

## Stephen G. Yeager

[www.cgd.ucar.edu/oce/yeager/yeager.html](http://www.cgd.ucar.edu/oce/yeager/yeager.html)

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- Ranked #1358 in US for Environmental Sciences by research.com (D-index: 44)

EDUCATION

2013 Ph.D., University of Colorado, Atmospheric and Oceanic Science  
1998 M.Sc., Brown University, Physics  
1993 B.A., Dartmouth College, Physics (*summa cum laude* with high honors)

APPOINTMENTS

2018- Project Scientist III, CGD, NCAR  
2013-18 Project Scientist II, CGD, NCAR  
2009-13 Project Scientist I, CGD, NCAR  
2004-09 Associate Scientist III, CGD, NCAR  
1998-04 Associate Scientist II, CGD, NCAR

HONORS AND AWARDS

2023 NCAR Education, Engagement, & Early-Career Development (EdEC) Special Recognition Award (outstanding work in support of the NCAR Explorer Series)  
2022 Community Earth System Model (CESM) Distinguished Achievement Award  
2020 Special Recognition Award, CGD (for Yeager et al., BAMS, 2018, doi:10.1175/BAMS-D-17-0098.1)  
2016 Eos Research Spotlight, "Atlantic Sea Ice Could Grow in the Next Decade", American Geophysical Union, 4 February 2016 (for Yeager et al., *GRL*, doi:10.1002/2015GL065364, 2015).  
2014 Outstanding Publication Award, University Corporation for Atmospheric Research (UCAR), December 2014 (for Yeager et al., *J. Climate*, 2012, doi:10.1175/JCLI-D-11-00595.1).  
2014 Special Recognition Award, CGD  
2010 Special Recognition Award, Computational & Information Systems Lab (CISL)  
1997 University Fellowship, Brown University  
1993 Haseltine Physics prize, Dartmouth College  
1992 Phi Beta Kappa, Dartmouth College  
1990/2/3 Rufus Choate Scholar (top 5% of class), Dartmouth College  
1991 Second Honor Group (top 15% of class), Dartmouth College

SERVICE AND LEADERSHIP

2022- **Editor:** Journal of Climate  
2022-23 **Associate Editor:** Frontiers in Climate (Predictions and Projections)  
2022- **Doctoral Thesis Committee Member:** Taydra Low (University of Wisconsin Madison; advisor: Elizabeth Maroon)  
2021- **Doctoral Thesis Committee Member:** Sam Mogen (University of Colorado Boulder; advisor: Nicole Lovenduski)  
2020-2023 **Mentor:** Xian Wu (NCAR Advanced Study Program Postdoctoral Fellow)  
2020- **Co-chair:** CESM Earth System Prediction Working Group  
2019-2022 **Co-lead:** Earth System Prediction Project, CGD  
2019- **Co-chair:** Decadal Climate Prediction Project (DCPP) Panel, World Climate Research Programme (WCRP)

- 2018-2022 **Panel Member:** Ocean Model Development Panel (OMDP), International CLIVAR
- 2014- **Supervisor:** Who Kim
- 2019-22 **Steering Committee Member:** iHESP (International Laboratory for High-Resolution Earth System Prediction)
- 2020 **Co-Convener/Chair:** Advances in Earth System Prediction Across Timescales, eLightening Session, AGU Fall Meeting, December 2020, San Francisco (virtual)
- 2020 **Co-Convener/Chair:** Seasonal to Decadal Climate Prediction Session, American Meteorological Society (AMS) Centennial Meeting, January 2020, Boston
- 2019 **Co-Convener:** WCRP Townhall on subseasonal to decadal prediction, American Geophysical Union (AGU) Fall Meeting, December 2019, San Francisco
- 2019 **Expert Panel Member:** 2019 UCAR Journalism Summit
- 2019 **Mentor:** Daniela Faggiani Dias (NCAR Advanced Study Program Graduate Student Visitor)
- 2018-19 **Supervisor:** Elizabeth Maroon
- 2018-19 **Coordinator:** 2018-2019 CGD Seminar Series
- 2018 **Review Panel Member:** DOE Regional and Global Model Analysis (RGMA) Panel Review (Washington D.C.)
- 2018 **Organizing Committee:** Seasonal to Decadal science program, International Conference on Subseasonal to Decadal Prediction (September 2018, Boulder, CO)
- 2017 **Review Panel Member:** NOAA-OOMD Transport Mooring Review Expert Panel (Miami, FL)
- 2015-16 **Supervisor:** Fred Castruccio
- 2015-16 **Chair:** Task Team 3, U.S. AMOC Executive Committee
- 2015 **External Reviewer:** German MiKlip Decadal Prediction Project renewal
- 2015 **Organizing Committee:** UK RAPID/US AMOC International Science Meeting (Bristol, UK)
- 2015 **Mentor:** Hrishikesh Chandanpurkar (NCAR Advanced Study Program Graduate Student Visitor; 08/2015-01/2016)
- 2015 **Participant:** UCAR Manager Mojo leadership program
- 2014-15 **Committee Member:** Organizing Committee of the Community Earth System Model (CESM) Tutorial Workshop (Boulder, CO)
- 2014 **Committee Member:** Organizing Committee of the U.S. AMOC Science Team Meeting (Seattle, WA)
- 2013-15 **Vice-Chair:** Task Team 3, U.S. AMOC Executive Committee
- 2004-09 **Science Liaison:** Community Climate System Model Ocean Model Working Group
- 1993-95 **Volunteer:** Peace Corps (Fiji) secondary school math/science teacher

**Member:** American Meteorological Society, American Geophysical Union, Sigma Xi, and Phi Beta Kappa

**Reviewer:** *Journal of Advances in Modeling Earth Systems, Nature, Nature Geoscience, Dynamics of Atmospheres and Oceans, Journal of Climate, Journal of Physical Oceanography, Ocean Modelling, Ocean Science, Geophysical Research Letters, Journal of Geophysical Research, Bulletin of the American Meteorological Society, Climate Dynamics, Quarterly Journal of the Royal Meteorological Society, Scientific Reports, WIREs Climate Change, the National Science Foundation (NSF), the Natural Sciences and Engineering Research Council of Canada (NSERC), and the UK Natural Environment Research Council (NERC).*

## COMPUTING AWARDS

- 11/2021 NCAR Strategic Capability (NSC) award for: *Examining the Coupled Climate Response to North Atlantic Oscillation Buoyancy Forcing using High-Resolution CESM*; Lead: Yeager, 17M core-hours on Cheyenne.
- 05/2020 NCAR Strategic Capability (NSC) award for: *Multiyear Earth System Prediction using CESM2*; Lead: Yeager, 18M core-hours on Cheyenne.
- 02/2017 NCAR Accelerated Scientific Discovery (ASD) award for: *Predicting Near-Term Changes in the Likelihood of Climate Extremes: Initialized Decadal Climate Prediction Using Large Ensemble*; Lead: Yeager; Award: 35.4M core-hours on Cheyenne.

