

BIOGRAPHICAL SKETCH

ERIC P. CHASSIGNET

Director, Center for Ocean-Atmospheric Prediction Studies
 Florida State University
 Tallahassee, Florida

PERSONAL

Citizenship: USA
 Current Academic Rank: Professor
 Department: Earth, Ocean, and Atmospheric Science
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HIGHER EDUCATION

Ph. D. in Physical Oceanography, 1988, University of Miami, Miami, USA.

PROFSSIONAL EXPERIENCE

Florida State University	Distinguished professor	3/12 - present
	Professor	3/06 - present
	COAPS director	3/06 - present
	FCI director	6/10 - present
University of Miami	Adjunct Professor	3/06 - present
	Professor	6/01 - 3/06
	Associate Professor	6/95 - 5/01
	Assistant Professor	9/90 - 5/95
Woods Hole Oceanographic Institution (WHOI)	GFD Faculty	8/00 - present
National Center for Atmospheric Research (NCAR)	Postdoctoral Associate	8/88 - 8/90

SYNERGISTIC ACTIVITIES

2018-present Director, Gulf of Mexico Research Initiative Consortium for Simulation of Oil-Microbial Interactions in the Ocean (CSOMIO)

2015-present CLIVAR Atlantic Panel

2015-present Member, Association of Public and Land-grant Universities' Board on Oceans, Atmosphere, and Climate

2010-present Fellow, NOAA Cooperative Institute for Marine and Atmospheric Studies (CIMAS)

2006-present Fellow, NOAA Northern Gulf of Mexico Cooperative Institute (NGI)

2004-present SHOM Advisory Panel

2001-present International GODAE OceanView Science Steering Team (co-chair since 2017)

1999-present Coordinator, HYCOM Consortium for Data Assimilative Modeling

1999-present WOCE/CLIVAR Working Group on Ocean Model Development

2015-2018 Member, University Corporation for Atmospheric Research Community Advisory Committee for NCEP (UCACN) Model Advisory Committee (UMAC)

2015 NSF Oceanography Review Panel

- 2014-2016 National Research Council (NRC) committee member "Developing a U.S. Research Agenda to Advance Subseasonal to Seasonal Forecasting"
- 2011-2015 Director, Deep Sea to Coast Connectivity in the Eastern Gulf of Mexico (Deep-C) Gulf of Mexico Research Initiative Consortium
- 2009-2012 MyOcean Science Advisory Committee
- 2011 DOE Science Focus Area Review Panel
- 2007-2010 TeraGrid Science Advisory Board
- 2007 Host for ONR Southeast Region Progress Review
- 2004-2005 US CLIVAR Atlantic Panel
- 2004 NSF Oceanography Review Panel
- 2003-2004 International Liège Colloquium on Ocean Hydrodynamics Scientific Organizing Committee
- 2002-2006 ESMF Advisory Board
- 2002-2003 NSF Lagrangian/Autonomous Platforms Workshop Steering Committee
- 2001-2002 2002 WOCE Conference Organizing Committee
- 2001 MERCATOR-OCEAN Review Panel
- 2000-2001 International Liège Colloquium on Ocean Hydrodynamics Scientific Organizing Committee
- 1999-2011 National Center for Atmospheric Research Scientific Computing Division Advisory Panel
- 1999-2008 US-GODAE Science Steering Committee
- 1997-1998 NSF APROPOS Workshop Science Steering Committee
- 1995-1997 National Center for Atmospheric Research Scientific Computing Division Advisory Panel
- 1994-1998 ONR/DAMÉE-NAB Steering Committee
- 1993 NSF Oceanography Review Panel
- 1992-1997 WOCE Working Group in Numerical Modeling

UNIVERSITY COMMITTEE AND ADMINISTRATIVE RESPONSIBILITIES

- 2018-2019 Chair, Earth, Ocean, and Atmospheric Science chair search committee
- 2017 Director, GODAE OceanView Summer School, "New Frontiers in Operational Oceanography", Majorca, Spain
- 2016-2017 Professeur invité, Université TOULOUSE III - Paul Sabatier
- 2013 Director, Summer GFD Program, "Buoyancy-Driven Flows", Woods Hole, USA.
- 2012-present Director, Florida Climate Institute (FCI) at the Florida State University
- 2011-present Florida State University, Steering Committee, Inter-American Seas Research Consortium (ISRC)
- 2011-present Florida State University, Department of Earth, Ocean and Atmospheric Science Computer Committee
- 2010-present Florida State University, Department Earth, Ocean, and Atmospheric Science Building Committee
- 2010-2012 Co-Founder and Director, Florida Climate Institute (jointly with the University of Florida)

- 2007-present Chair, Florida State University, High Performance Computing Advisory Panel
- 2006-present Director, Florida State University, Center for Ocean-Atmospheric Predictions Studies (COAPS)
- 2010 Director, AOSTA Alpine Summer School, "Buoyancy-Driven Flows", Valsavarenche, Italy.
- 2009-2011 Florida State University, Department of Oceanography Computer Committee
- 2008 Chair, Quality Enhancement Review for the Geophysical Fluid Dynamics Institute at Florida State University
- 2004 Director, GODAE Summer School "Ocean Weather Forecasting: An Integrated View of Oceanography", Lalonde Les Maures, France
- 2003-2005 University of Miami, RSMAS School Council
- 1998-2006 University of Miami, RSMAS Computing and Communications Committee (Chair 1998-2004, Co-Chair 2004-2006).
- 1998 Director, NATO-Advanced Study Institute, "Ocean Modeling and Parameterization", Les Houches, France
- 1992-2006 University of Miami, RSMAS, Meteorology and Physical Oceanography Academic Committee (Chair 1992-1995)
- 1992-2006 University of Miami, RSMAS, Meteorology and Physical Oceanography Space Committee (Chair 1997-2006)

GRADUATE OR POST-GRADUATE ADVISOR (* Main advisor or supervisor)

M.S. or Ph.D.: S. Sun, E. Fillenbaum, Y. Song, A. Roubicek*, T. Özgökmen, D. Fratantoni, H. Kang, J. Jacob*, S. Dutkiewicz, A. Paiva*, D. Zhang, O. Esenkov, J. Hargrove, S. Sofianos, W. Cheng, M. Papadakis*, B. O'Connor, M. Veneziani*, B. Jaimes*, M. Saraceno, X. Xu*, C. Rousset, C.L. Gentemann, F. Yao, G. Athie De Valasco, D. Moroni, M. Magaldi, G. Colantuono, F. Gouillon*, A. Kennedy*, P. Hughes, J. Dong, C. Chien, A. Todd*, D. VanDyke*, H. Winterbottom*, C. Albers, S. Sejas*, P. Lewis*, J.-P. Michael*, M. Williams, G. Castellao, A. Smentek-Duerr, B. Farmer*, G. Vickers*, T. Nguyen*, N. Crook, D. Aktas*, M. Clark*, T. Bhatrasataponkul*, E. Olvera*, S. Bishnu*, X. Chen*, T. Stropshire*, M. Shaner*, B. Haynes*.

Postdocs: T. Özgökmen*, A. Romanou*, L. Cherubin*, V. Garnier*, J. Olascoaga*, D. Bi*, M. Bentsen*, A. Bozec*, S. Rattan*, C. Edwards*, Li Ren*.

TEACHING

Geophysical Fluid Dynamics
Advanced Geophysical Fluid Dynamics
Dynamical Oceanography
Computer Models in Fluid Dynamics
Numerical Methods

PROFESSIONAL SOCIETIES

Member American Geophysical Union
Member American Meteorological Society
Member American Association for the Advancement of Science

HONORS AND AWARDS

2012 Distinguished Research Professor (Florida State University)

- 2008 NOPP Excellence in Partnering Award (MISST)
- 2007 NOPP Excellence in Partnering Award (HYCOM Consortium)
- 1996 NSF Creativity Award (with R. Bleck)
- 1989 Post-Doctoral Fellowship, Geophysical Fluid Dynamics Program, Woods Hole
Oceanographic Institution
- 1988-1990 Post-Doctoral Fellowship, Advanced Study Program of the National Center for
Atmospheric Research
- 1987 Koczy Graduate Fellowship for most outstanding doctoral student at the Rosenstiel
School of Marine and Atmospheric Sciences, University of Miami

EDITORIAL RESPONSABILITIES

Journal of Physical Oceanography
Journal of Marine Research
National Academy of Science
Journal of Geophysical Research - Oceans
Physics of Fluids
Dynamics of Atmosphere and Oceans (Guest editor for special issue)
Journal of Computational Physics
Deep-Sea Research
Oceanologica Acta
Progress in Oceanography
Geophysical Research Letters
Ocean Modelling
Journal of Atmosphere and Oceanic Technology
Marine Geodesy
Journal of Marine Sciences
Journal of Climate

BOOKS or MONOGRAPHS

- 2018 Chassignet, E.P., A. Pascual, J. Tintoré, and J. Verron (Eds.), 2018. *New Frontiers in Operational Oceanography*. GODAE OceanView, 811 pp, doi:10.17125/gov2018.
- 2017 Chassignet, E.P., J.W. Jones, V. Misra, and J. Obeysekera (Eds.), 2017. *Florida's Climate*. Florida Climate Institute, 622 pp, doi:10.17125/fci2017.
- 2016 National Academies of Sciences, Engineering, and Medicine. 2016. *Next Generation Earth System Prediction: Strategies for Subseasonal to Seasonal Forecasts*. Washington, DC: The National Academies Press, 290 pp, doi:10.17226/21873.
- 2012 Chassignet, E.P., C. Cenedese, and J. Verron (Eds.), 2012: *Buoyancy-Driven Flows*, Cambridge University Press, 436 pp.
- 2006 Chassignet, E.P., and J. Verron (Eds.), 2006: *Ocean Weather Forecasting: An Integrated View of Oceanography*, Springer, 577 pp.
- 2000 Chassignet, E.P., and P. Malanotte-Rizzoli (Eds.), 2000: *Ocean Circulation Model Evaluation Experiments for the North Atlantic Basin*. Special issue of *Dyn. Atmos. Oceans.*, Elsevier Science Ltd., **32**, 155-432
- 1998 Chassignet, E.P., and J. Verron (Eds.), 1998: *Ocean Modeling and Parameterization*. Kluwer Academic Publishers, 451 pp.

