

Daniel M. Gilford, PhD

POSTDOCTORAL ASSOCIATE AT RUTGERS UNIVERSITY

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Education

Massachusetts Institute of Technology

DOCTOR OF PHILOSOPHY (PH.D.), ATMOSPHERIC SCIENCE

Thesis: [The Tropopause Region Thermal Structure and Tropical Cyclones](#)

Cambridge, MA

2018

The Florida State University

BACHELOR OF SCIENCE (B. S.), METEOROLOGY

Minor in Applied Mathematics; Graduated Summa Cum Laude; Cumulative GPA: 4.0

Tallahassee, FL

2012

Professional & Teaching Experience

2018-now	Postdoctoral Associate , Rutgers University, Department of Earth and Planetary Science	New Brunswick, NJ
Spr. 2016	Teaching Assistant , Global Warming Science - 12.340x MITx - EAPS Department	Cambridge, MA
Fall 2014	Teaching Assistant , Discover Earth Atmospheric and Planetary Sciences MIT - EAPS Department	Cambridge, MA
2013-2015	Lecturer , Climate Change Science MIT IAP - Joint Program the Science & Policy of Global Change	Cambridge, MA
Sum. 2011	Hollings Scholarship Summer Intern , NOAA's National Climatic Data Center (NCDC)	Asheville, NC
2010-2012	Undergraduate Research Assistant , Center for Ocean Atmospheric Prediction Studies	Tallahassee, FL

Publications

- Hamlington, B. D., (and the NASA Sea Level Change Science Team, including **D. M. Gilford**), 2020: Understanding of Contemporary Regional Sea-level Change and the Implications for the Future. *Rev. Geophys.*, *in press*.
- Gilford, D. M.**, E. L. Ashe, R. E. Kopp, R. M. DeConto, D. Pollard, A. Rovere, 2019: Could the Last Interglacial Constrain Projections of Future Antarctic Ice Mass Loss and Sea-level Rise? *JGR-Earth Surface*, *in minor revision (Feb. 2020)*.
- Shields, S., A. A. Wing, and **D. M. Gilford**, 2019: A Global Analysis of Interannual Variability of Potential and Actual Tropical Cyclone Intensities. *Geophys. Res. Lett.*, *in revision*.
- DeConto, R. M., Pollard, D., Alley, R. B., Velicogna, I., Gasson, E., and **D. M. Gilford**, 2019: The Paris Climate Agreement and Future Sea Level Rise from Antarctica. *Nat. Clim. Change*, *in revision*.
- Gilford, D. M.**, S. Solomon, and K. A. Emanuel, 2019: Seasonal Cycles of Along-Track Tropical Cyclone Maximum Intensity. *Mon. Wea. Rev.*, **147**, 2417–2432.
- Gilford, D. M.**, S. Solomon, and K. A. Emanuel, 2017: On the Seasonal Cycles of Tropical Cyclone Potential Intensity. *J. Climate*, **30**, 6085–6096.
- Zickfield, K., S. Solomon, and **D. M. Gilford**, 2017: Centuries of Thermal Sea Level Rise Due to Anthropogenic Emissions of Short-Lived Greenhouse Gases. *PNAS*, **114**, 657–662.
- Gilford, D. M.**, and S. Solomon, 2016: Radiative Effects of Stratospheric Seasonal Cycles in the Tropical Upper Troposphere and Lower Stratosphere. *J. Climate*, **30**, 2769–2783.
- Gilford, D. M.**, S. Solomon, and R. W. Portmann, 2016: Radiative Impacts of the 2011 Abrupt Drops in Water Vapor and Ozone in the Tropical Tropopause Layer. *J. Climate*, **29**, 595–612.
- Gilford, D. M.**, S. R. Smith, M. L. Griffin, and A. Arguez, 2013: Southeastern United States Daily Temperature Ranges Associated with the El Niño–Southern Oscillation, *J. Appl. Meteor. and Climatol.*, **52**, 2434–2449.

Honors & Awards

2018	Outstanding Student Paper Award , American Geophysical Union
2014-2016	Earth and Space Science Fellowship , National Aeronautics and Space Administration
2012	AMS Graduate Fellowship , American Meteorological Society
2010	Ernest F. Hollings Undergraduate Scholarship , National Oceanic and Atmospheric Administration

A list of scientific service, public presentations, and professional skills and training is available upon request.