## ACTIVE FUNDING AWARDS

- 04/05/2022-03/31/2025 **NAS GRP**: P. Chang (TAMU, lead PI), J. Kurian (TAMU, co-PI), S. Yeager (NCAR PI), G. Danabasoglu (NCAR, co-PI), S. Bates (The Nature Conservancy, co-PI), C. Shepard (The Nature Conservancy, co-PI). *Improving Prediction and Projection of Gulf of Mexico Sea-Level Changes Using Eddy-Resolving Earth System Models*, \$450K/year.
- 02/15/2022-01/31/2025 **NSF OCE**: C. Little (AER, lead PI), S. Yeager (NCAR PI). *Collaborative Research: A Global Assessment of Annual to Decadal Sea Level Predictability*, \$192K.
- 02/01/2022-01/31/2025 **NOAA OAR CPO**: E. Maroon (U. Wisconsin Madison, lead PI), S. Yeager (NCAR PI), and G. Danabasoglu (NCAR). *Subtropical To Subpolar Atlantic Model Biases Addressed Through Process-Level Diagnostics (SUB2SUB)*, \$540K.
- 09/01/2021-08/31/2024 **NSF OPP**: Y.-O. Kwon (WHOI), C. Frankignoul (WHOI), G. Danabasoglu (NCAR PI), and S. Yeager (NCAR). *Collaborative Research: Constraining Uncertainty in Arctic Climate Variability, Change, and Impacts Through Process-Based Understanding*, \$447K. (co-PI and funded participant).
- 09/01/2020-08/31/2023 **NSF OCE**: S. Yeager (NCAR PI), and G. Danabasoglu (NCAR). *NSFGEO-NERC: Wider Impacts of Subpolar north Atlantic decadal variability on the Ocean and atmosphere (WISHBONE)*, \$500K. International collaborative proposal with UK-NERC funded WISHBONE project (lead PI: J. Robson, U. Reading).
- 09/01/2020-08/31/2023 **NSF OCE**: S. Yeager (NCAR). *Subpolar North Atlantic Processes - Dynamics and predictability of variability in Gyre and Overturning (SNAP-DRAGON)*, \$12K. International collaborative proposal with UK-NERC funded SNAPDRAGON project (lead PI: H. Johnson, U. Oxford).
- 09/01/2020-08/31/2023 **NOAA CVP**: S. Yeager (NCAR, lead PI), Cheng, W. (UW), P. Chang (TAMU), and G. Danabasoglu (NCAR). *Understanding the relative roles of Atlantic vs. Pacific coupled dynamics in initialized decadal prediction*, \$881K.

## COMPLETED FUNDING AWARDS

- 03/01/2019-01/31/2022 **iHESP**: P. Chang (TAMU), Director. *International Laboratory for High-resolution Earth System Prediction*, \$2M/year, (co-lead and funded participant).
- 10/01/2017-09/30/2020 **NSF**: Kwon, Y.-O. (WHOI), C. Frankignoul (WHOI), G. Danabasoglu (NCAR), and S. Yeager (NCAR). *Collaborative Research: The influence of Arctic-lower-latitude interactions on weather and climate variability: mechanisms, predictability, and prediction*, \$676K. (co-PI and funded participant). International collaborative proposal with EU Horizon 2020 funded Blue-Action project (lead PI: S. Olsen, Danish Meteorological Institute).
- 07/01/2016-06/30/2019 **NOAA CVP/DOE RGCM**: Cheng, W. (UW), D. Zhang (UW), W. Weijer (LANL), G. Danabasoglu (NCAR), S. Yeager (NCAR), and J. Chiang (Berkeley). *Understanding the freshwater budget of the Atlantic Ocean: Controls, Responses, and the role of the AMOC*, \$1.2M. (co-PI and funded participant).

- 11/01/2012-02/28/2019 **NSF**: Danabasoglu G. (NCAR), J. Anderson (NCAR), G. Branstator (NCAR), K. Lindsay (NCAR), J. Tribbia (NCAR), C. Frankignoul (WHOI), Y.-O. Kwon (WHOI), M. Zhang (SUNY), S. Yeager (NCAR), A. Karspeck (NCAR), M. Long (NCAR), L. Jiang (NCAR), and H. Teng (NCAR). *Collaborative Research EaSM2: Mechanisms, Predictability, Prediction, and Regional and Societal Impacts of Decadal Climate Variability*, \$2.8M. (co-I and funded participant).
- 08/01/2013-07/31/2016 **NOAA CVP**: Danabasoglu, G. (NCAR), T. Delworth (GFDL), Y.-O. Kwon (WHOI), A. Karspeck (NCAR), S. Yeager (NCAR), J. Tribbia (NCAR), R. Msadek (GFDL), A. Rosati (GFDL), and C. Frankignoul (WHOI). *A Collaborative Multi-model Study: Understanding AMOC Variability Mechanisms and Their Impacts on Decadal Prediction*, \$1.8M. (co-PI and funded participant).
- 08/01/2013-07/31/2016 **NOAA CVP**: Chang, P. (TAMU), G. Danabasoglu (NCAR), and S. Yeager (NCAR). *Collaborative Research: Understanding Changes in the Atlantic Meridional Overturning Circulation (AMOC) during the 20<sup>th</sup> Century using IPCC AR5 Model Ensembles*, \$860K. (co-PI and funded participant).
- 08/01/2009-07/31/2013 **NOAA CVP**: Danabasoglu G. (NCAR), J. Tribbia (NCAR), T. Delworth (GFDL), A. Rosati (GFDL), and J. Marshall (MIT). *A Collaborative Investigation of the Mechanisms, Predictability, and Climate Impacts of Decadal Scale AMOC Variability Simulated in a Hierarchy of Models*, \$2.5M. (funded participant).

#### TEACHING & UNIVERSITY VISITORSHIPS

- 12/2017 Texas A&M University, College Station, TX. *Half-week visit to give two guest lectures and collaborate with Dr. Ping Chang's group.*
- 09/2017 National Centre for Atmospheric Science (NCAS) Visiting Scientist Programme, University of Reading, Reading, UK. *Two-week visit to attend ACSIS meeting and collaborate with NCAS scientists.*

#### INVITED/KEYNOTE TALKS, SEMINARS, & PUBLIC LECTURES

- 03/2023 "Is ENSO Predictability Limited by the Atlantic? Preliminary Results from CLIVAR TBI Atlantic Hindcast Pacemaker Experiments using CESM2", National Centre for Atmospheric Science (NCAS) Seminar, Reading, UK.
- 10/2022 "Progress and challenges in High-Resolution Earth System Prediction: A CESM Perspective", WCRP Workshop on Modelling the Climate System at Ultra-High Resolution, Boulder, CO.
- 10/2022 "Predicting future climate: What can we expect in the next decade?", NCAR Explorer Series, Longmont Public Library, Longmont, CO
- 09/2022 "On the role of the Labrador Sea in North Atlantic Decadal Variability and Predictability", Woods Hole Oceanographic Institution, Physical Oceanography Seminar. (virtual)
- 06/2022 "A Decade of Decadal Prediction Research: Advancing CESM Near-term Prediction Capabilities in the Face of Drift, Shock, and Noise", CESM Distinguished Achievement Award Talk, 27<sup>th</sup> Annual CESM Workshop, Boulder, CO. (virtual)
- 05/2022 "The Role of the Labrador Sea in North Atlantic Decadal Variability and Predictability", GEOMAR Ocean Circulation and Climate Dynamics Colloquium, Kiel, Germany. (virtual)
- 11/2021 "Predicting future climate: What can we expect in the next decade?", NCAR Explorer Series, Boulder, CO, <https://www.youtube.com/watch?v=G4sHuXRVe4g&t=1939s>. (virtual)
- 07/2021 "The role of Labrador Sea Water in subpolar North Atlantic decadal variability and predictability", ACSIS Summer Science Meeting, Southampton, UK. Virtual Meeting. (<https://noc-events.co.uk/acsis-summer-science-meeting-2021>)