JURIED or REFERRED PUBLICATIONS (~160 publications)

- 2019 Clark, M.T., N. Heath, M.A. Bourassa, and E.P. Chassignet, 2018. Quantification of Stokes drift as a mechanism for surface oil advection in the Gulf of Mexico. *J. Geophys. Res.*, revised.
- 2019 Dukhovskoy, D.S., P.G. Myers, G. Platov, M.-L. Timmermans, A. Proshutinsky, I. Yashayaev, A. Proshutinsky, J. L. Bamber, I. L. Bashmachnikov, E.P. Chassignet, C.M. Lee, and A.J. Tedstone, 2018. Greenland freshwater flux anomaly as a possible driver of the recent freshening in the Subpolar North Atlantic. *J. Geophys. Res.*, in press.
- 2019 Ali, A., K.H. Christensen, O. Breikvik, M. Malila, R.P. Raj, L. Bertino, E.P. Chassignet, and M. Bakhoday-Paskyabi, 2018. A comparison of Langmuir turbulence parameterizations and key wave effects in a numerical model of the North Atlantic and Arctic Oceans. *Ocean Modelling*, in press.
- 2019 Chassignet, E.P., J. Le Sommer and A.J. Wallcraft, 2019. General circulation models. *Encyclopedia of Ocean Sciences (3rd edition)*, 5, 486-490, doi:10.1016/B978-0-12-409548-9.11410-1.
- 2019 Fox-Kemper, B., A. Adcroft, C.W. Böning, E.P. Chassignet, E. Curchitser, G. Danabasoglu, C. Eden, M.H. England, R. Gerdes, R.J. Greatbatch, S.M. Griffies, R. Hallberg, E. Hanert, P. Heimbach, H.T. Hewitt, C.N. Hill, Y. Komuro, S. Legg, J. Le Sommer, S. Masina, S.J. Marsland, S.G. Penny, F. Qiao, T.D. Ringler, A.M. Treguier, H. Tsujino, P. Uotila, and S.G. Yeager, 2018. Challenges and prospects in ocean circulation models. *Front. Mar. Sci.*, 6:65, doi:10.3389/fmars.2019.00065.
- 2019 LaCasce, J., J. Escartin, E.P. Chassignet, and X. Xu, 2019. Instability over topography. *J. Phys. Oceanogr.*, 49, 585-604, doi:10.1175/JPO-D-18-0129.1.
- 2018 Xu, X., E.P. Chassignet, and F. Wang, 2018. On the variability of the Atlantic meridional overturning circulation transports in coupled CMIP5 simulations. *Clim. Dyn.*, doi:10.1007/s00382-018-4529-0.
- 2018 Ye, L., A.J. Manning, T.-J. Hsu, S. Morey, E.P. Chassignet, and T. Ippolito, 2018. Novel application of laboratory instrumentation characterizes mass settling dynamics of oil-mineral aggregates (OMAs) and oil-mineral-microbial interactions. *Mar. Technol. Soc. J.*, **52**(6), 87-90, doi:10.4031/MTSJ.52.6.14.
- 2018 Xu, X., P.B. Rhines, and E.P. Chassignet, 2018. On mapping the diapycnal water mass transformation of the North Atlantic Ocean. *J. Phys. Oceanogr.*, **48**, 2233-2258, doi:10.1175/JPO-D-17-0223.1.
- 2018 Xu, X., A. Bower, H. Furey, and E.P. Chassignet, 2018. Variability of the Iceland-Scotland overflow water transport through the Charlie-Gibbs Fracture Zone: Results from an eddy simulation and observations. *J. Geophys. Res.*, **123**, 5808-5823, doi:10.1029/2018JC013895.
- 2018 Guerra, L.A.A., A.M. Paiva, and E.P. Chassignet, 2018. On the translation of Agulhas rings to the western South Atlantic Ocean. *Deep-Sea Res. I*, **139**, 104-113, doi:10.1016/j.dsr.2018.08.005.
- 2018 Tsujino H., S. Urakawa, H. Nakano, R.J. Small, W.M. Kim, S.G. Yeager, G. Danabasoglu, T. Suzuki, J.L. Bamber, M. Bentsen, C. Böning, A. Bozec, E.P. Chassignet, E. Curchitser, F. Boeira Dias, P.J. Durack, S.M. Griffies, Y. Harada, M. Ilıcak, S.A. Josey, C. Kobayashi, S. Kobayashi, Y. Komuro, W.G. Large, J. Le Sommer, S.J. Marsland, S. Masina, M. Scheinert, H. Tomita, M. Valdivieso, and D. Yamazaki, 2018. JRA-55 based surface dataset for driving ocean-sea-ice models (JRA55-do). *Ocean Modelling*, 130, 79-139, doi:10.1016/j.ocemod.2018.07.002.
- 2018 Chassignet, E.P., A. Pascual, J. Tintoré, and J. Verron (Eds.), 2018. *New Frontiers in Operational Oceanography*. GODAE OceanView, 811 pp, doi:10.17125/gov2018
- 2018 Le Sommer, J., E.P. Chassignet, and A.J. Wallcraft, 2018. Ocean circulation modeling for operational oceanography: Current status and future challenges. In "New Frontiers in Operational

- Oceanography", E. Chassignet, A. Pascual, J. Tintoré, and J. Verron (Eds), GODAE OceanView, 289-306, doi:10.17125/gov2018.ch12.
- 2018 Robinson, W., S. Speich, and E.P. Chassignet, 2018. Exploring the interplay between ocean eddies and the atmosphere. *EOS*, **99**, doi:10.1029/2018EO100609.
- 2018 Zeng, L., E.P. Chassignet, R.W. Schmitt, X. Xu, and D. Wang, 2018. Salinification in the South China Sea since late 2012: a reversal of the freshening since 1990s. *Geophys. Res. Lett.*, **45**, 2744–2751, doi:10.1002/2017GL076574
- 2018 Van Sebille, E., S.M. Griffies, R. Abernathey, T.P. Adams, P. Berloff, A. Biastoch, B. Blanke, E.P. Chassignet, Y. Cheng, C.J. Cotter, E. Deleersnijder, K. Döös, H. Drake, S. Drijfhout, S.F. Gary, A.W. Heemink, J. Kjellsson, I.M. Koszalka, M. Lange, C. Lique, G.A. MacGilchrist, R. Marsh, G.C. Mayorga Adame, R. McAdam, F. Nencioli, C.B. Paris, M.D. Piggott, J.A. Polton, S. Rühls, S.H. Shah, M.D. Thomas, J. Wang, P.J. Wolfram, L. Zanna, and J.D. Zika, 2018. Lagrangian ocean analysis: Fundamentals and practices. *Ocean Modelling*, **121**, 49-75, doi:10.1016/j.ocemod.2017.11.008.
- 2017 Chassignet, E.P., J.W. Jones, V. Misra, and J. Obeysekera (Eds.), 2017. *Florida's Climate: Changes, Variations, and Impacts*. Florida Climate Institute, 622 pp, doi:10.17125/fci2017
- 2017 Hewitt, H.T., M.J. Bell, E.P. Chassignet, A. Czaja, D. Ferreira, S.M. Griffies, P. Hyder, J. McClean, A.L. New, and M.J. Roberts, 2017. Will high-resolution global ocean models benefit coupled predictions on short-range to climate timescales? *Ocean Modelling*, **120**, 120-136, doi:10.1016/j.ocemod.2017.11.002.
- 2017 MacKinnon, J.A., M.H. Alford, J.K. Ansong, B.K. Arbic, A. Barna, B.P. Briegleb, F.O. Bryan, M.C. Buijsman, E.P. Chassignet, S. Diggs, P. Gent, S.M. Griffies, R.W. Hallberg, S.R. Jayne, M. Jochum, J.M. Klymak, E. Kunze, W.G. Large, S. Legg, B. Mater, A.V. Melet, L.M. Merchant, R. Musgrave, J.D. Nash, N.J. Norton, A. Pickering, R. Pinkel, K. Polzin, H.L. Simmons, L.C. St. Laurent, O.M. Sun, D.S. Trossman, A.F. Waterhouse, C.B. Whalen, and Z. Zhao, 2017. Climate process team on internal-wave driven ocean mixing. *Bull. Amer. Met. Soc.*, **98:11**, 2429-2454, doi:10.1175/BAMS-D-16-0030.1.
- 2017 Treguier, A.M., E.P. Chassignet, A. Le Boyer, and N. Pinardi, 2017. Modeling and forecasting the "weather of the ocean" at the mesoscale. In "THE SEA: THE SCIENCE OF OCEAN PREDICTION", *J. Mar. Res.*, **75**, 301-329, doi:10.1357/002224017821836842.
- 2017 Chassignet, E.P. and X. Xu, 2017. Impact of horizontal resolution (1/12° to 1/50°) on Gulf Stream separation, penetration, and variability. *J. Phys. Oceanogr.*, **47**, 1999-2021, doi:10.1175/JPO-D-17-0031.1.
- 2017 Trossman, D.S., B.K. Arbic, D.N. Straub, J.G. Richman, E.P. Chassignet, A.J. Wallcraft, and X. Xu, 2017. The role of rough topography in mediating impacts of bottom drag in eddying ocean circulation models. *J. Phys. Oceanogr.*, **47**, 1941-1959, doi:10.1175/JPO-D-16-0229.1.
- 2017 Deremble, B., W.K. Dewar, and E.P. Chassignet, 2017. Vorticity dynamics near sharp topographic features. *J. Mar. Res.*, **74**, 249-276, doi:10.1357/002224016821744142..
- 2016 Hiester, H.R., S.L. Morey, D.S. Dukhovskoy, E.P. Chassignet, V.H. Kourafalou, and C. Hu, 2016. A topological approach for quantitative comparisons of ocean model fields to satellite ocean color data. *Method. Oceanogr.*, **17**, 232-250, doi:10.1016/j.mio.2016.09.005.
- 2016 Rosburg, K.C., K.A. Donohue, and E.P. Chassignet, 2016. Three-dimensional model-observation intercomparison in the Loop Current region. *Dyn. Atmos. Oceans*, **76**, 283-305, doi:10.1016/j.dynatmoce.2016.05.001.
- 2016 Xu, X., P.B. Rhines, and E.P. Chassignet, 2016. Temperature-salinity structure of the North Atlantic circulation and associated heat and freshwater transports. *J. Climate*, **29**, 7723-7741, doi:10.1175/JCLI-D-15-0798.1.
- 2016 Griffies, S., G. Danabasoglu, P. Durack, A. Alistair, C. Böning, E.P. Chassignet, E. Curchitser, J. Deshayes, H. Drange, B. Fox-Kemper, P. Gleckler, J. Gregory, H. Haak, R. Hallberg, H. Hewitt,

