

**Ronald J. Stouffer**  
**Senior Research Physical Scientist (Retired)**  
**Geophysical Fluid Dynamics Laboratory (GFDL)**  
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**EDUCATION**

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| <i>Pennsylvania State University, State College, PA</i><br><b>MS Meteorology</b> | <b>1977</b> |
| <i>Pennsylvania State University, State College, PA</i><br><b>BS Meteorology</b> | <b>1976</b> |

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**BRIEF BIOGRAPHY**

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Ronald J. Stouffer is a former senior research climatologist at the Geophysical Fluid Dynamics Laboratory (GFDL), Princeton, NJ, a federal research laboratory within the Office of Oceanic and Atmospheric Research, National Oceanic and Atmospheric Administration, of the U.S. Department of Commerce. Stouffer is one of the leading climate modelers in the world, and uses complex numerical models to study and predict the behavior of the earth's climate system. Because of his scientific contributions to climate research over the past two decades, he has been a central contributor to the first four Working Group 1 assessment reports from the Intergovernmental Panel for Climate Change (IPCC) and has been a chapter author for the 1995, 2001 and 2007 reports.

Stouffer first came to GFDL in 1977 from the Pennsylvania State University where he received both Bachelor's and Master's degrees in Meteorology. During his 38-year tenure at GFDL ending in 2015, he has worked closely with Syukuro Manabe, who was the first scientist to develop a numerical model that joined the atmosphere and ocean into a single coupled model to represent the earth's climate system and a Nobel Prize winner in 2022. Stouffer has published a number of ground-breaking papers and has authored over 170 papers on global climate change.

In addition to his responsibilities as IPCC chapter author, Stouffer was a member and chair of the World Climate Research Program (WCRP) Coupled Model Intercomparison Panel (CMIP), an editor of the journal, *Climate Dynamics*, and has received a number of awards, including the WMO Norbert Gerbier-Mumm International Award (1999), the NOAA Administrator's Award (1996, 2008), NOAA's Career Achievement Award (2017), the Department of Commerce Gold (2002), Silver (2005) and Bronze (2007) medals and five NOAA Distinguished Authorship Awards. In 2024, he was awarded the Syukuro Manabe Climate Research Award by the American Meteorological Society. He is a fellow of the American Geophysical Union and the American Meteorological Society and also a Pennsylvania State University Alumni Fellow.

Stouffer is currently a adjunct professor at the University of Arizona.

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**LEADERSHIP**

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| Group Head, Climate and Ecosystems Group at GFDL                                                                                                                                                                    | <b>2009-2016</b> |
| WGI: Author Chapter 8 "Assessment of Climate Models" Contributor to Chapter 1, 10, Technical Summary Author draft of Policymaker's Summary and Synthesis Document. Reviewer of many IPCC publications.              | <b>2007</b>      |
| WGI: Author Chapter 9 "Projections of Future Climate Change," Contributor to Chapter 8, 11, 14, Technical Summary. Author draft of Policymaker's Summary, attended final drafting session of Policymaker's Summary. | <b>2001</b>      |
| WGII: Author "The regional impacts of climate change, An Assessment of Vulnerability"                                                                                                                               | <b>2000</b>      |
| WGI: Author Chapter 6 "Climate Model - Projections of Future Climate" Contributor to Chapter 5                                                                                                                      | <b>1995</b>      |
| WGI: Contributor to Section B                                                                                                                                                                                       | <b>1992</b>      |
| WGI: Contributor to Chapter 5, 6                                                                                                                                                                                    | <b>1990</b>      |
| WCRP PMIP2 panel: Paleo-Modeling Intercomparison Project Panel                                                                                                                                                      | <b>2003-2008</b> |
| WCRP Working Group on Climate Models (WGCM): Coupled Model Intercomparison Project Panel Chair                                                                                                                      | <b>2006-2015</b> |
| WCRP Working Group on Climate Models (WGCM): Coupled Model Intercomparison Project Panel                                                                                                                            | <b>1996-2020</b> |
| WCRP Working Group on Climate Modeling                                                                                                                                                                              | <b>1996-2000</b> |
| WCRP Numerical Experimentation Group II: Decadal to Centennial Time Scales                                                                                                                                          | <b>1993-1996</b> |
| WCRP Steering Group on Global Climate Modeling                                                                                                                                                                      | <b>1990-1993</b> |
| PCMDI Advisory Panel                                                                                                                                                                                                | <b>2002-2009</b> |
| NCAR GCD Advisory Panel                                                                                                                                                                                             | <b>2005</b>      |

