

Refereed Publications:

1. Johns, W. E., D. M. Fratantoni, and R. J. Zantopp, 1993. Deep western boundary current variability off northeastern Brazil. *Deep-Sea Research I*, **40**(2), 293–310.
2. Fratantoni, D. M., W. E. Johns, and T. L. Townsend, 1995. Rings of the North Brazil Current: Their structure and behavior inferred from observations and a numerical simulation. *Journal of Geophysical Research*, **100**(C6), 10,633–10,654.
3. Fratantoni, D. M., and W. E. Johns, 1996. A deep-towed ADCP-CTD instrument package for abyssal overflow measurements in the northeastern Caribbean Sea. *Journal of Atmospheric and Oceanic Technology*, **13**(3), 680–687.
4. Fratantoni, D. M., R. J. Zantopp, W. E. Johns, and J. L. Miller, 1997. Updated bathymetry of the Anegada–Jungfern Passage complex and implications for Atlantic inflow to the abyssal eastern Caribbean Sea. *Journal of Marine Research*, **55**(5), 847–860.
5. Fratantoni, D. M., and P. L. Richardson, 1999. SOFAR Float observations of an intermediate-depth eastern boundary current and mesoscale variability in the eastern tropical Atlantic Ocean. *Journal of Physical Oceanography*, **29**(6), 1265–1278.
6. Garzoli, S. L., P. L. Richardson, C. M. Duncombe-Rae, D. M. Fratantoni, G. J. Goñi, and A. J. Roubicek, 1999. Three Agulhas Rings observed during the Benguela Current Experiment. *Journal of Geophysical Research*, **104**(C9), 20,971–20,986.
7. MacCready, P., W. E. Johns, C. G. Rooth, D. M. Fratantoni, and R. A. Watlington, 1999. Overflow into the deep Caribbean: Effects of plume variability. *Journal of Geophysical Research*, **104**(C11), 25,913–25,936.
8. Richardson, P. L., and D. M. Fratantoni, 1999. Float trajectories in the Deep Western Boundary Current and deep equatorial jets of the tropical Atlantic. *Deep-Sea Research II*, **46**(1-2), 305–333.
9. Fratantoni, D. M., W. E. Johns, T. L. Townsend, and H. E. Hurlburt, 2000. Low-latitude circulation and mass transport pathways in a model of the tropical Atlantic Ocean. *Journal of Physical Oceanography*, **30**(8), 1944–1966.
10. Fratantoni, D. M., 2001. North Atlantic surface circulation during the 1990's observed with satellite-tracked drifters. *Journal of Geophysical Research*, **106**(C10), 22,067–22,093.
11. Bower, A. S., D. M. Fratantoni, W. E. Johns, and H. Peters, 2002. Gulf of Aden eddies and their impact on Red Sea Water. *Geophysical Research Letters*, **29**, 2025, doi: 10.1029/2002 GL015342.
12. Fratantoni, D. M., and D. A. Glickson, 2002. North Brazil Current ring generation and evolution observed with SeaWiFS. *Journal of Physical Oceanography*, **32**, 1058–1074.
13. Johns, W. E., T. L. Townsend, D. M. Fratantoni, and W. D. Wilson, 2002. On the Atlantic inflow to the Caribbean Sea. *Deep-Sea Research*, **49**, 211–243.
14. Rudnick, D. L., R. E. Davis, C. C. Eriksen, D. M. Fratantoni, and M. J. Perry, 2004. Underwater Gliders for Ocean Research. *Journal of Marine Technology Society*, **38**(1), 48–59.

15. Bower, A. S., W. E. Johns, D. M. Fratantoni, and H. Peters, 2005. Equilibration and circulation of Red Sea Outflow Water in the western Gulf of Aden. *Journal of Physical Oceanography*, **35**, 1963–1985.
16. Cenedese, C., C. Adduce, and D. M. Fratantoni, 2005. Laboratory experiments on mesoscale vortices interacting with two islands. *Journal of Geophysical Research – Oceans*, **110**, C0923, doi: 10.1029/2005JC002734.
