ISI Publications


[43] M. Kretschmer, D. Coumou, L. Agel, M. Barlow, E. Tziperman, J. Cohen, More frequent weak stratospheric polar vortex states linked to cold extremes, BAMS (in review)


[40] K. Kornhuber, D. Coumou, V. Petoukhov, S. Petri, S. Rahmstorf, Evidence for wave resonance as a key mechanism for generating high-amplitude quasi-stationary waves in boreal summer, Climate Dynamics (accepted)


[38] D. Coumou, K. Kornhuber, V. Petoukhov, Weakened Flow, Persistent Circulation and Prolonged Extreme Weather Events in Boreal Summer, in Climate Extremes: Mechanisms and Potential Prediction, S. Wang et al. (Eds.), AGU Monograph, American Geophysical Union (in print)


Selected Media Contributions & Technical Reports

—> For some recent media appearances: www.pik-potsdam.de/members/coumou/dim-coumou

2014 D. Coumou, Rossby waves and surface weather extremes, RealClimate.org, 10 July 2014


S. Rahmstorf and D. Coumou, Extremely hot, RealClimate.org, 26 March 2012

2011 S. Rahmstorf and D. Coumou, The Moscow Warming Hole, RealClimate.org, 26 October 2011

2010 J. Kurths, I. Brauer, M. Flechsig, S. Petri, W. von Bloh, D. Coumou, N. Botta, Towards a PIK-specific modeling strategy, PIK, Germany

2006 D. Coumou, CSP 5.0 - Parallel Computation Users Manual, ETH-Zurich, Switzerland

2004 D. Coumou, Red Sea pipeline route survey offshore Ras Gharib - Survey Results, Thales GeoSolutions, Egypt

Selected Invited Public & Scientific Lectures


"Using causal discovery algorithms to identify drivers of anomalous mid-latitude circulation", The role of atmospheric circulation in regional climate change, workshop organised by University of Reading, Reading, UK, Apr 2016


"Climate Services from a Scientific Perspective", PPCR Climate Services, workshop organised by The World Bank and the Climate Investment Funds, Frascati, Italy, July 2015


2014  "Jet stream visualization to detect anomalous circulation regimes associated with extreme weather events". Max Planck Institute for Informatics, Saarbrücken, Germany, May. 2014

2013  "Climate Change and Extreme Weather Events" (invited). AGU Fall Meeting, San Francisco, US


2010  "Climate Change: Facts and Future Impacts", 5th Executive Seminar for Diplomats from Latin America and the Caribbean, German Federal Foreign Office, Berlin, Oct. 2010


2008  "Climate Change: Scientific Basis, Future Risks and Solutions", Diplomats’ College, organized by German Federal Foreign Office, Potsdam Institute for Climate Impact Research, Potsdam, May 2009