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## PUBLICATIONS

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- - Naiman, Z, P J Goodman, John P Krasting, Sergey Malyshev, J L Russell, Ronald J Stouffer, and Andrew T Wittenberg, June 2017: **Impact of mountains on tropical circulation in two Earth System Models**. *Journal of Climate*, **30(11)**, DOI:10.1175/JCLI-D-16-0512.1 .
  - Stouffer, Ronald J., V Eyring, G A Meehl, S Bony, C A Senior, B Stevens, and K E Taylor, January 2017: **CMIP5 Scientific Gaps and Recommendations for CMIP6**. *Bulletin of the American Meteorological Society*, **98(1)**, DOI:10.1175/BAMS-D-15-00013.1 .
  - Stouffer, Ronald J., and Syukuro Manabe, March 2017: **Assessing temperature pattern projections made in 1989**. *Nature Climate Change*, **7(3)**, DOI:10.1038/nclimate3224 .
  - Eyring, V, S Bony, G A Meehl, C A Senior, B Stevens, Ronald J Stouffer, and K E Taylor, May 2016: **Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organisation**. *Geoscientific Model Development Discussion*, **9(5)**, DOI:10.5194/gmdd-8-10539-2015
  - Eyring, V, P J Gleckler, C Heinze, Ronald J Stouffer, K E Taylor, V Balaji, and E Guilyardi, et al., November 2016: **Towards improved and more routine Earth system model evaluation in CMIP**. *Earth System Dynamics*, **7(4)**, DOI:10.5194/esd-7-813-2016 .
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- Gleckler, P J., P J Durack, and Ronald J Stouffer, et al., April 2016: **Industrial-era global ocean heat uptake doubles in recent decades**. *Nature Climate Change*, **6(4)**, DOI:10.1038/nclimate2915 .
  - Griffies, Stephen M., G Danabasoglu, P J Durack, Alistair Adcroft, V Balaji, C Boning, E P Chassignet, E N Curchitser, J Deshayes, H Drange, B Fox-Kemper, P J Gleckler, J M Gregory, H Haak, Robert Hallberg, H T Hewitt, D M Holland, T Ilyina, J H Jungclaus, Y Komuro, John P Krasting, W G Large, S J Marsland, S Masina, T J McDougall, A J George Nurser, James C Orr, A Pirani, F Qiao, Ronald J Stouffer, K E Taylor, A M Treguier, H Tsujino, P Uotila, M Valdivieso, Michael Winton, and S G Yeager, September 2016: **OMIP contribution to CMIP6: experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project**. *Geoscientific Model Development*, **9(9)**, DOI:10.5194/gmd-9-3231-2016 .
  - Krasting, John P., John P Dunne, Ronald J Stouffer, and Robert Hallberg, March 2016: **Enhanced Atlantic sea-level rise relative to the Pacific under high carbon emission rates**. *Nature Geoscience*, **9(3)**, DOI:10.1038/ngeo2641 .
  - Malyshev, Sergey, Elena Shevliakova, Ronald J Stouffer, and S W Pacala, July 2015: **Contrasting Local vs. Regional Effects of Land-Use-Change Induced Heterogeneity on Historical Climate: Analysis with the GFDL Earth System Model**. *Journal of Climate*, **28(13)**, DOI:10.1175/JCLI-D-14-00586.1 .
  - Milly, P C., J Betancourt, M Falkenmark, R M Hirsch, Z W Kundzewicz, D Lettenmaier, Ronald J Stouffer, M D Dettinger, and V Krysanova, September 2015: **On Critiques of "Stationarity is Dead: Whither Water Management?"**. *Water Resources Research*, **51(9)**, DOI:10.1002/2015WR017408 .
  - Krasting, John P., John P Dunne, Elena Shevliakova, and Ronald J Stouffer, April 2014: **Trajectory sensitivity of the transient climate response to cumulative carbon emissions**. *Geophysical Research Letters*, **41(7)**, DOI:10.1002/2013GL059141 .
  - Meehl, G A., R H Moss, K E Taylor, V Eyring, and Ronald J Stouffer, et al., March 2014: **Climate Model Intercomparisons: Preparing for the Next Phase**. *EOS*, **95(9)**, DOI:10.1002/2014EO090001 .
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  - Dunne, John P., Jasmin G John, Elena Shevliakova, Ronald J Stouffer, John P Krasting, Sergey Malyshev, P C D Milly, Lori T Sentman, Alistair Adcroft, William F Cooke, Krista A Dunne, Stephen M Griffies, Robert Hallberg, Matthew J Harrison, Hiram Levy II, Andrew T Wittenberg, Peter Philipps, and Niki Zadeh, April 2013: **GFDL's ESM2 global coupled climate-carbon Earth System Models Part II: Carbon system formulation and baseline simulation characteristics**. *Journal of Climate*, **26(7)**, DOI:10.1175/JCLI-D-12-00150.1 .
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  - Shevliakova, Elena, Ronald J Stouffer, Sergey Malyshev, John P Krasting, G C Hurtt, and S W Pacala, October 2013: **Historical warming reduced due to enhanced land carbon uptake**. *Proceedings of the National Academy of Sciences*, **110(42)**, DOI:10.1073/pnas.1314047110 .
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  - Stouffer, Ronald J., June 2012: **Oceanography: Future impact of today's choices.** *Nature Climate Change*, **2(6)**, DOI:10.1038/nclimate1550 .
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