VITA **Feb 2026**

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DATE AND PLACE OF BIRTH: April 1968, Ramapo, New York

EDUCATION:

B.Sc.: 1990, Applied and Engineering Physics, Cornell University, Ithaca, New York
M.Sc: 1995, Astrophysical Planetary and Atmospheric Sci., University of Colorado, Boulder, Colorado
Ph.D.: 1997, Astrophysical Planetary and Atmospheric Sci, University of Colorado, Boulder, Colorado

PROFESSIONAL EXPERIENCE and EDITORSHIPS

University of Colorado: Boulder, Colorado	
Research Assistant	1992–1997
Goddard Institute for Space Studies, NASA: New York, New York	
Postdoctoral Research Associate	1997–1998
Climate Diagnostics Center, NOAA: Boulder, Colorado	
Research Associate	1998–1999
University of Colorado: Boulder, Colorado	
Research Associate	1999–present
National Center for Atmospheric Research: Boulder, CO	
Associate Scientist II	2004 – 2007
National Center for Atmospheric Research: Boulder, CO	
Project Scientist I	2007– 2010
National Center for Atmospheric Research: Boulder, CO	
Project Scientist II	2010– 2015
National Center for Atmospheric Research: Boulder, CO	
Project Scientist III	2015– 2023
National Center for Atmospheric Research: Boulder, CO	
Project Scientist IV	2023– 2025
National Center for Atmospheric Research: Boulder, CO	
Senior Scientist	2025– present
Editor, Meteorology and Atmospheric Physics	2003– 2018

PROFESSIONAL SOCIETIES:

American Geophysical Union	2005- present
American Association for the Advancement of Science	2017- present

PROFESSIONAL ACTIVITIES:

CERES Science Team Member	2007-present
NASA ASDC User Working Group Member	2012-present
PAGES Global Monsoon Working Group Member	2010-present
Supervisor of CGD Project/Associate Scientists	2014-present

WCRP CMIP7 Climate Forcings Task Team 2022-present

PROFESSIONAL Awards:

AMS Journal of Climate Editors Award 2014
CGD Special Recognition Award 2008,
NCAR Outstanding Publication Award Nominee, CGD 2012, 2015, 2016, 2017, 2022

International

Contributor, Intergovernmental Panel on Climate Change (IPCC), *Scientific Assessment of Climate Change*, WMO/UNEP, 2007

Contributor, Intergovernmental Panel on Climate Change (IPCC), *Scientific Assessment of Climate Change*, WMO/UNEP, 2013

Participation in numerous conferences and workshops.

PROFESSIONAL EXPERIENCE: EIS studies 1990-1992, expert witness testimony, 2003, 2013.

Invited participation in workshops, conferences, and community activities, 2008-2025 (70 total)

