

GEORGE HALLIWELL, Curriculum Vitae
NOAA/AOML/PhOD
4301 Rickenbacker Causeway
Miami, Florida 33149

20 January, 2014

PERSONAL

Current Position: Oceanographer
Office Phone: (305) 361-4346
Home Address: 8700 SW 146th Street, Palmetto Bay, FL, 33176-8076
Home Phone: (305) 378-0341
Cell Phone: (305) 972-3975
Citizenship: USA
Place of Birth: Pittsburgh, PA, USA

HIGHER EDUCATION

Oregon State University	Ph.D.	1987
University of Delaware	M.S.	1979
Pennsylvania State University	B.S.	1971

EXPERIENCE

University of Miami	Research Associate Professor	2000-Present
University of Miami	Research Assistant Professor	1990-00
University of Rhode Island	Assistant Marine Scientist	1987-90
Oregon State University	Research Assistant	1980-86
University of Delaware	Marine Scientist II	1979-80
University of Delaware	Graduate Research Assistant	1976-79
U.S. Naval Oceanographic Office	Oceanographer	1972-76

PROFESSIONAL ORGANIZATIONS

The Oceanography Society
American Meteorology Society
American Geophysical Union
American Association for the Advancement of Science
Marine Technology Society

JURIED OR REFEREED JOURNAL ARTICLES & EXHIBITIONS

Halliwell, Jr., G. R., S. Gopalakrishnan, F. Marks, and D. Willey, 2015: Idealized Study of Ocean Impacts on Tropical Cyclone Intensity Forecasts. *Mon. Wea. Rev.*, in press, doi:10.1175/MWR-D-14-00022.1.

- Oke, P., G. Larnicol, E. M. Jones, V. Kourafalou, A. K. Sperrevik, F. Carse, C. A. S. Tanajura, B. Mourre, M. Tonani, G. B. Brassington, M. Le Hénaff, G. R. Halliwell, Jr., R. Atlas, A. M. Moore, C. A. Edwards, M. J. Martin, A. A. Sellar, A. Alvarez, P. De Mey, and M. Iskandarani, 2015: Assessing the impact of observations on ocean forecasts and reanalyses: Part 2, regional applications. *J. Operational Oceanogr.*, in press.
- Halliwell, Jr., G. R., V. Kourafalou, M. Le Henaff, R. Atlas, and L. K. Shay, 2015: OSSE impact analysis of airborne ocean surveys for improving upper-ocean dynamical and thermodynamical forecasts in the Gulf of Mexico. *Prog. in Oceanogr.*, 130, 32-46, doi:10.1016/j.pocean.2014.09.004.
- Halliwell, Jr., G. R., A. Srinivasan, V. Kourafalou, H Yang, D. Willey, M. Le Henaff, and R. Atlas, 2014: Rigorous evaluation of a fraternal twin ocean OSSE system in the open Gulf of Mexico. *J. Atmos. Ocean. Technol.*, 31, 105-130, doi:10.1175/JTECH-D-13-00011.1.
- Shay, L. K., B. Jaimes, J. K. Brewster, P. Meyers, E. Claire McCaskill, E. Uhlhorn, F. Marks, G. R. Halliwell, Jr., O-M Smedstad, and P. Hogan, 2011: Airborne ocean surveys of the Loop Current complex from NOAA WP-3D in support of the Deep Water Horizon oil spill. In *Monitoring and Modeling the Deepwater Horizon Oil Spill: A Record-Breaking Enterprise*, Liu *et al.*, Eds., AGU Monograph Series 195, 131-151.
- Bozec, A., M. S. Lozier, E. P. Chassignet, and G. R. Halliwell, 2011: On the variability of the Mediterranean outflow water in the North Atlantic from 1948 to 2006. *J. Geophys. Res.*, 116, doi:10.1029/2011JC007191.
- Jaimes, B., L. K. Shay, and G. R. Halliwell, 2011: The response of quasi-geostrophic oceanic vortices to tropical cyclone forcing. *J. Phys. Oceanogr.*, 41, 1965-1985.
- Mariano, A. J., V. H. Kourafalou, A. Srinivasan, H. Kang, G. R. Halliwell, E. H. Ryan, and M. Roffer, 2011. On the modeling of the 2010 Gulf of Mexico oil spill. *Dyn. Atmos. Oceans*, 52, 322-340.
- Halliwell, G. R. Jr., L. K. Shay, J. Brewster, and W. J. Teague, 2011: Evaluation and sensitivity analysis of an ocean model response to hurricane Ivan. *Mon. Wea. Rev.*, 139(3), 921-945.
- Chassignet, E. P., H. E. Hurlburt, E. J. Metzger, O. M. Smedstad, J. A. Cummings, G. R. Halliwell, R. Bleck, R. Baraille, A. J. Wallcraft, C. Lozano, H. L. Tolman, A. Srinivasan, S. Hankin, P. Cornillon, R. Weisberg, A. Barth, R. He, F. Werner, and J. Wilkin, 2009: U. S. GODAE: Global Ocean Prediction with the HYbrid Coordinate Ocean Model (HYCOM). *Oceanography*, 22(2), special issue: Excellence in Partnering award winners, 64-75.
- Halliwell, Jr., G. R., R. H. Weisberg, P. Hogan, O. M. Smedstad, and J. Cummings, 2009: Impact of GODAE products on nested HYCOM simulations of the West Florida Shelf. *Ocean Dyn.*, 59(1), 139-155.
- Goni, G., M. DeMaria, J. Knaff, C. Sampson, I. Ginis, F. Bringas, A. Mavume, C. Laner, I-I Lin, M. M. Ali, P. Sandery, S. Ramos-Buarque, K. Kang, A. Mehra, E. Chassignet, and G. Halliwell, 2009: Applications of satellite-derived ocean measurements to tropical cyclone intensity forecasting. *Oceanography*, 22(3), 176-183.

