convection and Monsoon onset	Dr. Thomas Toniazzo Uni Research
12:00 – 1:00 pm	Mathematics of Extremes (with examples from Climate Science - I	Prof. Valerio Lucarini University of Reading
1:00 – 2:00 pm	Lunch	
2:00 – 3:00 pm	Mathematics of Extremes (with examples from Climate Science - II	Prof. Valerio Lucarini University of Reading
3:00 – 4:00 pm	Introduction to R (M2lab.org)	Dr. Michel d.S. Mesquita Uni Research
4.00 – 4:05 pm	Break for Tea	
4:05 – 5:00 pm	Introduction to R (continuation)	Dr. Michel d.S. Mesquita Uni Research

Day 3 September 20th
Making sense of climate data

Time	Topic	Speaker
8:00 – 9:00 am (Via Skype session)	Data analysis with R - I (what to do with data, plots)	Dr. Indrani Pal NOAA-CREST, USA
9:00 – 10:00 am	Data analysis with R - II (what to do with data, plots)	Dr. Indrani Pal NOAA-CREST, USA
10.00 – 10.15 am	Tea (served in)	
10:15 – 11:00 noon	Analysis of Extremes (including return curves)	Dr. Michel d.S. Mesquita Uni Research
11:00 – 12:00 pm	Bayesian analysis of extremes	Dr. Michel d.S. Mesquita
12:00 – 1:00 pm	Lunch	
1:00 – 2:00 pm	Lab - Bayesian analysis of uncertainty extremes	Dr. Michel d.S. Mesquita Uni Research
2:00 – 3:00 pm	Analysis of climate Extremes - I Project work (heat waves, precipitation, variability, uncertainty)	George Pedra, INMET and team
3:00 – 3:15 pm	Tea	
3:15 – 5:00 pm	Analysis of climate Extremes - II	George Pedra and team

**Day 4 September 21st
Climate data analysis**

Time	Topic	Speaker
9:30 – 10:45 am	How to Write a good scientific paper (+ task of writing a 1-2 page report with results, which will be uploaded to CRS's website)	Dr. Michel d.S. Mesquita Uni Research
10.45 – 11:00 am	Tea	
11:00 – 1:00 noon	Analysis of climate Extremes - III Project work (heat waves, precipitation, variability, uncertainty)	George Pedra, INMET and team
1:00 – 2:00 pm	Lunch	
2:00 – 3.45 pm	Analysis of climate Extremes - IV Project work (heat waves, precipitation, variability, uncertainty)	George Pedra, INMET and team
3:45 – 4:00 pm	Tea	
4:00 pm onwards	TERI University Tour	

**Day 5 September 22nd
Valedictory and feedback**

Time	Topic	Speakers
9:00 am – 12:00 noon	Participant Presentations Each group to present their analysis and scientific report (20 minutes each)	
11:00 am	Tea (served in)	
12.00 – 1.00 pm	Valedictory session: Invited lecture on Sea Ice simulation in a Coupled Model	Dr. Ashis K Mitra, NCMRWF, Noida
1:00 – 2.00 pm	Lunch	
2:00 – 3:00 pm	Certificates distribution	