

TERI-BCCR Climate Research School – III on Statistical Downscaling

25th – 29th November 2013

TERI University, Vasant Kunj, New Delhi

Agenda

Day1 25th November

Time		Speaker
8:30 – 9:00 am	Registration	
Inaugural Session		
9:00 – 9:05 am	Welcome Address	Dr. R.K. Pachauri Director General, TERI and Chancellor, TERI University
9:05 – 9:10 am	Video Message	Prof. Eystein Jansen Director, BCCR
9:10 – 9:15 am	Special Address	Mr. Håvard Hugås Counsellor, Royal Norwegian Embassy
9:15 – 9:20 am	Inaugural Address	Dr. Shailesh Nayak Secretary, MoES, GoI
9:20 – 9:25 am	Vote of Thanks	Dr. Rajiv Seth Registrar, TERI University
9:25 – 10:00 am	Tea	
Technical sessions		
Time	Topic	Speaker
10:00 – 11:30 am	Introduction to Climate System and Variability	Prof. K. Mohan Kumar, CUSAT
11:30 am – 12:30 pm	Tele-connections in Climate	Dr. M. Rajeevan, MoES
12:30 – 1:30 pm	Lunch Break	
1:30 – 3:30 pm	Role of Atmosphere in Climate	Prof. K. Mohan Kumar, CUSAT
3:30 – 3:45 pm	Tea Break	
3:45 – 4:45 pm	Role of Ocean in Climate	Dr. Madhusoodanan M.S. TERI

Day2 26th November

Time	Topic	Speaker
9:00 – 10:00 am	Climate Modelling – I Introduction and basics	Dr. Michel d S Mesquita, BCCR, Uni Research
10:00 – 10:45 am	Introduction to Statistical Downscaling - I Definitions; Philosophy	Dr. Rasmus Benestad/ Dr. Abdelkader Mezghani Met.no
10:45 – 11:00 am	Tea Break	
11:00 – 11:45 am	Introduction to Statistical Downscaling - II Definitions; Philosophy	Dr. Rasmus Benestad/ Dr. Abdelkader Mezghani Met.no
11:45 am – 1:00 pm	Climate Modelling – II Applications, case study, downscaling	Dr. Michel d S Mesquita, BCCR, Uni Research
1:00 – 1:45 pm	Lunch Break	
1:45 – 2:30 pm	Improvements over three generations of climate model simulations for eastern India	Dr. Lalu Das, BCKV
2:30 – 3:30 pm	Introduction to Linux	Saurabh Bhardwaj, TERI
3:30 – 3:45 pm	Tea Break	
3:45 – 4:30 pm	Methods and preprocessing - I EOF and de-trending; domain size; predictor choice	Dr. Rasmus Benestad/ Dr. Abdelkader Mezghani Met.no
7:00 pm onwards	Conference Dinner	

Day3 27th November

Time	Topic	Speaker
9:00 – 9:45 am	Methods and preprocessing - II EOF and de-trending; domain size; predictor choice	Dr. Rasmus Benestad/ Dr.Abdelkader Mezghani Met.no
9:45 – 10:30 am	Predictions & diagnostics – I Linear methods: LM, GCL, CCA; non-linear methods: analogs	Dr. Rasmus Benestad/ Dr.Abdelkader Mezghani Met.no
10:30 – 10:45 am	Tea Break	
10:45 – 11:30 am	Predictions & diagnostics – II Linear methods: LM, GCL, CCA; non-linear methods: analogs	Dr. Rasmus Benestad/ Dr.Abdelkader Mezghani Met.no
11:30am – 12.30 pm	Writing and Presentation skills in Climate Sciences	Dr. Michel d S Mesquita, BCCR, Uni Research
12:30 – 1:30 pm	Lunch Break	
1:30 – 2:15 pm	Validation & limitations of the statistical downscaling approach – I Diagnostic of GCM skill; ESD-skill; out-of-sample tests; physics considerations	Dr. Rasmus Benestad/ Dr.Abdelkader Mezghani Met.no
2:15 – 3:15 pm	Introduction to R statistical package	Dr. Michel d S Mesquita, BCCR, Uni Research
3:15 – 3:30 pm	Tea break	
3.30 pm onwards	Lab (R and other tools) continued	

Day4 28th November

Time	Topic	Speaker
9:30 – 10:15 am	Validation & limitations of the statistical downscaling approach – II Diagnostic of GCM skill; ESD-skill; out-of-sample tests; physics considerations	Dr. Rasmus Benestad/ Dr.Abdelkader Mezghani Met.no
10:15 – 10:30 pm	Tea Break	
10:30 – 11:30 pm	Training session with new R-package 'esd'- I	Dr. Rasmus Benestad/ Dr.Abdelkader Mezghani Met.no
11:30 – 12:30 pm	Training session with new R-package 'esd'- II	Dr. Rasmus Benestad/ Dr.Abdelkader Mezghani Met.no
12:30 – 1:30 pm	Lunch Break	
1:30 – 2.45 pm	Training session with new R-package 'esd'- III	Dr. Rasmus Benestad/ Dr.Abdelkader Mezghani Met.no
3.00 – 3:15 pm	Tea Break	
3:15 pm onwards	Lab Sessions continued	

Day5 29th November

Time	Topic	Speakers
9:00 – 10:30 am	Nowcasting in Aviation with special reference to flying in mountains	Gr. Capt. R.K. Mehajan, Scientist, MoES
10.30 – 10.45 am	Tea break	
11:00 am – 12.30 pm	Invited Lecture on Coupled Modelling	Dr. A.K. Mitra Scientist, NCMRWF
12:30 – 1:30 pm	Lunch Break	
2:00 – 3:00 pm	Valedictory session	