

VITA

Feb 2018

JOHN T. FASULLO

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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– present
Editor, Meteorology and Atmospheric Physics	2003– present

PROFESSIONAL SOCIETIES:

American Geophysical Union	2005- present
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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 a CGD Project Scientist	2014-2017

PROFESSIONAL Awards:

AMS Journal of Climate Editors Award	2014
CGD Special Recognition Award	2008

NCAR Outstanding Publication Award Nominee, CGD 2012, 2015, 2016

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.

Invited participation in workshops, conferences, and community activities, 2008-2018

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.

Invited speaker 2nd Global Monsoon Symposium, “A Mechanism for Weakening of the Global Monsoon in a Warming World”, 13-15 September 2010, Shanghai, China.

Invited speaker Fall AGU meeting, “Atmospheric moisture transports from ocean to land in reanalyses”, 13-17 December 2010, San Francisco.

Invited speaker Fall AGU meeting, “Tracking Earth’s “Missing Energy” with the NCAR CCSM4”, 13-17 December 2010, San Francisco.

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.

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.

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.

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.

Invited speaker Fall AGU meeting, “ENSO’s Variable Influence on Global Mean Sea Level”, San Francisco, CA, Dec 2013.

Invited speaker Fall AGU meeting, “Australia: The Little Continent that Can Influence Global Sea Level”, San Francisco, CA, Dec 2013.

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.

Invited speaker, “IPCC AR5 Chapter 12: Long-term Climate Change”, Reading the IPCC Report – A CIRES-ATOC Seminar Series, Boulder, CO, Oct. 28, 2014.

Invited speaker, “Earth’s Energy Budget in a Changing Climate?”, Keynote, ATOC Poster Conference, Boulder, CO, Nov. 2014.

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.

Invited speaker, “Understanding Sea Level as a Constraint on Climate Variability and Sensitivity”, WCRP Workshop on Earth’s Climate Sensitivities, Ringberg, Germany, Mar. 2015.

Quantifying Interannual Variability of Global Mean Sea Level in Observations and the NCAR CESM, IUGG, Prague CZ, July 2015 (invited, presented by F. Landerer).

An Early Term Report Card for CESM1.5 Energy and Water Budgets, Boulder, CO, 11 Feb 2016, invited.

Understanding Global Warming’s “Hiatus”: invited lecture for ATOC4800; Boulder, CO, 2 Mar 2016, invited.

Beneath the Surface: Understanding Sea Level Using CERES and other DATA; CERES Science Team Meeting, Newport News, Apr 26, 2016, invited.

A Mid-Term Report Card for CESM1.x Energy and Water Budgets, CESM Annual Meeting, Breckenridge, CO, 80309, invited.

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.

Earth’s Energy Budget, Les Houches Winter School on Planetary Circulations . Les Houches, France, Mar 2017, invited.

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, Colorado)

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.

Current research grants and contracts

Title (Sponsor): Collaborative Research to Narrow Uncertainties in Precipitation and the Hydrological Cycle in Climate Models (DOE)

Period: 8/2014-7/2017

Capacity: Co-P.I. (P.I. Trenberth)

Title: Collaborative Research: EaSM2—Quantifying and Conveying the Risk of Prolonged Drought in Coming Decades (NSF)

Period: Feb 2013-Jan 2018

Capacity: Team member

Publications (3 book contributions, 66 publications - 58 peer-reviewed, 2026 citations, h-index=23, May 2015)

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.