17. Fiorelli, E., N. E. Leonard, P. Bhatta, D. Paley, R. Bachmayer, and D. M. Fratantoni, 2005. Multi-AUV control and adaptive sampling in Monterey Bay. *IEEE Journal of Oceanic Engineering*, **31**(4), 935–948.
18. Peters, H., W. E. Johns, A. S. Bower, and D. M. Fratantoni, 2005. Mixing and entrainment in the Red Sea outflow plume, I: Plume structure. *Journal of Physical Oceanography*, **35**(5), 569–583.
19. Fratantoni, D. M., A. S. Bower, W. E. Johns, and H. Peters, 2006. Somali Current rings in the eastern Gulf of Aden. *Journal of Geophysical Research - Oceans*, **111**, C09039, doi:10.1029/2005JC003338.
20. Fratantoni, D. M., and P. L. Richardson, 2006. The evolution and demise of North Brazil Current Rings. *Journal of Physical Oceanography*, **36**, 1241–1264.
21. Ollitrault, M., M. Lankhorst, D. Fratantoni, P. Richardson, and W. Zenk, 2006. Zonal intermediate currents in the equatorial Atlantic Ocean. *Geophysical Research Letters*, **33**, L05605, doi:10.1029/2005GL025368.
22. Leonard, N. E., D. Paley, F. Lekien, R. Sepulchre, D. M. Fratantoni, and R. Davis, 2007. Collective motion, sensor networks and ocean sampling. *Proceedings of the IEEE*, **95**(1), 1–27.
23. Zhang, F., D. M. Fratantoni, D. Paley, N. E. Leonard, and J. M. Lund, 2007. Control of coordinated patterns for ocean sampling. *International Journal of Control*, special issue on Navigation, Guidance and Control of Uninhabited Underwater Vehicles, Vol. 80, No. 7, July 2007, pp. 1186-1199
24. Baumgartner, M. F., and D. M. Fratantoni, 2008. Diel periodicity in both sei whale vocalization rates and the vertical migration of their copepod prey observed from ocean gliders. *Limnology and Oceanography* special issue on Autonomous and Lagrangian Platforms and Sensors. *Limnol. Oceanogr.*, **53**(5, part 2), 2008, 2197-2209.
25. Chao, Y., Z. Li, J. Farrara, J. C. McWilliams, J. Bellingham, X. Capet, F. Chavez, J.-K. Choi, R. Davis, J. Doyle, D. Fratantoni, P. Li, P. Marchesiello, M. A. Moline, J. Paduan, and S. Ramp, 2008. Development, implementation, and evaluation of a data-assimilative ocean forecasting system off the central California coast. *Deep-Sea Research II*, doi:10.1016/j.dsr2.2008.08.011.
26. Davis, R. E., N. Leonard, and D. M. Fratantoni, 2008. Routing strategies for underwater gliders. *Deep-Sea Research II*, doi:10.1016/j.dsr2.2008.08.005.
27. Fratantoni, D. M., and S. H. D. Haddock, 2008. Introduction to the Autonomous Ocean Sampling Network (AOSN) program. *Deep-Sea Research II*, doi:10.1016/j.dsr2.2008.09.004.
28. Ramp, S. R., R. E. Davis, N. E. Leonard, I. Shulman, Y. Chao, A. R. Robinson, J. Marsden, P. F. J. Lermusiaux, D. Fratantoni, J. D. Paduan, F. P. Chavez, F. L. Bahr, S. Liang, W. Leslie, and Z. Li,

2008. Preparing to predict: The Second Autonomous Ocean Sampling Network (AOSN-II) experiment in the Monterey Bay. *Deep-Sea Research II*, doi:10.1016/j.dsr2.2008.08.013.
29. Shulman, I., C. Rowley, S. Anderson, S. DeRada, J. Kindle, P. Martin, J. Doyle, J. Cummings, S. Ramp, F. Chavez, D. Fratantoni, and R. Davis, 2008. Impact of glider data assimilation on the Monterey Bay model. *Deep-Sea Research II*, doi:10.1016/j.dsr2.2008.08.003.