- D. Holland, T. Ilyina, Y. Komuro, J. Krasting, W. Large, S. Marsland, S. Masina, T. McDougall, J. Orr, A. Pirani, F. Qiao, R. Stouffer, K. Taylor, H. Tsujino, P. Uotila, M. Valdivieso, M. Winton, S. Yeager, V. Balaji, J. Jungclaus, A.M. Treguier, and A.J.G. Nurser, 2016. OMIP contribution to CMIP6: Experimental and diagnostic protocol for the physical component of the Ocean Model Intercomparison Project. *Geosci. Model Dev.*, **9**, 3231-3296, doi:10.5194/gmd-2016-77.
- 2016 Özgökmen, T.M., E.P. Chassignet, C. Dawson, D. Dukhovskoy, G. Jacobs, J. Ledwell, O. Garcia-Pinada, I. MacDonald, S.L. Morey, M. Olascoaga, A.C. Poje, M. Reed, and J. Skancke, 2016. Over what area did the oil and gas spread during the 2010 Deepwater Horizon oil spill? *Oceanography*, **29**(3), 96–107, doi:10.5670/oceanog.2016.74.
- 2016 Tseng, Y., H. Lin, H. Chen, K. Thomspson, M. Bentsen, C. Böning, A. Bozec, C. Cassou, E.P. Chassignet, C.H. Chow, G. Danabasoglu, S. Danilov, R. Farneti, P.G. Fogli, Y. Fujii, S.M. Griffies, M. Illicak, T. Jung, S. Masina, A. Navarra, L. Patara, B.L. Samuels, M. Scheinert, D. Sidorenko, C.-H. Sui, H. Tsujino, S. Valcke, A. Voltaire, and Q. Wang, 2016. North and Equatorial Pacific Ocean circulation in the CORE-II hindcast simulations. *Ocean Modelling*, **104**, 143-170, doi:10.1016/j.ocemod.2016.06.003.
- 2016 Gonçalves, R.C., M. Iskandarani, A. Srinivasan, W.C. Thacker, E.P. Chassignet, and O.M. Knio, 2016. A framework to quantify uncertainty in simulations of oil transport in the ocean. *J. Geophys. Res.*, **121**, 2058-2077, doi:10.1002/2015JC011311.
- 2016 Wang Q., M. Illicak, R. Gerdes, H. Drange, Y. Aksenov, D. Bailey, M. Bentsen, A. Biastoch, A. Bozec, C. Böning, C. Cassou, E.P. Chassignet, A.C. Coward, B. Curry, G. Danabasoglu, S. Danilov, E. Fernandez, P.G. Fogli, Y. Fujii, S.M. Griffies, D. Iovino, A. Jahn, T. Jung, W.G. Large, C. Lee, C. Lique, J. Lu, S. Masina, A.J.G. Nurser, C. Roth, D. Salas y Melia, B.L. Samuels, P. Spence, H. Tsujino, S. Valcke, A. Voltaire, X. Wang, and S.G. Yeager, 2016. An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part I: Sea ice and solid freshwater. *Ocean Modelling*, **99**, 110-132, doi:10.1016/j.ocemod.2015.12.008.
- 2016 Wang Q., M. Illicak, R. Gerdes, H. Drange, Y. Aksenov, D. Bailey, M. Bentsen, A. Biastoch, A. Bozec, C. Böning, C. Cassou, E.P. Chassignet, A.C. Coward, B. Curry, G. Danabasoglu, S. Danilov, E. Fernandez, P.G. Fogli, Y. Fujii, S.M. Griffies, D. Iovino, A. Jahn, T. Jung, W.G. Large, C. Lee, C. Lique, J. Lu, S. Masina, A.J.G. Nurser, C. Roth, D. Salas y Melia, B.L. Samuels, P. Spence, H. Tsujino, S. Valcke, A. Voltaire, X. Wang, and S.G. Yeager, 2016. An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part II: Liquid freshwater. *Ocean Modelling*, **99**, 86-109, doi:10.1016/j.ocemod.2015.12.009.
- 2016 Illicak, M., H. Drange, Q. Wang, R. Gerdes, Y. Aksenov, D. Bailey, M. Bentsen, A. Biastoch, A. Bozec, C. Böning, C. Cassou, E.P. Chassignet, A.C. Coward, B. Curry, G. Danabasoglu, S. Danilov, E. Fernandez, P.G. Fogli, Y. Fujii, S.M. Griffies, D. Iovino, A. Jahn, T. Jung, W.G. Large, C. Lee, C. Lique, J. Lu, S. Masina, A.J.G. Nurser, C. Roth, D. Salas y Melia, B.L. Samuels, P. Spence, H. Tsujino, S. Valcke, A. Voltaire, X. Wang, and S.G. Yeager, 2016. An assessment of the Arctic Ocean in a suite of interannual CORE-II simulations. Part III: Hydrography and fluxes. *Ocean Modelling*, **100**, 121-141, doi:10.1016/j.ocemod.2016.02.004.
- 2016 Dukhovskoy, D.S., P.G. Myers, G. Platov, M.-L. Timmermans, A. Proshutinsky, B. Curry, J.L. Bamber, E.P. Chassignet, X. Hu, C.M. Lee, and R. Somavilla, 2016. Greenland freshwater pathways in the sub-Arctic Seas from model experiments with passive tracers. *J. Geophys. Res.*, **121**, 877-907, doi:10.1002/2015JC011290.
- 2015 Danabasoglu, G., S.G. Yeager, W.M. Kim, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, R. Bleck, C. Böning, A. Bozec, V.M. Canuto, C. Cassou, E.P. Chassignet, A.C. Coward, S. Danilov, N. Diansky, H. Drange, R. Farneti, E. Fernandez, P.G. Fogli, G. Forget, Y. Fujii, S.M. Griffies, A. Gusev, P. Heimbach, A. Howard, T. Jung, M. Kelley, W.G. Large, A. Leboissetier, J. Lu, G. Madec, S.J. Marsland, S. Masina, A. Navarra, A.J.G. Nurser, A. Pirani, A. Romanou, D. Salas y Melia, B.L. Samuels, M. Scheinert, D. Sidorenko, S. Sun, A.-M. Treguier, H. Tsujino, P. Uotila, S. Valcke, A. Voltaire, and Q. Wang, 2015. North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part II: Inter-Annual to Decadal Variability. *Ocean Modelling*, **97**, 65-90, doi:10.1016/j.ocemod.2015.11.007.

- 2015 Xu, X., P.B. Rhines, E.P. Chassignet, and W.J. Schmitz Jr., 2015. Spreading of Denmark Strait overflow water in the western subpolar North Atlantic: Insights from eddy-resolving simulations with a passive tracer. *J. Phys. Oceanogr.*, **45**, 2913-2932, doi:10.1175/JPO-D-14-017.
- 2015 Brassington, G.B., M.J. Martin, H.L. Tolman, S. Akella, M. Balmaseda, C.R.S. Chambers, E.P. Chassignet, J.A. Cummings, Y. Drillet, P.A.E.M. Janssen, P. Laloyaux, D. Lea, A. Mehra, I. Mirouze, H. Ritchie, G. Samson, P.A. Sandery, G.C. Smith, M. Suarez, and R. Todling, 2015. Progress and challenges in short- to medium-range coupled prediction. *J. Oper. Oceanogr.*, **8**:sup2, s239-s258, doi:10.1080/1755876X.2015.104987.
- 2015 Downes, S.M, R. Farneti, P. Uotila, S.M. Griffies, S.J. Marsland, D. Bailey, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. Böning, A. Bozec, V.M. Canuto, E.P. Chassignet, G. Danabasoglu, S. Danilov, N. Diansky, H. Drange, P.G. Fogli, A. Gusev, A. Howard, M. Ilicak, T. Jung, M. Kelley, W.G. Large, A. Leboissetier, M. Long, J. Lu, S. Masina, A. Mishra, A. Navarra, A.J.G. Nurser, L. Patara, B.L. Samuels, D. Sidorenko, P. Spence, H. Tsujino, Q. Wang, and S.G. Yeager, 2015. An assessment of Southern Ocean water masses and sea ice during 1988-2007 in a suite of inter-annual CORE-II simulations. *Ocean Modelling*, **94**, 67-94, doi:10.1016/j.ocemod.2015.07.022.
- 2015 Farneti R., S.M. Downes, S.M. Griffies, S.J. Marsland, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. Böning, A. Bozec, V.M. Canuto, E.P. Chassignet, G. Danabasoglu, S. Danilov, N. Diansky, H. Drange, P.G. Fogli, A. Gusev, R.W. Hallberg, A. Howard, M. Ilicak, T. Jung, M. Kelley, W.G. Large, A. Leboissetier, M. Long, J. Lu, S. Masina, A. Mishra, A. Navarra, A.J.G. Nurser, L. Patara, B.L. Samuels, D. Sidorenko, H. Tsujino, P. Uotila, Q. Wang, and S.G. Yeager, 2015. An assessment of Antarctic Circumpolar Current and Southern Ocean Meridional Overturning Circulation during 1958-2007 in a suite of inter-annual CORE-II simulations. *Ocean Modelling*, **93**, 84-120, doi:10.1016/j.ocemod.2015.07.009.
- 2015 Dukhovskoy, D.S., R.R. Leben, E.P. Chassignet, C. Hall, S.L. Morey and R. Nedbor-Gross, 2015. Characterization of the uncertainty in the Gulf of Mexico loop current description using a multidecadal numerical simulation and altimeter observations. *Deep-Sea Res. I*, **100**, 140-158, doi:10.1016/j.dsr.2015.01.005.
- 2015 Nguyen, T.T., S.L. Morey, D.S. Dukhovskoy, and E.P. Chassignet, 2015. Non-local impacts of the Loop Current on cross-slope near-bottom flow in the northeastern Gulf of Mexico. *Geophys. Res. Lett.*, **42**, doi:10.1002/2015GL063304.
- 2015 Jones, C.S., C. Cenedese, E.P. Chassignet, P.F. Linden, and B.R. Sutherland, 2015. Gravity current propagation up a valley. *J. Fluid Mech.*, **762**, 417-434, doi:10.1017/jfm.2014.627.
- 2014 Todd, A.C., S.L. Morey, and E.P. Chassignet, 2015. Circulation dynamics and cross-shelf transport mechanisms in the Florida Big Bend, *J. Mar. Res.*, **72**, 445-475.
- 2014 Arruda, W., V. Zharkov, B. Deremble, D. Nof, and E.P. Chassignet, 2014. A new model of current retroflection applied to the westward protrusion of the Agulhas. *J. Phys. Oceanogr.*, **44**, 3118-3138.
- 2014 Wu, Z., E.P. Chassignet, F. Ji, and J. Huang, 2014. Reply to 'Spatiotemporal patterns of warming'. *Nature Climate Change*, **4**, 846-848, doi:10.1038/nclimate2374.
- 2014 Zavala-Romero, O., A. Ahmed, E.P. Chassignet, J. Zavala-Hidalgo, A.F. Eguiarte, and A. Meyer-Baese, 2014. OWGIS: An Open Source Java web application to build self-contained WebGIS sites. *Environ. Model. Softw.*, **62**, 210-220, doi:10.1016/j.envsoft.2014.08.029.
- 2014 Nedbor-Gross, R., D.S. Dukhovskoy, M.A. Bourassa, S.L. Morey, and E.P. Chassignet, 2014. Investigation of the relationship between the Yucatan Channel transport and the Loop Current area in a multi-decadal numerical simulation. *Mar. Technol. Soc. J.*, **48**(4), 15-26, doi:10.4031/MTSJ.48.4.8.
- 2014 Coleman, F.C., J.P. Chanton, and E.P. Chassignet, 2014. Ecological Connectivity in Northeastern Gulf of Mexico - The Deep-C Initiative. *International Oil Spill Conference Proceedings: May 2014*, **2014**(1), 1972-1984, doi: <http://dx.doi.org/10.7901/2169-3358-2014.1.1972>.