1. Invited speaker Fall AGU meeting, "Dynamic and thermodynamic controls of the global water cycle in the 20th and 21st centuries", 15-19 December 2008, San Francisco.
2. Invited speaker 2nd Global Monsoon Symposium, "A Mechanism for Weakening of the Global Monsoon in a Warming World", 13-15 September 2010, Shanghai, China.
3. Invited speaker Fall AGU meeting, "Atmospheric moisture transports from ocean to land in reanalyses", 13-17 December 2010, San Francisco.
4. Invited speaker Fall AGU meeting, "Tracking Earth's "Missing Energy" with the NCAR CCSM4", 13-17 December 2010, San Francisco.
5. Invited speaker Fall AGU meeting, "A Mechanism for Land-Ocean Contrasts in Global Monsoon Trends in a Warming Climate", San Francisco, CA, 7 Dec 2011.
6. Invited speaker Workshop on Earth's Energy Imbalance, "Getting Our Heads Out of the Clouds: The Role of Subsident Teleconnections in Climate Sensitivity", Brookhaven, NY, 16 May 2012.
7. Speaker 2012 Fall AGU meeting, "Getting our heads out of the clouds: The role of subsident teleconnections in climate sensitivity", San Francisco, CA, 4 Dec 2012.
8. Invited speaker Workshop on Using GRACE Data for Water Cycle Analysis and Climate Modeling, "Australia's Unique Influence on Sea Level in 2010-2011", Pasadena, CA, July 2013.
9. Invited speaker Fall AGU meeting, "ENSO's Variable Influence on Global Mean Sea Level", San Francisco, CA, Dec 2013.
10. Invited speaker Fall AGU meeting, "Australia: The Little Continent that Can Influence Global Sea Level", San Francisco, CA, Dec 2013.
11. Invited expert discussant, "Challenges in Constraining Climate Sensitivity: Should IPCC AR5's Lower Bound Be Revised Upward?", Climate Dialogue (http://www.climatedialogue.org), May 2014.
12. Invited speaker, "IPCC AR5 Chapter 12: Long-term Climate Change", Reading the IPCC Report – A CIRES-ATOC Seminar Series, Boulder, CO, Oct. 28, 2014.
13. Invited speaker, "Earth's Energy Budget in a Changing Climate?", Keynote, ATOC Poster Conference, Boulder, CO, Nov. 2014.
14. Invited speaker, "Understanding Global Mean Sea Level as an Indicator of Climate Variability and Change", NCAR Climate Variability and Change Working Group Meeting, Feb. 2015.
15. Invited speaker, "Understanding Sea Level as a Constraint on Climate Variability and Sensitivity", WCRP Workshop on Earth's Climate Sensitivities, Ringberg, Germany, Mar. 2015.
16. Quantifying Interannual Variability of Global Mean Sea Level in Observations and the NCAR CESM, IUGG, Prague CZ, July 2015 (invited, presented by F. Landerer).
17. An Early Term Report Card for CESM1.5 Energy and Water Budgets, Boulder, CO, 11 Feb 2016, invited.
18. Understanding Global Warming's "Hiatus": invited lecture for ATOC4800; Boulder, CO, 2 Mar 2016, invited.
19. Beneath the Surface: Understanding Sea Level Using CERES and other DATA; CERES Science Team Meeting, Newport News, Apr 26, 2016, invited.