- 04/2021 “The abyssal origins of North Atlantic decadal predictability”, Bjerknes Centre for Climate Research, Bergen, Norway. Virtual Seminar. (<https://www.bjerknes.uib.no/index.php/en/article/event-description/seminar-stephen-yeager>)
- 10/2020 “Decadal Predictability Research and Potential Applicability to Southwest Hydroclimate”, Colorado River Hydrology Research Symposium, virtual.
- 12/2019 “The abyssal origins of North Atlantic decadal predictability”, AGU Fall Meeting, San Francisco, CA.
- 06/2019 “Interannual-to-decadal Earth System Prediction at NCAR”, National Earth System Prediction Capability Workshop, College Park, MD.
- 03/2019 “The role of barotropic dynamics in Atlantic decadal predictability”, Joint US-Japan Workshop on Climate Change & Variability, Honolulu, HI.
- 11/2018 “What explains skillful decadal prediction of North Atlantic SST?”, Blue-Action Annual Meeting, Almada, Portugal.
- 09/2018 “Near-term Hydroclimate Outlooks based on the Community Earth System Model (CESM) Decadal Prediction Large Ensemble (DPLE)”, 2<sup>nd</sup> International Conference on Subseasonal to Decadal Prediction, Boulder, CO.
- 12/2017 “Decadal Climate Prediction in the Large Ensemble Limit”, fall AGU meeting, New Orleans, LA.
- 09/2017 “Decadal Climate Prediction in the Large Ensemble Limit”, Department of Meteorology Seminar, University of Reading, Reading, UK.
- 03/2017 “Decadal Climate Prediction using CESM”, International Forum on High-resolution Global Earth System Prediction Studies, Qingdao National Laboratory for Marine Science, Qingdao, China.
- 06/2016 “Decadal prediction with the CESM model”, Workshop on Climate Prediction in the Arctic-Atlantic sector, University of Bergen, Bergen, Norway.
- 06/2016 “What caused the Atlantic cold blob of 2015?”, US CLIVAR *Variations* Webinar Series. [<https://usclivar.org/archived-webinars>]
- 05/2016 “Mechanisms associated with predictable North Atlantic variability”, US CLIVAR Paleo AMOC Workshop, Boulder, CO.
- 01/2016 “Evaluation of CESM ocean-ice hindcast experiments forced by JRA55 data”, CLIVAR Ocean Model Development Panel extended meeting on forcing ocean-ice models, Yokohama, Japan.
- 06/2015 “Predicted Growth of Atlantic Sea-ice in the Coming Decade”, Aspen Global Change Institute workshop on decadal prediction, Aspen, CO.
- 03/2014 “On the dynamics of large-scale Atlantic circulation variability”, Texas A&M University, College Station, TX; Department of Atmospheric Sciences Seminar.
- 10/2013 “On the dynamics of historical AMOC variability”, NCAR, Boulder, CO; Climate and Global Dynamics Seminar.
- 09/2013 “The past, present, and future of the meridional overturning circulation in the Atlantic”, University of Colorado, Boulder, CO; Department of Atmospheric and Oceanic Science, Oceanography Seminar.
- 07/2013 “On the dynamics of historical AMOC variability”, U.S. AMOC/U.K. RAPID International Science Meeting, Baltimore, MD.
- 06/2011 “A CCSM4 decadal prediction case study: Abrupt North Atlantic ocean heat content change in the 1990s”, Aspen Global Change Institute workshop on decadal prediction, Aspen, CO.
- 11/2008 “Addressing the Gulf Stream problem in the 1° POP model”, University of Colorado, Boulder, CO; Department of Atmospheric and Oceanic Science, Oceanography Seminar.
- 10/2005 “Equatorial thermocline variability related to subtropical Atlantic spine formation zones”, U.S. CLIVAR Tropical Atlantic Variability workshop, Venice, Italy.

## PEER-REVIEWED PUBLICATIONS

1. Meehl, G. A., B. Kirtman, A. A. Glanville, J. Richter, N. Rosenbloom, and S. G. **Yeager**, 2023: Evaluating skill in predicting the Interdecadal Pacific Oscillation in initialized decadal climate prediction hindcasts in E3SMv1 and CESM1 using two different initialization methods and a small set of start years, *Clim. Dyn.*, submitted. <https://doi.org/10.21203/rs.3.rs-2768903/v1>
2. Treguier, A. M., C. de Boyer Montégut, A. Bozec, E. P. Chassignet, B. Fox-Kemper, A. Hogg, D. Iovino, A. E. Kiss, J. Le Sommer, Y. Li, P. Lin, C. Lique, H. Liu, G. Serazin, D. Sidorenko, Q. Wang, X. Xu, and S. **Yeager**, 2023: The Mixed Layer Depth in the Ocean Model Intercomparison Project (OMIP): Impact of Resolving Mesoscale Eddies, EGUsphere [preprint]. <https://doi.org/10.5194/egusphere-2023-310>
3. Kim, W. M., S. **Yeager**, G. Danabasoglu, and P. Chang, 2023: Exceptional multi-year prediction skill of the Kuroshio Extension in a high-resolution decadal prediction system, *npj Clim. Atm. Sci.*, in revision.
4. **Yeager**, S., P. Chang, G. Danabasoglu, N. Rosenbloom, Q. Zhang, F. Castruccio, A. Gopal, C. Rencurrel, and I. R. Simpson, 2023: Reduced Southern Ocean Warming Enhances Skill and Signal-to-Noise in an Eddy-Resolving Decadal Prediction System, *npj Clim. Atm. Sci.*, in revision.
5. Liu, S., P. Chang, X. Wan, S. **Yeager**, and I. Richter, 2022: Role of the Maritime Continent in the remote influence of Atlantic Niño on the Pacific, *Nat. Commun.*, in 2<sup>nd</sup> review.
6. Wu, X, S. G. **Yeager**, C. Deser, N. Rosenbloom, and G. A. Meehl, 2023: Volcanic forcing degrades multiyear-to-decadal prediction skill in the tropical Pacific, *Science Advances*, 9, eadd9364. <https://doi.org/10.1126/sciadv.add9364>
7. Lee, S.-K., R. Lumpkin, F. Gomez, S. **Yeager**, H. Lopez, F. Takglis, S. Dong, W. Aguiar, D. Kim, and M. Baringer, 2023: Human-induced changes in the global meridional overturning circulation are emerging from the Southern Ocean, *Commun. Earth Environ.*, 4, 69. <https://doi.org/10.1038/s43247-023-00727-3>
8. Chang, P., G. Xu, J. Kurian, R. J. Small, G. Danabasoglu, S. **Yeager**, F. Castruccio, Q. Zhang, N. Rosenbloom, and P. Chapman, 2023: Uncertain future of sustainable fisheries environment in eastern boundary upwelling zones under climate change, *Commun. Earth Environ.*, 4, 19, <https://doi.org/10.1038/s43247-023-00681-0>
9. Xu, G., P. Chang, S. Ramachandran, G. Danabasoglu, S. **Yeager**, J. Small, Q. Zhang, Z. Jing, and L. Wu, 2022: Impacts of Model Horizontal Resolution on Mean Sea Surface Temperature Biases in the Community Earth System Model, *J. Geophys. Res.: Oceans*, 127, e2022JC019065. <https://doi.org/10.1029/2022JC019065>
10. **Yeager**, S., N. Rosenbloom, S. Glanville, X. Wu, I. Simpson, H. Li, M. J. Molina, K. Krumhardt, S. Mogen, K. Lindsay, D. Lombardozzi, W. Wieder, W. Kim, J. Richter, M. Long, G. Danabasoglu, D. Bailey, M. Holland, N. Lovenduski, W. Strand, and T. King, 2022: The Seasonal-to-Multiyear Large Ensemble (SMYLE) Prediction System using the Community Earth System Model Version 2, *Geosci. Mod. Dev.*, 15, 6451–6493. <https://doi.org/10.5194/gmd-15-6451-2022>
11. Diao, X., A. Stössel, P. Chang, G. Danabasoglu, S. G. **Yeager**, A. Gopal, H. Wang, and S. Zhang, 2022: On the intermittent occurrence of open-ocean polynyas in a multi-century high-resolution preindustrial Earth System Model simulation, *J. Geophys. Res. Oceans*, 127, e2021JC017672. <https://doi.org/10.1029/2021JC017672>
12. Meehl, G.A., H. Teng, D. Smith, S. **Yeager**, W. Merryfield, F. Doblas-Reyes, and A. A. Glanville, 2022: The effects of bias, drift, and trends in calculating anomalies for evaluating skill of seasonal-to-decadal initialized climate predictions, *Clim. Dyn.*, 59, 3373–3389. <https://doi.org/10.1007/s00382-022-06272-7>
13. Mogen, S. C., N. S. Lovenduski, A. R. Dallmann, L. Gregor, A. J. Sutton, S. J. Bograd, N. C. Quiros, E. Di Lorenzo, E. L. Hazen, M. G. Jacox, M. P. Buil, and S. **Yeager**, 2022: Ocean biogeochemical signatures of the North Pacific Blob. *Geophys. Res. Lett.*, 49, e2021GL096938. <https://doi.org/10.1029/2021GL096938>