- Peng, G., Z. Garraffo, G. R. Halliwell, C.S. Merrien, V. Kourafalou, and P. Hogan, 2009: Temporal Variability of the Florida Current at 27°N. In *Ocean Circulation and El Niño: The New Research*, J. A. Long and D. S. Wells (ed.), Nova Science Publishers, New York, 119-137.
- Halliwell Jr. G. R., L. K. Shay, Jacob, S. D., Smedstad, O.M, and Uhlhorn, E.W., 2008: Improving ocean model initialization for coupled tropical cyclone forecast models using GODAE nowcasts. *Mon. Wea. Rev.*, 136, 2576-2591.
- Wallcraft, A. J., A. B. Kara, H. E. Hurlburt, E.P. Chassignet, and G. R. Halliwell, 2008: Value of bulk heat flux parameterizations for ocean SST prediction. *J. Mar. Sys.*, 174, 241-258.
- Chassignet, E. P., H. E. Hurlburt, O. M. Smedstad, G. R. Halliwell, P. J. Hogan, A. J. Wallcraft, and R. Bleck, 2007: The HYCOM (HYbrid Coordinate Ocean Model) data assimilative system. *J. Marine Systems*, 65, 60-83.
- Olascoaga, M. J., I. I. Rypina, M. G. Brown, F. J. Beron-Vera, H. Koçak, L. E. Brand, G. R. Halliwell, and L. K. Shay, 2006: Persistent Transport Barrier on the West Florida Shelf. *Geophys. Res. Lett.*, **33**, L22603, doi: 10.1029/2006GL027800.
- Chassignet, E.P., H.E. Hurlburt, O.M. Smedstad, G.R. Halliwell, P.J. Hogan, A.J. Wallcraft, and R. Bleck, 2006: Ocean prediction with the Hybrid Coordinate Ocean Model (HYCOM) In: *Ocean Weather Forecasting: An Integrated View of Oceanography*, Chassignet, E.P., and J. Verron (Eds.), Springer, 413-426.
- Chassignet, E. P., H. E. Hurlburt, O. M. Smedstad, G. R. Halliwell, A. J. Wallcraft, E. J. Metzger, B. O. Blanton, C. Lozano, D. B. Rao, P. J. Hogan, and A. Srinivasan, 2006: Generalized vertical coordinates for eddy resolving global and coastal ocean forecasts. *Oceanogr.*, 19, 20-31.
- Halliwell, Jr., G.R., 2004: Evaluation of Vertical Coordinate and Vertical Mixing Algorithms in the Hybrid-Coordinate Ocean Model (HYCOM). *Ocean Modelling*, 7, 285-322.
- Shaji, C., C. Wang, G.R. Halliwell, Jr., and A.J. Wallcraft, 2005: Simulation of Tropical Pacific and Atlantic Oceans using hybrid coordinate ocean model. *Ocean Modelling*, 9, 253-282.
- Thacker, W.C., S-K Lee, and G.R. Halliwell, Jr., 2004: Assimilating twenty years of Atlantic XBT data HYCOM: A first look. *Ocean Modelling*, 7,183-210.
- Chassignet, E.P., L. Smith, G.R. Halliwell, and R. Bleck, 2003: North Atlantic simulation with the hybrid coordinate ocean model (HYCOM): Impact of the vertical coordinate choice and resolution, reference density, and thermobaricity. *J. Phys. Oceanogr.*, 33, 2504-2526.
- Halliwell, Jr., G.R., R. H. Weisberg, and D.A. Mayer, 2003: A synthetic float analysis of upper-limb meridional overturning circulation interior ocean pathways in the tropical/subtropical Atlantic. In: *Interhemispheric Water Exchange in the Atlantic Ocean*, G. Goni and P. Malanotte-Rizzoli, editors, *Elsevier Publishing Company*, 93-136.
- Halliwell, Jr., G.R., 1998: Simulation of North Atlantic decadal/multi-decadal SST anomalies driven by standing and propagating basin-scale atmospheric circulation anomalies. *J. Phys. Oceanogr.*, **28**, 5-21.

