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Caribbean Wind LLC
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Courtesy Research Assistant Professor
Center for Marine and Environmental Studies
University of the Virgin Islands
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Professional Interests

Integrated Ocean Observing Systems; coastal, estuarine, and ocean observations; moorings, autonomous platforms, and instrument development; Oceanography of the Caribbean Sea, western tropical Atlantic, and Gulf of Mexico; Ocean circulation and heat transport; Ocean data management and visualization systems; western boundary currents; equatorial ocean dynamics; Chesapeake Bay and estuarine dynamics, water quality, and ecological monitoring and forecasting; Offshore Wind Data Collection Platforms and Operational Support

Professional Experience

June 2012 - **Consultant:** Ocean observing system design, implementation, and management; marine instrument and sensor development and integration; environmental data management and product and application development; Physical Oceanography.

Chief Science Officer, OCOVI (Ocean and Coastal Observing – Virgin Islands) 2016 - present

Courtesy Professor, University of the Virgin Islands, Marine and Environmental Science 2019 - present

Project Coordinator, IOCARIBE-GOOS Regional GOOS Alliance (1998 – 2018)

Project Lead, IOCARIBE, Observing and Forecasting System for the Tropical Americas and Caribbean, 2022 - present.

Senior Oceanographer, RPS ASA(2012-2018)

Advisory Board Member (2019-2020), Hefring Engineering

Oceanographer, Hefring Engineering, 2023 –

Principal Investigator, University of the Virgin Islands Ocean Glider Lab, 2022 -

2001 – 2012 **Oceanographer** (Program Manager, Integrated Coastal Observations Program; Project Manager, Chesapeake Bay Interpretive Buoy System; Director, NCBO Coastal Prediction Center) NOAA Chesapeake Bay Office, Annapolis, MD

1982 – 2001 **Research Physical Oceanographer**, NOAA Atlantic Oceanographic and Meteorological Laboratory

Recent Awards

- American Meteorological Society Francis W. Reichelderfer Award, 2013
'...In recognition of distinguished contributions to the provision of operational environmental services to the public.'
- National Ocean Partnership Program Excellence in Partnership Award 2013, "Long-term in situ chemical sensors for monitoring nutrients". Research Team Member
- CSIRO (Government of Australia) Frohlich Fellowship, 2012
- NOAA Administrator's Award, 2007, 2009
- Co-Author, NOAA OAR Outstanding Scientific Paper Award, 2000: *The arrival of recently formed Labrador Sea Water in the Deep Western Boundary Current at 26.5E N*
- U.S Department of State, Meritorious Service Award, White Water to Blue Water Initiative, 2004

Current Sponsored Research (University of the Virgin Islands)

D. Wilson and P. Jobsis: "MRI: Acquisition of Ocean Gliders for Marine Science Research Support at the University of the Virgin Islands", National Science Foundation, \$840,627, 9/1/22 – 8/31-24

D. Wilson, "Passive Acoustic Monitoring for Marine Mammal Stock Assessments using Gliders in the Caribbean: Filling a NMFS Operational Gap", University of Miami Cooperative Institute for Marine and Atmospheric Science/NOAA Southeast Fisheries Science Center, \$467,502, 7/1/23 – 30/6//25

P. Jobsis, and D. Wilson, "Development of Strategies for Sargassum Mitigation in the US Virgin Islands Using Oceanographic Methods and Modeling", US Department of Interior, \$499,796, 6/1/22 – 5/31/25.

Recent Contracts and References, W. D. Wilson / Caribbean Wind LLC

UNESCO (through IOCARIBE, the Intergovernmental Oceanographic Commission Sub-Commission for the Caribbean and Adjacent Regions)

Consultant, *Preparation of Regional Ocean Decade Actions proposals in support of the Western Tropical Atlantic Regional Planning Group and Eastern Tropical Pacific Activities (Tropical Americas) Action Plan*

Cesar Toro c.toro@unesco.org

AXYS Technologies, Inc.