 30. Lankhorst, M., D. M. Fratantoni, M. Ollitrault, P. Richardson, U. Send, and W. Zenk, 2008. The mid-depth circulation of the northwestern tropical Atlantic observed by floats. *Deep-Sea Research*, doi:10.1016/j.dsr.2009.06.002.
 31. Hodges, B. A. and D. M. Fratantoni, 2009. A thin layer of phytoplankton observed in the Philippine Sea with a synthetic moored array of autonomous gliders. *Journal of Geophysical Research - Oceans*, 114, doi:10.1029/2009JC005294.
 32. The CLIMODE group (23 authors), 2009. Observing the cycle of convection and restratification over the Gulf Stream system and the subtropical gyre of the North Atlantic Ocean: preliminary results from the CLIMODE field campaign. *Bull. Amer. Met. Soc.*, 90(9), 1337-1350.
 33. Leonard, N. E., D. A. Paley, R. E. Davis, D. M. Fratantoni, F. Lekien, and F. Zhang, 2010, Coordinated Control of an Underwater Glider Fleet in an Adaptive Ocean Sampling Field Experiment in Monterey Bay. *Journal of Field Robotics*, 27, 718-740.
 34. Fratantoni, D. M., Y.-O. Kwon, and B. A. Hodges, 2013. Direct Observation of Subtropical Mode Water Circulation in the Western North Atlantic Ocean. *Deep-Sea Research II*, 91, 35-56.
 35. Baumgartner, M. F., D. M. Fratantoni, T. Hurst, M. W. Brown, T. V. N. Cole, S. M. Van Parijs, and M. P. Johnson, 2013. Real-time reporting of baleen whale passive acoustic detections from ocean gliders. *Journal of the Acoustical Society of America*, 134, 1814-1823.
 36. Hodges, B. A. and D. M. Fratantoni, 2014, AUV Observations of the Diurnal Surface Layer in the North Atlantic Salinity Maximum. *Journal of Physical Oceanography*, 44(6), 1595-1604.
 37. Fratantoni, D. M., 2014, Environmentally-adaptive deployment of Lagrangian instrumentation using the Submerged Autonomous Launch Platform (SALP). *Marine Technology Society Journal*, 48(1), 66-75.
 38. Baumgartner, M., K. Stafford, P. Winsor, H. Statscewich, and D. Fratantoni, 2014. Glider-Based Passive Acoustic Monitoring in the Arctic. *Marine Technology Society Journal*, 48(5), 40-51.
 39. Farrar, J.T., L. Rainville, A.J. Plueddemann, W.S. Kessler, C. Lee, B.A. Hodges, R.W. Schmitt, J.B. Edson, S.C. Riser, C.C. Eriksen, and D.M. Fratantoni. 2015. Salinity and temperature balances at the SPURS central mooring during fall and winter. *Oceanography* 28(1):56–65, <http://dx.doi.org/10.5670/oceanog.2015.06>.
 40. Fratantoni, D. M., J. K. O'Brien, C. Flagg, and T. Rossby. 2017. AXIS: An Autonomous Expendable Instrument System. *Journal of Atmospheric and Oceanic Technology*, 34, 2673-2682.
 41. Lindstrom, Eric J., Andrey Y. Shcherbina, Luc Rainville, J. Thomas Farrar, Luca R. Centurioni, Shenfu Dong, Eric A. D'Asaro, Charles Eriksen, David M. Fratantoni, Benjamin A. Hodges, Verena Hormann, William S. Kessler, Craig M. Lee, Stephen C. Riser, Louis St. Laurent, and Denis L.

Volkov. "Autonomous Multi-Platform Observations During the Salinity Processes in the Upper-ocean Regional Study." *Oceanography* 30, no. 2 (2017): 38-48. <http://www.jstor.org/stable/26201845>.