- 2014 Xu, X., E.P. Chassignet, W.E. Johns, W.J. Schmitz Jr., and E.J. Metzger, 2014. Intraseasonal to interannual variability of the Atlantic meridional overturning circulation from eddy-resolving simulations and observations. *J. Geophys. Res.*, **119**, doi:10.1002/2014JC009994.
- 2014 Chassignet, E.P., X. Xu, and G. Danabasoglu, 2014. Overflow parameterisations in climate models. *CLIVAR Exchanges*, **19**(2), 34-37.
- 2014 Arbic, B.K., M.C. Buijsman, E.P. Chassignet, S.T. Garner, S.R. Jayne, E.J. Metzger, J.G. Richman, J.F. Shriver, P.G. Timko, D.S. Trossman, and A.J. Wallcraft, 2014. Inserting tides and topographic wave drag into high-resolution eddy simulations. *CLIVAR Exchanges*, **19**(2), 30-33.
- 2014 Chassignet, E.P., J.G. Richman, E.J. Metzger, X. Xu, P.G. Hogan, B.K. Arbic, and A.J. Wallcraft, 2014. HYCOM high-resolution eddy simulations. *CLIVAR Exchanges*, **19**(2), 22-25.
- 2014 Ji, F., Z. Wu, J. Huang, and E.P. Chassignet, 2014. Evolution of land surface air temperature trend. *Nature Climate Change*, doi:10.1038/nclimate2223.
- 2014 Griffies, S.M., J. Yin, P.J. Durack, P. Goddard, S.C. Bates, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. Böning, A. Bozec, E.P. Chassignet, G. Danabasoglu, S. Danilov, C. Domingues, H. Drange, R. Farneti, E. Fernandez, R.J. Greatbatch, D.M. Holland, M. Ilicak, J. Lu, S.J. Marsland, A. Mishra, K. Lorbacher, A.J.G. Nurser, D. Salas y Mélia, J.B. Palter, B.L. Samuels, J. Schröter, F.U. Schwarzkopf, D. Sidorenko, A.-M. Treguier, Y. Tseng, H. Tsujino, P. Uotila, S. Valcke, A. Aureore, Q. Wang, M. Winton, and X. Zhang, 2014. An assessment of global and regional sea level for years 1993-2007 in a suite of interannual CORE-II simulations. *Ocean Modelling*, **78**, 35-89, doi:10.1016/j.ocemod.2014.03.004.
- 2014 Danabasoglu, G., S.G. Yeager, D. Bailey, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. Böning, A. Bozec, V.M. Canuto, C. Cassou, E.P. Chassignet, A.C. Coward, S. Danilov, N. Diansky, H. Drange, R. Farneti, E. Fernandez, P.G. Fogli, G. Forget, Y. Fujii, S.M. Griffies, A. Gusev, P. Heimbach, A. Howard, T. Jung, M. Kelley, W.G. Large, A. Leboissetier, J. Lu, G. Madec, S.J. Marsland, S. Masina, A. Navarra, A.J.G. Nurser, A. Pirani, D. Salas y Mélia, B.L. Samuels, M. Scheinert, D. Sidorenko, A.-M. Treguier, H. Tsujino, P. Uotila, S. Valcke, A. Voldoire, Q. Wang, 2013. North Atlantic simulations in Coordinated Ocean-ice Reference Experiments phase II (CORE-II). Part I: Mean states. *Ocean Modelling*, **73**, 76-107, doi:10.1016/j.ocemod.2013.10.005.
- 2013 Yan, Y., E.P. Chassignet, Y. Qi, and W.K. Dewar, 2013. Freshening of subsurface waters in the Northwest Pacific subtropical gyres: Observations and dynamics. *J. Phys. Oceanogr.*, **43**, 2733-2751, doi:10.1175/JPO-D-13-03.1.
- 2013 Griffies, S.M., J. Yin, S.C. Bates, E. Behrens, M. Bentsen, D. Bi, A. Biastoch, C. Böning, A. Bozec, C. Cassou, E.P. Chassignet, G. Danabasoglu, S. Danilov, C. Domingues, H. Drange, P.J. Durack, R. Farneti, E. Fernandez, P. Goddard, R.J. Greatbatch, M. Ilicak, J. Lu, S.J. Marsland, A. Mishra, K. Lorbacher, A.J.G. Nurser, D. Salas y Mélia, J.B. Palter, B. L. Samuels, J. Schroter, F.U. Schwarzkopf, D. Sidorenko, A.-M. Treguier, Y. Tseng, H. Tsujino, P. Uotila, S. Valcke, A. Voldoire, Q. Wang, M. Winton, and X. Zhang, 2013. An assessment of global and regional sea level in a suite of interannual CORE-II simulations: a synopsis. *CLIVAR Exchanges*, **18**, No.2, 11-15.
- 2013 Michael, J.-P., V. Misra, E.P. Chassignet, 2013: The El Niño Southern Oscillation in the historical centennial integrations of the new generation of climate models. *Reg. Environ. Change*, **13**, (Suppl. 1) S121-S130, doi:10.1007/s10113-013-0452-4.
- 2012 Winterbottom, H.R., E.W. Uhlhorn and E.P. Chassignet, 2012. A design and an application of a regional coupled atmosphere-ocean model for tropical cyclone prediction. *J. Adv. Model. Earth Syst.*, **4**, M10002, doi:10.1029/2012MS000172.
- 2012 Misra, V., J.-P. Michael, R. Boyles, E.P. Chassignet, M. Griffin, and J.J. O'Brien, 2012. Reconciling temperature trends in the Southeast United States. *J. Climate*, doi:10.1175/JCLI-D-11-00170.1.