- Halliwel, Jr., G.R., 1997: Decadal and multi-decadal North Atlantic SST anomalies driven by basin-scale atmospheric anomalies. *J. Climate*, **10**, 2405-2411.
- Halliwel, Jr., G.R. and D.A. Mayer, 1996: Frequency response properties of forced climatic SST anomaly variability in the North Atlantic. *J. Climate*, **9**, 3575-3587.
- Halliwel, Jr., G.R., G. Peng and D.B. Olson, 1994: Stability of the Sargasso Sea Subtropical Convergence Zone. *J. Phys. Oceanogr.*, **24**, 1166-1183.
- Halliwel, Jr., G.R., P. Cornillon and D.A. Byrne, 1991: Westward-propagating SST anomaly features in the Sargasso Sea, 1982-88. *J. Phys. Oceanogr.*, **21**, 635-649.
- Halliwel, Jr., G.R., Y.J. Ro and P. Cornillon, 1991: Westward-propagating SST anomalies and baroclinic eddies in the Sargasso Sea. *J. Phys. Oceanogr.*, **21**, 1664-1680.
- Hanson, H.P., V.M. Halliwel, P. Cornillon, G.R. Halliwel, Jr. and E. Bohm, 1991: Climatological perspectives, oceanographic and meteorological, on variability in the subtropical convergence zone in the northwestern Atlantic. *J. Geophys. Res.*, **96**, 8517-8529.
- Halliwel, Jr., G.R., P. Cornillon, K.H. Brink, R.T. Pollard, D.L. Evans, L.A. Regier, J.M. Toole and R.W. Schmitt, 1991: Descriptive oceanography during FASINEX: Medium to large-scale variability. *J. Geophys. Res.*, **96**, 8553-8567.
- Halliwel, Jr., G.R. and P. Cornillon, 1990: Large-scale SST variability in the western North Atlantic subtropical convergence zone during FASINEX. Part 2: Upper ocean heat balance and frontogenesis. *J. Phys. Oceanogr.*, **20**, 223-234.
- Halliwel, Jr., G.R. and P. Cornillon, 1990: Large-scale SST variability in the western North Atlantic subtropical convergence zone during FASINEX. Part 1: Description of SST and wind stress fields. *J. Phys. Oceanogr.*, **20**, 209-222.
- Halliwel, Jr., G.R. and P. Cornillon, 1989: Large-scale SST anomalies associated with subtropical fronts in the western North Atlantic during FASINEX. *J. Mar. Res.*, **47**, 757-775.
- Halliwel, Jr., G.R. and J.S. Allen, 1987: Wavenumber-frequency domain properties of the coastal sea level response to alongshore wind stress along the west coast of North America, 1980-84. *J. Geophys. Res.*, **92**, 11761-11788.
- Halliwel, Jr., G.R. and J.S. Allen, 1987: The large-scale coastal wind field along the west coast of North America 1981-82. *J. Geophys. Res.*, **92**, 1861-1884.
- Brink, K.H., D.C. Chapman and G.R. Halliwel, Jr., 1987. A stochastic model for wind-driven currents over the continental shelf. *J. Geophys. Res.*, **92**, 1861-1884.
- Halliwel, Jr., G.R. and J.S. Allen, 1984: Large-scale sea level response to atmospheric forcing along the west coast of North America, summer 1973. *J. Phys. Oceanogr.*, **14**, 864-886.
- Halliwel, Jr., G.R. and C.N.K. Mooers, 1983: Meanders of the Gulf Stream downstream of Cape Hatteras, 1975-1978. *J. Phys. Oceanogr.*, **13**, 1275-1292.

