

- Banks, H. T., and J. M. Gregory, 2006: Mechanisms of ocean heat uptake in a coupled climate model and the implications for tracer based predictions of ocean heat uptake. *Geophys. Res. Lett.*, **33**, L07608, <https://doi.org/10.1029/2005GL025352>.
- Böning, C. W., M. Scheinert, J. Dengg, A. Biastoch, and A. Funk, 2006: Decadal variability of subpolar gyre transport and its reverberation in the North Atlantic overturning. *Geophys. Res. Lett.*, **33**, L21S01, <https://doi.org/10.1029/2006GL026906>.
- Bouttes, N., J. M. Gregory, T. Kuhlbrodt, and R. S. Smith, 2014: The drivers of projected North Atlantic sea level change. *Climate Dyn.*, **43**, 1531–1544, <https://doi.org/10.1007/s00382-013-1973-8>.
- Bryan, K., 1984: Accelerating the convergence to equilibrium of ocean-climate models. *J. Phys. Oceanogr.*, **14**, 666–673, [https://doi.org/10.1175/1520-0485\(1984\)014<0666:ATCTEO>2.0.CO;2](https://doi.org/10.1175/1520-0485(1984)014<0666:ATCTEO>2.0.CO;2).
- Buckley, M. W., and J. Marshall, 2016: Observations, inferences, and mechanisms of the Atlantic meridional overturning circulation: A review. *Rev. Geophys.*, **54**, 5–63, <https://doi.org/10.1002/2015RG000493>.
- Drijfhout, S., G. J. van Oldenborgh, and A. Cimadoribus, 2012: Is a decline of AMOC causing the warming hole above the North Atlantic in observed and modeled warming patterns? *J. Climate*, **25**, 8373–8379, <https://doi.org/10.1175/JCLI-D-12-00490.1>.
- Garuba, O. A., and B. A. Klinger, 2016: Ocean heat uptake and interbasin transport of the passive and redistributive components of surface heating. *J. Climate*, **29**, 7507–7527, <https://doi.org/10.1175/JCLI-D-16-0138.1>.
- Gent, P. R., J. Willebrand, T. J. McDougall, and J. C. McWilliams, 1995: Parameterizing eddy-induced tracer transports in ocean circulation models. *J. Phys. Oceanogr.*, **25**, 463–474, [https://doi.org/10.1175/1520-0485\(1995\)025<0463:PEITTI>2.0.CO;2](https://doi.org/10.1175/1520-0485(1995)025<0463:PEITTI>2.0.CO;2).
- , and Coauthors, 2011: The Community Climate System Model version 4. *J. Climate*, **24**, 4973–4991, <https://doi.org/10.1175/2011JCLI4083.1>.
- Gregory, J. M., and Coauthors, 2005: A model intercomparison of changes in the Atlantic thermohaline circulation in response to increasing atmospheric CO<sub>2</sub> concentration. *Geophys. Res. Lett.*, **32**, L12703, <https://doi.org/10.1029/2005GL023209>.
- , and Coauthors, 2016: The Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP) contribution to CMIP6: Investigation of sea-level and ocean climate change in response to CO<sub>2</sub> forcing. *Geosci. Model Dev.*, **9**, 3993–4017, <https://doi.org/10.5194/gmd-9-3993-2016>.
- Huber, M. B., and L. Zanna, 2017: Drivers of uncertainty in simulated ocean circulation and heat uptake. *Geophys. Res. Lett.*, **44**, 1402–1413, <https://doi.org/10.1002/2016GL071587>.
- Kostov, Y., K. C. Armour, and J. Marshall, 2014: Impact of the Atlantic meridional overturning circulation on ocean heat storage and transient climate change. *Geophys. Res. Lett.*, **41**, 2108–2116, <https://doi.org/10.1002/2013GL058998>.
- Large, W. G., J. C. McWilliams, and S. C. Doney, 1994: Oceanic vertical mixing: A review and a model with a nonlocal boundary layer parameterization. *Rev. Geophys.*, **32**, 363–403, <https://doi.org/10.1029/94RG01872>.
- Luo, Y., J. Lu, F. Liu, and W. Liu, 2015: Understanding the El Niño-like oceanic response in the tropical Pacific to global warming. *Climate Dyn.*, **45**, 1945–1964, <https://doi.org/10.1007/s00382-014-2448-2>.
- , —, —, and O. Garuba, 2017: The role of ocean dynamical thermostat in delaying the El Niño-like response over the equatorial Pacific to climate warming. *J. Climate*, **30**, 2811–2827, <https://doi.org/10.1175/JCLI-D-16-0454.1>.