- 2012 Chassignet, E.P., C. Cenedese, and J. Verron (Eds.), 2012. Buoyancy-Driven Flows. Cambridge University Press, 436 pp.
- 2011 Nof, D., V. Zharkov, J. Ortiz, N. Paldor, W. Arruda, and E.P. Chassignet, 2011. The arrested Agulhas retroflection. *J. Mar. Res.*, 69(4-6), 659-691, doi:10.1357/002224011799849453.
- 2011 Winterbottom, H.R., and E.P. Chassignet, 2011. A vortex isolation and removal algorithm for numerical weather prediction model tropical cyclone applications. *J. Adv. Model. Earth Syst.*, 3, M11003, 8 pp, doi:10.1029/2011MS000088.
- 2011 Jia, Y., P.H.R. Calil, E.P. Chassignet, E.J. Metzger, J.T. Potemra, K.J. Richards, and A.J. Wallcraft, 2011. Generation of mesoscale eddies in the lee of the Hawaiian Islands. *J. Geophys. Res.*, **116**, C11009, doi:10.1029/2011JC007305.
- 2011 Bozec, A., M.S. Lozier, E.P. Chassignet, and G.R. Halliwell, 2011. On the variability of the Mediterranean Outflow Water in the Atlantic Ocean from 1948 to 2006. *J. Geophys. Res.*, **116**, C09033, doi:10.1029/2011JC007191.
- 2011 Nof, D., Y. Jia, E.P. Chassignet, and A. Bozec, 2011. Fast wind-induced migration of Leddies in the South China Sea. *J. Phys. Oceanogr.*, **41**, doi: 10.1175/2011JPO4530.1, 1683-1693.
- 2011 Jia, Y., and E.P. Chassignet, 2011. Seasonal variation of eddy shedding from the Kuroshio intrusion in the Luzon Strait. *J. Oceanogr.*, **67**(5), doi:10.1007/s10872-011-0060-1, 601-611.
- 2011 Ren, L., K. Speer, and E.P. Chassignet, 2011. The mixed layer salinity budget and sea ice in the Southern Ocean. *J. Geophys. Res.*, **116**, C08031, doi:10.1029/2010JC006634.
- 2011 Hurlburt, H.E., E.J. Metzger, J.G. Richman, E.P. Chassignet, Y. Drillet, M.W. Hecht, O. Le Galloudec, J.F. Shriver, X. Xu, and L. Zamudio, 2011. Dynamical evaluation of ocean models using the Gulf Stream as an example. In "*Operational Oceanography in the 21st Century*", A. Schiller and G. Brassington, Eds., Springer, 545-610.
- 2011 Chassignet, E.P., 2011. Isopycnic and hybrid ocean modeling in the context of GODAE. In "*Operational Oceanography in the 21st Century*", A. Schiller and G. Brassington, Eds., Springer, 263-294.
- 2011 Srinivasan, A., E.P. Chassignet, L. Bertino, J.M. Brankart, P. Brasseur, T.M. Chin, F. Counillon, J.A. Cummings, A.J. Mariano, O.M. Smedstad, and W.C. Thacker, 2011. A comparison of sequential assimilation schemes for ocean prediction with the HYbrid Coordinate Ocean Model (HYCOM). Part I: Twin experiments. *Ocean Modelling*, **37**, doi:10.1016/j.ocemod.2011.01.006, 85-111.
- 2011 Stefanova, L., V. Misra, J.J. O'Brien, E.P. Chassignet, and S. Hameed, 2011. Hindcast skill and predictability for precipitation and two-meter air temperature anomalies in global circulation models over the Southeast United States. *Climate Dynamics*, doi:10.1007/s00382-010-0988-7.
- 2010 Xu, X., W.J. Schmitz Jr., H.E. Hurlburt, P.J. Hogan, and E.P. Chassignet, 2010. Transport of Nordic Seas overflow water into and within the Irminger Sea: An eddy-resolving simulations and observations. *J. Geophys. Res.*, **115**, C12048, doi:10.1029/2010JC006351.
- 2010 Scott, R.B., B.K. Arbic,, E.P. Chassignet, A.C. Coward, M. Maltrud, A. Srinivasan, and A. Varghese, 2010. Total kinetic energy in four global eddying ocean circulation models and over 5000 current meter records. *Ocean Modelling*, **32**, doi:10.1016/j.ocemod.2010.01.005, 157-169.
- 2010 Goni, G., M. DeMaria, J. Knaff, C. Sampson, J. Price, A. Mehra, I. Ginis, I.-I. Lin, P. Sandery, S. Ramos-Buarque, M.M. Ali, F. Bringas, S. Aberson R. Lumpkin, G. Halliwell, C. Lauer, E.P. Chassignet, A. Mavume, and K. Kang, 2010. The ocean observing system for tropical cyclone intensification forecasts and studies. In "*Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2)*", Venice, Italy, 21-25 September 2009, ESA Publication WPP-306.
- 2010 Griffies, S.M., A.J. Adcroft, H. Banks, C.W. Boening, E.P. Chassignet, G. Danabasoglu, S. Danilov, E. Deleersnijder, H. Drange, M. England, B. Fox-Kemper, R. Gerdes, A. Gnanadesikan,

- R.J. Greatbatch, R.W. Hallberg, E. Hanert, M.J. Harrison, S. Legg, C.M. Little, G. Madec, S.J. Marsland, M. Nikurashin, A. Pirani, H.L. Simmons, J. Schroter, B.L. Samuels, A.-M. Treguier, J.R. Toggweiler, H. Tsujino, G.K. Vallis, and L. White, 2010. Problems and prospects in large-scale ocean circulation models. In "*Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2)*", Venice, Italy, 21-25 September 2009, ESA Publication WPP-306.
- 2009 Goni, G., M. DeMaria, J. Knaff, C. Sampson, I. Ginis, F. Bringas, A. Mavume, C. Lauer, I.-I. Lin, P. Sandery, S. Ramos-Buarque, K. Kang, A. Mehra, E.P. Chassignet, and G. Halliwell, 2009: Applications of satellite-derived ocean measurements to tropical cyclone intensity forecasting. *Oceanography*, **22**(3), 190-197.
- 2009 Hernandez, F., L. Bertino, G.B. Brassington, E.P. Chassignet, J. Cummings, F. Davidson, M. Drevillon, G. Garric, M. Kamachi, J.-M. Lellouche, R. Mahdon, M.J. Martin, A. Ratsimandresy, and C. Regnier, 2009. Validation and intercomparison studies within GODAE. *Oceanography*, **22**(3), 128-143.
- 2009 Hurlburt, H.E., G.B. Brassington, Y. Drillet, M. Kamachi, M. Benkiran, R. Bourdalle-Badie, E.P. Chassignet, O. LeGalloudec, J.-M. Lellouche, E.J. Metzger, P.R. Oke, T. Pugh, A. Schiller, O.M. Smedstad, B. Tranchant, H. Tsujino, N. Usui, and A.J. Wallcraft, 2009: High resolution global and basin-scale ocean analyses and forecasts. *Oceanography*, **22**(3), 110-127.
- 2009 Dombrowsky, E., L. Bertino, G.B. Brassington, E.P. Chassignet, F. Davidson, H.E. Hurlburt, M. Kamachi, T. Lee, M.J. Martin, S. Mei, and M. Tonani, 2009: GODAE systems in operation. *Oceanography*, **22**(3), 80-95.
- 2009 Metzger, E.J., H.E. Hurlburt, A.J. Wallcraft, O.M. Smedstad, J.A. Cummings, and E.P. Chassignet, 2009: Predicting "Ocean Weather" using the 1/12 degree global HYbrid Coordinate Ocean Model (HYCOM). HPCinsight, Fall 2009, 46-48.
- 2009 Misra, V., S. Chan, R. Wu, and E.P. Chassignet, 2009: Air-sea interaction over the Atlantic warm pool in the NCEP CFS. *Geophys. Res. Lett.*, **36**, L15702, doi:10.1029/2009GL038737.
- 2009 Legg, S., Y. Chang, E.P. Chassignet, G. Danabasoglu, T. Ezer, A.L. Gordon, S. Griffes, R. Hallberg, L. Jackson, W. Large, T. Özgökmen, H. Peters, J. Price, U. Riemenschneider, W. Wu, X. Xu, J. Yang, 2009: Improving oceanic overflow representation in climate models: the Gravity Current Entrainment Climate Process Team. *Bull. Amer. Met. Soc.*, **90**(4), 657-670, doi: 10.1175/2008BAMS2667.1.
- 2009 Cornillon, P., J. Adams, M.B. Blumenthal, E.P. Chassignet, E. Davis, S. Hankin, J. Kinter, R. Mendelssohn, J.T. Potemra, A. Srinivasan, and J. Sirott, 2009: NVO DS and the development of OPeNDAP - an integrative tool for oceanographic data systems. *Oceanography*, **22**(2), 116-127.
- 2009 Chassignet, E.P., H.E. Hurlburt, E.J. Metzger, O.M. Smedstad, J. 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), 64-75.
- 2009 Rousset, C., M.-N. Houssais, and E.P. Chassignet, 2009: A multi-model study of the restratification phase in an idealized convection basin. *Ocean Modelling*, **26**, 115-133, doi:10.1016/j.ocemod.2008.08.005.
- 2009 Griffies, S.M., S.M., A. Biastoch, C. Boening, F. Bryan, G. Danabasoglu, E.P. Chassignet, M.H. England, R. Gerdes, H. Haak, R.W. Hallberg, W. Hazeleger, J. Jungclaus, W.G. Large, G. Madec, A. Pirani, B.L. Samuels, M. Scheinert, A.S. Gupta, C.A. Severijns, H.L. Simmons, A.-M. Treguier, M. Winton, S. Yeager, and J. Yin, 2009: Coordinated Ocean-Ice Reference Experiments (COREs). *Ocean Modelling*, **26**, 1-46, doi:10.1016/j.ocemod.2008.08.007.
- 2008 Kara, A.B., E.J. Metzger, H.E. Hurlburt, A.J. Wallcraft, and E.P. Chassignet, 2008: Multistatistics metric evaluation of ocean general circulation model sea surface temperature: Application to 0.08° Pacific Hybrid Coordinate Ocean Model simulations. *J. Geophys. Res.*, **113**, C12018, doi:10.1029/2008JC004878.

- 2008 Magaldi, M., T.M. Özgökmen, A. Griffa, E.P. Chassignet, M. Iskandarani, and H. Peters, 2008: Turbulent flow regimes behind a coastal cape in a stratified and rotating environment. *Ocean Modelling*, **25**, pp. 65-82, doi:10.1016/j.ocemod.2008.06.006.
- 2008 LaRow, T.E., Y.-K. Lim, D.W. Shin, E.P. Chassignet, and S. Cocks, 2008: High resolution ensemble Atlantic basin seasonal hurricane simulations. *J. Climate*, **21**, 3191-3206.
- 2008 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.*, **74**, doi:10.1016/j.marsys.2008.01.009.
- 2008 Chassignet, E.P., and D.P. Marshall, 2008: Gulf Stream separation in numerical ocean models. In "Eddy-Resolving Ocean Modeling", M. Hecht and H. Hasumi, Eds., AGU Monograph Series, 39-62.
- 2008 Hurlburt H.E., E.P. Chassignet, J.A. Cummings, A.B. Kara, E.J. Metzger, J.F. Shriver, O.M. Smedstad, A.J. Wallcraft, and C.N. Barron, 2008: Eddy-resolving global ocean prediction. In "Eddy-Resolving Ocean Modeling", M. Hecht and H. Hasumi, Eds., AGU Monograph Series, 353-382.
- 2008 Kara, A.B., A.J. Wallcraft, P.J. Martin, and E.P. Chassignet, 2008: Performance of mixed layer models in simulating SST in the Equatorial Pacific Ocean. *J. Geophys. Res.*, **113**, C02020, doi:10.1029/2007JC004250.
- 2007 Lim, Y.-K., D.W. Shin, S. Cocks, T.E. LaRow, J.T. Schoof, J.J. O'Brien, and E.P. Chassignet, 2007: Dynamically and statistically downscaled forecasts of maximum surface air temperature over the southeast United States. *J. Geophys. Res.*, **112**, D24102, doi:10.1029/2007JD008764.
- 2007 Xu, X., E.P. Chassignet, J.F. Price, T.M. Özgökmen, and H. Peters, 2007: A regional modeling study of the entraining Mediterranean outflow. *J. Geophys. Res.*, **112**, C12005, doi:10.1029/2007JC004145.
- 2007 Aretxabaleta, A., B.O. Blanton, H.E. Seim, F.E. Werner, J.R. Nelson, and E.P. Chassignet, 2007: Cold event in the South Atlantic Bight during summer of 2003: Model simulations and implications. *J. Geophys. Res.*, **112**, C05022, doi:10.1029/2006JC003903.
- 2007 Chassignet, E.P., H.E. Hurlburt, O.M. Smedstad, G.R. Halliwell, P.J. Hogan, A.J. Wallcraft, R. Baraille, and R. Bleck, 2007: The HYCOM (HYbrid Coordinate Ocean Model) data assimilative system. *J. Mar. Sys.*, **65**, 60–83.
- 2006 Xu, X., Y.S. Chang, H. Peters, T.M. Özgökmen, and E.P. Chassignet, 2006: Parameterization of gravity current entrainment for ocean circulation models using a high-order 3D nonhydrostatic spectral element model. *Ocean Modelling*, **14**, 19-44.
- 2006 Cherubin, L.M., Y. Morel, and E.P. Chassignet, 2006: Loop Current ring shedding: The formation of cyclones and the effect of topography. *J. Phys. Oceanogr.*, **36**, 569–591.
- 2006 Peng, G., E.P. Chassignet, E.P., Y.O. Kwon, and S.C. Riser, 2006: Investigation of variability of the North Atlantic Subtropical Mode Water using profiling float data and numerical model output. *Ocean Modelling*, **13**, 65-85.
- 2006 Rothstein, L.M., J.J. Cullen, M. Abott, E.P. Chassignet, K. Denman, S. Doney, H. Ducklow, K. Fennel, M. Follows, D. Haidvogel, E. Hoffman, D. Karl, J. Kindle, I. Lima, M. Maltrud, C. McClain, D. McGillicuddy, J. Olascoaga, J. Vincent, and J. Yoder, 2006: Modeling ocean ecosystems - the PARADIGM program. *Oceanography*, **19**(1), 16-45.
- 2006 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. *Oceanography*, **19**(1), 20-31.
- 2006 Chassignet, E.P., and J. Verron (Eds.), 2006: *Ocean Weather Forecasting: An Integrated View of Oceanography*, Springer, 577 pp.