JOURNALS (In Press or Published)

- Stevenson, S, J. Overpeck, J. T. Fasullo, S. Coats, L. Parsons, T. Ault, B. Otto-Bliesner, G. Loope, J. Cole, 2017: Dynamical Controls on Last Millennium Hydroclimate Extremes, *J. Clim.*, in press.
- R. S. Nerem, B. D. Beckley, J. T. Fasullo, B. D. Hamlington, D. Masters and G. T. Mitchum. Climate-change-driven accelerated sea-level rise detected in the altimeter era. *PNAS*, 2018 DOI: 10.1073/pnas.1717312115.
- Owens, M.J., M. Lockwood, E. Hawkins, I. Usoskin, G. Jones, L. Barnard, A. Schurer; J.T. Fasullo, 2017: The Maunder minimum and the Little Ice Age: an update from recent reconstructions and climate simulations, *J. Space Weather Space Clim.*, 7,A33, doi: <https://doi.org/10.1051/swsc/2017034>.
- Fasullo, J.T., and P. R. Gent, 2017: On the Relationship between Regional Ocean Heat Content and Sea Surface Height, *J. Climate*, **30**, 9195–9211, <https://doi.org/10.1175/JCLI-D-16-0920.1>.
- Fasullo, J.T., R. Tomas, S. Stevenson, B. Otto-Blesner, E. Brady, and E. Wahl, 2017: The Amplifying Influence of Increased Ocean Stratification on A Future Year Without A Summer, *Nature Communications*, doi: 10.1038/s41467-017-01302-z.
- Cheng, L., K. E. Trenberth, J. Fasullo, J. Abraham, T. Boyer, K. von Schuckmann, J. Zhu, 2018: Taking the pulse of the planet. Earth and Space Science News, *Eos*, **99**, 14-16. Doi: 10.1029/2017EO081839.
- Wang, P. X., Wang, B., Cheng, H., Fasullo, J., Guo, Z. T., Kiefer, T., and Liu, Z. Y.: 2017, The Global Monsoon across Time Scales: Mechanisms and outstanding issues, *Earth Science Reviews*, **174**, 84-121, <https://doi.org/10.1016/j.earscirev.2017.07.006>.
- Trenberth, K. E. and J. T. Fasullo, 2017: Atlantic meridional heat transports computed from balancing Earth's energy locally, *Geo. Phys. Res. Lett.*, **44**, doi:10.1002/2016GL072475..
- Cheng, L, K. Trenberth, J.T. Fasullo, T. Boyer, J. Abraham, J. Zhu, 2017: Re-assessment of Earth's energy imbalance since 1960 based on ocean heat content changes, *Science Advances*, **3**, doi: 10.1126/sciadv.1601545.
- Stevenson, S., A. Capotondi, J. Fasullo and B. Otto-Bliesner, 2017: Forced Changes to 20th Century ENSO Diversity in a Last Millennium Context, *Climate Dynamics*, doi:10.1007/s00382-017-3573-5.
- Stevenson, S., B. Otto-Bliesner, J. Fasullo, 2017: Considering Eruption Season to Reconcile Model and Proxy Responses to Tropical Volcanism, *Proc. Nat. Acad. Sci.*, **114**, 1822–1826, doi: 10.1073/pnas.1612505114.
- Fasullo, J. T., and R. S. Nerem, 2016: Interannual Variability in Global Mean Sea Level Estimated from the CESM Large and Last Millennium Ensembles, *Water*, **8** (11), 491; doi:10.3390/w8110491.
- Fasullo, J. T., R. S. Nerem, and B. Hamlington, 2016: Is detection of accelerated sea level rise imminent? *Scientific Reports*, **6**, 31245, doi:10.1038/srep31245.
- Trenberth, K. E., J. T. Fasullo, K. von Schuckmann and L. Cheng, 2016: Insights into Earth's energy imbalance from multiple sources. *J. Climate*, doi:10.1175/JCLI-D-16-0339, in press.
- Covey, C., P.J. Gleckler, C. Doutriaux, D.N. Williams, A. Dai, J.T. Fasullo, K.E. Trenberth, and A. Berg, 2016: Metrics for the Diurnal Cycle of Precipitation: Toward Routine Benchmarks for Climate Models, *J. Clim.*, <http://dx.doi.org/10.1175/JCLI-D-15-0664.1>.
- Fasullo, J.T., D. Lawrence, and S. Swenson, 2016: Are GRACE-Era Terrestrial Water Trends Driven By Anthropogenic Climate Change? *Advances in Meteorology*, doi:10.1155/2016/4830603.
- Mayer, M., J. Fasullo, K E. Trenberth, L. Haimberger, 2016: ENSO-Driven Energy Budget Perturbations in CMIP models, *Clim. Dyn.*, doi:10.1007/s00382-016-3057-z.
- Stevenson, S., B. Otto-Bliesner, J. Fasullo, and E. Brady, 2016: 'El Nino Like' Hydroclimate Responses to Last Millennium Volcanic Eruptions *J. Clim.*, <http://dx.doi.org/10.1175/JCLI-D-15-0239.1>.
- Trenberth, K. E., Y. Zhang, and J. T. Fasullo 2015: Relationships among top-of- atmosphere radiation and atmospheric state variables in observations and CESM, *J. Geophys. Res. Atmos.*, **120**, doi:10.1002/2015JD023381