20. A Mid-Term Report Card for CESM1.x Energy and Water Budgets, CESM Annual Meeting, Breckenridge, CO, 80309, invited.
21. Understanding Climate Change and Variability through the Altimeter Record of Sea Level Rise,Fourth Santa Fe Conference on Global & Regional Climate Change . Santa Fe NM, Feb 2017, invited.
22. Earth's Energy Budget, Les Houches Winter School on Planetary Circulations . Les Houches, France, Mar 2017, invited.
23. The role of increased ocean stratification in a future year without a summer, CESM Winter Meeting, Boulder, CO, Feb. 2017.
24. Hemispherically Dependent Responses of the Global Monsoon to Volcanic Eruptions in the CESM Last Millennium Ensemble, CESM Annual Workshop, Boulder, CO, June, 2017.
25. Hemispherically Dependent Responses of the Global Monsoon to Volcanic Eruptions in the CESM Last Millennium Ensemble, AGU Fall Meeting, New Orleans, CO, Dec, 2017.
26. An Introduction to Climate Models and their Application, invited lecture for CU COEN3210, Boulder, CO: Mar 2018.
27. Geoengineering: Ideas, benefits, and risks, invited lecture for CU COEN3210, Boulder, CO: 19 Apr 2018.
28. The amplifying influence of increased ocean stratification on a future year without a summer, NCAR Day of Discovery, Boulder, CO, 20 Apr, 2018.
29. Persistent Polar Ocean Warming in a Strategically Geoengineered Climate, 2018 CESM Workshop, Boulder, CO, 19 June, 2018.
30. CESM2 development AS viewed through the lens of the NCAR climate model analysis tool (CMAT), 2018 Energy Radiation Budget Workshop, Boulder, CO, 13 Sep 2018.
31. Persistent Polar Ocean Warming in a Strategically Geoengineered Climate, 2018 AGU Fall Meeting, Boulder, CO, 14 Dec 2018.
32. Altimeter-Era Emergence of the Patterns of Forced Sea Level Rise and Implications for the Future, CGD Research Reports, Boulder, CO, 20 Dec 2018.
33. Seasonal and Hemispheric Dependence of the Global Monsoon Response to Major Extratropical Eruptions in the CESM LME, CESM Paleoclimate Working Group Meeting, Boulder, CO, 5 Feb 2019.
34. Altimeter-Era Emergence of the Patterns of Forced Sea Level Rise and Implications for the Future, NASA Sea Level Science Team Working Group, Annapolis, MD, 12 Mar 2019.
35. Persistent Polar Ocean Warming in a Strategically Geoengineered Climate, Workshop on Climate Extremes and Resilience, Riederalp, Switzerland, 20 Mar 2019.
36. NCAR's Climate Model Assessment Tool, CMIP6 Model Analysis Workshop, Barcelona, Spain, 25 Mar 2019.
37. Drivers of Altimeter-Era Forced Response in Regional Sea Level and Consequences for the Coming Decades, San Francisco, CA, 9 Dec 2019.
38. Ocean subsurface salinity change yields an Anthropogenic Climate Signal, Boulder, CO, 22 Mar 2020.
39. Evaluation of Leading Modes of Climate Variability in the CMIP Archives, Boulder, CO, 17 Jun 2020.
40. Spurious Late Historical-Era Warming in CESM2 and Other CMIP6 Climate Simulations Driven by Prescribed Biomass Burning Emissions, 2020 DOE PI Meeting.
41. Spurious Late Historical-Era Warming in CESM2 and Other CMIP6 Climate Simulations Driven by Prescribed Biomass Burning Emissions, Oct 2020: CESM CoChairs Meeting.
42. Spurious Late Historical-Era Warming in CESM2 and Other CMIP6 Climate Simulations Driven by Prescribed Biomass Burning Emissions, 5 Nov 2020 Research Reports
43. Climate Responses to COVID-19 and Australian Wildfire Forcing Anomalies in 2019-2020 Estimated in CESM2.
44. Projecting Climate Change with NASA Data and NCAR Models", New York State Association of Environmental Professionals, invited, 9 Jun 2021.
45. Recent Responses to Major Wildfires in CESM2, 2021 Annual CESM Workshop, 15 Jun 2021.
46. Satellite-Era Climate Responses to Major Wildfires in CESM2, Boulder, CO, 15 Jun 2021.
47. Did Recent Wildfires Influence ENSO?, CESM2 Workshop, Boulder, CO, 15 Jun 2021.
48. Forecast Ecosystem Conditions in Gulf of Mexico OCS Habitats Using Coupled Modeling and Climate Scenarios, Bureau of Ocean Energy Management, Virtual, 20 Oct 2021, 120 ppl.
49. Rethinking Wildfire's Role in the Climate System CGD Town Hall, oral (invited).
50. Rethinking Wildfire's Role in the Climate System, UCAR President's Council, 20 Dec 2021 (invited).
51. Research Objective 3: Overview and Progress, CATALYST (28 Nov 2021).
52. 2021 AMS Fall Meeting, oral (virtual invited)