- 2006 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", E.P. Chassignet and J. Verron (Eds.), Springer, 413-426.
- 2005 Veneziani, M., A. Griffa, A.M. Reynolds, Z.D. Garraffo, and E.P. Chassignet, 2005: Parameterizations of Lagrangian spin statistics and particle dispersion in presence of coherent vortices. *J. Mar. Res.*, **63**, 1057-1083.
- 2005 Chassignet, E.P., H.E. Hurlburt, O.M. Smedstad, C.N. Barron, D.S. Ko, R.C. Rhodes, J.F. Shriver, A.J. Wallcraft, and R.A. Arnone, 2005: Assessment of ocean prediction systems in the Gulf of Mexico using ocean color. In "Circulation in the Gulf of Mexico: Observations and models", W. Sturges and A. Lugo-Fernandez, Eds., AGU Monograph Series, **161**, 87-100.
- 2005 Veneziani, M., A. Griffa, Z.D. Garraffo, and E.P. Chassignet, 2005: Lagrangian spin parameter and coherent structures from trajectories released in a high-resolution ocean model. *J. Mar. Res.*, **63**, 753-788.
- 2005 Chang, Y.S., X. Xu, T.M. Özgökmen, E.P. Chassignet, H. Peters, and P.F. Fisher, 2005: Comparison of gravity currents mixing parameterizations and calibration using a high-resolution 3D nonhydrostatic spectral element model. *Ocean Modelling*, **10**, 342-368.
- 2005 Treguier, A.M., S. Theetten, E.P. Chassignet, T. Penduff, R. Smith, L. Talley, J.O. Beisman, and C. Boening, 2005: Salinity distribution and circulation of the North Atlantic subpolar gyre in high resolution models. *J. Phys. Oceanogr.*, **35**, 757-774.
- 2005 Cherubin, L.M., W. Sturges, and E.P. Chassignet, 2005: Deep flow variability in the vicinity of the Yucatan Straits from a high-resolution MICOM simulation. *J. Geophys. Res.*, **110**, C04009, doi:10.1029/2004JC002280.
- 2005 Hurlburt, H.E., J.F. Shriver, O.M. Smedstad, A.J. Wallcraft, R.A. Arnone, C.N. Barron, E.P. Chassignet, P.M. Flynn, D.-S. Ko, R.C. Rhodes, and L.F. Smedstad, 2005: Comparing ocean prediction system skill using ocean color. *NRL Review*, 207-212.
- 2004 Nauw, J.J., H.A. Dijkstra, and E.P. Chassignet, 2004: Frictionally induced asymmetries in wind-driven flows. *J. Phys. Oceanogr.*, **34**, 2057-2072.
- 2004 Foltz, G.R., J.A. Carton, and E.P. Chassignet, 2004: Tropical instability vortices in the Atlantic Ocean. *J. Geophys. Res.*, **109**, C03029, doi:10.1029/2003JC001942.
- 2004 Romanou, A., E.P. Chassignet, and W. Sturges, 2004: The Gulf of Mexico circulation within a high resolution numerical simulation of the North Atlantic Ocean. *J. Geophys. Res.*, **109**, C01003, doi:10.1029/2003JC001770.
- 2003 Garraffo, Z.D., W.E. Johns, E.P. Chassignet, and G.J. Goni, 2003: North Brazil Current rings and transport of southern waters in a high resolution numerical simulation of the North Atlantic. In "Interhemispheric Water Exchange in the Atlantic ocean", G. Goni and P. Malanotte-Rizzoli (Eds.), Elsevier Oceanographic Series, 375-409.
- 2003 Chassignet, E.P., L.T. Smith, G.R. Halliwell, and R. Bleck, 2003: North Atlantic simulation with the HYbrid Coordinate Ocean Model (HYCOM): Impact of the vertical coordinate choice, reference density, and thermobaricity. *J. Phys. Oceanogr.*, **33**, 2504-2526.
- 2003 Bracco, A., E.P. Chassignet, Z.D. Garraffo, and A. Provenzale, 2003: Lagrangian velocity distributions in a high-resolution numerical simulation of the North Atlantic. *J. Oce. Atmos. Tech.*, **20**, 1212-1220.
- 2003 Papadakis, M., E.P. Chassignet, and R.W. Hallberg, 2003: Numerical simulations of the Mediterranean Sea outflow: Impact of the entrainment parameterization in an isopycnic coordinate ocean model. *Ocean Modelling*, **5**, 325-356.
- 2002 Visbeck, M., E.P. Chassignet, R. Curry, T. Delworth, R. Dickson, and G. Krahman, 2002: The ocean's response to North Atlantic Oscillation variability. In "The North Atlantic Oscillation:

- Climatic Significance and Environmental Impact*", J.W. Hurrell, Y. Kushnir, G. Ottersem, and M. Visbeck (Eds.), AGU Monograph Series, **134**, 113-145.
- 2002 Özgökmen, T.M., E.P. Chassignet, 2002: A numerical study of two-dimensional turbulent bottom gravity currents. *J. Phys. Oceanogr.*, **32**, 1460-1478.
- 2002 Paiva, A.M., and E.P. Chassignet, 2002: North Atlantic modeling of low-frequency variability in mode water formation. *J. Phys. Oceanogr.*, **32**, 2666-2680.
- 2002 Jacob, J.P., E.P. Chassignet, and W.K. Dewar, 2002: Influence of topography on the propagation of isolated eddies. *J. Phys. Oceanogr.*, **32**, 2848-2869.
- 2001 Özgökmen, T.M., E.P. Chassignet, and G.H. Rooth, 2001: On the connection between the Mediterranean outflow and the Azores Current. *J. Phys. Oceanogr.*, **31**, 461-480.
- 2001 Paiva, A.M., and E.P. Chassignet, 2001: The Impact of surface flux parameterizations on the modeling of the North Atlantic Ocean. *J. Phys. Oceanogr.*, **31**, 1860-1879.
- 2001 Garraffo, Z.D., A.J. Mariano, A. Griffa, C. Veneziani, and E.P. Chassignet, 2001: Lagrangian data in a high resolution numerical simulation of the North Atlantic. I: Comparison with *In-Situ* drifter data. *J. Mar. Sys.*, **29**, 157-176.
- 2001 Garraffo, Z.D., A. Griffa, A.J. Mariano, and E.P. Chassignet, 2001: Lagrangian data in a high resolution numerical simulation of the North Atlantic. II: On the pseudo-Eulerian averaging of Lagrangian data. *J. Mar. Sys.*, **29**, 177-200..
- 2001 Özgökmen, T.M., E.P. Chassignet, and C.G.H. Rooth, 2001: On the connection between the Mediterranean outflow and the Azores Current. *J. Phys. Oceanogr.*, **31**, 461-480.
- 2000 Griffies, S.M., C. Böning, F.O. Bryan, E.P. Chassignet, R. Gerdes, H. Hasumi, A. Hirst, A.-M. Treguier, and D. Webb, 2000: Developments in ocean climate modelling. *Ocean Modelling*, **2**, 461-480.
- 2000 Stammer, D., and E.P. Chassignet, 2000: Ocean state estimation and prediction in support of oceanographic research. *Oceanography*, **13**, 51-56.
- 2000 Chassignet, E.P., and P. Malanotte-Rizzoli (Eds.), 2000: *Ocean Circulation Model Evaluation Experiments for the North Atlantic Basin*. Special issue of *Dyn. Atmos. Oceans.*, Elsevier Science Ltd., **32**, 155-432
- 2000 Paiva, A.M., E.P. Chassignet, and A.J. Mariano, 2000: Numerical simulations of the North Atlantic Subtropical Gyre: Sensitivity to boundary conditions and horizontal resolution. *Dyn. Atmos. Oceans.*, **32**, 209-238.
- 2000 Chassignet, E.P., H. Arango, D. Dietrich, T. Ezer, M. Ghil, D.B. Haidvogel, C.-C. Ma, A. Mehra, A.M. Paiva, and Z. Sirkes, 2000: DAMÉE-NAB: The base experiments. *Dyn. Atmos. Oceans.*, **32**, 155-183.
- 2000 Smith, L.T., E.P. Chassignet, and R. Bleck, 2000: The impact of lateral boundary conditions and horizontal resolution on North Atlantic water mass transformations and pathways in an isopycnic coordinate ocean model. *J. Phys. Oceanogr.*, **30**, 137-159.
- 2000 Pratt, L.J., K.R. Helfrich, and E.P. Chassignet, 2000: Hydraulic adjustment to an obstacle in a rotating channel. *J. Fluid Mech.*, **404**, 117-149.
- 2000 Stern, M.E., and E.P. Chassignet, 2000: Mechanism of eddy separation from coastal currents. *J. Mar. Res.*, **58**, 1-27.
- 1999 Paiva, A.M., J.T. Hargrove, E.P. Chassignet, and R. Bleck, 1999: Turbulent behavior of a fine mesh (1/12°) numerical simulation of the North Atlantic. *J. Mar. Sys.*, **21**, 307-320.
- 1999 Chin, T.M., A.J. Mariano, and E.P. Chassignet, 1999: Spatial regression with Markov random fields for Kalman filter approximation in least-squares solution of oceanic data assimilation problems. *J. Geophys. Res.*, **104**, 7991-8014.