- Grise, K., L. M. Polvani, and J.T. Fasullo, 2015: Re-examining the emergent constraint between climate sensitivity and the Southern Hemisphere radiation budget in CMIP models *J. Clim.* doi: <http://dx.doi.org/10.1175/JCLI-D-15-0031.1>
- Loeb, N.G., H. Wang, A. Cheng, S. Kato, J. T. Fasullo, K.M. Xu, R. P. Allan, 2015: Observational Constraints on Atmospheric and Oceanic Cross-Equatorial Heat Transports, *Clim. Dyn.*, doi:10.1007/s00382-015-2766-z.
- Otto-Bliesner, B. et al., The Last Millennium Ensemble Project with the Community Earth System Model (CESM): A Resource for Studying Climate Variability and Change since 850, *Bull. Amer. Met. Soc.*, doi:<http://dx.doi.org/10.1175/BAMS-D-14-00233.1>.
- Trenberth, K.E., J.T. Fasullo and T. Shephard, 2015: Attribution of climate extreme events *Nature Climate Change*, doi:10.1038/nclimate2657.
- Stevens, B., A Abe-Ouchi, S Bony, G Hegerl, G Schmidt, S Sherwood, M Webb; Contributors: M Allen, T Andrews, J Annan, K Armour, N Bellouin, R Caballero, J Church, M Crucifix, A Dessler, T Edwards, J Fasullo, O Geoffrey, C Golaz, J Gregory, R Knutti, M Latif, N Lewis, T Mauritsen, D Sexton, G Stephens, R Sutton, J Vial, K Yu, M Zelinka, 2015: RINGBERG15: EARTH'S CLIMATE SENSITIVITIES, Report from a workshop held on 23-27 March 2015, Schloss Ringberg, Germany WCRP Report No. 11/2015.
- Fasullo, J.T., B.W. Sanderson, and K.E. Trenberth, 2015: Recent Progress in Constraining Climate Sensitivity with Models *Current Climate Change Reports*, 1, 268-275, doi: 10.1007/s40641-015-0021-7.
- Trenberth, K. E., Y. Zhang, J. T. Fasullo, and S. Taguchi, 2015: Climate variability and relationships between top-of-atmosphere radiation and temperatures on Earth. *J. Geophys. Res.*, 120, 3642-3659, Doi: 10.1002/2014JD022887.
- Phillips, A. S., C. Deser, and J. Fasullo, 2014: A new tool for evaluating modes of variability in climate models. *EOS*, 95, 453-455, doi: 10.1002/2014EO490002.
- Wang, P. X., Wang, B., Cheng, H., Fasullo, J., Guo, Z. T., Kiefer, T., and Liu, Z. Y.: The global monsoon across timescales: coherent variability of regional monsoons, *Clim. Past*, 10, 2007-2052, doi:10.5194/cp-10-2007-2014, 2014.
- Abraham, J., Fasullo, J., & Laden, G., 2014: Continued Global Warming in the Midst of Natural Climate Fluctuations. *Reports of the National Center for Science Education*, 34(6).
- Abraham, J. P., Kumar, S., Bickmore, B. R., & Fasullo, J. T. (2014). Issues Related to the Use of One-dimensional Ocean-diffusion Models for Determining Climate Sensitivity. *J Earth Sci Clim Change*, 5(220), 2.