Halliwel, Jr., G.R. and C.N.K. Mooers, 1979: The space-time structure and variability of the shelf water-slope water and Gulf Stream surface temperature fronts and associated warm-core eddies. *J. Geophys. Res.*, **84**, 7707-7727.

Mooers, C. N. K. and G. R. Halliwel, Jr., 1979: Analysis of atmospheric forcing over the continental shelf between Cape Hatteras and northern Nova Scotia. *Bull. Amer. Meteorol. Soc.*, 60(10), 1274-1283.

Halliwel, Jr., G. R., Jr. and C. N. K. Mooers, 1978: Comparison of hydrographic, acoustic, and inertial-internal wave properties of Gulf Stream and Georges Bank shelf water – slope water fronts. *EOS, Trans. Amer. Geophys. Union*, 59(5), 491.

OTHER WORKS, PUBLICATIONS, AND PRESENTATIONS

Halliwel, Jr., G. R., V. H. Kourafalou, R. Atlas, M. Mehari, H. Kang, and M. Le Hénaff, 2015: North Atlantic OSSEs in support of coupled hurricane intensity forecast improvement: Impact of ocean observing system enhancements. 19th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Ocean, And Land Surface, AMS Annual Meeting, Phoenix, AZ.

Halliwel, Jr., G. R., V. Kourafalou, M. Le Hénaff, and R. Atlas, 2014: Development, validation, and regional applications of a new ocean OSSE system. Ocean Sciences Meeting, Honolulu, HI.

Halliwel, Jr., G. R., V. Kourafalou, M. Le Hénaff, and R. Atlas, 2014: OSSE evaluation of rapid-response airborne ocean observing strategies in the Gulf of Mexico. 18th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Ocean, And Land Surface, AMS Annual Meeting, Atlanta, GA..

Halliwel, Jr., G. R., V. Kourafalou, M. Le Hénaff, and R. Atlas, 2013: OSSE evaluation of rapid-response airborne ocean observing strategies in the Gulf of Mexico. Poster, GODAE OceanView Symposium, Baltimore, MD.

Halliwel, Jr., G. R., A. Srinivasan, D. Willey, V. Kourafalou, M. Le Hénaff, H. Yang, and R. Atlas, 2012: Development and calibration of a rigorous fraternal twin ocean OSSE system in the Gulf of Mexico, American Meteorological Society meeting, New Orleans, LA (abstract only).

Halliwel, Jr., G. R., O. M. Smedstad, P. Hogan, L. K. Shay, V. H. Kourafalou, M. Le Henaff, A. Srinivasan, F. Marks, and R. Atlas, 2011: OSE/OSSE evaluation of the impact of targeted P-3 airborne ocean observations obtained in response to the Deepwater Horizon oil spill. American Meteorological Society meeting, Seattle, WA (abstract only).

Halliwel, Jr., G. R., D. Willey, J. Brewster, B. Jaimes, L. K. Shay, and R. Atlas, 2010: The potential role of Observing System Simulation Experiments for improving ocean model initialization in coupled hurricane forecast models. Interdepartmental Hurricane Conference, Savannah, GA (abstract only).