14. Li, D., P. Chang, S. **Yeager**, G. Danabasoglu, F. Castruccio, J. Small, H. Wang, Q. Zhang, and A. Gopal, 2022: The impact of horizontal resolution on projected sea-level rise along US east continental shelf with the Community Earth System Model, *J. Adv. Model. Earth Sy.*, 14, e2021MS002868. <https://doi.org/10.1029/2021MS002868>
15. Payne, M. R., A. K. Miesner, N. Keenlyside, S. Yang, S. G. **Yeager**, G. Danabasoglu, and D. Matei, 2022: Skilful decadal-scale prediction of fish habitat and distribution shifts, *Nature Communications*, 13, 2660. <https://doi.org/10.1038/s41467-022-30280-0>
16. Wu, X., Y. M. Okumura, P. N. DiNezio, S. **Yeager**, and C. Deser, 2022: The equatorial Pacific cold tongue bias in CESM1 and its influence on ENSO forecasts, *J. Climate*, 35(11), 3261-3277. <https://doi.org/10.1175/JCLI-D-21-0470.1>
17. Richter, J., A. Glanville, J. Edwards, B. Kauffman, N. Davis, A. Jaye, H. Kim, N. Pedatella, L. Sun, J. Berner, W. Kim, S. **Yeager**, G. Danabasoglu, J. Caron, and K. Oleson, 2021: Subseasonal Earth system prediction with CESM2, *Weather and Forecasting*, 37(6), 797-815. <https://doi.org/10.1175/WAF-D-21-0163.1>
18. Zhang, Q., P. Chang, S. **Yeager**, G. Danabasoglu, and S. Zhang, 2022: Role of Sea-Surface Salinity in Simulating Historical Decadal Variations of Atlantic Meridional Overturning Circulation in a Coupled Climate Model, *Geophys. Res. Lett.*, 49, e2021GL096922. <https://doi.org/10.1029/2021GL096922>
19. Rodgers, K. B., S.-S. Lee, N. Rosenbloom, A. Timmermann, G. Danabasoglu, C. Deser, J. Edwards, J.-E. Kim, I. Simpson, K. Stein, M. F. Stuecker, R. Yamaguchi, T. Bodai, E.-S. Chung, L. Huang, W. Kim, J.-F. Lamarque, D. Lombardozzi, W. R. Wieder, and S. G. **Yeager**, 2021: Ubiquity of human-induced changes in climate variability, *Earth Syst. Dynam.*, 12, 1393–1411. <https://doi.org/10.5194/esd-12-1393-2021>
20. **Yeager**, S. G., F. Castruccio, P. Chang, G. Danabasoglu, E. Maroon, J. Small, H. Wang, L. Wu, S. Zhang, 2021: An Outsized Role for the Labrador Sea in the Multidecadal Variability of the Atlantic Overturning Circulation, *Science Advances*, 7(41). <https://doi.org/10.1126/sciadv.abh3592>
21. Liang, Y., C. Frankignoul, Y. Kwon, G. Gastineau, E. Manzini, G. Danabasoglu, L. Suo, S. **Yeager**, Y. Gao, J. J. Attema, A. Cherchi, R. Ghosh, D. Matei, J. V. Mecking, T. Tian, and Y. Zhang, 2021: Impacts of Arctic Sea Ice on Cold Season Atmospheric Variability and Trends Estimated from Observations and a Multimodel Large Ensemble, *J. Climate*, 34 (20), 8419-8443. <https://doi.org/10.1175/JCLI-D-20-0578.1>
22. **Yeager**, S. G., P. Chang, G. Danabasoglu, J. Edwards, N. Rosenbloom, Q. Zhang, D. Fu, X. Liu, and F. Castruccio, 2021: Bringing the Future into Focus: Benefits and Challenges of High-Resolution Global Climate Change Simulations, *Computing in Science & Engineering*, 23(3), 34-41. <https://doi.org/10.1109/MCSE.2021.3068244>
23. Maroon, E., S. G. **Yeager**, and G. Danabasoglu, 2021: Was the 2015 North Atlantic subpolar cold anomaly predictable? *J. Climate*, 34(13), 5403-5423. <https://doi.org/10.1175/JCLI-D-20-0750.1>
24. Esit, M., S. Kumar, A. Pandey, D. M. Lawrence, I. Rangwala, and S. G. **Yeager**, 2021: Seasonal to multi-year soil moisture drought forecasting, *npj Clim. Atmos. Sci.*, 4(16). <https://doi.org/10.1038/s41612-021-00172-z>
25. Ortega, P., J. Robson, M. Menary, R. Sutton, A. Blaker, A. Germe, J. Hirschi, B. Sinha, L. Hermanson, and S. **Yeager**, 2021: Labrador Sea subsurface density as a precursor of multidecadal variability in the North Atlantic: a multi-model study, *Earth Syst. Dyn.*, 12, 419-438. <https://doi.org/10.5194/esd-12-419-2021>
26. Kim, W., S. **Yeager**, and G. Danabasoglu, 2021: Revisiting the Causal Connection between the Great Salinity Anomaly of the 1970s and the Shutdown of Labrador Sea Deep Convection, *J. Climate*, 34(2), 675-696. <https://doi.org/10.1175/JCLI-D-20-0327.1>
27. Richter, J. H., K. Pegion, L. Sun, H. Kim, J. M. Caron, A. Glanville, E. LaJoie, S. **Yeager**, W. M. Kim, A. Tawfik, D. Collins, 2020: Subseasonal Prediction with and without a well-represented stratosphere in CESM1, *Weather and Forecasting*, 35(6), 2589-2602. <https://doi.org/10.1175/WAF-D-20-0029.1>
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104. **Yeager**, S. G., and W. G. Large, 2007: Observational evidence of winter spice injection. *J. Phys. Oceanogr.*, 37, 2895-2919. <https://doi.org/10.1175/2007JPO3629.1>
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106. Hack, J. J., J. M. Caron, S. G. **Yeager**, K. W. Oleson, M. M. Holland, J. E. Truesdale, and P. J. Rasch, 2006: Simulation of the global hydrological cycle in the CCSM Community Atmosphere Model version 3 (CAM3): Mean features. *J. Climate*, 19, 2199-2221. <https://doi.org/10.1175/JCLI3755.1>
107. **Yeager**, S. G., C. A. Shields, W. G. Large, and J. J. Hack, 2006: The low-resolution CCSM3. *J. Climate*, 19, 2545-2566. <https://doi.org/10.1175/JCLI3744.1>
108. **Yeager**, S. G., and W. G. Large, 2004: Late-winter generation of spiciness on subducted isopycnals. *J. Phys. Oceanogr.*, 34, 1528-1547. [https://doi.org/10.1175/1520-0485\(2004\)034<1528:LGOSOS>2.0.CO;2](https://doi.org/10.1175/1520-0485(2004)034<1528:LGOSOS>2.0.CO;2)
109. Walsh, J., K. Woods, and S. **Yeager**, 1994: Intensity of Smith-Purcell radiation in the relativistic regime. *Nuclear Instruments & Methods in Physics Research*, A 341, 277-279.