53. 2022 AMS Trenberth Symposium: 24 Jan 2022 (virtual, invited)
54. ARISE geoengineering; Scenario and Model Dependence of Strategic Solar Climate Intervention in CESM, 11 Mar 2022.
55. Downscaling and Modeling of Climate Change in the Gulf of Mexico, 20220913, CATALYST, virtual, 60 ppl.
56. Rethinking wildfire's role in the climate system, 20220912, CATALYST, virtual, 37 ppl.
57. How the 2019-20 Australian Bushfire Season Drove Us to Reassess Wildfire's Climatic Role, seminar for ARC Centre of Excellence for Climate Extremes, 20220729, virtual.
58. A Multi-Year Cooling of the Tropical Pacific in Response to Recent Australian Wildfires in CESM2, CESM Annual Workshop, 16 Jun 2022, virtual.
59. "An Overview of Upcoming E3SMv2 Ensembles", SMILE Webinar (25 Apr 2022).
60. *Research Objective 3: Overview and Progress, CATALYST (25 Apr 2022).*
61. Exploring the Climate Response to Recent Wildfires, CERES Science Team Meeting (27 Apr 2022)
62. A Multi-Year Cooling of the Tropical Pacific in Response to Recent Australian Wildfires, AGU Fall Meeting, Dec. 2022, Chicago, IL.
63. A Multi-Year Cooling of the Tropical Pacific in Response to Recent Australian Wildfires, AMS Annual Meeting, Jan. 2023, Denver, CO.
64. Modes of Variability in the E3SM and CESM Earth System Model Large Ensembles, US Climate Model Summit, 24 Apr 2023, Denver, CO, 100 ppl, invited.
65. A High-Resolution Simulation of the Gulf of Mexico Suitable for Climate Change Studies using HYCOM & CESM2LE, National Academies Gulf Research Program All Hands Meeting, invited, 15 Aug 2023, 40 ppl.
66. Benchmarking Climate Model Simulations across Scales, AGU 2023 Fall Meeting, 13 Dec 2023, San Francisco, CA, 200 ppl, invited.
67. CESM Reveals an Underestimation of the Regional Pattern of Sea Level Rise, 2024 CESM Workshop, 11 Jun 2024, Boulder, CO
68. The E3SM2 Large Ensemble with Comparison to E3SM1 and CESM1/2, Joint PCMDI/CATALYST Telecon, invited, 11 Sep 2023, 50 ppl.
69. National Academies Meeting on Gulf of Mexico Research: Simulating climate variability and change in the Gulf of Mexico using HYCOM, 11 Aug 2024, Boulder, CO
70. The Growing Influence of Wildfire on 21st Century Climate, McGill University, Montreal, Canada, 24 Feb 2025.

Reviewer of manuscripts: Multiple reviews for AMS, AGU, RMS, JMS, and Tellus Journals, Wright Architecture

Reviewer of proposals: National Science Foundation, NOAA, NASA

Student Mentorship: Dimitris Herrera Hernandez (Cornell), Garrison Loope (Arizona), Jonathan King (Arizona), Luke Parsons (Arizona), Hrishikesh Arvind Chandanpurkar (postdoc, JPL), Chen Xing (UC Santa Barbara), Tessa Gorde (CU Boulder), Ben Goldman (Columbia University), Buzzanga, Brett (JPL), Saroj Mishra (IIT, Delhi).

Supervisorship: Dr. S. Stevenson, Dr. Lehner, Ms. J. Caron

Public Service and Other Activities:

Congressional Outreach: AGU's Geosciences Congressional Visits Day 21 Sep 2011.

Second annual Climate Science Day on Capitol Hill, 1 Feb 2012.

Seminar Coordinator: 2008/9 CGD Seminar Host and Coordinator.

Participation on national radio programs and other media: (see home page, above, for media coverage listing)

Interview and commentary on global climate change and modeling NPR, 2002.

Interviews on the Earth's Energy Flow, April 2010: NPR, Time Magazine, Climate Central, The Daily Camera, KGNU. Related interviews with Media Matters, Climate Central, and the Boston Globe.

Interviews on *Science* paper: The role of subsident teleconnections in climate sensitivity: NPR, Climate Central, and many others.

Interviews on *GRL* article: Australia's unique influence on global sea level in 2010-2011: NPR, Climate Central, and many others.