- Yablonsky, R., I. Ginis, B. Thomas, J. J. Cione, G. R. Halliwell, Jr, E. Uhlhorn, H-S Kim, C. Lozano, E. Chassignet, and H. Winterbottom, 2010: Validating the ocean model component of coupled hurricane forecast models. Interdepartmental Hurricane Conference, Savannah, GA (abstract only).
- Halliwell, Jr., G. R., W. Teague, L. K. Shay, and J. Brewster, 2010: Evaluation of an ocean model response to Hurricane Ivan over the Northern Gulf of Mexico continental shelf and slope. Ocean Sciences Meeting, Portland, OR (abstract only).
- Halliwell, Jr., G. R., H. Yang, W. C. Thacker, R. Atlas, 2010: Observing System Simulation Experiments for the Atlantic Meridional Overturning Circulation: Problems and progress, Ocean Sciences Meeting, Portland, OR (abstract only).
- Halliwell, Jr., G. R., R. Atlas, W. C. Thacker, H. Yang, V. Kourafalou, and M. LeHenaff, 2010: The impact of ocean model limitations on Observing System Simulation Experiments. 14th Conference on Integrated Observing and Assimilation Systems for Atmosphere, Oceans, and Land Surface (IOAS-AOLS), AMS Annual Meeting, Atlanta, GA (abstract only).
- Halliwell, Jr., G. R., W. J. Teague, L. K. Shay, and J. Brewster, 2010: Evaluation of an ocean model response to hurricane Ivan over the northern Gulf of Mexico continental shelf and slope. Ocean Sciences Meeting, Portland, OR (abstract).
- Halliwell, Jr., G. R., H. Yang, W. C. Thacker, and R. Atlas, 2010: Observing System Simulation Experiments for the Atlantic Meridional Overturning Circulation: problems and progress. Ocean Sciences 2009 (abstract).
- Halliwell, Jr., G. R., W. C. Thacker, H. Yang, and Z. Garraffo, 2009: Observing System Simulation Experiments for the Atlantic meridional overturning circulation. OceanObs09 short paper.
- Halliwell, Jr., G. R., L. K. Shay, and J. Brewster, 2008: Importance of ocean observations for initializing ocean models for tropical cyclone forecasts. OceanObs09 short paper.
- Yang, H., G. R. Halliwell, Jr., and W. C. Thacker, 2009: Uncertainties of the Atlantic Meridional Overturning Circulation. MOCA-09 Meeting, Montreal, Canada (abstract).
- Thacker, W. C., H. Yang, and G. R. Halliwell, Jr., 2009: Virtual OSSE for the Atlantic Meridional Overturning Circulation. MOCA-09 Meeting, Montreal, Canada (abstract).
- Halliwell, Jr., G. R., V. H. Kourafalou, R. H. Weisberg, W. J. Teague, and R. H. Smith, 2008: Impact of Initial Conditions Provided by GODAE Products on the Simulated Coastal Ocean Response to Hurricanes. AGU 2008 Fall Meeting, San Francisco, CA (abstract).
- Kourafalou, V. H., G. R. Halliwell, P. Hogan, H. Hang, R. Schiller, and C. Paris, 2008: Modeling circulation patterns that influence connectivity of remote ecosystems in the wider Caribbean regional and Gulf of Mexico. 2008 AGU Joint Assembly, Ft. Lauderdale, FL. (abstract).
- Halliwell, G. R., L. K. Shay, J. Brewster, and W. J. Teague, 2008: Improving the ocean model response to tropical cyclones. Proceedings. 28h Conference on Hurricanes and Tropical Meteorology, Orlando, FL.