#### NON-REFEREED PUBLICATIONS

1. Danabasoglu, G., M. F. de Jong, A. Karspeck, M. Lankhorst, M. Patterson, R. Perez, A. Schmittner, W. Weijer, S. **Yeager**, and R. Zhang, 2016: 2016 US AMOC Science Team Report on Progress and Priorities. Report 2016-4, US CLIVAR Project Office, 178 pp. <https://doi.org/10.5065/D66QIVN8>
2. **Yeager**, S., W. Kim, and J. Robson, 2016: What caused the Atlantic cold blob of 2015? *US CLIVAR Variations*, CLIVAR Project Office, 14, No 2, 24-29.
3. Danabasoglu, G., R. Curry, A. Karspeck, C. Meinen, R. Msadek, M. Patterson, R. Perez, A. Schmittner, L. Thompson, and S. **Yeager**, 2015: 2014 US AMOC Science Team Annual Report on Progress and Priorities. Report 2015-1, US CLIVAR Project Office, 165 pp.
4. Danabasoglu, G., R. Curry, P. Heimbach, Y. Kushnir, C. Meinen, R. Msadek, M. Patterson, L. Thompson, S. **Yeager**, and R. Zhang, 2014: 2013 US AMOC Science Team Annual Report on Progress and Priorities. Report 2014-4, US CLIVAR Project Office, 162 pp.

5. **Yeager**, S., 2013: Understanding and predicting changes in North Atlantic Sea Surface Temperature, Ph.D. dissertation, University of Colorado, Boulder, advisor: Baylor Fox-Kemper.  
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6. Rosenbloom, N., C. Shields, E. Brady, S. Levis, and S. **Yeager**, 2011: Using CCSM3 for paleoclimate applications. Technical Report TN-483+STR, NCAR, 81pp.  
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7. Smith, R., P. Jones, B. Briegleb, F. Bryan, G. Danabasoglu, J. Dennis, J. Dukowicz, C. Eden, B. Fox-Kemper, P. Gent, M. Hecht, S. Jayne, M. Jochum, W. Large, K. Lindsay, M. Maltrud, N. Norton, S. Peacock, M. Vertenstein, and S. **Yeager**, 2010: The Parallel Ocean Program (POP) reference manual: Ocean component of the Community Climate System Model (CCSM). Los Alamos National Laboratory Tech. Rep. LAUR-10-01853, 141 pp. [Available online at  
<http://www.cesm.ucar.edu/models/cesm1.0/pop2/doc/sci/POPRefManual.pdf>].
8. W. G. Large and S. G. **Yeager**, 2004: Diurnal to decadal global forcing for ocean and sea-ice models: The data sets and flux climatologies. Technical Report TN-460+STR, NCAR, 105pp.
9. Doney, S. C., S. G. **Yeager**, G. Danabasoglu, W. G. Large, and J. C. McWilliams, 2003: Modeling global oceanic inter-annual variability (1958-1997): Simulation design and model-data evaluation. Technical Report TN-452+STR, NCAR, 48pp.
10. **Yeager**, S., 1993: A dipole model of Smith Purcell radiation, Senior honors thesis, Department of Physics, Dartmouth College, Hanover, NH.

#### SELECT ORAL PRESENTATIONS

- 04/2023 “An Update from the CESM Earth System Prediction Working Group”, NCAR Water System Retreat, Boulder, CO.
- 04/2023 “The Seasonal-to-Multiyear Large Ensemble (SMYLE) Prediction System using the Community Earth System Model version 2”, NOAA CVP Webinar Series (virtual).
- 03/2023 “Enhanced Skill and Signal-to-Noise in an Eddy-Resolving Decadal Prediction System”, WCRP Joint EPESC/DCPP Meeting, Exeter, UK.
- 02/2023 “TBI-Atlantic Hindcast Pacemaker Experiments using CESM2”, CLIVAR TBI Workshop, Melbourne, Australia (attended virtually).
- 02/2023 “Is ENSO Predictability Limited by the Atlantic? Preliminary Results from CLIVAR TBI Atlantic Hindcast Pacemaker Experiments using CESM2”, CESM Earth System Prediction Working Group meeting, Boulder, CO.
- 02/2023 “Enhanced Skill and Signal-to-Noise in an Eddy-Resolving Decadal Prediction System”, TCCS High-Resolution Modelling Workshop, College Station, TX.
- 01/2023 “The Seasonal-to-Multiyear Large Ensemble (SMYLE) Prediction System using the Community Earth System Model version 2”, DOE RGMA Webinar Series (virtual).
- 01/2023 “Enhanced Skill and Signal-to-Noise in an Eddy-Resolving Decadal Prediction System”, 103<sup>rd</sup> Annual AMS Meeting, Denver, CO.
- 11/2022 “Decadal Climate Prediction Project (DCPP): Progress and Plans”, WCRP Working Group on Coupled Modeling meeting, Boulder, CO.
- 11/2022 “Exploring Seasonal to Multiyear Predictability of the Earth System with a SMYLE”, DOE CATALYST/PCMDI Webinar Series (virtual).
- 08/2022 “Earth System Prediction using CESM”, CESM Tutorial Workshop, Boulder, CO.
- 03/2022 “An Outsized Role for the Labrador Sea In the Multidecadal Variability of the Atlantic Overturning Circulation”, Ocean Sciences Meeting, Honolulu, HI. (virtual)