42. Branch A, Clark E.B., Chien S, et al., 2018, Front delineation and tracking with multiple underwater vehicles. *J Field Robotics*. 2018;1–19. <https://doi.org/10.1002/rob.21853>
43. E. B. Clark *et al.*, 2019, Station-Keeping Underwater Gliders Using a Predictive Ocean Circulation Model and Applications to SWOT Calibration and Validation, *IEEE Journal of Oceanic Engineering*. doi: 10.1109/JOE.2018.2886092

Non-refereed Publications:

1. Fratantoni, D. M., and W. E. Johns, 1991. Development and initial applications of a deep-towed ADCP/CTD package for oceanic bottom boundary layer studies. *Proceedings of Oceans '91, October 1–3, 1991, Honolulu, HI* (paper).
2. Fratantoni, D. M., and W. E. Johns, 1993. The structure and dynamics of North Brazil Current retroflection eddies. *Third Scientific Meeting of The Oceanography Society, April 1991, Seattle, WA* (abstract).
3. Fratantoni, D. M., W. E. Johns, T. L. Townsend, and H. E. Hurlburt, 1994. Rings of the North Brazil Current: Blending observations with a realistic numerical simulation. *Eos, Transactions American Geophysical Union*, **75**(3), 225. Poster presentation at *AGU Ocean Sciences Meeting, February 1994, San Diego, CA*.
4. Johns, W. E., D. M. Fratantoni, T. L. Townsend, and H. E. Hurlburt, 1994. Modeling the equatorial Atlantic circulation: Recent results from the NRL Atlantic Basin model compared with observations. *Eos, Transactions American Geophysical Union*, **75**(3), 72. Poster presentation at *AGU Ocean Sciences Meeting, February 1994, San Diego, CA*.
5. Fratantoni, D. M., C. Rooth, and T. L. Townsend, 1995. Near-surface response of the tropical Atlantic Ocean to variations in meridional overturning cell amplitude. Poster presentation at the *Fourth Scientific Meeting of The Oceanography Society, April 18–21, 1995, Newport, RI*.
6. Johns, W. E., D. M. Fratantoni, and T. L. Townsend, 1995. Modeled inflow variability through the eastern Caribbean passages. *American Geophysical Union, Chapman Conference on Circulation of the Intra Americas Sea, January 22–27, 1995, La Parguera, Puerto Rico* (abstract).
7. Fratantoni, D. M., 1996. Modeling mass transport pathways in the tropical Atlantic Ocean: Experiments with synthetic drifters and tracers. *Eos, Transactions, American Geophysical Union*, **76**(3), 98. Poster presentation at *AGU Ocean Sciences Meeting, February 1996, San Diego, CA*.
8. Johns, W. E., D. M. Fratantoni, T. L. Townsend, and W. D. Wilson, 1996. Thermohaline return flow pathways in the tropical Atlantic and Caribbean. Presentation at the *Atlantic Climate Change Program Principal Investigators Meeting, May 15, 1996, Woods Hole, MA* (abstract).
9. Duncombe-Rae, C. M., S. L. Garzoli, P. L. Richardson, and D. M. Fratantoni, 1998. Hydrography of some rings in the southeast Atlantic Ocean. *Eos, Transactions, American Geophysical Union*, **79**(24), 131. Poster presentation at *AGU Ocean Sciences Meeting, February 1998, San Diego, CA*.

10. Fratantoni, D. M., P. L. Richardson, C. M. Duncombe-Rae, and S. L. Garzoli, 1998. Three rings in the eastern South Atlantic. *Eos, Transactions, American Geophysical Union*, **79**(24), 131. Poster presentation at the *AGU Ocean Sciences Meeting, February 1998, San Diego, CA*.
11. Garzoli, S. L., P. L. Richardson, C. M. Duncombe-Rae, and D. M. Fratantoni, 1998. The Benguela Current Experiment. Poster presentation at the *European Geophysical Society Meeting, June 1998, Nice, France*.
12. Garzoli, S. L., P. L. Richardson, C. M. Duncombe-Rae, and D. M. Fratantoni, 1998. The Benguela Current Experiment. Poster presentation at the *WOCE Meeting, Halifax, Nova Scotia, Canada* (abstract).