Interviews on *Scientific Reports* article: Is the detection of accelerated sea level rise imminent?: Washington Post, Bloomberg, Climate Central, and many others.

Invited lecturer: Nanjing Institute of Science and Technology**,** Summer Monsoon Workshop, July, 2007: *The Asian Monsoon: Its Origins, and Interactions*

University of Colorado Teaching experience:
ATOC 1060 Our Changing Environment: El Niño, Ozone & Climate, 1999-2001
ATOC 3600 Principles of Climate 2000-2001
ATOC 6020 Tracking Earth's Missing Energy, University of Colorado, Oceanography seminar, Boulder, CO Sep. 27, 2010, Invited seminar speaker.
ATOC 4800 Policy implications of Critical Issues in Climate and the Environment, Boulder, CO Mar. 2, 2016, Invited seminar speaker.
COEN3210 Invited lectures on climate models and geoengineering, Spring 2018, 2019, 2020.

Research grants and contracts

Title: Is Better Representation of Modes of Variability Related to Reduced Biases and Better Simulations of Extreme Events in US Climate Models? (NASA/PNNL)
Period: 10/2022-4/2024
Capacity: co-I. Fasullo (P.I. Danabasoglu)

Title: Synopsis of Forecast Ecosystem Conditions in Gulf of Mexico OCS Habitats Using Coupled Modeling and Climate Scenarios (BEOM via NRL)
Period: 1/2022-4/2023
Capacity: P.I.

Title: Using Terra and Aqua Measurements to Improve Simulation and Prediction of Earth's Energy Flows and Regional Sea Level Rise (NASA)
Period: 1/2022-12/2024
Capacity: P.I.

Title: Cooperative Agreement To AnaLyze variability, change and predictabilitY in the earth SysTem (CATALYST) (DOE)
Period: 8/2021-7/2024
Capacity: co-I. (P.I. Meehl)

Title: Detecting Forced Climate Signals in the 30-year Satellite Altimeter Sea Level Record (NASA/OSTST)
Period: Nov 2021-Oct 2024
Capacity: co-I. (P.I. Nerem)

Title: Large-Scale CoPe: Rising Voices, Changing Coasts: The National Indigenous and Earth Sciences Convergence Hub (NSF)
Period: 9/2022 – 8-2025
Capacity: co-I. (P.I. Holland)

Title: Atmospheric impacts of the extreme Australian 2019/2020 wildfire season (NASA/ROSES)
Period: 7/2023-6/2026
Capacity: co-I. (P.I. Buchholz)

Title: Analysis of Modes of Variability in 6 US climate models (NASA)
Period: 7/2019-6/2020
Capacity: co-I (P.I. Schmidt)

Title: Using Satellite Observations to Improve Our Understanding of Future Regional Sea Level Change and its Impacts (NASA/ROSES)
Period: 7/2021-6/2024
Capacity: co-I (P.I. Nerem)

Title: Detecting Forced Climate Signals in the 30-year Satellite Altimeter Sea Level Record (NASA/OSTST)
Period: 4/2021-3/2025
Capacity: co-I. (P.I. Nerem)

Title: Using Satellite Measurements to Improve Regional Estimates of the Impacts of Sea Level Change (NASA)
Period: 7/2018-6/2021
Capacity: co-I (P.I. Nerem)

Title: Collaborative Research to Narrow Uncertainties in Precipitation and the Hydrological Cycle in Climate Models (DOE/SCIDAC)
Period: 7/2014-6/2017
Capacity: co-PI (P.I. Trenberth)

Title: EaSM2 Collaborative Research on Quantifying and Conveying the Risk of Prolonged Drought in Coming Decades (NSF)
Period: 1/2013-12/2017
Capacity: Collaborator (P.I. Otto-Bliesner)

Title: Diagnostics in support of MERRA: The Flow of Moisture and Energy through the Coupled Climate System (NASA/MAP)
Period: 1/2009-12-2013
Capacity: co-PI (P.I. Trenberth)

Publications (4 book contributions, 150 publications - 142 peer-reviewed, 19640 citations, h-index=63, Mar 2023; Altmetric Mentions 20306)

BOOKS AND BOOK CHAPTERS

Contributor to "*Ice: Portraits of Vanishing Glaciers*" by James Balog and the Extreme Ice Survey Team, Rizzoli (New York), 2012. 288 pp.