Project Support, US East Coast Projects Coordinator (2016-present), Project Integrator , Business Development

P.S. Reilly psreilly@axys.com

Rutgers University

Principal Investigator, Mid-Atlantic Coastal Ocean Observing Regional Association Chesapeake Bay Interpretive Buoy System (NOAA Chesapeake Bay Office) Chesapeake Bay Ocean Acidification Buoy (NOAA Ocean Acidification Program) Challenger Glider Mission 2020, 2021 – Hurricane Gliders in the Caribbean

Scott Glenn glenn@marine.rutgers.edu

University of the Virgin Islands

Deployment and Maintenance of EPSCOR Ocean Buoy

Deployment of a Real-time Current and Wind Measurement System Integration and Deployment of a Real-Time Subsurface Thermistor Mooring Courtesy Professor, Center for Marine and Environmental Studies

Paul Jobsis pjobsis@live.uvi.edu

Chesapeake Bay Trust, Annapolis, MD Award 2019 – 2020

Chesapeake Bay dissolved oxygen profiling using a lightweight, low-powered real-time inductive CTDO2 mooring with sensors at multiple vertical measurement levels

Applied Science Associates Associate: Senior Oceanographer

Project Manager: Mid-Atlantic Acoustic Telemetry Observing System

Eoin Howlett ehowlett@asascience.com

Sea-Bird Scientific

Consultant: Engineering, System Design, and Business Development

Lea Ann Zuellig LZuellig@hach.com

University of Puerto Rico

Development of a web-based ocean observing system visualization and data access system for CariCOOS and IOCARIBE-GOOS – P.I. Ocean and Coastal Observing – Virgin Islands (OCovi) co-PI

Julio Morell julio.morell@upr.edu

IOC Subcommission for the Wider Caribbean Region IOCARIBE-GOOS Project Coordinator

Cesar Toro c.toro@unesco.org

Global Science and Technology

GEO Regional Water Quality Pilot Project for the Caribbean

Paul DiGiacomo Paul.DiGiacomo@noaa.gov

Science and Technology Corporation, Columbia, MD. Deputy Program Manager, NOAA PROTECH OCEANS

Krish Narasimhan narasimhan@stcnet.com

Advanced Monitoring Methods Installation of Lake Mead Weather Buoys

Tom Brauch tom@adv2.com

OEA Technologies

Development and Establishment of a Regional Marine Monitoring and Forecasting System for the OECS

Brian Whitehouse bwhitehouse@oeratech.com Washington College, Chestertown Maryland

Projects Related to Development of the Chester River Watershed Observatory

Doug Levin dlevin2@washcol.edu

Chesapeake Research Consortium

Chesapeake Bay Interpretive Buoy System Support

Kevin Sellner sellnerk@si.edu

Current and Past Professional Committees:

- Steering Committee Member, IOOS/COL US Underwater Gliders Users Group (2023 -)
- Member GOOS OceanGliders Working Group
- Vice President, Sections, Marine Technology Society (2016-2018)
- Joint Technical Commission for Oceanography and Marine Meteorology Task Team for Integrated Marine Meteorological and Oceanographic Services within WIS (TT-MOWIS)
- Technical Program Chairman, MTS/IEEE OCEANS '15 Washington DC
- Panelist, Final Review, *Caribbean Research, A Multi-Disciplinary Approach*, Netherlands Organisation for Scientific Research
- Mid-Atlantic Coastal Ocean Observing Regional Association (MARACOOS) Board of Directors, 2010-present
- Founding Co-Chair and Regional Project Coordinator, IOC IOCARIBE-GOOS Steering Committee, 1998 - 2019
- Steering Committee, Our Global Estuary Project
- (Chair, Working Group 2 (Sea Level), Intergovernmental Coordination Group, Caribbean Tsunami and Coastal Hazards Warning System)
- Interagency Ocean Observation Committee, Regional Integration Coordinating Entity Certification Workgroup
- United Nations World Ocean Assessment Pool of Experts
- Founding Steering Committee, U.S. Caribbean Observing System Regional Association (CaRA US- IOOS)
- IOCARIBE Tsunami Group of Experts
- IOC GLOSS Group of Experts
- Co-Chair, Steering Committee, Chesapeake Bay Observing System
- Steering Committee, Chesapeake Community Modeling Project
- (Steering Committee, US White Water to Blue Water Initiative)
- (Executive Committee, Intra-Americas Sea Initiative)
- NOS-COOP OSTEP Advisory Board Member (WOCE Data Products Committee (ADCP))
- Marine Technology Society, Buoy Technology Committee
- IEEE, Current Meter Technical Committee