13. Garzoli, S. L., P. L. Richardson, C. M. Duncombe-Rae, D. M. Fratantoni, G. Goni, J. Mantel, A. Roubicek, P. Fratantoni, and C. Whittle, 1998. The Benguela Current Experiment. *Eos, Transactions, American Geophysical Union*, **79**(24), 131. Poster presentation at *AGU Ocean Sciences Meeting, February 1998, San Diego, CA*.
14. Fratantoni, D. M., P. L. Richardson, W. E. Johns, C. I. Fleurant, R. H. Smith, S. L. Garzoli, W. D. Wilson and G. J. Goni, 1999. The North Brazil Current Rings Experiment. *Eos, Transactions, American Geophysical Union 1999 Suppl.*, **80**(17), S179. Presentation at *1999 Spring AGU Meeting, June 1999, Boston, MA* (abstract).
15. Fratantoni, D. M., P. L. Richardson, and C. Wooding, 1999. Circulation of the North Atlantic Ocean during the 1990's as determined by Lagrangian drifters. *Eos, Transactions, American Geophysical Union*, **80**(49), 43. Poster presentation at *AGU Ocean Sciences Meeting, January 24–28, 2000, San Antonio, TX*.
16. Richardson, P. L., and D. M. Fratantoni, 1999. Float trajectories in the Deep Western Boundary Current and deep equatorial jets of the tropical Atlantic. *International WOCE Newsletter*, March, 5–6.
17. Wilson, W. D., S. Garzoli, G. J. Goni, W. E. Johns, R. H. Smith, C. I. Fleurant, P. L. Richardson, and D. M. Fratantoni, 1999. The North Brazil Current Retroflexion: Two Recent Surveys. *Eos, Transactions, American Geophysical Union 1999 Suppl.*, **80**(17), S179. Presentation at *1999 Spring AGU Meeting, June 1999, Boston, MA* (abstract).
18. Fratantoni, D. M., D. A. Glickson, D. C. Webb, C. P. Jones, and T. K. Campbell, 2000. The Slocum Autonomous Glider. *Eos, Transactions, American Geophysical Union*, **81**(48), 660. Presentation at the *AGU Fall Meeting, December 15–19, 2000, San Francisco, CA* (abstract).
19. Glickson, D. A., and D. M. Fratantoni, 2000. The generation and evolution of North Brazil Current Rings as observed with SeaWiFS ocean color imagery: 1997–2000. *Eos, Transactions, American Geophysical Union*, **81**(48), 754. Poster presentation at the *AGU Fall Meeting, December 15–19, 2000, San Francisco, CA* (abstract).
20. Johns, W. E., and D. M. Fratantoni, 2000. Does the Meridional Overturning Circulation shut off the northern STC in the Atlantic? Poster presentation at *WOCE/CLIVAR Workshop on Shallow Tropical-Subtropical Overturning Cells and their Interaction with the Atmosphere, October 9–13, 2000, Venice, Italy*.
21. Richardson, P. L., S. L. Garzoli, C. M. Duncombe-Rae, D. M. Fratantoni, and G. J. Goni, 2000. Float trajectories at 750m in the Benguela Current (KAPEX). *Eos, Transactions, American Geophysical*

- Union*, **81**(48), 716. Presentation at the *AGU Fall Meeting, December 15–19, 2000, San Francisco, CA* (abstract).
22. Fratantoni, D. M., P. L. Richardson, D. A. Glickson, and M. E. Zemanovic, 2001. Observations of North Brazil Current Ring Structure and Evolution. Presentation at *IAPSO - IABO Meeting, October 2001, Mar del Plata, Argentina* (abstract).
 23. Bower, A. S., D. M. Fratantoni, W. Johns, and H. Peters, 2002. Red Sea Outflow Experiment (REDSOX): New Observations of the Descent and Spreading of Red Sea Water. OS41Q-01. Presentation at the *AGU Ocean Sciences Meeting, February 11–15, 2002, Honolulu, HI* (abstract).
