

EGU CL2.6 remote session

Detecting and attributing climate change: trends, extreme events, and impacts

Thursday 6 May 2020, 8:30 -- 12:30 CET

<https://us02web.zoom.us/j/81871096177>

Oral presentations (15 minutes each - 12 minutes of presentation + 3 minutes of questions)

Long term trends detection and attribution (Chair : Aurélien Ribes)

8:30 - 8:40 Welcome + session introduction - *Conveners*

8:40 - 8:55 The projected slow-down of mid-latitude temperature anomalies - *Kai Kornhuber and Talia Tamarin-Brodsky*

8:55 - 9:10 Characterizing and detecting climate signals in observations and models using statistical learning - *Sebastian Sippel, Nicolai Meinshausen, Erich Fischer, Eniko Szekely, and Reto Knutti*

9:10 - 9:25 The vertical profile of tropical temperature trends: Persistent model biases in the context of forced and internal variability - *Dann Mitchell, Eunice Lo, William Seviour, and Lorenzo Polvani*

9:25 - 9:40 Human influence strengthens the contrast between tropical wet and dry regions - *Andrew Schurer, Gabriele Hegerl, Andrew Ballinger, and Andrew Friedman*

9:40 - 9:55 Relative Contribution of Anthropogenic Forcing and Natural Processes to Rainfall Variability over Victoria, Australia - *Surendra Rauniyar and Scott Power*

9:55 - 10:10 Dry season water availability changes attributed to human-induced climate change - *Ryan S. Padrón, Lukas Gudmundsson, Agnès Ducharne, David M. Lawrence, Jiafu Mao, Daniele Peano, Bertrand Decharme, Gerhard Krinner, Hyungjun Kim, and Sonia I. Seneviratne*

10:10 - 10:40 Coffee break - grab a tea or coffee in your kitchen

Extreme event attribution (Chair : Aglaé Jézéquel)

[CANCELLED] 10:25 - 10:40 Multi-method event attribution of 2015 OND drought in subtropical southern Africa - *Neven Fuckar, Friederike Otto, Flavio Lehner, Piotr Wolski, Emma Howard, and Sarah Sparrow*

10:40 - 10:55 UNSEEN trends: Towards detection of changes in 100-year precipitation events over the last 35 years - *Timo Kelder, Malte Müller, Louise Slater, Rob Wilby, Patrik Bohlinger, Tim Marjoribanks, Christel Prudhomme, Anita Dyrddal, Thomas Nipen, and Laura Ferranti*

10:55 - 11:10 A Multi-model Assessment of the Changing Risks of Extreme Rainfall Events in Bangladesh under 1.5 and 2.0 degrees' warmer worlds - *Ruksana Rimi, Karsten Haustein, Emily Barbour, Sarah Sparrow, Sihan Li, David Wallom, and Myles Allen*

11:10 - 11:25 Attributing Chinese Hydrological Extreme Events - *Simon Tett and the The CSSP China Event Attribution Team*

11:25 - 11:40 The Extreme Weather Event Real-time Attribution Machine (EWERAM) – An Overview - *Jordis Tradowsky, Greg Bodeker, Leroy Bird, Stefanie Kremser, Peter Kreft, Iman Soltanzadeh, Johannes Rausch, Sapna Rana, Graham Rye, Andy Ziegler, Suzanne Rosier, Daithi Stone, Sam Dean, James Renwick, David Frame, and Adrian McDonald*

11:40 - 11:50 Coffee break - grab a tea or coffee in your kitchen

Poster presentations (5 minutes each - 3 minutes of presentation + 2 minutes of questions)

11:50 - 11:55 Sensitivity of trends to estimation methods and quantification of subsampling effects in global radiosounding temperature and humidity time series - *Souleymane Sy, Fabio Madonna, Emanuele Tramutola, Marco Rosoldi, Monica Proto, and Gelsomina Pappalardo*

11:55 - 12:00 Boosting climate change research with direct access to high performance computers - *Maria Moreno de Castro, Stephan Kindermann, Sandro Fiore, Paola Nassisi, Guillaume Levavasseur, Martin Juckes, Ag Stephens, Karsten Peters, Sophie Morellon, and Sylvie Joussaume*

12:00 - 12:05 Simulation of the observed climate extremes trends during 1901–2010 with INMCM5 - *Maria Tarasevich and Evgeny Volodin*

12:05 - 12:10 Towards multi-method and multi-scale attribution of global wildfire danger - *Zhongwei Liu, Jonathan Eden, Bastien Dieppois, and Matthew Blackett*

12:10 - 12:15 Impact of parametric uncertainty on simulated climate extremes and attribution studies - *Ben Timmermans, William Collins, Travis O'Brien, Dáithí Stone, and Mark Risser*

12:15 - 12:20 Analysis of Precipitation Patterns and Extremes in European Lowlands - *Alexandra Berényi, Judit Bartholy, and Rita Pongrácz*

12:20 - 12:25 Changes in temperature and heat waves over Africa using observational and reanalysis datasets - *Mastawesha Misganaw Engdaw, Gabriele C Hegerl, and Andrea K. Steiner*

12:25 - 12:30 No evidence for climate change in the unprecedented Summer 2018 flow over Europe - *Carley Iles and Robert Vautard*