

## Dr. Gavin A. Schmidt

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### About

As the Director of GISS and Principal Investigator for the GISS ModelE Earth System Model, I am interested in understanding past, present and future climate and the impacts of multiple drivers of climate change, including solar irradiance, atmospheric chemistry, aerosols, and greenhouse gases. My specific research interests are outlined in [more detail here](#).



### Media and Outreach

#### Communications:

The Stephan Schneider Keynote Lecture at AGU (2013): [What should a climate scientist advocate for?](#) (YouTube video)

I was fortunate to be awarded the Inaugural AGU Climate Communication Prize in 2011. ([AGU Press release](#), [NASA press release](#))

I was also named EarthSky Science Communicator of the year in 2011. ([EarthSky release](#), [podcast](#))

#### Online resources:

- I gave a [TED talk](#) in 2014 on the emergent patterns of climate change.
- ["Eating Salad with a Scientist"](#) (YouTube). An illustrated conversation with me about science, advocacy and public communication.
- [Comprendre le climat: un enjeu de notre siècle](#) (FR) Presentation at the School of Mines, Albi France (May 2016).
- A talk on [Chaos and the Climate](#) at the NY Museum of Math (Oct 2015).
- I have appeared on a couple of recent documentaries by VICE media (HBO) and (mostly in Dutch) [André op Aarde](#) (NTR).
- [Climate drivers, climate change and climate projections \(Webinar\)](#) Kansas University Medical Center, Feb 2012
- [Promise and Pitfalls of Blogging \(YouTube\)](#). A chat with Andy Revkin, Pace University, Feb 2012
- [What are climate models good for? \(video\)](#) Dartmouth College, Dept. of Physics Colloquium, Nov 2011
- [19th Annual Kuenhast Lecture \(video\)](#), University of Minnesota, St. Paul, Oct 13, 2011
- [Thompson Lecturer](#) April 2011, Advanced Study Program, NCAR Boulder (video soon)
- [The Secret Life of Scientists](#) PBS Nova online. Jan 2010
- [Climate Forcings, Climate Models and Climate Change](#) RSE Symposium, New Orleans, Oct 2009.
- [The Physics We Know](#). Video interview for the Edge.org
- The Late Show with David Letterman: [May 6 2009](#)
- [A new kind of scientist](#). Commentary on interdisciplinary collaboration (with E. Moyer). *Nature Reports Climate Change*, Jul 2008.
- [The Uncertainty in Climate Modeling](#), A conversation with Claudia Tebaldi, Leonard Smith and James Murphy. Bulletin of the Atomic Scientists, April 2008.
- The Daily Show with Jon Stewart: [April 23 2007](#)
- This week in Science (podcasts). [24 April 2007](#) and [8 May 2007](#)
- [What good are climate models?](#) Friday Colloquium at the Lamont-Doherty Earth Observatory (April 2007)



- [How Much, How Soon, How Do We Know?](#) Feb. 2006 Adler Planetarium Global Climate Change Forum
- [What's driving climate change?](#) Presentation at the Kavli Frontiers of Science symposium (2005)
- [Understanding Katrina](#) - Nov. 2005 Earth Institute Seminar
- [Why Worry? The Threat of Abrupt Climate Change](#) - Dec. 2004 eBriefing from the New York Academy of Science.
- [Natural and Anthropogenic Drivers of Arctic Climate Change](#) - Oct. 2003 Keynote presentation at SEARCH Open Science Meeting, Seattle.
- [La fulgarante ascension de methane](#) - Popular science article for *La Recherche* (English translation available).
- I am a contributing editor to the website [RealClimate.org](#) which tries to provide context and background on climate science issues that are often missing in popular media coverage (not an official NASA blog).