- Trenberth, K.E., J. T. Fasullo, G. Branstator, and Adam S. Phillips, 2014: Seasonal aspects of the recent pause in surface warming, *Nature Climate Change*, doi:10.1038/nclimate2341.
- Contributing author: IPCC AR5: Chapter 12: Long-term climate change: Projections, commitments and irreversibility. Collins, M., R. Knutti, J. Arblaster, J.-L. Dufresne, T. Fichet, P. Friedlingstein, X. Gao, W.J. Gutowski, T. Johns, G. Krinner, M. Shongwe, C. Tebaldi, A.J. Weaver and M. Wehner, 2013: Long-term Climate Change: Projections, Commitments and Irreversibility. In: *Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Stocker, T.F., D. Qin, G.-K. Plattner, M. Tignor, S.K. Allen, J. Boschung, A. Nauels, Y. Xia, V. Bex and P.M. Midgley (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- Trenberth, K. E., J. T. Fasullo and M. A. Balmaseda: 2014: Earth's energy imbalance. *J. Climate*, **27**, 3129-3144. doi:10.1175/JCLIMD-13-00294.
- Trenberth, K. E., and J. T. Fasullo, 2014: An apparent hiatus in global warming? *Earth's Future*. **1**, Doi: 10.002/2013EF000165.
- Tilmes, S, J. Fasullo, J.-F. Lamarque, D.R. Marsh, M. Mills, K. Alterskjær, H. Muri, J. E. Kristjánsson, O. Boucher, M. Schulz, J. N. S. Cole, C. L. Curry, A. Jones, J Haywood, Peter J. Irvine, D. Ji, J.C. Moore, D.B. Karam, B. Kravitz, P. J. Rasch, B. Singh, Jin-Ho Yoon, U. Niemeier, H. Schmidt, A. Robock, S. Yang, and S. Watanabe, 2013: The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP), *J. Geophys. Res. Atmos.*, **118**, doi:10.1002/jgrd.50868.
- Fasullo, J. T., C. Boening, F. W. Landerer, and R. S. Nerem, 2013: Australia's unique influence on global sea level in 2010–2011, *Geophys. Res. Lett.*, **40**, 4368–4373, doi:10.1002/grl.50834.
- Abraham, J.P., M. Baringer, N.L. Bindoff, T. Boyer, L.J. Cheng, J.A. Church, J.L. Conroy, C.M. Domingues, J.T. Fasullo, J. Gilson, G. Goni, S.A. Good, J. M. Gorman, V. Gouretski, M. Ishii, G.C. Johnson, S. Kizu, J.M. Lyman, A. M. Macdonald, W.J. Minkowycz, S.E. Moffitt, M.D. Palmer, A.R. Piola, F. Reseghetti, K. Schuckmann, K.E. Trenberth, I. Velicogna, J.K. Willis, 2013: A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change, *Rev. Geophys.*, **51**, 450–483, doi:10.1002/rog.20022.
- Trenberth, K.E., and J.T. Fasullo, 2013: Regional energy and water cycles: Transports from ocean to land, *J. Climate*, **26**, 7837–7851. doi:10.1175/JCLI-D-13-00008.1
- Mayer, M., K. E. Trenberth, L. Haimberger, J. T. Fasullo, 2013: The response of tropical atmospheric energy budgets to ENSO. *J. Climate*, **26**, 4710–4724. doi:10.1175/JCLI-D-12-00681.1