- Halliwell, G. R., A. Barth, O. M. Smedstad, P. J. Hogan, and R. Weisberg, 2008: Sensitivity of West Florida Shelf simulations to initial and boundary conditions provided by data-assimilative ocean hindcasts Ocean Sciences Meeting, Orlando, FL. (abstract).
- Halliwell, G. R., L. K. Shay, P. Vertes, and W. J. Teague, 2007: Evaluating and improving the ocean model response to tropical cyclones for improving intensity forecasts IUGG XXIV 2007, Perugia, Italy. (abstract).
- Jacob, S. D., D. M. Le Vine, L. K. Shay, G. R. Halliwell, C. Lozano, and A. Mehra, 2006: Evaluation of upper ocean mixing parameterizations for use in coupled models. Paper 6C.2 in Proceedings, 27th Conference on Hurricanes and Tropical Meteorology, Monterey, CA.
- Halliwell, Jr., G. R., L. K. Shay, E. W. Uhlhorn, S. D. Jacob, and O. M. Smedstad, 2006: Improving ocean basic state initialization in coupled tropical cyclone forecast models. Paper 3C.6 in Proceedings, 27th Conference on Hurricanes and Tropical Meteorology, Monterey, CA.
- Jaimes, B., L. K. Shay, E. Uhlhorn, T. M. Cook, J. Brewster, G. R. Halliwell, Jr., and P. Black, 2006: Influence of the Loop Current ocean heat content on hurricanes Katrina, Rita, and Wilma. Paper 3C.4 in Proceedings, 27th Conference on Hurricanes and Tropical Meteorology, Monterey, CA.
- Halliwell, Jr., G.R., 2005: Atlantic Ocean Model Response to Realistic NAO-Related Atmospheric Forcing at Quasi- to Multi-decadal Periods. Clivar Atlantic meeting, Miami, FL.
- Halliwell, Jr., G.R., L.K. Shay, O.M. Smedstad, and S.D. Jacob, 2005: Evaluation of Atlantic Ocean assimilative hindcasts for use as initial and boundary conditions in hurricane simulations. 59th annual Interdepartmental Hurricane Conference, Jacksonville, FL.
- Chassignet, E. P., R. Bleck, A. Wallcraft, G. Halliwell, M. Iskandarani, and V. Garnier, 2004: Overview of HYCOM: the Hybrid Coordinate Ocean Model. European Geophysical Union meeting.
- Jacob, S.D., L.K. Shay, and G.R. Halliwell, 2004: Evaluation of upper-ocean mixing parameterizations. Proceedings, 26th Conference on Hurricanes and Tropical Meteorology, Miami, FL.
- Halliwell, Jr., G.R., R.H. Weisberg, 2002: Dynamical and thermodynamical processes governing fluid pathways of the upper limb of the Atlantic Meridional overturning circulation. EOS, **83**, AGU Fall Meeting, San Francisco, CA.
- Jacob, S.D., L.K. Shay, and G.R. Halliwell, 2002: Effects of entrainment closure on the oceanic mixed layer response during a tropical cyclone passage: a numerical investigation. Proceedings, 25th Conference on Hurricanes and Tropical Meteorology, Orlando, FL.
- Halliwell, Jr., G.R., R.H. Weisberg, and D.A. Mayer, 2001: A Synthetic Drifter Analysis of Upper-limb Meridional Overturning Circulation Interior Ocean Pathways in the Tropical/Subtropical Atlantic. Short paper, Proceedings of the U.S. CLIVAR Atlantic Conference, Boulder, CO, 183 - 185.