- 02/2022 “Enhanced Decadal Prediction Skill and Signal-to-noise through Increased Horizontal Resolution”, CESM Earth System Prediction Working Group Meeting, Boulder, CO. (virtual)
- 02/2022 “Earth System Prediction Using CESM”, CESM Advisory Board Meeting, Boulder, CO. (virtual)
- 01/2022 “Decadal Prediction Using High Resolution CESM”, CESM Ocean Model Working Group Meeting, Boulder, CO. (virtual)
- 12/2021 “Update on Earth System Prediction Working Group Activities”, CESM Co-Chairs Meeting, Boulder, CO. (virtual)
- 10/2021 “An Outsized Role for the Labrador Sea in the Multidecadal Variability of the Atlantic Overturning Circulation”, Workshop on Future Directions in Basin and Global High-resolution Ocean Modelling, Kiel, Germany. (virtual)
- 10/2021 “Exploring the Ocean’s Atlantic Meridional Overturning Circulation (AMOC)... from Boulder, Colorado!”, Summit Middle School, Boulder, CO.
- 08/2021 “Decadal Earth System Prediction using CESM”, CESM Tutorial Workshop, Boulder, CO. (virtual)
- 06/2021 “Exploring Interannual-to-Decadal Predictability using CESM Large Ensembles”, US Climate Modelling Summit. (virtual)
- 02/2021 “Does the tail wag the dog? An Outsized Role for the Labrador Sea in Low Frequency AMOC Variability”, CESM Ocean Model Working Group, Boulder, CO. (virtual)
- 01/2021 “Seasonal-to-Multiyear Large Ensemble (SMYLE): A new Earth system prediction dataset using CESM2”, CESM Earth System Prediction Working Group Winter Meeting, Boulder, CO. (virtual)
- 01/2021 “Does the tail wag the dog? An Outsized Role for the Labrador Sea in Low Frequency AMOC Variability”, SNAP Webinar Series. (virtual)
- 01/2021 “Does the tail wag the dog? An Outsized Role for the Labrador Sea in Low Frequency AMOC Variability”, iHESP Annual Meeting, College Station, TX. (virtual)
- 01/2021 “Historical North Atlantic variability in CESM2 OMIP2 simulations at low and high resolutions”, iHESP Annual Meeting, College Station, TX. (virtual)
- 10/2020 “Seasonal-to-Multiyear Large Ensemble (SMYLE): A new initialized hindcast dataset using CESM2”, CGD Research Report, Boulder, CO. (virtual)
- 06/2020 “Decadal Prediction with CESM: Recent Progress and Outstanding Challenges”, CESM Earth System Prediction Working Group Meeting, Boulder, CO.
- 04/2020 “The abyssal origins of North Atlantic decadal predictability”, CESM Ocean Model Working Group Meeting, Boulder, CO.
- 02/2020 “Historical AMOC in an eddy-resolving CESM2 simulation”, Ocean Sciences Meeting, San Diego, CA.
- 02/2020 “Progress towards CESM-HR Decadal Prediction Experiments”, iHESP Steering Committee and Advisory Committee Meeting, Boulder, CO.
- 01/2020 “Interannual to Decadal Earth System Prediction using CESM”, CESM Advisory Board Meeting, Boulder, CO.
- 12/2019 “Spin-up and interannual variability in a CESM-HR OMIP-2 simulation”, iHESP Annual Meeting, College Station, TX.
- 10/2019 “Initialization sensitivity tests using CESM-DPLE”, Blue-Action Annual Meeting, Edinburgh, Scotland.
- 05/2019 “Modeling 101: Decadal Climate Prediction”, UCAR Journalism Summit, Boulder, CO.
- 04/2019 “A new high-resolution-CESM ocean+sea-ice simulation using JRA55-do forcing”, iHESP Opening Ceremony, College Station, TX.
- 03/2019 “JRA55-do simulations at NCAR”, CLIVAR Ocean Model Development Panel 5<sup>th</sup> Session, Tallahassee, FL.

- 02/2019 “Decadal Predictability of North Atlantic Blocking”, CESM Climate Variability and Change Working Group, winter meeting, Boulder, CO.
- 08/2018 “The CESM Decadal Prediction Large Ensemble & Multi-year Forecasts of Arctic Sea Ice”, 2018 CESM Polar Modeling Workshop, Boulder, CO.
- 07/2018 “What explains skillful decadal prediction of North Atlantic SST?”, 2018 International AMOC Science Meeting, Coconut Grove, FL.
- 03/2018 “Decadal Climate Prediction in the Large Ensemble Limit”, DOE RGMA Webinar Series.
- 02/2018 “Skillful Multiyear Predictions of Precipitation over Land”, Ocean Sciences Meeting, Portland, OR.
- 01/2018 “Decadal Climate Prediction in the Large Ensemble Limit”, Blue-Action Project Annual Meeting, Bologna, Italy.
- 01/2018 “Decadal Climate Prediction in the Large Ensemble Limit”, Ocean Model Working Group Meeting, Boulder, CO.
- 10/2017 “Skillful Decadal Prediction of Upper Ocean Heat Content”, CLIVAR CONCEPT-HEAT Workshop, Boulder, CO.
- 10/2017 “Decadal Climate Prediction in the Large Ensemble Limit”, OUC-TAMU-NCAR Project Meeting, Boulder, CO.
- 09/2017 “Low-frequency North Atlantic Climate Variability in the CESM Large Ensemble”, NCAS Climate and Ocean Dynamics (COD) Seminar, Reading, UK.
- 09/2017 “Skillful Multiyear Predictions of Precipitation over Land using CESM”, ACSIS-OSNAP-RAPID Joint Science Meeting, Oxford, UK.
- 08/2017 “Decadal Climate Prediction at NCAR”, NSF-GEO visit, Boulder, CO.
- 07/2017 “Predicting Near-term Shifts in the Likelihood of Climate Extremes”, STATMOS/SAMSI Workshop on Climate Statistics, Boulder, CO.
- 06/2017 “Skillful Decadal Climate Prediction in the Atlantic Sector using CESM”, Ocean Model Working Group, 22<sup>nd</sup> Annual CESM Workshop, Boulder, CO.
- 06/2017 “Initialized Decadal Climate Prediction using Large Ensembles”, CWG Session on Earth System Prediction, 22<sup>nd</sup> Annual CESM Workshop, Boulder, CO.
- 03/2017 “AMOC-related climate prediction using CESM”, US AMOC Science Team Webinar Series. [<https://usclivar.org/archived-webinars>]
- 03/2017 “CISL Accelerated Scientific Discovery. Predicting Near-term changes in the likelihood of climate extremes: initialized decadal climate prediction using large ensembles”, Plenary Session, CESM Winter Working Group meeting, Boulder, CO.
- 11/2016 “Decadal climate prediction using CESM”, NOAA Climate Variability Program webinar series. [<http://cpo.noaa.gov/ClimateDivisions/EarthSystemScienceandModeling/ClimateVariabilityandPredictability/AMOCMechanisms.aspx>]
- 10/2016 “Decadal climate prediction using CESM”, CGD research report, Boulder, CO.
- 06/2016 “What caused the Atlantic cold blob of 2015?”, US CLIVAR *Variations* webinar series. [<https://usclivar.org/archived-webinars>]
- 05/2016 “Mechanisms associated with predictable North Atlantic decadal variability”, US CLIVAR Paleo-Modern AMOC Workshop, Boulder, CO.
- 04/2016 “Mechanisms underpinning skillful decadal prediction in the North Atlantic”, NCAR Day of Networking and Discovery, Boulder, CO.
- 02/2016 “Mechanisms underpinning skillful decadal prediction in the North Atlantic”, Ocean Sciences Meeting, New Orleans, LA.
- 02/2016 “Evaluation of CESM ocean-ice hindcast experiments forced by JRA55 data”, CESM Ocean Model Working Group meeting, Boulder, CO.
- 01/2016 “Towards a new Normal Year Forcing (NYF)”, 2<sup>nd</sup> session of the CLIVAR Ocean Model Development Panel – Extended meeting on forcing ocean-ice climate models, Yokohama, Japan.

