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Simon Wild

Doctoral Researcher

School of Geography, Earth and Environmental Sciences (/schools/gees/index.aspx)

Contact details

Telephone +44 (0)121 414 5557 (tel:+44 121 414 5557)

Email sbw206@bham.ac.uk (mailto:sbw206@bham.ac.uk)

School of Geography, Earth and Environmental Sciences
University of Birmingham
Edgbaston
Birmingham
B15 2TT
UK

About

Title of PhD: Twentieth Century Storminess: Developing a coherent understanding of long-term trends and decadal variability

Supervisors: Dr Gregor Leckebusch (/staff/profiles/gees/leckebusch-gregor.aspx) , Dr Martin Widmann (/staff/profiles/gees/widmann-martin.aspx)

Simon Wild is a Meteorologist specializing in extreme climate events, their underlying atmospheric processes and socioeconomic impacts. His doctoral research focuses on extra-tropical cyclones, associated extreme wind speeds and coherent physical mechanisms on synoptic to multi-decadal time scales.

Biography

Simon undertook a BSc in Meteorology as well as an MSc in Meteorology at Freie Universität Berlin, Germany (FUB). During his studies at FUB he worked for four years as a research assistant. Simon firstly joined the University of Birmingham as a Research Associate in November 2011. Following a visit at the Climate Change Research Centre in Sydney, Australia, he started a PhD in Atmospheric Science under supervision of Dr Gregor Leckebusch and Dr Martin Widmann here in Birmingham in September 2012.

Teaching

Lecturer in Applied Meteorology and Climatology Masters course
Atmospheric Data Processing & Statistics (Programming component)

Postgraduate demonstrator and field course assistant for MSc and BSc modules

Co- supervisor of numerous MSc and BSc dissertations

Research

Research groups

Climate and atmosphere
Environmental health (/research/activity/environmental-health/index.aspx)

Research Interests

Climatological and dynamical analysis of extreme meteorological events in observations and climate model simulations

Extra-tropical cyclones (ETC)

- Statistical and dynamical analysis of high wind speeds
- Synoptic to (multi-) decadal variability of intensity and frequency of ETCs
- Estimation of losses and socio-economic impacts

Extra-tropical influence on Indian summer monsoon variability

Variability and predictability of precipitation in East Africa

Other activities

- Associate Fellow of the Royal Meteorological Society
- Member of the European Geophysical Union
- Member of the Deutsche Meteorologische Gesellschaft (German Meteorological Society)
- Major coordinator of the Studentische Meteorologen Tagung (Students' Meteorological Conference) for students from Germany, Austria and Switzerland in 2011
- Member of the Fachschaft Meteorologie (Meteorology Students' Council) at FUB (2007-2011)

Publications

Peer reviewed publications:

Donat, MG, J Sillmann, **S Wild**, LV Alexander, T Lippmann, F Zwiers. 2014
Consistency of Temperature and Precipitation Extremes across Various Global Gridded In Situ and Reanalysis Datasets
(http://journals.ametsoc.org/doi/abs/10.1175/JCLI-D-13-00405.1?af=R)
Journal of Climate. DOI: 10.1175/JCLI-D-13-00405.1 (in press)

Wild, S and GC Leckebusch. 2014 (in preparation)
Influence of magnitude and location of tropospheric growth factors for the transformation of cyclones to severe storms over the North Atlantic

Donat, MG, D Renggli, **S Wild**, LV Alexander, GC Leckebusch, U Ulbrich. 2011
Reanalysis suggests long term upward trends in European storminess since 1871
(http://www.agu.org/pubs/crossref/2011/2011GL047995.shtml) **Geophysical Research Letters**. Vol 38. L14703. DOI:10.1029/2011GL047995

Donat, MG, GC Leckebusch, **S Wild**, U Ulbrich. 2011
Future changes of European winter storm losses and extreme wind speeds
implied from outputs of multi-model GCM and RCM simulations.
(http://www.nat-hazards-earth-syst-sci.net/11/1351/2011/nhess-11-1351-2011.pdf) **Natural Hazards Earth System Sciences**. Vol 11. 1351-1370. DOI:10.5194/nhess-11-1351-2011

Donat, MG, GC Leckebusch, **S Wild,** U Ulbrich. 2010:
Benefits and limitations of regional multi-model ensembles for storm loss estimations.
(http://www.int-res.com/articles/cr_oa/c044p211.pdf) **Climate Research**. Vol 44. 211-225. DOI: 10.3354/cr00891.

Conference contributions:

Wild, S, T Kruschke, GC Leckebusch:
The role of baroclinic instability for the transformation of cyclones to severe storms over the North Atlantic.
3rd European Windstorm Workshop. Exeter, UK 2013.