Education

B.S. Florida Institute of Technology; Melbourne FL; Physical Oceanography; 1977; Bachelor, Honors; 3.3 GPA, 4 Point Scale; 637 Quarter Hours

M.S., University of Miami; Coral Gables FL; Meteorology and Physical Oceanography; 1981; Master; 3.5 GPA, 4 Point Scale; 45 Semester Hours

Selected Publications

Gradone, J, **W. Wilson**, S. Glenn, T. Miles, 2023. Upper Ocean Transport in the Anegada Passage from Multi-Year Glider Surveys. *J. Geophys Res*, 128(7), <https://doi.org/10.1029/2022JC019608>

Mukherjee, S., **D. Wilson**, P. Jobsis, and S. Habtes, 2023. Numerical modeling of internal tides and submesoscale turbulence in the US Caribbean regional ocean. *Sci Rep* 13(1) DOI [10.1038/s41598-023-27944-2](https://doi.org/10.1038/s41598-023-27944-2)

Wilson, D., 2022. Gliders, climatology, and ocean models – what we can learn about the NE Caribbean by increasing upper ocean observation density. Underwater Gliders Users Group Workshop Seattle '22, <https://drive.google.com/drive/folders/1QFua98fWN6yAlyWmtnVS22kjX89t0Rg6>

Wilson, D., Scott Glenn, Travis Miles, Anthony Knap, and Cesar Toro, 2021. Transformative Ocean Observing for Hurricane Forecasting, Readiness, and Response in the Caribbean Tropical Storm Corridor. *Marine Technology Society Journal*, v. 55(3), May/June 2021, p. 91.

Wilson, D., and D. Miller, 2021. Innovative Hypoxia Measurement: Collaboration with CTDO Sensors, UltiBuoy in Chesapeake Bay. *Sea Technology*, v. 62 (2), February 2021, pp. 8-10.

Miles, T.N., D. Zhang, G.R. Foltz, J. Zhang, C. Meinig, F. Bringas, J. Triñanes, M. Le Hénaff, M.F. Aristizabal Vargas, S. Coakley, C.R. Edwards, D. Gong, R.E. Todd, M.J. Oliver, **W.D. Wilson**, K. Whilden, B. Kirkpatrick, P. Chardon-Maldonado, J.M. Morell, D. Hernandez, G. Kuska, C.D. Stienbarger, K. Bailey, C. Zhang, S.M. Glenn, and G.J. Goni. 2021. Uncrewed ocean gliders and saildrones support hurricane forecasting and research. Pp. 78–81 in *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. A Supplement to *Oceanography* 34(4), <https://doi.org/10.5670/oceanog.2021.supplement.02-28>.

Wilson, D., and D. Bennett, 2019. Inductive telemetry and innovative mooring design enables cost-effective coral reef monitoring system. *Ocean News and Technology*, October 2019, pp. 14-15.

Wilson, W.D., D. Velasco, D. Shumuk, L. Fiorentino, R. Heitsenrether, 2019. Improving Current Measurements from Wave Buoys: Results from a Successful Five-Year Collaborative Development Project. . *OCEANS '19*, Seattle, Proceedings, Institute of Electrical and Electronics Engineers, in press.

M. A. Vargas, M.A., T. Miles, S. Glenn, P. Hogan, **W. D. Wilson**, R. Watlington, B. LaCourret , 2019. Impact of Glider Data Assimilation on the Global Ocean Forecasting System during the 2018 Hurricane Season," *OCEANS 2019 MTS/IEEE SEATTLE*, Seattle, WA, USA, 2019, pp. 1-5, doi: 10.23919/OCEANS40490.2019.8962824.

