GFDL Awards and Honors – Research, Development, and/or Application 2014 -2019

International

Royal Swedish Academy of Science/Crafoord Prize in Geosciences – Syukuro Manabe, Emeritus (2018): For "his fundamental contributions to understanding the role of atmospheric trace gases in Earth's climate system and for contributing decisive knowledge to aid in combating one of our times greatest global challenges"

BBVA Foundation Frontiers of Knowledge Award for Climate Change – Syukuro Manabe, Emeritus (2017): For "creating the first computer model of climate, which predicted global warming induced by CO_2 emissions"

Divecha Centre for Climate Change, Indian Institute of Science, Bangalore, India / Annual Lecture Series "Jeremy Grantham Lecture on Climate Change" – V. Ramaswamy (2017): "The objective of this center is connecting science to policy makers. An annual invited public lecture called the "Jeremy Grantham Lecture on Climate Change"

World Climate Research Programme/Honorable Mention Model Development 2017 – Lucas Harris (2017): For "for his strong profile and important contributions to weather and climate related model development"

King Abdullah University of Science and Technology Distinguished Lecturer – V. Ramaswamy (2015)

White House

Presidential Rank Award for Distinguished Senior Professionals

V. Ramaswamy (2018): He "enabled the development of a single global modeling system, which is the first of its kind in the world, which reduced the cost and increases the speed for forecasting extreme weather events. He has also made novel scientific discoveries about climate, and steered the creation of the National Oceanic and Atmospheric Administration's first earth system model."

Professional Society

American Geophysical Union

2019 James R. Holton Award – Nadir Jeevanjee (2019): "for recognition of outstanding scientific research and accomplishments of early career scientists in the field"

Revelle Medal – Isaac Held (2018): For "outstanding contributions in atmospheric sciences, atmospheric-ocean coupling, atmospheric-land coupling, biogeochemical cycle, climate or related aspects of the Earth system"

Atmospheric Sciences Ascent Award – Yi Ming (2018): For "innovations and major advances in the understanding of the role of aerosols in radiative forcing, atmospheric dynamics and climate change from the global to regional scales"

2018 James R. Holton Award – Angel Adames-Corailza (2018): For "outstanding scientific research and accomplishments of early-career scientists"

Fellow of AGU – Tom Delworth (2018)

Fellow of AGU – Stephen Griffies (2017)

Atmospheric Science Ascent Award – Larry Horowitz (2017): For "his pioneering research in developing world-leading, global three-dimensional models of atmospheric chemistry particularly as it interfaces with meteorological and climate processes"

2017 Editor's Citation for Excellence in Refereeing - JGR Oceans – Sonya Legg (2017): For "clear and concise reviews of manuscripts, mainly involving interactions among internal waves and topography"

2017 James R. Holton Award – Karin van der Wiel (2017): Her "creative studies of climate extremes, in particular, those involving precipitation"

Bjerknes Lecture – Isaac Held (2016): For "his meritorious work and service toward the advancement and promotion of discovery in Earth and space science for the benefit of humanity"

Cryosphere Early Career Award – Sarah Kapnick (2015): For "her outstanding research which focuses on the mechanisms controlling extreme storms and mountain snowpack"

Journal of Geophysical Research Atmosphere – Paul Ginoux (2015): Editor Citation for Excellence in Referring

AGU Outstanding Student Paper Award – Geeta Persad *(2014):* Similarities in the spatial pattern of the surface flux response to present-day greenhouse gases and aerosols

American Meteorological Society

Fellows of AMS – Tom Delworth (2015), Leo Donner, Rong Zhang (2019)

Fellows of AMS – Shian-Jiann (S.J.) Lin (2018)

Banner I. Miller Award – David S. Nolan, Robert M. Atlas, **Kiernan T. Bhatia**, and Lisa Bucci (2017): For their paper, "Development and validation of a hurricane nature run using joint OSSE nature run and the WRF model"

Henry G. Houghton Award – Yi Ming (2015): For "major advances in the understanding and modeling of the role of atmospheric aerosols in the radiative forcing of regional and global climate"

American Meteorological Society Annual Meeting– **(2nd Place)** Geeta Persad (2015): "Program Committee of the climate variability and Change Conference for her talk, entitled "The regional climate response to absorption-Friven Solar Dimming over East Asia"