 24. Fratantoni, D. M., D. A. Glickson, and A. S. Bower, 2002. Generation of translating Somali Current rings during the south monsoon. OS42G-176. Poster presentation at the *AGU Ocean Sciences Meeting, February 11–15, 2002, Honolulu, HI*.
 25. Fratantoni, D. M., and P. L. Richardson, 2002. North Brazil Current Ring Collisions with the Lesser Antilles. *Eos, Transactions, American Geophysical Union*, **83**(47) F683. Presentation at *2002 AGU Fall Meeting, December 2002, San Francisco, CA* (abstract).
 26. Bower, A. S., W. E. Johns, H. Peters, and D. M. Fratantoni, 2003. Red Sea Outflow Experiment (REDSOX): Descent and initial spreading of Red Sea Water in the northwestern Indian Ocean. Poster presentation at *EGS/AGU/EGU Joint Assembly, April 6–11, 2003, Nice, France*.
 27. Fratantoni, D. M., P. L. Richardson, and C. M. Wooding, 2003. Fate of North Brazil Current Rings. Poster presentation at *EGS/AGU/EGU Joint Assembly, April 6–11, 2003, Nice, France*.
 28. Fratantoni, D. M., P. L. Richardson, and C. M. Wooding, 2003. North Brazil Current Ring Collisions with the Lesser Antilles. Poster presentation at *EGS/AGU/EGU Joint Assembly, April 6–11, 2003, Nice, France*.
 29. Graver, J. G., R. Bachmayer, N. E. Leonard, and D. M. Fratantoni, 2003. Underwater glider model parameter identification. Paper presented at *The 13th International Symposium on Unmanned, Untethered Submersible Technology (UUST03), August 24–27, 2003, Durham, NH* (paper).
 30. Bellingham, J. G., P. E. Chandler, Y. Chao, F. Chavez, R. E. Davis, D. M. Fratantoni, S. Haddock, N. E. Leonard, M. A. McManus, J. D. Paduan, S. R. Ramp, and A. Robinson, 2004. AOSN Monterey Bay Experiment: Observing and Predicting the Coastal Ocean. Presentation at the *84th American Meteorological Society Annual Meeting, Symposium on Forecasting the Weather and Climate of the Atmosphere and Ocean, 20th Conference on Weather Analysis and Forecasting/16th Conference on Numerical Weather Prediction, 84th AMS Annual Meeting, January 10–15, 2004, Seattle, WA* (abstract).
 31. Bellingham, J. G., D. M. Fratantoni, R. E. Davis, S. Ramp, F. Chavez, S. Haddock, M. McManus, M. Moline, J. Paduan, A. Healey, N. Leonard, P. Chandler, A. R. Robinson, Y. Chao, R. Bachmayer, J. F. Case, J. D. Doyle, P. Haley, H. Christy, S. Johnston, P. F. Lermusiaux, W. G. Leslie, S. J. Majumdar, J. Marsden, J. Ryan, J. Sherman, I. Shulman, and H. Thomas, 2004. AOSN in Monterey Bay: Observation and Adaptive Sampling with Multiple Platforms. Presentation at the *American Society of Limnology and Oceanography/The Oceanographic Society 2004, Ocean Research Conference, February 15–20, 2004, Honolulu, HI* (abstract).
 32. Bower, A. S., D. M. Fratantoni, W. E. Johns, and H. Peters, 2004. Direct Observations of Red Sea Water Spreading in the Northwestern Indian Ocean From Floats. *Eos, Transactions, American*

- Geophysical Union*, **84**(52), Abstract OS41N-01, 2003. *AGU Ocean Sciences Meeting, January 26–30, 2004, Portland, OR*.
33. Fiorelli, E., N. E. Leonard, R. Bachmayer, P. Bhatta, and D. M. Fratantoni, 2004. Adaptive Ocean Sampling Using Coordinated Autonomous Underwater Vehicle Fleets: The Autonomous Ocean Sampling Network in Monterey Bay 2002 and Beyond. Presentation at the *American Society of Limnology and Oceanography/The Oceanographic Society 2004, Ocean Research Conference, February 15–20, 2004, Honolulu, HI* (abstract).