Wilson, D., R.A. Watlington, S. Glenn, T. Miles, 2019. Glider Operations in the US Virgin Islands in 2018. 8th EGO Meeting and International Glider Workshop, Rutgers University, New Jersey. https://s3.amazonaws.com/ioos-us-gliders/wp-content/uploads/2019/05/31154122/number56-EGO_VI_Wilson.pdf

Testor, P, B, DeYoung, D. Rudnick, S. Glenn, D. Hayes, C. Lee, C. B. Pattiaratchi, K. L. Hill, E. Heslop, V. Turpin, P. Alenius, C. Barrera, J. Barth, N. Beaird, G. Becu, A. Bosse, F. Bourrin, A. Brearly, Y. Chao, S. Chen, J. Chiggiato, L. Coppola, R. Crout, J. Cummings, B. Curry, R. Curry, R. Davis, K. Desai, Steven DiMarco, Catherine Edwards, Sophie Fielding, Ilker Fer, Eleanor Frajka-Williams, Hezi Gildor, Gustavo Goni, Dimitri Gutierrez, Stephanie Hanson, Peter Haugan, David Hebert, Joleen Heiderich, Karen J. Heywood, Patrick Hogan, Loïc Houpert, Sik Huh, Mark Edward Inall, Masso Ishii, Schin-ichi Ito, Sachihiko Itoh, Sen Jan, Jan Kaiser, Johannes Karstensen, Barbara Kirkpatrick, Jody Klymak, Josh Kohut, Gerd Krahnemann, Marjolaine Krug, Sam McClatchie, Frederic Marin, Elena Mauri, Avichal Mehra, Michael P. Meredith, Travis Miles, Julio Morell, Laurent Mortier, Sarah Nicholson, Joanne O'Callaghan, Diarmuid O'Conchubhair, Peter Robin Oke, Enric Pallàs Sanz, Matthew Palmer, JongJin Park, Leonidas Perivoliotis, Pierre-Marie Poulain, Ruth Perry, Bastien Queste, Luc Rainville, Eric Rehm, Moninya Roughan, Nicholas Rome, Tetjana Ross, Simon Ruiz, Grace Saba, Amandine Schaeffer, Martha Schonau, Katrin Schroeder, Yugo Shimizu, Bernadette Marie Sloyan, David Smeed, Derrick P Snowden, Yumi Song, Sebastiaan Swart, Miguel Tenreiro, Andrew F Thompson, Joaquin Tintore, Robert E Todd, Cesar Toro, Hugh Venables, Stephanie Waterman, Roy Watlington and **Doug Wilson**. 2019. OceanGliders: A component of the Integrated GOOS. *Front. Mar. Sci.* doi: 10.3389/fmars.2019.00422

Wilson, W.D., R.A. Watlington, T.N. Miles, S. M. Glenn (2018), Recent Variability in Upper Ocean Characteristics of the Northeastern Caribbean Sea, Abstract OS13D-1509, presented at 2018 Fall Meeting, AGU, Washington D.C., 10-14 Dec.

Heitsenrether, R, D. Velasco, **W.D. Wilson**, L. Fiorentino. 2018. Evaluating performance of acoustic Doppler current profilers on

small, dynamic surface buoys. OCEANS '18, Charleston, Proceedings, Institute of Electrical and Electronics Engineers, in press.

Shumuk, D, B. Michael, D. Velasco, **W.D. Wilson**, 2018. The Next Generation of Buoys integrated with Current Profilers. OCEANS '18, Charleston, Proceedings, Institute of Electrical and Electronics Engineers.

Velasco, D, **D. Wilson**, S. Nylund, 2018. Enhancing the Accuracy of Current Profiles from Surface Buoy-Mounted Systems. OCEANS '18, Kobe, Proceedings, Institute of Electrical and Electronics Engineers.

Barbara A. Block, Christopher M. Holbrook, Samantha E. Simmons, Kim N. Holland, Jerald S. Ault, Daniel P. Costa, Bruce R. Mate, Andrew C. Seitz, Michael D. Arendt, John C. Payne, Behzad Mahmoudi, Peter Moore, James M. Price, J. Jacob Levenson, **Doug Wilson** and Randall E. Kochevar (2016). Toward a national animal telemetry network for aquatic observations in the United States. *Animal Biotelemetry*, (2016) 4:6.