- 1999 Sun, S., R. Bleck, C.G. Rooth, J. Dukowicz, E.P. Chassignet, and P. Killworth, 1999: Inclusion of thermobaricity in isopycnic-coordinate models. *J. Phys. Oceanogr.*, **29**, 2719-2729.
- 1998 Chassignet, E.P., and J. Verron (Eds.), 1998: *Ocean Modeling and Parameterization*. Kluwer Academic Publishers, 451 pp.
- 1998 Özgökmen, T.M. and E.P. Chassignet, 1998: On the emergence of inertial gyres in a two-layer quasi-geostrophic ocean model. *J. Phys. Oceanogr.*, **28**, 461-484.
- 1997 Stern, M.E., E.P. Chassignet, and J.A. Whitehead, 1997: The wall jet in a rotating fluid. *J. Fluid Mech.*, **335**, 1-28.
- 1997 Özgökmen, T.M., E.P. Chassignet, and A.M. Paiva, 1997: Impact of wind forcing, bottom topography and inertia on mid-latitude jet separation in a quasi-geostrophic model. *J. Phys. Oceanogr.*, **27**, 2460-2476.
- 1996 Griffa, A.C., E.P. Chassignet, V. Coles, and D.B. Olson, 1996: Inertial gyre solutions from a primitive equation ocean model. *J. Mar. Res.*, **54**, 1-26.
- 1996 Chassignet, E.P., L.T. Smith, R. Bleck, and F.O. Bryan, 1996: A model comparison: Numerical simulations of the North and Equatorial Atlantic Ocean circulation in depth and isopycnic coordinates. *J. Phys. Oceanogr.*, **26**, 1849-1867.
- 1995 Chassignet, E.P., 1995: Vorticity Dissipation by western boundary currents in the presence of outcropping layers. *J. Phys. Oceanogr.*, **25**, 242-255.
- 1995 Chassignet, E.P., R. Bleck, and C.G.H. Rooth, 1995: The influence of layer outcropping on the separation of boundary currents. Part II: The wind- and buoyancy-driven experiments. *J. Phys. Oceanogr.*, **25**, 2404-2422.
- 1995 O'Brien, E.W., and E.P. Chassignet, 1995: Extratropical large-scale air-sea interaction in a coupled and uncoupled ocean-atmosphere model. *Climate Dyn.*, **12**, 53-65.
- 1994 Smith, L.T., E.P. Chassignet, and D.B. Olson, 1994: Wind-forced variations in the brazil-malvinas confluence region as simulated in a coarse resolution numerical model of the South Atlantic. *J. Geophys. Res.*, **99**, 5095-5117.
- 1994 Bleck, R., and E.P. Chassignet, 1994: Simulating the oceanic circulation with isopycnic-coordinate models. In "The Oceans: Physiochemical Dynamics and Resources", S.K. Majumdar, E.W. Miller, G.S. Forbes, R.F. Schumalz, and A.A. Panah (Eds.), The Pennsylvania Academy of Science, 17-39.
- 1993 Chassignet, E.P., and R. Bleck, 1993: the influence of layer outcropping on the separation of boundary currents. Part I: The wind-driven experiments. *J. Phys. Oceanogr.*, **23**, 1485-1507.
- 1993 Sun, S., R. Bleck, and E.P. Chassignet, 1993: Layer outcropping in numerical models of stratified flows. *J. Phys. Oceanogr.*, **23**, 1877-1884.
- 1992 Chassignet, E.P., 1992: Rings in numerical models of ocean general circulation: A statistical study. *J. Geophys. Res.*, **97**, 9479-9492.
- 1992 Chassignet, E.P., W.R. Holland, and A. Capotondi, 1992: Impact of the altimeter orbit on the reproduction of oceanic rings: Application to a regional model of the Gulf Stream. *Oceanologica Acta*, **15**, 479-490.
- 1991 Chassignet, E.P., and B. Cushman-Roisin, 1991: On the influence of a lower layer on the propagation of nonlinear oceanic eddies. *J. Phys. Oceanogr.*, **21**, 939-957.
- 1991 Chassignet, E.P., and P.R. Gent, 1991: The Influence of boundary conditions on mid-latitude jet separation in ocean numerical models. *J. Phys. Oceanogr.*, **21**, 1290-1299.
- 1990 Cushman-Roisin, B., E.P. Chassignet, and B. Tang, 1990: Westward motion of mesoscale eddies. *J. Phys. Oceanogr.*, **20**, 7558-768.

- 1990 Chassignet, E.P., D.B. Olson, and D.B. Boudra, 1990: Motion and evolution of rings in a numerical model and in observations. *J. Geophys. Res.*, **95**, 22121-22140.
- 1989 Boudra, D.B., K.A. Maillet, and E.P. Chassignet, 1989: Numerical modeling of Agulhas retroflection and ring formation with isopycnal outcropping. In *Mesoscale/Synoptic Coherent Structures in Geophysical Turbulence*, Nihoul and Jamart (Eds.), Elsevier Oceanography Series, **50**, 315-336.
- 1989 Chassignet, E.P., D.B. Olson, and D.B. Boudra, 1989: Evolution of rings in numerical models and observations. In "*Mesoscale/Synoptic Coherent Structures in Geophysical Turbulence*", J. Nihoul and B. Jamart (Eds.), Elsevier Oceanography Series, **50**, 337-356.
- 1988 Boudra, D.B., and E.P. Chassignet, 1988: Dynamics of Agulhas retroflection and ring formation in a numerical model. Part I. The vorticity balance. *J. Phys. Oceanogr.*, **18**, 280-303.
- 1988 Chassignet, E.P., and D.B. Boudra, 1988: Dynamics of Agulhas retroflection and ring formation in a numerical model. Part II. Energetics and ring formation. *J. Phys. Oceanogr.*, **18**, 304-319.
- 1987 Chassignet, E.P., and D.B. Boudra, 1987: Dynamics of Agulhas retroflection and ring formation in a quasi-isopycnic coordinate numerical model. In "*Three-dimensional Models of Marine and Estuarine Dynamics*", J. Nihoul and B. Jamart (Eds.), Elsevier Oceanography Series, **45**, 169-194.

FUNDED RESEARCH

Influence of Outcropping on Latitude Jet Separation in Multi-Layer Primitive Equation Numerical Model. Co-Principal Investigator with Bleck	NSF	6/15/91- 5/31/94	\$153,500
North Atlantic Modeling with a Multi-Layer Primitive Equation Numerical Model. Principal Investigator	ONR	10/1/92- 9/30/94	\$125,656
Heat Fluxes in a Coupled Atmosphere Atlantic Ocean Model in Response to Variation in Imposed Temperature Gradients. Co-Principal Investigator with O'Brien	DOE	7/1/92- 6/30/96	\$281,647
Isopycnal Modeling Work in the Context of the World Ocean Circulation Experiment Co-Principal Investigator with Bleck	NSF	12/15/92- 11/30/98	\$850,000
Vortex Interactions with External Effects Co-Principal Investigator with Dewar and Meacham (FSU)	NSF	6/1/94- 5/31/98	\$240,000
Influence of Coastline Orientation and Bottom Topography on Jet Separation/DAMEE-NAB Principal Investigator	ONR	10/1/94- 9/30/96	\$306,706
Satellite Data Assimilation in Miami Ocean Model Co-Principal Investigator with Mariano, Bleck and Halliwell	NASA	4/1/95- 3/31/98	\$308,999
Analysis and Modeling of RAFOS Float Trajectories in the Deep Western Boundary Current off the Bahamas Co-Principal Investigator with Leaman and Griffa	NSF	6/1/95- 5/31/97	\$102,999
Feedback in a Coupled Atlantic Ocean-Global Atmosphere Co-Principal Investigator with O'Brien and Rooth	NOAA	4/1/95- 3/31/97	\$113,674

Modeling the Meridional Overturning Circulation (MOC) in the North Atlantic: Seasonal to Decadal Variability Principal Investigator	NSF	8/15/96-1/31/02	\$330,000
Numerical Investigation of the Stability in Time and Space of the Gulf Stream Separation Co-Principal Investigator with Özgökmen	NSF	8/1/97-7/31/00	\$249,000
Basin-Scale Modeling of the North Atlantic Using the Miami Isopycnic Coordinate Ocean Model (MICOM) Principal Investigator	ONR	10/1/96-9/30/98	\$374,950
Use of Tracers in Classifying Climate Relevant North Atlantic Circulation Transients Co-Principal Investigator with Rooth and Bleck	NOAA	7/1/96 - 6/30/02	\$280,000
Ocean Modeling and Parameterization Principal Investigator	NSF	9/1/97-9/30/98	\$20,000
Lagrangian Statistics in a High Resolution 1/12 Degree Ocean Numerical Model Co-Principal Investigator with Griffa and Garraffo	NSF	8/1/98-7/31/02	\$344,000
MICOM-Based Nowcast/Forecast Systems for Coastal/Open Ocean Regions Principal Investigator	ONR	10/1/98-9/30/02	\$912,899
Vortex Interactions with Abrupt Topography Principal Investigator	NSF	4/15/99-3/31/02	\$187,000
HYCOM Consortium for Data Assimilative Ocean Modeling Principal Investigator	ONR	10/1/99-9/30/04	\$1,545,475
Planning for a coupled Physical-Biological Modeling Node Of (Phase A) National Ocean Partnership Program Proposal Principal Investigator	URI	9/1/99-12/31/99	\$6,226
Analysis and Validation of a Mechanism that Generates Strong Mid-Depth Currents and a Deep Cyclonic Gyre in the Gulf of Mexico Principal Investigator	FSU	11/1/99-9/30/04	\$185,022
Collaborative Research: Observations and Models of Upper Ocean Water Mass Formation and Evolution In the Western North Atlantic Principal Investigator	NSF	4/15/00-3/31/05	\$377,123
HYCOM Data Assimilation and WEB Outreach Principal Investigator	ONR	3/25/02-9/30/04	\$20,000
Further Developments of the HYbrid Coordinate Ocean Model (HYCOM) Principal Investigator	ONR	10/1/02-9/30/04	\$259,273
U.S. GODAE: Global Ocean Prediction with the HYbrid	NOAA	7/1/03-	\$302,100