Robert E. Horton Lecturer Award for Hydrology – Paul Christopher D. Milly (2015): For "contributions to understanding the earth's hydrological cycle, climate related land-atmosphere processes, and implications of climate trends and variability on hydrology and water resources"

Walter Orr Robert Lecturer in Interdisciplinary Science – V. Ramaswamy (2016): For "pioneering scientific achievement that have synthesized atmospheric radiation, physics of greenhouse gases and aerosols, and state-of-the-art Earth system modeling"

American Association For The Advancement Of Science

Fellows of AAAS - V. Ramaswamy (2016)

Reviewer Recognition

Heather Archambeault (2017): Monthly Weather Review Editor's Award, for ''frequent, exceptional, in-depth reviews with particular recognition for assisting the editors"

Shuguang Wang (2017): Journal of the Atmospheric Sciences Editor's Award, for "consistently excellent, careful, and constructive reviews on a wide variety of topics that helped authors improve their manuscripts"

Sonya Legg (2016): Journal of Physical Oceanography Editor's Award, for "clear and concise reviews of manuscripts, mainly involving interactions among internal waves and topography"

State Department

Bureau of Oceans and International Environmental and Scientific Affairs Certificate of Appreciation – John Dunne (2015): For "contributions to the World Ocean Assessment Review Process"

University, Industry, and External Governmental

The Samuel J. Heyman Service to America Medal Finalist – V. Ramaswamy (2019): For " developing a state-of-the-art modeling system to enhance understanding and prediction of global climate and provide earlier and more accurate forecasts of severe weather events, helping save lives and property"

The Government Executive Theodore Roosevelt Government Leadership Award (in the Partners Category) – Jorge Sarmiento (2019): For "being an inspiring leader in the partnership between Princeton University and NOAA/GFDL to advance weather and climate goals, a partnership that is an established world leader in understanding and predicting weather and climate across time scales from days to decades"

Alfred P. Sloan Foundation-Sloan Research Fellowship in Ocean Sciences – Laure Resplandy (2019)

Princeton University-Stripe Award - Latoyia Kirton (2018): For "her accomplishments in improving service programs, executing operational efficiency and contributing extraordinary support by "going the extra mile" in all that she does for Princeton University and Geophysical Fluid Dynamics Laboratory"

Arnold Guyot Teaching Prize - Spencer Clark (2018): For "excellence in instruction to curriculum and overall contributions to the teaching mission of the EENV/GEO367 Department at Princeton University"

Clarivate Analytics – Highly Cited Researchers for 2018 – Tom Delworth, John Dunne, Paul Ginoux, Stephen Griffies, Isaac Held, Larry Horowitz, Vaishali Naik, Gabriel Vecchi, Andrew Wittenberg (2018): "demonstrated significant influence through publication of multiple highly cited papers during the last decade"

Princeton University-Princeton Institute for Computational Science and Engineering Technical Achievement Award – Youngrak Cho (2017)

Clarivate Analytics – Highly Cited Scientist in Geosciences for 2017 – Thomas Delworth, Paul Ginoux, Isaac Held, Larry Horowitz, Gabriel Vecchi, and Andrew Wittenberg (2017)

University of Albany Excellence in Science and Teaching Award – V. Ramaswamy (2017): For "his distinguished career, lifetime achievements and continuing inspiration to others"

State University of New York Stoney Brook-Robert D. Cess Distinguished Lecturer – Isaac Held (2017): "Theories for the Poleward Heat Flux in the Atmosphere: History and Current Status"

Mentoring Physical Oceanography Women to increase retention, nationwide mentoring organization – Sonya Legg (2016): "Most recently she coordinated the establishment of a CICS/GFDL Diversity Internship program for under graduate and graduate students"

Clarivate Analytics – Highly Cited Scientist in Geosciences for 2016 – Thomas Delworth, Paul Ginoux, Isaac Held, Larry Horowitz, Gabriel Vecchi, and Andrew Wittenberg (2016)

Air & Waste Management Association – Vaishali Naik (2015): For "her efforts in preparing the 2015 Critical Review, "Air Quality and Climate Connections" for the Air & Waste Management Association's 108th Annual Conference in Raleigh, North Carolina"

Princeton University - National Science Foundation Graduate Research Fellowship Program – Nicholas Lutsko (2015)

University of Illinois at Urbana - Ogura Lecture – V. Ramaswamy (2015)

Clarivate Analytics – Highly Cited Scientist in Geosciences for 2015 – Thomas L. Delworth, Paul A. Ginoux, Isaac Held, Larry Horowitz, Ron Stouffer, Gabriel Vecchi, and Andrew T. Wittenberg (2015): Highly Cited Researchers represents some of world's most influential scientific minds. For papers-ranking among the top 1% most cited for their subject field and year of publication, earning them the mark of exceptional impact"

National Air and Space Administration at Langley-Henry J.E. Reid Award – V. Ramaswamy (2015): For his co-authorship of paper "Achieving Climate Change Absolute Accuracy Orbit"

Toastmasters International – Marian Westley (2015): Competent Communicator Award.

