Michael F. Wehner

Publications

In Review:

Julio Bacmeister, Alyssa Stansfield, Kevin Reed, Colin Zarzycki, Ping Chang, Dan Fu, Michael Wehner, Malcolm Roberts, Karthik Balaguru, Monica Morrison, Nan Rosenbloom, Susan Bates (2024) Projecting global and regional changes in tropical cyclones and their potential impacts. Chapter 12 in “Tropical Cyclones and Associated Impacts: A Global Perspective”, Gabriele Villarini, Enrico Scoccimarro, Gabriel A. Vecchi, editors. In review


Robinson Negron-Juarez, Michael Wehner, Maria Assunção F. Silva Dias, Paul Ullrich, Jeffrey Q. Chambers, William J. Riley (2024) CMIP6 HighResMIP Bias in Extreme Rainfall Drives Underestimation of Amazonian Precipitation Patterns. Revision submitted to Environmental Research Letters

David Miller, Patrick Young, Behdad Kiani, Donald Brooks, Michael Wehner (2023) Quantifying the Impact of Climate Change on Electric Grid Reliability Using Historical Weather Data Perturbed by Ensemble Averaged CMIP6 Data, submitted to Proceedings of 2024 IEEE Power & Energy Society General Meeting (PESGM)

Xue Li, Michael Wehner, David Judi, Robert Hetland (2024) The Influence of Climate Change on Flooding and Social Inequalities from Remnants of Hurricane Ida. In review Communications Earth & Environment.


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Yang Zhou, Michael F. Wehner, and William D. Collins (2024) U.S. West Coast Atmospheric River Clusters and Their Key Circulation Patterns. Communications Earth & Environment 5, 187. https://doi.org/10.1038/s43247-024-01368-w


Xueke Li, Michael E. Mann, Michael F. Wehner, Stefan Rahmstorf, Stefan Petri, Shannon Christiansen, Judit Carrillo (2024) Role of atmospheric resonance and land-atmosphere feedbacks as a precursor to the June 2021 Pacific Northwest “Heat Dome” event. Proceedings of the National Academy of Science. 121 (4) e2315330121 https://doi.org/10.1073/pnas.2315330121


Peter Larsen, Michael Grussing, Emily Bercos-Hickey, Christine Bidner, Kristina LaCommare; Kirsten Landers, Brenda Mehnert, Christina Patricola, Austin Powell,

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Kevin Reed, Michael Wehner (2023) Real-time attribution of the influence of climate change on extreme weather events: A storyline case study of Hurricane Ian rainfall. *Environmental Research: Climate.* 2 043001, DOI 10.1088/2752-5295/acfd4e


Michael Wehner; Connecting extreme weather events to climate change. *Physics Today* 1 September 2023; 76 (9): 40–46. https://doi.org/10.1063/PT.3.5309


Christine A. Shields, Ashley E. Payne, Eric J. Shearer, Michael F. Wehner, Travis A. O’Brien, Jonathan J. Rutz, L. Ruby Leung, F. Martin Ralph, Allison B. Marquardt Collow, Paul A. Ullrich, Qizhen Dong, Alexander Gershunov, Helen Griffith, Bin Guan, Juan M. Lora, Mengqian Lu, Elizabeth McClenny, Kyle M. Nardi, Mengxin Pan, Yun Qian, Alexandre M. Ramos, Tamara Shulgina, Maximiliano Viale, Chandan Sarangi, Ricardo Tomé, Colin Zarzycki (2023) Future Atmospheric Rivers and Impacts on Precipitation: Overview of the ARTMIP Tier2 High-Resolution Global Warming


Kevin T. Smiley, Ilan Noy, Michael Wehner, Dave Frame, Christopher Sampson and Oliver E.Wing (2022) Social Inequalities in Climate Change-Attributed Impacts of Hurricane Harvey. *Nature Communications* 13, 3418 https://doi.org/10.1038/s41467-022-31056-2


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