Coordinate Ocean Model (HYCOM) Principal Investigator		6/31/06	
The Partnership for Advancing Interdisciplinary Global Modeling Principal Investigator	NSF	8/15/04- 8/14/05	\$121,967
Collaborative Research: Gravity Current Entrainment Climate Process Team Co-Principal Investigator with Özgökmen and Peters	NSF	10/1/03- 9/30/08	\$167,787
Response of the Gulf of Mexico Loop Current to Variability in Remote Forcing Co-Principal Investigator with Cherubin and Johns	NSF	9/1/03- 8/31/06	\$388,792
U.S. GODAE: Global Prediction with the Hybrid Coordinate Ocean Model (HYCOM) Principal Investigator	ONR	6/3/04- 9/30/08	\$443,089
Production and Assessment of a Multi-Sensor Enhanced Surface Temperature Analysis for GODAE Principal Investigator	NASA	6/1/04- 5/31/09	\$9,966
GODAE Summer School Principal Investigator	NSF	8/15/04- 8/14/05	\$20,000
A Storage Area Network Principal Investigator	ONR	4/1/05- 3/31/07	\$194,622
Ocean Modeling and Prediction Co-Principal Investigator with O'Brien	NRL	4/10/01- 4/09/06	\$537,778
Regional Assessment of Climate Impacts Co-Principal Investigator with O'Brien	NOAA	6/01/01- 5/31/07	\$3,146,500
Risk Reduction for Agriculture Specialty Crops Co-Principal Investigator with O'Brien	UF	3/01/03- 12/31/11	\$361,000
Decision Support System for Reducing Ag Risks Co-Principal Investigator with O'Brien	USDA	9/01/03 – 8/31/08	\$3,371,427
US RV Surface Meteorology Data Center Co-Principal Investigator with Smith and Bourassa	WHOI	6/01/04 – 6/30/09	\$450,000
Satellite Data for Climate Change Analysis Co-Principal Investigator with O'Brien and La Row	U. of Alabama	9/15/04 – 6/14/07	\$100,000
Coastal Climatology Products Co-Principal Investigator with O'Brien	U. of Georgia	9/24/04 – 4/30/07	\$13,112
The Influence of the Mediterranean Outflow Water Principal Investigator	NSF	3/01/06- 5/31/10	\$661,898
Global Ocean Prediction with HYCOM Principal Investigator	ONR	9/30/08- 1/31/10	\$401,105

Multi-Sensor Improved Sea Surface Temperature Principal Investigator	NASA	3/01/06 – 2/28/09	\$114,932
A Storage Area Network for Ocean Prediction Principal Investigator	ONR	4/27/06 – 3/31/07	\$194,622
An Applied NOAA Research Center at COAPS Co-Principal Investigator with O'Brien and Bourassa	NOAA	6/01/06 – 5/31/11	\$4,176,990
Extending the PRIDE-Live Access Server Principal Investigator	PMEL	8/01/06 – 9/30/07	\$12,000
Ocean Modeling and Prediction Co-Principal Investigator with O'Brien	NRL	8/28/06 – 8/27/11	\$995,000
Parameterization of Ocean Overflows Principal Investigator	NSF	8/31/06- 8/31/08	\$51,978
Northern Gulf of Mexico Cooperative Institute Co-Principal Investigator with Dewar	NOAA	11/01/06 – 12/30/11	\$2,457,325
Global Ocean Prediction with HYCOM Principal Investigator	ONR	2/01/07- 1/31/12	\$2,156,665
Wildfire Prediction and Asset Accountability Principal Investigator	Aegis	9/30/07- 1/31/08	\$322,425
Southeast Region Progress Review Principal Investigator	ONR	5/01/07 – 6/15/07	\$2,298
Incorporation of HYCOM into the CCSM Co-Principal Investigator with Yin	DOE	8/15/07 – 08/14/12	\$540,647
Agulhas Rings Pathways Co-Principal Investigator with Nof	NSF	5/01/08 – 04/30/11	\$200,348
Arctic Ocean Model Intercomparison Co-Principal Investigator with Dukhovskoy	NSF	9/01/08 – 8/31/11	\$90,000
Embedding a Forward Model of Tides Co-Principal Investigator with Arbic	U Texas	1/01/09 – 9/30/11	\$39,243
Toward a Global HYCOM Ocean Prediction System Principal Investigator	ONR	1/28/09 – 1/31/14	\$2,156,665
Effects of Small-Scale Bathymetric Roughness Co-Principal Investigator with Arbic	ONR	5/01/09 – 2/31/10	\$81,997
Impact of Moored Turbines on the Florida Current Principal Investigator	FAU	6/01/09 – 6/30/11	\$305,830
Wind Field Reconstruction for Hurricanes Co-Principal Investigator with Powell	ARCADIS	6/08/09 – 8/30/09	\$55,400
Decision Support System for Reducing Ag Risks Co-Principal Investigator with O'Brien	USDA	8/15/09 8/14/11	\$2,334,384

The Death of Agulhas Rings Co-Principal Investigator with Nof	NSF	9/15/09 – 8/31/12	\$417,479
A Land of Flowers in a Latitude of Deserts Co-Principal Investigator with Misra	USGS	2/17/10 – 3/1/12	\$499,950
Resolving Chemical Properties and Extent of Crude Oil in the Deepwater Horizon Spill Principal Investigator	FIO	8/13/10 – 8/12/12	\$220,000
BP Earth System Modeling Principal Investigator	NGI	11/15/10 – 12/31/12	\$168,000
Impact of Bottom Boundary Layer Drag and Topographic Wave Drag on the Eddy General Circulation Co-Principal Investigator with Arbic	NSF	7/1/11 – 8/31/12	\$29,778
Impact of Moored Turbines on the Florida Current Principal Investigator	FAU	8/25/11 – 6/30/12	\$70,000
Ocean Modeling and Prediction Principal Investigator	NRL	7/20/11 – 7/19/16	\$2,499,994
Deep-C: Deep Sea to Coast Connectivity in the Eastern Gulf of Mexico Principal Investigator	GRI	9/1/11 – 12/31/14	\$20,245,000
Incorporating Climate Change Effects into Next Generation Coastal Inundation Decision Support Systems Co-Principal Investigator with LaRow	UF / NOAA	9/1/11 – 8/31/15	\$390,000
Increasing Our Understanding of the Interaction Between Physical and Ecological Processes in the Gulf of Mexico and Caribbean Principal Investigator	MSU	8/1/12 – 7/31/16	\$100,000
Data Assimilative Ocean Hindcast for Oil Spill Risk Analysis in the Gulf of Mexico Principal Investigator	BOEM	8/17/12 – 2/28/15	\$149,091
Bias Characterization and Hurricane Initialization Using ATMS, SSMIS and AMSR-2 Co-Principal Investigator with Zou	MSU	11/1/12 – 10/31/15	\$750,680
Multimodel Ensembles for Hurricane Forecasts Principal Investigator	CIMAS	7/1/11 – 12/31/12	\$83,418
A Storage Area Network for HYCOM Ocean Prediction System Principal Investigator	ONR	11/1/11 – 08/31/15	\$512,370
Accelerated Prediction of the Polar Ice and Global Ocean (APPIGO) Principal Investigator	ONR	9/1/13 – 9/30/16	\$222,335

An Integration and Evaluation Framework for ESPC Coupled Models Principal Investigator	ONR	12/1/13 – 11/30/16	\$223,335
Ocean Eddies – Topographic Interactions Along the Brazilian Coast Co-Principal Investigator with Deremble	NSF	9/1/14 – 8/31/18	\$496,752
Increasing Our Understanding of the Interaction Between Physical and Ecological Processes in the Gulf of Mexico and Caribbean Co-Principal Investigator with Morey	MSU	7/1/14 – 6/31/16	\$123,662
Evaluation and Diagnosis of the Atlantic Meridional Overturning Circulation 3D Structure in Climate Models Co-Principal Investigator with Xu	NOAA	8/1/15 – 7/31/19	\$321,201
Ocean and Sea Ice and their Interactions Around Greenland and the West Antarctic Peninsula in Forced Fine-Resolution Global Simulations Principal Investigator	DOE	8/1/15 – 7/31/18	\$224,964
Subpolar-Subtropical Connectivity of the North Atlantic Circulation Co-Principal Investigator with Xu	NSF	9/15/15 – 8/31/19	\$451,170
Variability and Coherence of the Atlantic Meridional Overturning Circulation Co-Principal Investigator with Xu	CIMAS	10/1/15 – 9/30/17	\$116,958
HYCOM Data Server Principal Investigator	ONR	6/1/15 – 08/31/19	\$550,537
Arctic Shelf and Large Rivers Seamless Nesting In Global HYCOM Principal Investigator	ONR	8/1/15 – 08/31/19	\$1,512,370
Extension: Accelerated Prediction of the Polar Ice and Global Ocean (APPIGO) Principal Investigator	ONR	9/1/16 – 8/31/18	\$110,000
Extension: An Integration and Evaluation Framework for ESPC Coupled Models Principal Investigator	ONR	1/1/17 – 12/31/18	\$80,000
Ocean Modeling and Prediction Principal Investigator	NRL	7/20/17 – 7/19/22	\$2,537,442
CSOMIO: Consortium for Simulation of Oil-Microbial Interactions in the Ocean Principal Investigator	GRI	8/1/17 – 12/31/19	\$2,769,179
Preliminary Steps toward a National Ocean Modeling Capability In support of ESPC Principal Investigator	NOAA	8/1/17 – 7/31/20	\$117,837