#### NASA Press releases:

- [2016-08-16: NASA Analysis Finds July 2016 is Warmest on Record](#)
- [2016-07-19: 2016 Climate Trends Continue to Break Records](#)
- [2016-01-20: NASA, NOAA Analyses Reveal Record-Shattering Global Warm Temperatures in 2015](#)
- [2015-12-18: NASA Study: Examination of Earth's Recent History Key to Predicting Global Temperatures](#)
- [2015-01-16: NASA, NOAA Find 2014 Warmest Year in Modern Record\(Press Briefing materials, Audio\)](#)
- [2014-06-09: NASA Names Schmidt Director of the Goddard Institute of Space Studies](#)
- [2014-01-21: NASA Finds 2013 Sustained Long-Term Climate Warming Trend](#)
- [2010-10-14: How Carbon Dioxide Controls Earth's Temperature](#)
- [2010-10-14: Taking Measure of the Greenhouse Effect \(AGU\)](#)
- [2010-01-21: Climatologist Gavin Schmidt Discusses the Surface Temperature Record](#)
- [2009-12-07: Earth More Sensitive to Carbon Dioxide Than Previously Thought](#)
- [2009-10-29: Interactions with Aerosols Boost Warming Potential of Some Gases](#)
- [2008-08-31: Analysis of Past Glacial Melting Shows Potential for Increased Greenland Ice Melt and Sea Level Rise](#)
- [2007-05-30: Research Finds That Earth's Climate is Approaching 'Dangerous' Point](#)
- [2007-03-15: Global "sunscreen" has likely thinned](#)
- [2006-01-10: Researchers Confirm Role of Massive Flood in Climate Change also here](#)
- [2005-08-11: Volcanic Blast Location Influences Climate Reaction](#)
- [2005-07-18: Methane's Impacts on Climate Change May Be Twice Previous Estimates](#)
- [2005-04-28: Earth's Energy Out of Balance](#)
- [2004-11-09: NASA Climatologists Named in Scientific American Top 50 Scientists](#)
- [2004-10-06: Study Shows Potential for Antarctic Climate Change](#)
- [2001-12-10: Methane Explosion Warmed the Prehistoric Earth, Possible Again](#)
- [2001-12-06: The Sun's Chilly Impact on Earth](#)
- [2001-11-19: Ocean Circulation Shut Down by Melting Glaciers After Last Ice Age](#)
- [2001-04-23: Greenhouse Gases Main Reason for Quicker Northern Winter Warming](#)

#### Science briefs:

- [Accounting for Climate's Backseat Drivers](#) (Oct 2015)
- [Taking the measure of the greenhouse effect](#) (Oct 2010)
- [The Physics of Climate Modeling](#) (Jan 2007)
- [Modeling Abrupt Climate Change](#) (Jan 2006)
- [Tracing the water cycle](#) (Dec 2005)
- [Ocean burps and climate change?](#) (Jan 2003)
- [Cold Climates, warm climates: How can we tell past temperatures?](#) (Jan 1999)

#### Books and Book Chapters:

- [Climate Change: Picturing the Science](#) (co-authored by Joshua Wolfe), 2009, W.W. Norton, pp320
- "The Ties That Bind: Why Specialization Need Not Lead to the Balkanization of Science" in *What's Next: Dispatches on the Future of Science* (2009). M. Brockman, Ed. Vintage,
- [La modélisation de variations climatiques](#). in *L'Homme face au climat* (2006). E. Bard, Ed. Odile-Jacob, pp. 103-130

#### Book Reviews:

- ["On Scientists and Advocacy"](#) *Science*, April 2014. A review of "Beyond the Curve" by Joshua Howe.
- "Science as Contact Sport: Stephen Schneider's Legacy Lives On in His Last Book", *Earth Magazine*, July 2011, p53
- A review of "Climate Change and Climate Modeling" by David Neelin, *EOS*, 92, 7 June, 2011, p198-199

- [Sowing Seeds Of Doubt: How some scientists can twist the facts to suit ends other than scientific truth](#), *Chemical and Engineering News*, Jan 2011. A review of "The Merchants of Doubt" by Naomi Oreskes and Eric Conway.
- [The significance of small things: Should scientists review other scientists' books?](#) *Nature Reports Climate Change*, Jan 2008. A review of "What We Know About Climate Change" by Kerry Emanuel
- [Clouding the issue of climate](#) *Physics World*, Jun 2007. A review of "The Chilling Stars" by H. Svensmark and N. Calder
- [Distort Reform](#) - Grist Magazine. A review of the distorted science in Michael Crichton's *State of Fear*

## Chaired Workshops

- "Using paleo-climate model/data comparisons to constrain future projections" workshop. Information can be found at the [CLIVAR/PAGES workshop website](#). (Information related to the CMEP conference on analysis of the CMIP5 simulations is available [here](#)).
- "First International workshop on Climate Informatics" was held in August 2011 at the New York Academy of Sciences. Information and presentations can be found on the [workshop Google pages](#).
- "AR5 Science Workshop" was held on Nov 17-19, 2008 in New York City. Information can be found [here](#). ([Final report](#))
- "The Leverhulme Climate Symposium 2008 - Earth's Climate: Past, Present and Future", workshop report [Improving future climate prediction using palaeoclimate data](#) by Henderson et al. (2009).

## Community Activities

- Associate Editor, *Journal of Climate*
- Chair of AGU Climate Communication Prize award committee (2014-2015)
- Co-chair of the [PAGES/CLIVAR Intersection Panel](#) (2008-2013)
- Member of the [Community Advisory Board](#) for the NCAR CESM (2008-2014)

## Address

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\*Please note that emails sent to government addresses may be subject to disclosure under FOIA and that you should have no expectation of privacy. If you want to contact me in a non-official capacity, please do so via my [columbia email](#). (Replace the -at- with the @ sign).