- Halliwel, Jr., G.R., 2001: Simulation of the Atlantic Ocean Response to NAO-Related Atmospheric Forcing at Interannual to Interdecadal Periods. Proceedings of the U.S. CLIVAR Atlantic conference, Boulder, CO, 132 - 135.
- Halliwel, Jr., G.R., R.H. Weisberg, and D.A. Mayer, 2001: A Synthetic Drifter Analysis of Upper-Limb Meridional Overturning Circulation Interior Ocean Pathways, IUGG 2001: An Ocean Odyssey, Mar Del Plata, Argentina, Abstract.
- Halliwel, Jr., G.R., and R. Bleck, E.P. Chassignet, and L.T. Smith, 2001: Sensitivity of Atlantic Ocean Simulations by the Hybrid-Coordinate Ocean Model (HYCOM) to the Parameterization of upper ocean mixing. The Oceanography Society Meeting, Miami, Beach, Florida.
- Smith, L.T., R. Bleck and G.R. Halliwel, Jr, 2000: A Hybrid-Coordinate Open-Boundary-Condition regional model for the Inter-American Seas. *EOS*, **80** (abstract).
- Halliwel, Jr., G.R., R. Bleck, E.P. Chassignet and L.T. Smith, 2000: Mixed layer model validation in Atlantic Ocean simulations using the Hybrid-Coordinate Ocean Model (HYCOM). *EOS*, **80** (abstract).
- Halliwel, Jr., G.R., 1999: Simulations of Quasi-Decadal and Interdecadal Variability in the Atlantic Ocean Associated with the North Atlantic Oscillation. Invited Paper, IUGG99, Birmingham, UK.
- Halliwel, Jr., G.R., R. Bleck and E. Chassignet, 1998: Atlantic Ocean simulation performed using a new hybrid-coordinate ocean model. *EOS*, Fall AGU Meeting, San Francisco, CA.
- Halliwel, Jr., G.R., 1997: Simulation of decadal/interdecadal variability in the North Atlantic driven by the anomalous wind field/ Proceedings, Seventh Conference On Climate Variations, Long Beach, CA., 97-102.
- Halliwel, Jr., G.R., 1996: Simulation of atmospherically-forced decadal and multi-decadal winter SST anomaly variability in the North Atlantic from 1950 to 1992. *EOS*, **77** (abstract).
- Halliwel, Jr., G.R., 1995: "Satellite Data Analysis for the Standard Emerald Sea Test". Final Report, submitted to Johns Hopkins University.
- Halliwel, Jr., G.R., 1995: "North Atlantic SST Anomalies and Meridional Overturning Circulation Variability". Proceedings, ACCP Meeting, Miami, FL.
- Halliwel, Jr., G.R., 1994: "Frequency-dependent Properties of North Atlantic SST Anomaly Variability: Atmospheric vs. Oceanic Forcing". Proceedings, ACCP PI Meeting, Princeton, N.J.
- Halliwel, Jr., G.R., F. Horsfall, R. Bleck and H.P. Hanson, 1994: Sensitivity of an isopycnic-coordinate OGCM to parameterizations of upper ocean mixing. *EOS*, **75(3)** (abstract), 189.
- Halliwel, Jr., G.R., 1992: Nonlinear influence of shorter-period mixed layer transport variability on multi-decadal SST anomaly variability in the North Atlantic. *EOS*, **73(43)** (abstract), 312.

- Halliwel, Jr., G.R., 1992: "Dynamics of SST Anomaly Variability in the Atlantic Ocean: Preliminary Analyses Using COADS Fields". Proceedings ACCP Science Meeting, Miami, FL.
- Halliwel, Jr., G.R., 1992: "Preliminary Comparison of North Atlantic SST Anomalies Between COADS and AVHRR-derived Fields". Proceedings, International COADS Workshop, Boulder, CO.
- Halliwel, Jr., G.R., D.B. Olson and G. Peng, 1992: Baroclinic instability of the subtropical convergence zone in the Sargasso Sea. *EOS*, **73(2)** (abstract).
- Halliwel, Jr., G.R. and P. Cornillon, 1990: Large-scale SST anomalies in the Sargasso Sea: Investigation of forcing mechanisms. *EOS*, **71 (2)** (abstract), 74.
- Halliwel, Jr., G.R. and P.C. Cornillon, 1989: XBT cross-sections of the western North Atlantic subtropical front. *EOS*, **70(15)** (abstract), 355.
- Cornillon, P. and G.R. Halliwel, Jr., 1989: "Satellite-derived SST Movie Loops: Two Approaches". Proceedings, The Oceanography Society Inaugural Meeting, The Oceanography Society, Washington, D.C., 42.
- Cornillon, P.C. and G.R. Halliwel, Jr., 1989: Movie loops of surface oceanographic and atmospheric forcing fields in the western North Atlantic subtropical convergence zone. *EOS*, **70(15)** (abstract), 374.
- Halliwel, Jr., G.R. and P. Cornillon, 1988: "Large-scale SST Fluctuations and Frontogenesis During FASINEX". Preprint Vol., Seventh Conference on Ocean-Atmosphere Interaction, *American Meteorological Society*, Boston, MA., 47-50.
- Halliwel, Jr., G.R. and Peter Cornillon, 1987: "Five-day Maps of AVHRR/2 Sea Surface Temperature Fields and Wind Stress Analysis During FASINEX". Tech. Rep. Ref. No. 87-5, Graduate School of Oceanography, University of Rhode Island, Narragansett, R.I., 67pp.
- Halliwel, Jr., G.R., H.L. Pittock, V.M. Halliwel and J.S. Allen, 1986: "The CODE: Large-scale Meteorological, Sea Surface Temperature, and Coastal Sea Level Data Set, 1980-84". Ref. 86-15, Data Rep. 125, College of Oceanography, Oregon State University, Corvallis, OR., 442 pp.
- Halliwel, Jr., G.R. and J.S. Allen, 1985: "CODE-2: Large-scale Wind and Sea Level Observations". In: CODE-2: Moored Array and Large-scale Data Report. R.J. Limeburner, Ed., Tech. Rep. WHOI-85-35, 181-235.
- Halliwel, Jr., G.R. and J.S. Allen, 1985: Seasonal differences in the response of coastal sea level to atmospheric forcing along the west coast of North America derived from wavenumber-frequency space analysis. *EOS*, **66(46)** (abstract), 915.
- Halliwel, Jr., G.R. and J.S. Allen, 1984: Comparison of Bakun calculated winds to measured winds along the west coast of North America, 1981-82. *EOS*, **65(45)** (abstract), 977.
- Halliwel, Jr., G.R. and J.S. Allen, 1983: Large-scale aspects of sea level fluctuations along the west coast of the United States during April-August 1981. *EOS*, **64(45)** (abstract), 717.