Wilson, W. D., R. Heitsenrether, N. Holcomb, 2016. A Comparison of Current Profiles Collected from Bottom- and Buoy- Mounted Instruments, OCEANS '16 Monterey, Proceedings, Institute of Electrical and Electronics Engineers.

Wilson, W.D., R. Heitsenrether, G. Gray. N. Holcomb, C. Teng, 2015. NOAA's Recent Field Testing of Current and Wave Measurement Systems, Part II. *2015 IEEE/OES 10th Current, Waves and Turbulence Measurements, Proceedings*, Institute of Electrical and Electronics Engineers.

Heitsenrether,, R., **W. D. Wilson**, G. Gray. N. Holcomb, C. Teng, 2015. NOAA's Recent Field Testing of Current and Wave Measurement Systems, Part I. *2015 IEEE/OES 10th Current, Waves and Turbulence Measurements, Proceedings*, Institute of Electrical and Electronics Engineer

E. Howlett, R. P. Signell, **D. Wilson**, D. P. Snowden and K. R. Knee, 2014. Data management update for the Integrated Ocean Observing System (IOOS®), *2014 Oceans - St. John's*, St. John's, NL, 2014, pp. 1-10. doi: 10.1109/OCEANS.2014.7003284

L. Wan, H. Zhou, **D. Wilson**, J. Hanson, S. Zhou, and Z. Shi, 2014. Analysis of Underwater OFDM Performance During a Two- Month Deployment in Chesapeake Bay. *Marine Technology Society Journal*, vol 48, no. 6, Nov/Dec 2014.

Wilson, W. D., 2012. The Chesapeake Bay Interpretive Buoy System: An IOOS estuarine archetype. *Oceans' 12 MTS/IEEE Proceedings*, Institute of Electrical and Electronics Engineers. . DOI 10.1109/OCEANS.2012.6405120

Boicourt, W.C, M. Li, N. Nidziedo, A. Blumberg, N. Georgas, E. J. Kelley, T.G. Updyke, **W. D. Wilson**, 2012. Observing the urban estuary: Review and prospect. OCEANS 12, Hampton Roads, *MTS/IEEE Proceedings*, Institute of Electrical and Electronics Engineers. DOI 10.1109/OCEANS.2012.6405120

Wilson, D., 2011. Current and Wave Measurements in Support of the Chesapeake Bay Interpretive Buoy System. *2011 IEEE/OES 10th Current, Waves and Turbulence Measurements, Proceedings*, Institute of Electrical and Electronics Engineers, pp. 94---99.

Wilson, D., 2011. Autonomous Water Quality Profiling With A Wetlabs Mini---Amp. *Oceans' 11 MTS/IEEE KONA, Proceedings*, Institute of Electrical and Electronics Engineers, pp. 1797---1805.

Wilson, D., 2009. The Chesapeake Bay Interpretive Buoy System: Recent Expansion and Advances. OCEANS 2009, MTS/IEEE Biloxi --- Marine Technology for Our Future: Global and Local Challenges, Proceedings, Institute of Electrical and Electronics Engineers.

Green, D.; Uccellini, L.; Colton, M.; Turner, E.; Scheurer, D.; Valette---Silver, N.; Matlock, G.; Brown, C.; **Wilson, D.**; Towards a Marine Ecological Forecasting System. OCEANS 2009, MTS/IEEE Biloxi --- Marine Technology for Our Future: Global and Local Challenges, Proceedings, Institute of Electrical and Electronics Engineers.

Wilson, D., 2008. The Chesapeake Bay Interpretive Buoy System. OCEANS 2008, Proceedings, Institute of Electrical and Electronics Engineers.

Wilson, D., and E. Siegel, 2008. Evaluation of Current and Wave Measurements from a Coastal Buoy. OCEANS 2008, Proceedings, Institute of Electrical and Electronics Engineers.

Joshua I. Henson, F. Muller-Karger, M. Luther, C. Kranenburg, **D. Wilson**, S. Morey, G. Maul, 2006. Strategic geographic positioning of sea level gauges to aid in early detection of tsunamis in the Intra---Americas Sea. *Science of Tsunami Hazards*, 25 (3), pp. 173 – 207.