Webster, P. J., and J. Fasullo, 2003: *Monsoon: Dynamical Theory*. Encyclopedia of Atmospheric Sciences. Eds. J. Holton and J. A. Curry. Academic Press, 1370-1385.

Webster, P. J., C. Clark, G. Chirikova, J. Fasullo, W. Han, J. Loschnigg, and K. Sahami, 2002: "*The Monsoon as a self-regulating coupled ocean-atmosphere system*." Meteorology at the Millennium. Academic Press, 198-219.

Fasullo, J. 2018: *Sea Level Rise*, MacMillian Encyclopedia.

JOURNALS (*In Press or Published)*

1. Mishra et al. 2026: Advancing Climate Services in South Asia: The SARCI Framework for Actionable Climate Information and Regional Capacity Building, Bull. Amer. Met. Soc., accepted.
2. Pan et al. 2026: Ocean heat content sets another record in 2025. Adv. Atmos. Sci., https://doi.org/10.1007/s00376-026-5876-0.
3. Duffy, M. et al: Is the high ECS in CESM2 degrading transient climate change projections over the 21st century?, Journal of Advances in Modeling Earth Systems, accepted.
4. Perez-Carrasquilla, J, M J. Molina, K J. Mayer, K Dagon, J T. **Fasullo**, and I. R. Simpson, Observed and modeled amplification of the frequency, duration, and extreme heat impacts of the Pacific trough regime, Earth's Future, doi: 10.1029/2025EF007140.
5. Meehl, G.A., J. **Fasullo**, S. Glanville, A. Capotondi, J.M. Arblaster, A. Hu, and N. Rosenbloom, 2025: 2019-2020 Australian bushfire smoke, multi-year La Niña, and implications for the Interdecadal Pacific Oscillation (IPO), npj Climate and Atmospheric Science, https://doi.org/10.1038/s41612-025-01204-8.
6. Xing, S Stevenson, E Di Lorenzo, M Newman, A Capotondi, J **Fasullo**, N Maher, 2025: Apparent Changes in Pacific Decadal Variability Caused by Anthropogenically-Induced Mean State Modulations, Geophys. Res. Lett., accepted.
7. Xing, C., S. Stevenson, J. **Fasullo**, C. Harrison, C. Chen, J. Wan, J. Coupe, C. Pfleger, 2025: Subtropical Marine Cloud Brightening Suppresses The El Niño-Southern Oscillation, Earth's Future, doi:10.1029/2025EF006522.
8. Felikson, D., D. Rounce, J. T. **Fasullo** et al. 2025: Progress and outlook for constraining uncertainties in sea-level projections using observations, Nature Clim. Change, doi:10.1038/s41558-025-02437-4.
9. Maher, N., Phillips, A. S., Deser, C., Wills, R. C. J., Lehner, F., **Fasullo**, J., ... & Beyerle, U. 2025: The updated Multi-Model Large Ensemble Archive and the Climate Variability Diagnostics Package: New tools for the study of climate variability and change. Geo. Model Dev., doi:10.5194/gmd-18-6341-2025 .
10. Coats, S., P.R. Thompson, C.G. Piecuch, J.T. **Fasullo**, B.D. Hamlington, K.B. Karnauksas, R.S. Nerem, A.R. Rodriguez, J.M. Steinberg, J. Busecke, Understanding the role for internal variability in driving past and future ocean dynamic sea-level trends in CMIP6 simulations, J. Clim., doi: 10.1175/JCLI-D-24-0336.1.
11. Weathers, M. R., D. Rounce, J. T. **Fasullo**, F. Maussion, 2025, Evaluating the Role of Internal Climate Variability and Bias Adjustment Methods on Decadal Glacier Projections, Earth's Future, doi: 10.1029/2024EF005624.
12. Karnauskas, K. R. S. Nerem, J. T. **Fasullo**, P. Thompson, M. Merrifield, S. Coats, D. Chambers, B. Hamlington, 2025: Diagnosing Regional Sea Level Change Over the Altimeter Era, Journal of Geophysical Research, Oceans, doi: 10.1029/2024JC022100.
13. Little, C., S. Yeager, J. T. **Fasullo**, K. Karnauskas, R. S. Nerem, E. N. Slivia, 2025: Pan-pacific low frequency modes of sea level and climate variability, Science Advances, in revision.
14. Trenberth, L. Cheng, Y. Pan, J. **Fasullo**, Michael Mayer, 2025: Distinctive pattern of global warming in ocean heat content, J. Clim., doi: 10.1175/JCLI-D-24-0609.1.
15. Buzzanga, B., B. Hamlington, J. **Fasullo**, F. Landerer, A. Peidou, 2025: Interdecadal variability of terrestrial water storage since 2003, Communications Earth and Environment, doi: 10.1038/s43247-025-02203-6.
16. Cheng, L., Abraham, J., Trenberth, K.E. et al. Record High Temperatures in the Ocean in 2024. Adv. Atmos. Sci. (2025). https://doi.org/10.1007/s00376-025-4541-3
17. Martinez, C. J., I. R. Simpson, J. T. **Fasullo**, A. F. Prein, 2024: An Evaluation of the Seasonal Caribbean Hydroclimate in Low and High-Resolution CESM and other CMIP6 Models, Climate Dynamics, 10.1007/s00382-024-07516-4.