- Marshall, J., J. R. Scott, K. C. Armour, J.-M. Campin, M. Kelley, and A. Romanou, 2015: The ocean's role in the transient response of climate to abrupt greenhouse gas forcing. *Climate Dyn.*, **44**, 2287–2299, <https://doi.org/10.1007/s00382-014-2308-0>.
- Mikolajewicz, U., and R. Voss, 2000: The role of the individual air-sea flux components in CO<sub>2</sub>-induced changes of the ocean's circulation and climate. *Climate Dyn.*, **16**, 627–642, <https://doi.org/10.1007/s003820000066>.
- Robson, J., R. Sutton, K. Lohmann, D. Smith, and M. D. Palmer, 2012: Causes of the rapid warming of the North Atlantic Ocean in the mid-1990s. *J. Climate*, **25**, 4116–4134, <https://doi.org/10.1175/JCLI-D-11-00443.1>.
- Rugenstein, M. A. A., M. Winton, R. J. Stouffer, S. M. Griffies, and R. Hallberg, 2013: Northern high-latitude heat budget decomposition and transient warming. *J. Climate*, **26**, 609–621, <https://doi.org/10.1175/JCLI-D-11-00695.1>.
- Saenko, O. A., J. C. Fyfe, and M. H. England, 2005: On the response of the oceanic wind-driven circulation to atmospheric CO<sub>2</sub> increase. *Climate Dyn.*, **25**, 415–426, <https://doi.org/10.1007/s00382-005-0032-5>.
- , A. J. Weaver, D. Y. Robitaille, and G. M. Flato, 2007: Warming of the subpolar Atlantic triggered by freshwater discharge at the continental boundary. *Geophys. Res. Lett.*, **34**, L15604, <https://doi.org/10.1029/2007GL030674>.
- Sévellec, F., and A. V. Fedorov, 2016: AMOC sensitivity to surface buoyancy fluxes: Stronger ocean meridional heat transport with a weaker volume transport? *Climate Dyn.*, **47**, 1497–1513, <https://doi.org/10.1007/s00382-015-2915-4>.
- , —, and W. Liu, 2017: Arctic sea-ice decline weakens the Atlantic meridional overturning circulation. *Nat. Climate Change*, **7**, 604–610, <https://doi.org/10.1038/nclimate3353>.
- Smith, R. D., and P. Gent, Eds., 2002: Reference manual for the Parallel Ocean Program (POP): Ocean component of the Community Climate System Model (CCSM2.0 and 3.0). Los Alamos National Laboratory Tech. Rep. LAUR-02-2484, 76 pp., <http://www.cesm.ucar.edu/models/ccsm3.0/pop/doc/manual.pdf>.
- Smith, R. S., and J. M. Gregory, 2009: A study of the sensitivity of ocean overturning circulation and climate to freshwater input in different regions of the North Atlantic. *Geophys. Res. Lett.*, **36**, L15701, <https://doi.org/10.1029/2009GL038607>.
- , R. Sutton, and J. M. Gregory, 2014: The impact of salinity perturbations on the future uptake of heat by the Atlantic Ocean. *Geophys. Res. Lett.*, **41**, 9072–9079, <https://doi.org/10.1002/2014GL062169>.
- Taylor, K. E., R. J. Stouffer, and G. A. Meehl, 2012: An overview of CMIP5 and the experiment design. *Bull. Amer. Meteor. Soc.*, **93**, 485–498, <https://doi.org/10.1175/BAMS-D-11-00094.1>.
- Weaver, A. J., M. Eby, M. Kienast, and O. A. Saenko, 2007: Response of the Atlantic meridional overturning circulation to increasing atmospheric CO<sub>2</sub>: Sensitivity to mean climate state. *Geophys. Res. Lett.*, **34**, L05708, <https://doi.org/10.1029/2006GL028756>.
- Xie, P., and G. K. Vallis, 2012: The passive and active nature of ocean heat uptake in idealized climate change experiments. *Climate Dyn.*, **38**, 667–684, <https://doi.org/10.1007/s00382-011-1063-8>.
- Yang, H., G. Lohmann, W. Wei, M. Dima, M. Ionita, and J. Liu, 2016: Intensification and poleward shift of subtropical western boundary currents in a warming climate. *J. Geophys. Res. Oceans*, **121**, 4928–4945, <https://doi.org/10.1002/2015JC011513>.
- Yeager, S., and G. Danabasoglu, 2014: The origins of late-twentieth-century variations in the large-scale North Atlantic circulation. *J. Climate*, **27**, 3222–3247, <https://doi.org/10.1175/JCLI-D-13-00125.1>.