- 01/2016 “Evaluation of CESM ocean-ice hindcast experiments forced by JRA55 data”, 2<sup>nd</sup> session of the CLIVAR Ocean Model Development Panel – Extended meeting on forcing ocean-ice climate models, Yokohama, Japan.
- 09/2015 “Mechanisms, predictability, and regional and societal impacts of decadal climate variability”, 2015 EaSM PI Meeting, Bethesda, MD.
- 07/2015 “Predicted growth of Atlantic sea ice in the coming decade”, RAPID/US AMOC International Science Meeting, Bristol, UK.
- 06/2015 “Reconstructing ocean/sea-ice variability over the 1871-2010 period using NOAA 20<sup>th</sup> Century reanalysis”, CESM Workshop, Breckenridge, CO.
- 02/2015 “Should we expect a rebound of Arctic sea ice extent in coming years? Initialized predictions of AMOC and sea ice extent using CCSM4”, CESM Climate Variability and Change Working Group Meeting, Boulder, CO.
- 01/2015 “Exploration of new POP grids for CESM2”, CESM Ocean Model Working Group Meeting, Boulder, CO.
- 08/2014 “Ocean Modeling II: parameterized physics”, CESM Tutorial Workshop, Boulder, CO.
- 08/2014 “Ocean Modeling I: ocean modeling basics and the CESM ocean model”, CESM Tutorial Workshop, Boulder, CO.
- 03/2014 “Topographic control of the Atlantic Meridional Overturning Circulation”, CGD research report, Boulder, CO.
- 02/2014 “Topographic control of the Atlantic Meridional Overturning Circulation”, Ocean Sciences Meeting, Honolulu, HI.
- 08/2013 “Ocean Modeling I: ocean modeling basics and the CESM ocean model”, CESM Tutorial Workshop, Boulder, CO.
- 05/2013 “The origins of large-scale North Atlantic ocean circulation changes in the late 20<sup>th</sup> century: implications for decadal prediction”, World Climate Research Program (WCRP) International Workshop on Seasonal to Decadal Prediction, Toulouse, France.
- 04/2013 “Understanding and predicting changes in North Atlantic sea surface temperature”, doctoral dissertation defense, University of Colorado, Department of Atmospheric and Oceanic Science, Boulder, CO.
- 08/2012 “On the origins and mechanisms of North Atlantic decadal variability between 1948-2007”, U.S. AMOC Annual PI Meeting, Boulder, CO.
- 06/2012 “Exploring the origins and mechanisms of recent decadal variations in the North Atlantic using CCSM4”, CESM Workshop, Breckenridge, CO.
- 02/2012 “A decadal prediction case study: late 20<sup>th</sup> century North Atlantic ocean heat content”, Ocean Sciences Meeting, Salt Lake City, UT.
- 12/2011 “A decadal prediction case study: late 20<sup>th</sup> century North Atlantic ocean heat content”, CCSM Ocean Model Working Group Meeting, Boulder, CO.
- 06/2011 “A CCSM4 decadal prediction case study: Abrupt North Atlantic ocean heat content change in the 1990s”, CCSM Workshop, Breckenridge, CO.
- 01/2011 “Initialized decadal prediction experiments using CCSM4”, 91<sup>st</sup> Annual Meeting of the American Meteorological Society, Seattle, WA.
- 10/2010 “Community Climate System Model (CCSM4) decadal prediction experiments initialized from best-estimates of the historical ocean state between 1970 and 2000”, CGD research report, Boulder, CO.
- 06/2010 “Decadal prediction with CCSM4: Update on ocean data assimilation efforts and the latest coupled results”, CCSM Workshop, Breckenridge, CO.
- 04/2010 “Decadal prediction with CCSM4”, IMAGE Theme of the Year Workshop, Boulder, CO.
- 02/2010 “Estimating the strength and variability of the Atlantic Meridional Overturning Circulation in recent decades using CCSM4”, Ocean Sciences Meeting, Portland, OR.

- 12/2009 "Towards decadal prediction with CCSM4", CCSM Ocean Model Working Group Meeting, Boulder, CO.
- 11/2009 "Estimating the strength and variability of the Atlantic Meridional Overturning Circulation in recent decades", CGD research report, Boulder, CO.
- 06/2009 "Low resolution POP", CCSM Workshop, Breckenridge, CO.
- 12/2008 "The nonlinear connection between Labrador Sea buoyancy loss, Deep Western Boundary Current strength, and Gulf Stream path in 1° POP", CCSM Ocean Model Working Group Meeting, Boulder, CO.
- 11/2008 "Mixed boundary conditions, thermohaline circulation, and the Gulf Stream", CGD research report, Boulder, CO.
- 06/2008 "Amelioration of North Atlantic circulation biases in non-eddy resolving POP", CCSM Workshop, Breckenridge, CO.
- 03/2008 "Observed diapycnal injection of salinity anomalies", Ocean Sciences Meeting, Orlando, FL.
- 12/2007 "POP vertical grids for CCSM4", CCSM Ocean Model Working Group Meeting, Boulder, CO.
- 06/2007 "Optimizing the POP vertical grid", CCSM Workshop, Breckenridge, CO.
- 02/2007 "CCSM3.5 sensitivity to ocean vertical grid resolution", CGD research report, Boulder, CO.
- 12/2006 "CCSM4 POP grid formulation", CCSM Ocean Model Working Group Meeting, Boulder, CO.
- 06/2006 "Exploration of increased vertical grid resolution for POP", CCSM Workshop, Breckenridge, CO.
- 12/2005 "CORE I and II in CCSM3", CCSM Ocean Model Working Group Meeting, Boulder, CO.
- 05/2005 "NCOM Hindcast (1958-1997)", CGD research report, Boulder, CO.
- 07/2004 "Origins of isopycnic interannual variability", CCSM Workshop, Breckenridge, CO.
- 01/2004 "Diurnal to decadal forcing for ocean models", CCSM Ocean Model Working Group Meeting, Boulder, CO.
- 06/2003 "Tools for implementing new displaced pole ocean grids in CCSM2", CCSM Workshop, Breckenridge, CO.
- 03/2003 "Tools for displaced-pole ocean grid generation for CCSM2", CCSM Ocean Model Working Group Meeting, Boulder, CO.

