

Qualifications

Physics, BS, Cornell University

Physics, PhD, University of Colorado Boulder

Physics, MS, University of Colorado Boulder

Employment

Senior Scientist

Climate Analysis

University Corporation for Atmospheric Research

May 3 2004 → present

Research outputs

Challenges and alternatives to empirical orthogonal functions for earth system data

Shields, C. A., DeSantis, D., Jonko, A., Lee, J., Caron, J. M., Phillips, A. S. & Fasullo, J., Dec 2026, In: Scientific Reports. 16, 1, 18794.

Targeted marine cloud brightening weakens subsequent El Niño

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Advancing Climate Services in South Asia: The SARCI Framework for Actionable Climate Information and Regional Capacity Building

Bhuyan, D. P., Upadhyaya, P., Pathak, R., Namdev, P., Salunke, P., Anand, A., Suresh, A. D., Arora, A., Baraik, S. K., Jain, S., Parihar, R. S., Dwivedi, A., Sahany, S., Sharan, M., Dash, S. K., Fasullo, J. T., Behera, S. K., Tribbia, J. & Mishra, S. K., Mar 2026, In: Bulletin of the American Meteorological Society. 107, 3, p. E564-E584

Improved closure of the global mean sea level budget from observational advances since 1960

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Is the High ECS in CESM2 Degrading Transient Climate Change Projections Over the 21st Century?

Duffy, M. L., Simpson, I. R., Medeiros, B., Zhu, J., McCluskey, C. S., Herrington, A. R., Gettelman, A., Otto-Bliesner, B. L., Fasullo, J. T., Lauritzen, P. H., Neale, R. B. & Lawrence, D. M., Jan 2026, In: Journal of Advances in Modeling Earth Systems. 18, 1, e2025MS004967.

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2019-2020 Australian bushfire smoke, multi-year La Niña, and implications for the Interdecadal Pacific Oscillation (IPO)

Meehl, G. A., Fasullo, J., Glanville, S., Capotondi, A., Arblaster, J. M., Hu, A., Rosenbloom, N. & Yeager, S., Dec 2025, In: npj Climate and Atmospheric Science. 8, 1, 319.

Correction to: Interdecadal variability of terrestrial water storage since 2003 (Communications Earth & Environment, (2025), 6, 1, (246), 10.1038/s43247-025-02203-6)

Buzzanga, B., Hamlington, B., Fasullo, J., Landerer, F. & Peidou, A., Dec 2025, In: Communications Earth and Environment. 6, 1, 381.

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Apparent Changes in Pacific Decadal Variability Caused by Anthropogenically Induced Mean State Modulations
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Coats, S., Thompson, P. R., Piecuch, C. G., Fasullo, J. T., Hamlington, B. D., Karnauskas, K. B., Nerem, R. S., Rodriguez, A. R., Steinberg, J. M. & Busecke, J., Oct 15 2025, In: *Journal of Climate*. 38, 20, p. 5685-5699 15 p.

Progress and future directions in constraining uncertainties in sea-level projections using observations

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Diagnosing Regional Sea Level Change Over the Altimeter Era

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Record High Temperatures in the Ocean in 2024

Cheng, L., Abraham, J., Trenberth, K. E., Reagan, J., Zhang, H. M., Storto, A., Von Schuckmann, K., Pan, Y., Zhu, Y., Mann, M. E., Zhu, J., Wang, F., Yu, F., Locarnini, R., Fasullo, J., Huang, B., Graham, G., Yin, X., Gouretski, V. & Zheng, F. & 34 others, Li, Y., Zhang, B., Wan, L., Chen, X., Wang, D., Feng, L., Song, X., Liu, Y., Reseghetti, F., Simoncelli, S., Chen, G., Zhang, R., Mishonov, A., Tan, Z., Wei, W., Yuan, H., Li, G., Ren, Q., Cao, L., Lu, Y., Du, J., Lyu, K., Sulaiman, A., Mayer, M., Wang, H., Ma, Z., Bao, S., Yan, H., Liu, Z., Yang, C., Liu, X., Hausfather, Z., Szekely, T. & Gues, F., Jun 2025, In: *Advances in Atmospheric Sciences*. 42, 6, p. 1092-1109 18 p.

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An evaluation of the seasonal Caribbean hydroclimate in low and high-resolution CESM and other CMIP6 models: An evaluation of the seasonal Caribbean hydroclimate: C. J. Martinez et al.

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The Influence of Anomalous Biomass Emissions on ENSO in CESM2

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Attributing the recent weakening of the South Asian subtropical westerlies

Upadhyaya, P., Mishra, S. K., Fasullo, J. T. & Kang, I. S., Dec 2024, In: *npj Climate and Atmospheric Science*. 7, 1, 283.

Quantifying the Role of Ocean Dynamics in SST Variability across GCMs and Observations

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New Record Ocean Temperatures and Related Climate Indicators in 2023

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Modes of Variability in E3SM and CESM Large Ensembles

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An overview of the E3SM version 2 large ensemble and comparison to other E3SM and CESM large ensembles

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Observed changes in hydroclimate attributed to human forcing

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Another Year of Record Heat for the Oceans

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Dependence of strategic solar climate intervention on background scenario and model physics

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Improved estimates of changes in upper ocean salinity and the hydrological cycle

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Paleoclimate constraints on the spatiotemporal character of past and future droughts

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Understanding of Contemporary Regional Sea-Level Change and the Implications for the Future

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Record-Setting Ocean Warmth Continued in 2019

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Activities

The Growing Influence of Wildfire on 21st Century Climate

Fasullo, J. (Invited speaker)

Nov 5 2025

The Growing Influence of Wildfire on 21st Century Climate, McGill University, Montreal, Canada, 24 Feb 2025

Fasullo, J. (Speaker)

Feb 24 2025

The updated Multi-Model Large Ensemble Archive and the Climate Variability Diagnostics Package: New tools for the study of climate variability and change

Fasullo, J. (Speaker)

Dec 13 2024

Underestimation of the Forced Regional Sea Level Response From Averages Across Standard-Resolution Model Ensembles

Fasullo, J. (Speaker)

Dec 13 2024

Climate Responses to Recent Major Wildfires as Simulated in E3SM2 and CESM2

Fasullo, J. (Speaker)

Aug 7 2024

Prizes

American Geophysical Union College of Fellows

Fasullo, J. (Recipient), Sep 23 2026

Projects

Using Terra and Aqua Measurements to Improve Simulation and Prediction of Earth's Energy Flows and Regional Sea Level Rise

Fasullo, J. (PI)

NASA Headquarters

01/1/22 → 12/31/24