

STOUFFER, Ronald
Geophysical Fluid Dynamics Laboratory

A. PROFESSIONAL PREPARATION:

Pennsylvania State University	Meteorology	B.S. 1976
Pennsylvania State University	Meteorology	M.S. 1977

B. APPOINTMENTS:

2009 – present	Head of Climate and Ecosystem group GFDL
1977 - present	Research Scientist Geophysical Fluid Dynamics Laboratory
March 1976 - August 1977	Part-time Asst. Graduate Student, Pennsylvania State University

C. PUBLICATIONS:

5 Most Relevant to proposed work

- Russell, J L., Keith W Dixon, Anand Gnanadesikan, Ronald J Stouffer, and J Robert Toggweiler, 2006: The Southern Hemisphere westerlies in a warming world: Propping open the door to the deep ocean. *Journal of Climate*, 19(24), <http://dx.doi.org/10.1175/JCLI3984.1>.
- Russell, J L., Ronald J Stouffer, and Keith W Dixon, 2006: Intercomparison of the Southern Ocean Circulations in IPCC Coupled Model Control Simulations. *Journal of Climate*, 19(18), <http://dx.doi.org/10.1175/JCLI3869.1>.
- Sarmiento, Jorge L., T M C Hughes, Ronald J Stouffer, and Syukuro Manabe, 1998: Simulated response of the ocean carbon cycle to anthropogenic climate warming. *Nature*, 393(6682), 245-249. <http://dx.doi.org/10.1038/30455>.
- Manabe, Syukuro, Ronald J Stouffer, Michael J Spelman, and Kirk Bryan, 1991: Transient responses of a coupled ocean-atmosphere model to gradual changes of atmospheric CO₂. Part I: Annual mean response. *Journal of Climate*, 4(8), 785-818. [http://dx.doi.org/10.1175/1520-0442\(1991\)004<0785:TROACO>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(1991)004<0785:TROACO>2.0.CO;2).
- Randall, D A., et al., 2007: Climate models and their evaluation In *Climate Change 2007: The Physical Science Basis*, Cambridge, UK, Cambridge University Press, 589-662.

5 Other Significant Publications

- Solomon, S, D Qin, M Manning, V Ramaswamy, and Ronald J Stouffer, et al., 2007: Technical summary In *Climate Change 2007: The Physical Science Basis*, Cambridge, UK, Cambridge University Press, 19-92.
- Stouffer, Ronald J., Dan Seidov, Bernd J. Haupt, 2007: Climate Response to External Sources of Freshwater: North Atlantic versus the Southern Ocean. *J. Climate*, 20, 436–448. <http://dx.doi.org/10.1175/JCLI4015.1>.
- Stouffer, Ronald J., Syukuro Manabe, and Kirk Bryan, 1989: Interhemispheric asymmetry in climate response to a gradual increase of atmospheric CO₂. *Nature*, 342, 660-662. <http://dx.doi.org/10.1038/342660a0>.
- Stouffer, Ronald J., J L Russell, and Michael J Spelman, 2006: Importance of oceanic heat uptake in transient climate change. *Geophysical Research Letters*, 33(17), L17704, <http://dx.doi.org/10.1029/2006GL027242>.
- Stouffer, Ronald J., 2004: Time scales of climate response. *Journal of Climate*, 17(1), 209-217. [http://dx.doi.org/10.1175/1520-0442\(2004\)017<0209:TSOOCR>2.0.CO;2](http://dx.doi.org/10.1175/1520-0442(2004)017<0209:TSOOCR>2.0.CO;2).

D. SYNERGISTIC ACTIVITIES

IPCC Contributions:

- 2001 WGI Author draft of Policymaker's Summary, attended final drafting session of Policymaker's Summary.
- 2007 WGI : Author Chapter 8 "Assessment of Climate Models"
- 2007 WGI Contributor to Chapter 1, 10, Technical Summary

- 2007 WGI Author draft of Policymaker's Summary and Synthesis Document.
- 2008-2009 Member of Steering Committee on New Scenarios