18. Upadhyaya, P., S. Mishra, J. T. **Fasullo**, I.-S. Kang, 2024: Attributing the recent weakening of the South Asian subtropical westerlies, npj Climate and Atmospheric Science, doi: 10.1038/s41612-024-00777-0.
19. **Fasullo**, J. T., N. Rosenbloom, and R. Buchholz, 2024: The Influence of Anomalous Biomass Emissions on ENSO in CESM2, J. Clim., doi: 10.1175/JCLI-D-24-0148.1.
20. Siqueira, L., B. P. Kirtman; L. C. Laurindo; J. T. **Fasullo**; A. Hu, 2024: Quantifying the Role of Ocean Dynamics in SST Variability across GCMs and Observations, J. Clim., doi: https://doi.org/10.1175/JCLI-D-23-0686.1.
21. Meehl, G. A., C. A. Shields, J. M. Arblaster, R. Neale, A. Hu, H. Annamalai, J.-C. Golaz, J. **Fasullo**, N. Rosenbloom, L. Van Roekel, and A. Capotondi, 2024: Processes that contribute to future South Asian monsoon differences in E3SMv2 and CESM2, Geo. Res. Lett., doi:10.1029/2024GL109056.
22. **Fasullo**, J. T. et al. 2024: An Overview of the E3SM version 2 Large Ensemble and Comparison to other E3SM and CESM Large Ensembles, Earth System Dynamics, 15, doi: 10.5194/esd-15-367-2024.
23. **Fasullo**, J. T. et al. 2024: Modes of Variability in E3SM and CESM Large Ensembles, J. Clim., doi: 10.1175/JCLI-D-23-0454.1.
24. Cheng, L., Abraham, J., Trenberth, K.E., Boyer, T., Mann, M. E., Zhu, J., Wang, F., Yu, F., Locarnini, R., **Fasullo**, J. T., Zheng, F., Li, Y., Zhang, B., Wan, L., Chen, X., Wang, D., Feng, L., Song, X., Liu, Y., Reseghetti, F., Simoncelli, S., Gouretski, V., Chen, G., Mishonov, A., Reagan, J., Von Schuckmann, K., Pan, Y., Tan, Z., Zhu, Y., Wei, W., Li, G., Ren, Q., Cao, L. & Lu, Y.. New Record Ocean Temperatures and Related Climate Indicators in 2023. Adv. Atmos. Sci. (2024). https://doi.org/10.1007/s00376-024-3378-5.
25. Holland, M. et al. New model ensemble reveals how forcing uncertainty and model structure alter climate simulated across CMIP generations of the Community Earth System Model, Geosci. Model Devel. doi: 10.5194/gmd-2023-125.
26. Hernandez, D. et al Observed changes in hydroclimate attributed to human forcing PLOS Climate, .doi: 10.1371/journal.pclm.0000303
27. Meehl et al., Effects of climate base state on intraseasonal, seasonal, and interannual characteristics of the South Asian Monsoon in E3SMv2 and CESM2, Geo. Res. Lett., doi: 10.1029/2023GL104313.