Wild, S, Donat, MG, J Sillmann, LV Alexander, T Lippmann, F Zwiers:
Comparison of climate extremes across various global gridded in situ and reanalysis datasets.
13th EMS Annual Meeting. Reading, UK, 2013

Wild, S, T Kruschke, GC Leckebusch:
The role of baroclinic instability for the transformation of cyclones to severe storms over the North Atlantic.
13th EMS Annual Meeting. Reading, UK, 2013

Donat, MG, LV Alexander, H Yang, J Sillmann, **S Wild**:
Trends in temperature and precipitation extremes analysed from global observational datasets in comparison to reanalyses and climate model data.
Davos Atmosphere and Cryosphere Assembly - DACA. Davos, Switzerland, 2013.

Wild, S, T Kruschke, GC Leckebusch:
Identification and tracking algorithms for extra-tropical cyclones and extreme wind speeds.
4th BEAR PGR Conference, Birmingham. UK, 2013. **(1st Poster Prize)**

Wild, S and GC Leckebusch:
Surface wind storms in relation to mid-tropospheric baroclinicity.
EGU General Assembly. Vienna, Austria 2013.

Kruschke, T, HW Rust, B Schyska, **S Wild**, GC Leckebusch, U Ulbrich:
Decadal variability and extremes of European winter storm frequency according to the Twentieth Century Reanalysis – a process-oriented analysis.
EGU General Assembly. Vienna, Austria 2013.

Sillmann, J, MG Donat, **S Wild**, LV Alexander, F Zwiers, S Kharin, X Zhang:
Combining global observational, reanalysis and multi-model ensemble datasets in the trend analysis of climate extremes and Impacts in Multi-Model Simulations.
AGU Fall Meeting. San Francisco, CA, USA, 2012

Wild, S, T Kruschke, B Schyska, HW Rust, GC Leckebusch, U Ulbrich
Winter storms in Twentieth Century Renanalysis and its decadal variability.
2nd European Windstorm Workshop. Leeds, UK 2012.

Wild, S, GC Leckebusch, DJ Befort, U Cubasch:
South Asian Monsoon Variability and its Relation to Midlatitude Teleconnections
Geophysical Research Abstracts. Vol. 14, EGU2012-9974.
EGU General Assembly. Vienna, Austria 2012.

Wild, S, JM Eden, M Widman, GC Leckebusch:
Spatial structure and potential predictability of summer precipitation in Ethiopia
Geophysical Research Abstracts. Vol. 14, EGU2012-10729.
EGU General Assembly. Vienna, Austria 2012.

Wild, S, T Kruschke, MG Donat, D Renggli, GC Leckebusch, U Ulbrich:
Losses due to Severe Wind Storms over Europe in a Future Climate.
UN - International Scientific Congress on Climate Change: Global Risks, Challenges & Decisions.
Copenhagen, Denmark 2009.

Kruschke, T, HW Rust, B Schyska, **S Wild**, GC Leckebusch, U Ulbrich:
Decadal Variability and Extremes of European Winter Storm Frequency and Intensity
3rd International Conference on Earth System Modelling.
Hamburg, Germany, 2012

Eden, JM, M Widmann, M, **S Wild**, GR Evans, JG Hughes:
Pacific SST influence on spring precipitation in Addis Ababa, Ethiopia
Geophysical Research Abstracts. Vol. 14, EGU2012-10302.
EGU General Assembly. Vienna, Austria 2012.

Leckebusch, GC, MG Donat, D Renggli, LV Alexander, **S Wild,** U Ulbrich:
20th Century European Storminess
4th ACRE Workshop KNMI, De Bilt, The Netherlands 2011

Schuster, M, **S Wild**, GC Leckebusch, J Grieger, S Ulbrich, JG Pinto, U Ulbrich:
Comparison of Southern Hemisphere cyclone tracks in ERA40 and ERA-Interim data.
Geophysical Research Abstracts. Vol. 12, EGU2010-12706.
EGU General Assembly. Vienna, Austria 2010.

Donat, MG, GC Leckebusch, JG Pinto, **S Wild**, U Ulbrich:
European winter storm losses in relation to extreme wind speeds in a multi-model ensemble of GCM and RCM simulations. 9th Annual Meeting of the EMS / 9th ECAC.
Vol. 6, EMS2009-465. Toulouse, France 2009.

Donat, MG, GC Leckebusch, JG Pinto, **S Wild**, U Ulbrich:
European Wind Storms in Climate Change Simulations: Estimation of Occurrence and Impacts in Multi-Model Simulations.
MOCA-09, IAMAS/IAPSO/IACS Joint Assembly. Montreal, Canada 2009.

Donat, MG, GC Leckebusch, **S Wild**, U Ulbrich:
European winter storm losses in a multi-model ensemble of GCM and RCM simulations.
Geophysical Research Abstracts, Vol. 11, EGU2009-7604.
EGU General Assembly. Vienna, Austria 2009.

Leckebusch, GC, MG Donat, **S Wild**, U Ulbrich:
Loss potentials of wind storms over Europe under anthropogenic climate change conditions based on an ensemble of GCMs and RCMs. 8th Annual Meeting of the EMS / 7th ECAC.
Vol. 5, EMS2008-A-00469, Amsterdam, The Netherlands 2008.

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