E. COLLABORATORS AND OTHER AFFILIATIONS

Collaborators and Co-Editors within the past 48 months

Adcroft, A. (Princeton); Alaka, G. (CSU); Alexander, M. A. (NOAA/ESRL); Betancourt, J. (USGS); Boer, G. (Environment Canada); Bond, N. A. (Washington); Brander, K. M. (Tech. U. Denmark); Broccoli, A. (Rutgers); Brooks, H.E. (NOAA/NSSL); Carter, T. R. (Finnish Env. Inst.); Cheung, W. W. L. (E. Anglia); Cooke, W. (HPTi); Curchitser, E. (Rutgers); Danabasoglu, G. (NCAR); Delworth, T. (GFDL/NOAA); Dixon, K. (GFDL/NOAA); Donner, L. (GFDL/NOAA); Dunne, J. (GFDL/NOAA); Dunne, K. (US GS); Edmonds, J. A. (PNNL); Emanuel, K.(MIT); Emori, S. (NIES); Fealckenmark, M. (Stockholm Intern. Water Inst.); Freidenreich, S. (GFDL/NOAA); Ginoux, P. (GFDL/NOAA); Giorgetta, M. A.(MPI, Saarbrücken); Goddard, L. (IRI, New York); Golaz, J-C. (GFDL/NOAA); Gordon, T. (deceased); Greene, A. M. (IRI, New York); Griffies, S. (GFDL/NOAA); Gutowski, W. J. (Iowa State); Hallberg, R. (GFDL/NOAA); Haltuch, M. A. (NWFSC/NOAA); Hare, J. A. (NWFSC/NOAA); Harrison, M. (GFDL/NOAA); Hawkins, Ed (Reading); Hay, C. C.(Toronto); Hedin, L. (Princeton); Hegerl, G. C. (Edinburgh); Held, I. (GFDL/NOAA); Hemler, R. S. (GFDL/NOAA); Hibbard, K. A. (NCAR); Hirsch, R. M.(USGS); Holland, G. J. (NCAR); Hollowed, A. B. (AFSC/NOAA); Horowitz, L. (GFDL/NOAA); Hu, A. (NCAR); Hurlin, W. J. (GFDL/NOAA); Hurtt, G. (Maryland); John, J. (GFDL/NOAA); Kainuma, M. (NIES); Karoly, D. (Melbourne); Keel, S. (Princeton); Keenlyside, N. (IFM-GEOMAR); Kimoto, M. (Tokyo); Kirtman, B. (Miami); Klein, S. (LLNL); Knutson, Thomas (GFDL/NOAA); Komar, Paul D. (Oregon State); Kopp, R. E. (Princeton); Kossin, James P. (NOAA); Kram, T. (Netherlands Env. Assess. Ag.); Krasting, J. (GFDL/NOAA); Kundzewicz, Z.(Res. Centre for Agr. & Forest Enirn.); Kunkel, K. (Illinois-Urbana-Champaign); Langenhorst, A. (HPTi); Lee, Hyun-Chul (HPTi); Lehodey, Patrick (MEMMS); Lettenmaier, Dennis P. (Washington); Levin, S. A. (Princeton); Levy, H. (GFDL/NOAA); Lin, Y. (UCAR); Link, J. S. (NFSC/NOAA); Lin, S.-J. (GFDL/NOAA); Magi, B.(UNC-Charlotte); Malyshev, S. (Princeton); Manning, M. R.(NZ Cli. Ch. Res. Inst.); McDonald, R. (Met Office); Mearns, L. O. (NCAR); Meehl, G. A. (NCAR/UCAR); Milly, P. C. D. (USGS); Ming, Y. (GFDL/NOAA); Mitchell, J. F. B. (Met Office); Mitrovica, J. X. (Harvard); Moss, R. H. (PNNL); Murphy, J. (Hadley Centre); Naik, V. (Princeton); Nakicenovic, N. (Vienna U. of Tech.); Nath, M. (GFDL/NOAA); Navarra, A. (INVG); Overpeck, J. (Arizona); Pacala, S.(Princeton); Phillips, P. (GFDL/NOAA); Pincus, R. (NOAA/ESRL); Ploshay, J. J. (GFDL/NOAA); Pulwarty, R. (NOAA/ESRL); Ramaswamy, V. (GFDL/NOAA); Riahi, K. (IIASA, Austria); Rose, S. (EPRI); Russell, J.(Arizona); Rykaczewski, R. (Princeton); Samuels, B. (GFDL/NOAA); Sarmiento, J.(Princeton); Schlesinger, M. E. (Illinois at Urbana-Champaign); Schwarzkopf, M. D.(GFDL/NOAA); Schwing, F. B. (SWFSC/NOAA); Sentman, L. (GFDL/NOAA); Shevliakova, Em (Princeton); Sirutis, J. (GFDL/NOAA); Smith, D. (Hadley Centre, UK); Smith, S. (PNNL); Spelman, M. (NOAA/GFDL (Retired)); Stammer, D. (Hamburg); Stenchikov, G. (KAUST, Saudi Arabia); Stern, W. (GFDL/NOAA); Stock, C. (GFDL/NOAA); Stockdale, T. (ECMWF); Taylor, K. (PCMDI); Thomson, A. M. (PNNL); Trapp, R. J. (Purdue); van Vuuren, Detlef P. (Netherlands Env. Assess. Ag.); Vecchi, G. (GFDL/NOAA); Webster, P. J. (GATECH); Wehner, M. F. (LBNL); Werner, F. E. (NOAA/SWFSC); Weyant, J. P. (Stanford); Wilbanks, T. (ORNL); Wilson, R. J. (GFDL/NOAA); Winton, M. (GFDL/NOAA); Wittenberg, A. (GFDL/NOAA); Wyman, B. (GFDL/NOAA); Zadeh, N. (HPTi); Zeng, F. (GFDL/NOAA); Zhang, R. (GFDL/NOAA); Zhao, M. (GFDL/NOAA); Zwiers, F. W. (Environment Canada)

Graduate Advisors and Postdoctoral Sponsors

Cahir, John - Thesis Advisor Penn State

Panofsky, Hans - Thesis Advisor Penn State

Thesis Advisor and Postgraduate-Scholar Sponsor: (Total = 1)

Yin, Jianjun - Postdoctoral Advisor (now at University of Arizona)