- Halliwel, Jr., G.R. and J.S. Allen, 1983: "CODE-1: Large-scale Wind and Sea Level Observations". In CODE-1: Moored Array and Large-scale Data Report. L.K. Rosenfeld, Ed., Tech. Rep. WHOI-82-23, Woods Hole Oceanographic Institution, Woods Hole, MA., 181-234.
- Halliwel, Jr., G.R. and J.S. Allen, 1982: Wavenumber-frequency properties of wind-forced sea level fluctuations along the west coast of North America. *EOS*, **63(45)** (abstract), 1011.
- Halliwel, Jr., G.R. and J.S. Allen, 1981: Atmospheric forcing of coastal sea level fluctuations along the west coast of the United States during June-September 1973. *EOS*, **62(45)** (abstract), 912.
- Halliwel, Jr., G.R. and C.N.K. Mooers, 1980: "Statistical Analysis and Hindcasts of Atmospheric Forcing Fields in the Georges Bank - Gulf of Maine Region". Final Tech. Rep., submitted to the EG&G Environmental Consultants, Waltham, MA.
- Halliwel, Jr., G.R., C.N.K. Mooers, R.G. Williams and K.C. Vierra, 1980: Bibliography for the "Coastal Circulation of the Eastern North Pacific". Unnumbered Tech. Rep., College of Marine Studies, University of Delaware, Newark, DE., 77pp.
- Halliwel, Jr., G.R., R.G. Williams, R.W. Reeves, F.A. Godshall, S.W. Fehler, P.J. Pytlowany, K.C. Vierra, C.N.K. Mooers, M.D. Earle and K. Bush, 1980: "An Oceanographic Analysis of the California Pacific Outer Continental Shelf Region". Final report to the Bureau of Land Management, prepared by NOAA, Environmental Data and Information Service, Center for Environmental Assessment Services, Washington, D.C.
- Mooers, C.N.K. and G.R. Halliwel, Jr., 1979: "An Analysis of Atmospheric Forcing Over the Continental Shelf Between Cape Hatteras and Nova Scotia". Preprint Volume, Second Conference on Coastal Meteorology, *American Meteorological Society*, Boston, MA., 187-191.
- Halliwel, Jr., G.R. and C.N.K. Mooers, 1979: Statistical properties and hindcasts of atmospheric forcing on Georges Bank. *EOS*, **60 (45)**, (abstract) 884.

THESIS AND DISSERTATION ADVISING

- Committee Member, Ph.D., Todd Spindler, June 1999.
 Committee Member, MS, Renellys Perez, June 1998
 Committee Member, MS, Xinglong Wu, 2003
 Committee Member, PhD, Benjamin Jaimes, 2009
 Committee Member, PhD, Rafael Schiller, 2006
 Committee Member, MS, Ryan Schuster, 2013