28. Mishra and co-authors: A Need for Actionable Climate Projections Across the Global South, Nature Climate Change, doi: 10.1038/s41558-023-01778-2.
29. Sinha, S., J. T. **Fasullo**, R. S. Nerem, and C. Monteleoni, Sea Level Projections with Machine Learning Using Altimetry and Climate Model Ensembles, Tackling Climate Change with Machine Learning, Artificial Intelligence for the Earth Systems, doi: 10.1175/AIES-D-23-0089.1.
30. Yamaguchi, J.-E. and coauthors (2023). Persistent ocean anomalies as a response to northern hemisphere heating induced by biomass burning variability. J. Clim., doi: 10.1175/JCLI-D-23-0090.1.
31. Kim, J.-E. and coauthors (2023). Interannual fires as a source for subarctic summer decadal climate variability mediated by permafrost thawing. npj Climate and Atmospheric Science, doi: 10.1038/s41612-023-00415-1.
32. **Fasullo**, J. T., Rosenbloom, N., & Buchholz, R. (2023). A multiyear tropical Pacific cooling response to recent Australian wildfires in CESM2. Science Advances, 9(19), eadg1213, doi: 10.1126/sciadv.adg121.
33. Cheng et al. 2023, Another year of record heat for the oceans, Adv. Atm. Sci., doi: 10.1007/s00376-023-2385-2.
34. **Fasullo**, J.T. and J. Richter 2023: Dependence of Strategic Solar Climate Intervention on Background Scenario and Model Physics, Atm. Chem. and Physics , doi: 10.5194/acp-23-163-2023.
35. PoChedley et al. 2022: Internal variability and forcing influence model-satellite differences in the rate of tropical tropospheric warming, Proc. Nat. Aca. Sci., doi: 10.1073/pnas.2209431119.
36. Cheng, Lijing, Karina von Schuckmann, John P. Abraham, Kevin E. Trenberth, Michael E. Mann, Laure Zanna, Matthew H. England, Jan D. Zika, John T. **Fasullo**, Yongqiang Yu, Yuying Pan, Jiang Zhu, Emily R. Newson, Ben Bronselaer and Xiaopei Lin. 2022: Past and future ocean warming. Nat. Rev. Earth. Environ. (2022). https://doi.org/10.1038/s43017-022-00345-1.
37. DeRepentigny, P., Jahn, A., Holland, M., Kay, J., **Fasullo**, J., Lamarque, J. F., ... & Barrett, A. (2022). Enhanced simulated early 21st century Arctic sea ice loss due to CMIP6 biomass burning emissions.
38. Loeb et al. 2022: Evaluating Twenty-Year Trends in Earth's Energy Flows from Observations, J. Geo. Res. Atm., doi:10.1029/2022JD036686.
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