ComputerWorld Premier-100 IT leaders for 2015 – Ron Bewtra (2015): "For his displayed exceptional technology leadership in their organizations, fostered ideas and creative work environments, envisioned innovation approaches to business problems and effectively managed IT strategies"

Franklin Institute-Benjamin Franklin Medal in Earth and Environmental Science – Syukuro Manabe, Emeritus (2015): "For his pioneering research on the sensitivity of Earth's climate to increasing carbon dioxide in the atmosphere and his development of global climate models, which have led to fundamental advances in the understanding of climate variability and to methods for predicting future climate change"

Chemical Heritage Foundation - Joseph Priestley Society Lecture – V. Ramaswamy (2015)

Scholarly Publishing and Academic Resources Coalition (SPARC) General Assembly/2014 Best Poster Award – Claire Radley (2014)

American Business Awards Technical Professional of the Year (Gold Stevie Award) – Arpana Radhakrishnan (2014)

Clarivate Analytics (formerly Thomas Reuters) – Highly Cited Scientist in Geosciences for 2014 – Thomas Delworth, Paul Ginoux, Isaac Held, Larry Horowitz, Ronald Stouffer, and Gabriel Vecchi (2014)

Department of Commerce, National Oceanic and Atmospheric Administration, and Office of Oceanic and Atmospheric Research

Department of Commerce Gold Medal Awards

Whit Anderson, Gabriel Vecchi, Rusty Benson, Tom Delworth, Andrew Wittenberg, Keith Dixon, Rich Gudgel, William Stern, Fanrong Zeng and Shaoqing Zhang (2015) - Gold Medal for Scientific/Engineering Achievement – "For outstanding research, leading to improved capability to predict seasonal-to-decadal variations in regional hydrological conditions and extremes"

Department of Commerce Silver Medal Awards

Stephen Griffies, Robert Hallberg, and Matthew Harrison (2019) – For "developing the state-of-the-art Modular Ocean Model version 6 (MOM6) to strengthen the Nation's longer-range environmental prediction capabilities"

Department of Commerce Bronze Medal Awards

Jeff Flick (2016) – "For innovations in climate science, providing the authoritative source of sea surface temperature data for global climate monitoring and assessment"

Douglas Aikin, Rusty A. Benson, Ron Bewtra, James A. Deuringer, Jeffrey D. Flick, Ronald N. Henne, Frank M. Indiviglio, John T. King, Amy Renee Langenhorst, Lawrence J. Lewis, Garrett W. Power, Stephen F. Mayle, Catherine Raphael, John P. Sheldon, Bernard H. Siebers, Thomas E. Taylor, Jeffrey Varanyak, Edward A. Weiss, Robert K. White and William T. Yeager (2014) – For "selfless application of administrative and technical support throughout Hurricane Sandy to protect mission capability, life, and property at NOAA's Geophysical Fluid Dynamics Laboratory"

Ron Bewtra, Jeff Flick, Frank Indiviglio and Bernie Siebers (2014) – "For excellence in transforming NOAA's R&D High Performance Computing System into an enterprise-wide environment, providing new capabilities that enable scientific advancement"

Rusty Benson (2014) – "For dedication in acquiring supercomputing services to sustain production of the nation's operational numerical weather and climate forecast system"

Other Department of Commerce Awards

Order of Sherman's Lagoon Award – Wendy Marshall (2017) – In recognition of "NOAA people who excel at their jobs, achieve a milestone that contributes significantly or critically towards a particular program's goal, or demonstrates leadership toward process improvement of a significant magnitude"

Order of Sherman's Lagoon Award – Maria Setzer (2018) – for professionalism and deft handling of multiple high profile media outlets. She worked to ensure that logistics were handled and scientists involved were well prepared. Impressive results were had with many GFDL activities, including those associated with the announcement of GFDL's FV3 being chosen for NWS's NGGPS. These included events, interviews (print and video) and publications (ex. Time Magazine).