Stamey, et al. (including **D. Wilson**), 2006. Chesapeake Inundation Prediction System (CIPS): A Regional Prototype for a National Problem. OCEANS 2007, MTS/IEEE Vancouver, Proceedings, Institute of Electrical and Electronics Engineers, DOI: 10.1109/OCEANS11213.2007

Sigurdsson, H., S. Carey, and **D. Wilson**, 2006. Debris Avalanche Formation at Kick 'em Jenny Submarine Volcano. In *Caribbean Tsunami Hazard*, pp. 66--67, Mercado and Liu ed., World Scientific Publishing Co., Singapore

Lindsay, Jan M., J. B. Shepherd, and **D. Wilson**, 2005. Volcanic and Scientific Activity at Kick 'em Jenny Submarine Volcano 2001 -- 2002: Implications for Volcanic Hazard in the Southern Grenadines, Lesser Antilles, *Natural Hazards*, 34: 1--24.

Watlington, R., **W.D. Wilson**, W.E. Johns, and C. Nelson., 2003. Updated Bathymetric Survey of Kick 'em Jenny Submarine Volcano, *Marine Geophysical Research*, 23(3):271-276.

Wilson, W.D., ed. The Case for IOCARIBE--GOOS: A Strategic Plan, 2002. UNESCO, Paris, 37. pp. GOOS pub. No. 115. **Wilson, W. D.**, W.E. Johns, and S. Garzoli, 2002. Velocity Structure of North Brazil Current Rings. *Geophysical Research Letters*, 29(8), pp. 114--1 -- 114--3

Williams, E., E. Prager, and **D. Wilson**, 2002. Research combines with public outreach on a cruise ship. *Eos, Transactions American Geophysical Union*, vol. 83, issue 50, p. 590 (2002).doi: 10.1029/2002EO000404

Chereskin, T. K., **W.D. Wilson** and L.M. Beal. 2002 The Ekman temperature and salt fluxes at 8 30'N in the Arabian Sea during the 1995 southwest monsoon, *Deep Sea Research Part II*,49(7), pp. 1211--1230

Johns, W. E., T. L. Townsend, D. M. Fratantoni, and **W. D. Wilson**, 2002. On the Atlantic Inflow into the Caribbean Sea. *Deep Sea Research Part I*, 49, pp. 211 -- 243.

Lindeman, K. C., T.N. Lee, **W.D. Wilson**, R. Claro, and J.S. Ault, 2002. Transport of Larvae Originating in Southwest Cuba and the Dry Tortugas: Evidence for Partial Retention in Grunts and Snappers, *Proc. Gulf and Carib. Fisheries Inst.* Vol. 52.

Moers C. N. K., Lianmei Gao, **W. Douglas Wilson**, William E. Johns, Kevin D. Leaman, Harley E. Hurlburt, and Tammy Townsend , 2002. Initial Concepts for IAS--GOOS. *Proceedings, Second EuroGOOS International Conference*, in press.

Ochoa, J., J. Sheinbaum, J. Candela, A. Badan, **D. Wilson**, 2001. Optimal extraction of the geostrophic contribution from hydrographic and horizontal velocity sections. *J. Marine Res.* 59(5).

Wilson, D. and K. Leaman , 2000. Transport Pathways through the Caribbean: The Tropical Origins of the Gulf Stream. *Current: The Journal of Marine Education*, v 16 (1), pp. 14--17.

Lee, T. N., E. Johns, **D. Wilson**, E. Williams, N. Smith, 2000. Transport processes linking South Florida coastal ecosystems. In *Linkages between ecosystems in the South Florida hydroscape: The River of Grass Continues*. Porter & Porter, ed., CRC Press.

Johns, E., **W. D. Wilson**, and R. L. Molinari, 1999. Direct observations of velocity and transport in the passages between the Intra--Americas Sea and the Atlantic Ocean, 1984 to 1996. *J. Geophys. Res.*, v. 104, C11, pp.25,805--25,820.