- Gettelman, A., J. E. Kay, J. T. Fasullo, 2013: Spatial decomposition of climate feedbacks in the Community Earth System Model. *J. Climate*, **26**, 3544-3561. doi:10.1175/JCLI-D-12-00497.1
- Meehl, G. A., A. Hu, J. M. Arblaster, J. Fasullo, K. E. Trenberth, 2013: Externally forced and internally generated decadal climate variability associated with the Interdecadal Pacific Oscillation. *J. Climate*, **26**, 7298–7310, doi: <http://dx.doi.org/10.1175/JCLI-D-12-00548.1>
- Trenberth, K. E., and J. T. Fasullo 2013: North American water and energy cycles, *Geophys. Res. Lett.*, **40**, 365-369, doi:10.1002/grl.50107.
- Schneider, D. P., C. Deser, J. Fasullo, and K. E. Trenberth 2013: Climate Data Guide spurs discovery and understanding, *Eos Trans. AGU*, **94** (13), 121, doi: 10.1002/2013EO130001.
- Fasullo, J. T., and K. E. Trenberth, 2012: A less cloudy future: The role of subtropical subsidence in climate sensitivity, *Science*, **338**, 6108, 792-794, DOI: 10.1126/science.1227465.
- Boening, C., F. W. Landerer, R.S. Nerem, J.K. Willis, J.T. Fasullo, 2012: The 2011 La Niña: So strong, the oceans fell, *Geophys. Res. Lett.*, **39**, L19602, doi:10.1029/2012GL053055.
- Trenberth, K.E., and J.T. Fasullo, 2012: Climate extremes and climate change: The Russian heat wave and other climate extremes of 2010, *J. Geophys. Res.*, **117**, D17103, doi:10.1029/2012JD018020.
- Fasullo, J.T., 2012: A mechanism for land-ocean contrasts in global monsoon trends in a warming climate, PAGES Special Issue on Global Monsoons, *Climate Dyn.*, **39**, 1137-1147, doi: 10.1007/s00382-011-1270-3.
- Jochum, M., A. Jahn, S. Peacock, D. Bailey, J. Fasullo, J. Kay, S. Levis, and B. Otto-Bliesner, 2012: True to Milankovitch: Glacial Inception in the new Community Climate System Model. *J. Climate*. **25**, 2226-2239 doi:10.1175/JCLI-D-11-00044.1.
- Trenberth, K. E. and J. T. Fasullo, 2011: Tracking Earth's energy: From El Niño to global warming. *Surveys in Geophysics, Special Issue*, **33**, 413-426, doi:10.1007/s10712-011-9150-2.
- Trenberth, K.E., J. T. Fasullo and J. P. Abraham, 2011: Commentary: Issues in establishing climate sensitivity in recent studies, *Remote Sens.* 2011, **3**(9), 2051-2056; doi:10.3390/rs3092051.
- Meehl, G. A., J. M. Arblaster, J. T. Fasullo, A. Hu and K. E. Trenberth 2011: Model-based evidence of deep-ocean heat uptake during surface-temperature hiatus periods, *Nature Climate Change*, **1**, 360–364, DOI: 10.1038/NCLIMATE1229.
- Trenberth, K. E., J. T. Fasullo and J. Mackaro 2011: Atmospheric moisture transports from ocean to land and global energy flows in reanalyses, *J. Climate*, **24**, 4907-4924. doi: 10.1175/2011JCLI4171.1.
- Huber, M., R. Knutti, I. Mahlstein, M. Wild, and J. T. Fasullo, 2011: Constraints on climate sensitivity from radiation patterns in climate models, *J. Climate*, **24**,1034-1052, doi: 10.1175/2010JCLI3403.1.
- Han, W. and co-authors, 2010: Patterns of Indian Ocean Sea Level Change in a Warming Climate, 2010: *Nature Geosciences*, **3**, 546 - 550, doi:10.1038/NNGEO901.