National Weather Service - Certificate of Appreciation at Tropical Cyclone Operations and Research Forum, 71st Interdepartmental Hurricane Conference – Morris Bender and Timothy Marchok (2017) – In recognition of "contributions to the development of the GFDL hurricane model, the model's successful transition to operations, and the continual operational support resulting in steady improvements over its lifetime. These accomplishments contributed to significant advances in numerical modeling of hurricanes, with tremendous societal benefits"

Energy and Water Management Award – Aneet K. Bewtra, Scott P. Burnham, Jeffrey D. Flick, Brendon Johnson, Stephen F. Mayle, John McGreggor, Amy L. McLiverty, Bernard H. Siebers, and Robert Taylor (2014) – "For redesigning GFDL's UPS system, resulting in substantial energy and costs savings"

NOAA Administrator's Awards

Shian-Jiann Lin, Lucas Harris, Rusty Benson, Zhi Liang, Timothy Marchok, Whit Anderson, and V. Ramaswamy (2018) – "Team has been recognized for creating the FV3 Dynamical Core, which has ushered in world-leading seamless modeling of weather and climate and provides a novel prediction system"

Robert Hallberg and Stephen Griffies (2017) – "In recognition of the scientific leadership for the innovation of the versatile community-based Modular Ocean Model"

V. Ramaswamy, Gabriel Vecchi and Isaac Held (2014) – "For scientific expertise, leadership and outstanding contributions to the Fifth Assessment report of the Intergovernmental Panel on Climate Change"

Brian Gross (2014) – "For conceiving and leading the one NOAA climate research supercomputing strategy to advance NOAA's climate modeling in support of the mission goals"

Oceanic and Atmospheric Research Awards

OAR Employee of the Year
Jasmin John (2017) – For "professional excellence across a broad range of technical, scientific, and organizational efforts in a variety of leadership, collaborative and support roles to unselfishly strive to further NOAA's goals for Earth System Science understanding and mandate for environmental stewardship"

Daniel L. Albritton Outstanding Science Communicator – Gabriel Vecchi (2015) – For "his focus on scientific research, building predictive understanding of climate and its impacts, such as hurricanes on timescales of weeks to centuries. Gabriel also has consistently demonstrated an ability to bring Oceanic and Atmospheric Research science to audiences across a broad range of sectors, from educators to local citizens, children to senior business executives, and policy makers to media outlets"

NOAA Research "Outstanding Scientific Paper" Award

Ming Zhao, Isaac Held, V. Ramaswamy, Shian-Jiann Lin, Paul Ginoux, Huan Guo, Leo Donner, Bruce Wyman, Yi Ming and David Paynter (2018) – Recognizes the "preeminent science of OAR employees and affiliates published through rigorous peer review processes. Ming Zhao et.al. Authored "Uncertainty in model climate sensitivity traced to representations to cumulus precipitation micro-physics" published in 2016 in Journal of Climate"

NOAA Distinguished Career Award

Isaac Held (2019) – "For sustained pioneering advances in the understanding of atmospheric dynamics and climate science through fundamental theory and innovative"

Morris Bender (2018) – "For outstanding and sustained efforts to develop a world class tropical cyclone research model and transfer it to operational use for the National Weather Service and the U.S. Navy"

Ronald Stouffer (2016) – "For pioneering the understanding of climate sensitivity through discovery of fundamental mechanisms and global Earth System modeling"

NOAA Leadership Competencies Development Program (LCDP)-Dr. Linda Winner Memorial Award – Jasmin John (2018): "A thoughtful and engaged leader that not only shows up, but steps up. Your classmates are honoring you for not only shedding light on others, and by being a bright light in their worlds. They also honor you for challenging them to acknowledge and respect the roles of introverts, for constantly pushing yourself outside of your comfort zone, and for inspiring them to expand their mindsets to be more inclusive of the different forms strong leaders can take"

GFDL Awards

Amy Langenhorst Unsung Hero Award – Lisa Allen (2018) – For "her sustained, outstanding work which underpins the NOAA GFDL mission; conducted with exceptional selflessness and consideration for others

Amy Langenhorst Unsung Hero Award – Fanrong Zeng (2016) – In recognition for "your exceptional work by those unsung heroes who we all know, and who broadly underpin NOAA OAR science achievements but are often under-recognized by traditional research measures and awards"