Lee., T. N., E. Johns, **D. Wilson**, E. Williams, 1999. Site Characterization for the Tortugas Region: Physical Oceanography and Recruitment. NOAA National Marine Sanctuary Division, January 1999.

Bourles, B., R. L. Molinari, E. Johns, **W. D. Wilson**, and K. D. Leaman, 1999. Upper layer currents in the western tropical North Atlantic (1989 -- 1991). *J. Geophysical Research*, v. 104, C1, pp. 1361--1376.

Molinari, R. L., R. A. Fine, **W. D. Wilson**, R. G. Curry, J. Abell, M. S. McCartney, 1998. The arrival of recently formed Labrador Sea Water in the Deep Western Boundary Current at 26.5E N, *Geophys. Res. Letters*, v.25, No. 13, pp. 2249 -- 2252.

Wilson, W.D., and W. E. Johns, 1997. Velocity Structure and Transport in the Windward Island Passages, *Deep--Sea Research I*, v. 44, No. 3, pp. 487 -- 520.

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field, A., J. Toole, and **D. Wilson**, 1997. Seasonal Circulation in the South Indian Ocean. *Geophysical Research Letters*, v 24, No. 22, pp 2772 -- 2776.

- Chereskin, T. K., **W. D. Wilson**, H. L. Bryden, A. Field, J. Morrison, 1997. Observations of the Ekman balance at 8E30' N in the Arabian Sea during the 1995 southwest monsoon. *Geophysical Research Letters*, v 24, No.21, pp 2541 --- 2544.
- Gordon, A. L., S. Ma, D. B. Olson, P. Hacker, A. Field, L. D. Talley, **D. Wilson**, M. Baringer, 1997. Advection and diffusion of Indonesian through flow water within the Indian Ocean South Equatorial Current. *Geophysical Research Letters*, v 24, No. 21, pp 2473 --- 2576.
- Hacker, P., E. Firing, **W.D. Wilson**, and R. Molinari, 1996. Direct Observations of the Current Structure east of the Bahamas, *Geophysical Res. Letters*, v. 23, 10, pp. 1127---1130.
- Waninkhoff, R. A. Feely, D. K. Atwood, G. B. Berberian, **D. Wilson**, P. P. Murphy, M. F. Lamb, 1995. Seasonal and lateral variations in carbon chemistry of surface water in the eastern equatorial Pacific during 1992. *Deep Sea Research Part II: Topical Studies in Oceanography*, vol. 42, issue 2-3, pp. 387-409.
- Wilson, D.**, 1994. Deep Ocean Current Profiling with a Broadband Acoustic Doppler Current Profiler. *OCEANS'94: Proceedings*, Institute of Electrical and Electronics Engineers, NY, NY, pp. 660 --- 665
- Wilson, D.**, E. Johns and R. Molinari, 1994. Upper layer circulation in the western tropical North Atlantic Ocean during August 1989. *J. Geophys. Res.*, v. 99, C11, pp. 22,513---22,523.
- Wilson, D.** and A. Leetmaa , 1988. Acoustic Doppler current profiling in the Equatorial Eastern Pacific in 1984. *J. Geophys. Res.*, v. 93, C11, pp. 13,947---13,966.
- Molinari, R., **D. Wilson** and K. Leaman, 1985. Volume and heat transport of the Florida Current: April 1982 through August 1983. *Science* 257:295---299.
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- Leetmaa, A., D. R. Quadfasel, and **D. Wilson**, 1982. Development of the Flow Field during the Onset of the Somali Current, 1979. *Journal of Physical Oceanography*, v 12 (12) pp. 1325---1342.
- Leetmaa, A., D. R. Quadfasel, and **D. Wilson**, 1980. Somali Current: Observations and Theory. *A Report of the Final Meeting of SCOR Working Group 47 in Venice, Italy, April 27---30, 1981*, Julian McCreary, Dennis Moore, Janet Witte, ed, Nova University, Dania, FL, 466 pp.
- Leetmaa, A., H.T. Rossby, P. M. Saunders, **D. Wilson**, 1980. Subsurface circulation in the Somali Current. *Science*, 209: 590-592.