SELECT POSTER PRESENTATIONS

- 04/2022 "Consistent Response to Subpolar North Atlantic Surface Buoyancy Forcing in Three Climate Models" by W. M. Kim, A. Zhao, Y. Ruprich-Robert, S. **Yeager**, and J. Robson. US AMOC Science Team Meeting, Woods Hole, MA.
- 04/2022 "AMOC Signal-to-noise in an Eddy-resolving Historical Simulation (1958-2018)" by S. **Yeager**, A. Altuntas, F. Castruccio, W. Kim, P. Chang, G. Danabasoglu, and J. Small. US AMOC Science Team Meeting, Woods Hole, MA.
- 03/2022 "Multi-Year Predictability of the Kuroshio Extension in the CESM Decadal Prediction Systems" by W. Kim, S. **Yeager**, P. Chang, and G. Danabasoglu. US CLIVAR Workshop on Societally-Relevant Multi-Year Climate Predictions, Boulder, CO.
- 02/2021 "Exploring the Wider Impacts of Atlantic Multidecadal Variability using Coupled Model Ensembles" by S. **Yeager**, W. Kim, and G. Danabasoglu, WCRP-CLIVAR Workshop on Climate Interactions among the Tropical Basins, virtual workshop.
- 12/2020 "Historical North Atlantic Variability in CESM2 OMIP-2 Simulations at Low and High Resolutions" by S. **Yeager**, et al. AGU Fall Meeting, San Francisco, CA (virtual).

- 05/2019 “Atmospheric Responses to Arctic Sea Ice Loss in a High-top Atmospheric General Circulation Model” by Yu-Chiao Liang, Y.-O. Kwon, C. Frankignoul, G. Danabasoglu, and S. **Yeager**. AMS 15<sup>th</sup> Conference on Polar Meteorology and Oceanography, Boulder, CO.
- 05/2017 “Skillful Decadal Climate Prediction in the Atlantic Sector” by S. **Yeager**, N. Rosenbloom, G. Strand, K. Lindsay, G. Danabasoglu, A. Karspeck, S. Bates, and J. Meehl. US AMOC Science Team Meeting, Santa Fe, New Mexico.
- 05/2017 “JRA-55 based surface data set for driving ocean-sea ice models (JRA55-do). Part II: Assessment on the results of global ocean-sea ice models forced by the data set” by H. Tsujino, S. Urakawa, H. Nakano, J. Small, S. **Yeager**, W. Kim, G. Danabasoglu, W. Large, S. Josey, T. Suzuki, Y. Komuro, D. Yamazaki, S. Griffies, H. Tomita, and M. Valdivieso. Joint JpGU/AGU meeting, Tokyo, Japan.
- 09/2016 “Atmospheric conditions associated with Labrador Sea deep convection” by W. Kim, S. **Yeager**, P. Chang, and G. Danabasoglu. CLIVAR Open Science Conference, Qingdao, China.
- 02/2016 “Atlantic multidecadal variability climate impacts: idealized experiments with NCAR and GFDL coupled climate models” by F. Castruccio, Y. Ruprich-Robert, R. Msadek, S. **Yeager**, G. Danabasoglu, and T. Delworth. Ocean Sciences Meeting, New Orleans, LA.
- 02/2016 “Understanding multidecadal SST changes in the tropical North Atlantic” by W. M. Kim, S. **Yeager**, P. Chang, and G. Danabasoglu. Ocean Sciences Meeting, New Orleans, LA.
- 12/2015 “Sensitivity of ocean processes to changes and uncertainties in global river discharge” by H. Chandanpurkar, S. **Yeager**, J. Reager, and J. Famiglietti. AGU Meeting, San Francisco, CA.
- 09/2015 “Predictive skill of the CESM in forecasting the 2014-2015 cold winter in the eastern United States” by J. Xie, M. Zhang, S. **Yeager**, and G. Danabasoglu. EaSM PI Meeting, Bethesda, MD.
- 09/2015 “Predicted growth of Atlantic sea ice in the coming decade” by S. **Yeager**, H. Teng, and G. Danabasoglu. EaSM PI Meeting, Bethesda, MD.
- 09/2014 “Simulated Atlantic multidecadal variability (AMV) during the 20th century in CESM large ensemble and forced ocean simulations” by W. Kim, S. **Yeager**, P. Chang, and G. Danabasoglu. US AMOC Science Team Meeting, Seattle, WA.
- 09/2014 “Community Earth System Model (CESM) projections of AMOC in the coming decade: mechanisms and impacts” by S. **Yeager**, H. Teng, G. Danabasoglu, and A. Karspeck. US AMOC Science Team Meeting, Seattle, WA.
- 06/2014 “Atlantic hindcast sensitivity to historical Greenland freshwater forcing” by L. Landrum, S. **Yeager**, J. Box, J. Fyke, and S. Mernild. CESM Workshop, Breckenridge, CO.
- 10/2011 “A decadal prediction case study: late 20<sup>th</sup> century North Atlantic ocean heat content” by S. **Yeager**, A. Karspeck, G. Danabasoglu, J. Tribbia, and H. Teng. World Climate Research Program (WCRP) Open Science Conference, Denver, CO.
- 09/2010 “Community Climate System Model (CCSM4) decadal prediction experiments initialized from best-estimates of the historical ocean state between 1970 and 2000” by S. **Yeager**, G. Danabasoglu, J. Tribbia, J. Anderson, T. Hoar, N. Collins, K. Raeder, H. Teng, and J. Hurrell. CLIVAR WGOMD-GSOP Workshop on decadal variability, predictability, and prediction: understanding the role of the ocean, Boulder, CO.
- 01/2010 “Initialization of Community Climate System Model (CCSM4) decadal prediction experiments: hindcast estimates of the Atlantic Meridional Overturning Circulation in recent decades” by S. **Yeager**, G. Danabasoglu, J. Tribbia, J. Anderson, T. Hoar, and N. Collins. U.S. CLIVAR Workshop on predicting climate of the coming decades, Miami, FL.

- 01/2009 “The connection between Labrador Sea buoyancy loss, Deep Western Boundary Current Strength, and Gulf Stream path in a 1° ocean circulation model” by S. **Yeager** and M. Jochum. U.S. CLIVAR Western Boundary Current Workshop, Phoenix, AZ.
- 05/2006 “Observational evidence of winter spice injection” by S. **Yeager** and W. Large. U.S. CLIVAR Salinity Workshop, Woods Hole, MA.
- 11/2002 “On the extratropical origins of isopycnic variability” by S. **Yeager** and W. Large. WOCE and Beyond conference, San Antonio, TX.