- Fasullo, J.T. 2010:Robust land-ocean contrasts in energy and water cycle feedbacks, *J. Climate*, **23**, 4677–4693, doi:10.1175/2010JCLI3451.1.
- Yoo, S., J. Fasullo, S. Yang, and C. Ho (2010), On the relationship between Indian Ocean sea surface temperature and the transition from El Niño to La Niña, *J. Geophys. Res.*, **115**, D15114, doi:10.1029/2009JD012978.
- Trenberth, K.E., Fasullo, J.T., 2010:Tracking Earth's Energy, *Science*, **328**, 316-317, doi:10.1126/science.118727.
- Trenberth, K. E., J. T. Fasullo, C. O'Dell, and T. Wong, 2010: Relationships between tropical sea surface temperature and top-of-atmosphere radiation, *Geophys. Res. Lett.*, **37**, L03702, doi:10.1029/2009GL042314.
- Trenberth, K. E. and J.T. Fasullo, 2010: Simulation of present day and 21st century energy budgets of the southern oceans, *J. Climate*, **23**, 440-454, doi:10.1175/2009JCLI3152.1.
- Menon, S., D. Koch, G. Beig, S. Sahu,, J. Fasullo, and D. Orlikowski: 2009: Black carbon aerosols and the third polar ice cap, *Atmos. Chem. Phys. Discuss.*, **9**, 26593-26625, doi:10.5194/acpd9=265932009.
- Trenberth, K. E., and J. T. Fasullo, 2009: Global warming due to increasing absorbed solar radiation. *Geophys. Res. Lett.*, **36**, L07706, doi:10.1029/2009GL037527.
- Trenberth, K. E. and J. Fasullo, 2009: Changes in the flow of Energy through the Earth's Climate System, *Meteorologische Zeitschrift*, **18**, 4, 369-377, DOI 10.1127/0941-2948/2009/0388.
- Trenberth, K. E., J. Fasullo, and J.T. Kiehl, 2009: Earth's Global Energy Budget. *Bull. Amer. Met. Soc.* **90**, 3, 311-323., DOI:10.1175/2008BAMS2634.1.
- Trenberth, K. E., and J. Fasullo, 2008: Energy budgets of Atlantic hurricanes and changes from 1970, *Geochem. Geophys. Geosyst.*, **9**, Q09V08, doi:10.1029/2007GC001847.
- Trenberth, K. E. and J. T. Fasullo, 2008: An observational estimate of ocean energy divergence, *J.Phys. Ocn.* **38**, 984-999, doi: 10.1175/2007JPO3833.1.
- Fasullo, J. T. and K. E. Trenberth, 2008: The annual cycle of the energy budget: Global mean and land-ocean exchanges, *J. Climate*, **21**, 2297-2313,doi: 10.1175/2007JCLI1935.1.

- Fasullo, J. T. and K. E. Trenberth, 2008: The annual cycle of the energy budget: Meridional structures and poleward transports, *J. Climate*, **21**, 2314-2326, doi: 10.1175/JCLI1936.1.
- Trenberth, K. E. L. Smith, T. Qian, A. Dai. and J. Fasullo, 2007: Estimates of the global water budget and its annual cycle using observational and model data, *J. Hydro. Met.*, **8**, 758-769, doi:10.1175/JHM600.1.
- Trenberth, K. E. , C. A. Davis, and J. T. Fasullo, 2007: The water and energy budget of hurricanes: Case studies of Ivan and Katrina. *J. Geophys. Res.-Atmos.*, **112**, D23106, doi:10.1029/2006JD008303.
- Trenberth, K. E. and J. T. Fasullo, 2007: The water and energy budgets of hurricanes and implications for climate change. *J. Geo. Res-Atmos.*, **112**, D23107, doi:10.1029/2006JD008304.
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