 34. Fratantoni, D. M., and A. S. Bower, 2004. Somali Current rings in the eastern Gulf of Aden. *Eos, Transactions, American Geophysical Union*, **84**(52), Abstract OS41N-02, 2003. *AGU Ocean Sciences Meeting, January 26–30, 2004, Portland, OR*.
 35. Fratantoni, D. M., and R. E. Davis, 2004. Autonomous Underwater Glider Performance During AOSN-II. *Eos, Transactions, American Geophysical Union*, **84**(52), Abstract OS22D-01, 2003. *AGU Ocean Sciences Meeting, January 26–30, 2004, Portland, OR*.
 36. Fratantoni, D. M., and R. E. Davis, 2004. Autonomous Underwater Glider Performance During AOSN-II. Presentation at the *American Society of Limnology and Oceanography/The Oceanographic Society 2004, Ocean Research Conference, February 15–20, 2004, Honolulu, HI* (abstract).
 37. Fratantoni, D. M., J. M. Lund, M. S. Carnes, and M. S. Toner, 2004. Eddies in the western tropical Pacific observed using a synthetic moored array of autonomous gliders. *AGU Fall Meeting, December 2004, San Francisco, CA*.
 38. Lankhorst, M., D. Fratantoni, P. Richardson, and W. Zenk, 2004. Lagrangian Observations at Mid-Depth in the Western Tropical Atlantic. *European Geosciences Union, Geophysical Research Abstracts, European Geosciences Union*, Vol. **6**, EGU-04-A-03794. Presentation at the *European Geosciences Union, 1st General Assembly, April 25–20, 2004, Nice, France* (abstract).
 39. Leonard, N. E., R. Bachmayer, P. Bhatta, E. Fiorelli, D. Paley, and D. M. Fratantoni, 2004. Design and Implementation of Multi-AUV Control Methodologies for Adaptive Sampling in a Dynamic and Uncertain Environment. Presentation at the *IEEE Oceanic Engineering Society, Autonomous Underwater Vehicles 2004, AUV 2004, June 17, 2004, Sebasco Estates, ME* (paper).
 40. Peters, H., W. E. Johns, A. S. Bower, and D. M. Fratantoni, 2004. Red Sea Outflow Plume: Structure, Mixing and Entrainment. *Eos, Transactions, American Geophysical Union*, **84**(52), Abstract OS41H-01 (Invited), 2003. *AGU Ocean Sciences Meeting, January 26–30, 2004, Portland, OR*.
 41. Robinson, A. R., J. G. Bellingham, Y. Chao, F. Chavez, R. E. Davis, D. M. Fratantoni, S. Haddock, N. E. Leonard, M. A. McManus, J. Paduan, S. Ramp, R. Bachmayer, P. Bhatta, P. Chandler, P. Choi, J. K. Fiorelli, P. J. Haley, P. F. Lermusiaux, W. G. Leslie, Z. Li, and J. E. Marsden, 2004. AOSN in Monterey Bay: Modeling and Predicting Multiple Scales for Adaptive Sampling. Presentation at the *American Society of Limnology and Oceanography/The Oceanographic Society 2004, Ocean Research Conference, February 15–20, 2004, Honolulu, HI* (abstract).
 42. Bahatta, P., E. Fiorelli, F. Lekien, N. E. Leonard, D. A. Paley, F. Zhang, R. Bachmayer, R. Davis, D. M. Fratantoni, and R. Sepulchre, 2005. Coordination of an Underwater Glider Fleet for Adaptive Ocean Sampling. *International Workshop on Underwater Robotics. September 2005, Genoa, Italy*, (paper).

43. Baumgartner, M. F., D. M. Fratantoni, and C. W. Clark, 2005. Studying marine mammal ecology in a gale without getting queasy: Novel physical, biological, and acoustic observations from autonomous underwater vehicles. to be presented at the *16th Biennial Conference on the Biology of Marine Mammals, December 12-16, 2005, San Diego, CA*.
44. Bower, A., W. Johns, D. Fratantoni, and H. Peters, 2005. Gravitational and dynamical adjustment of the Red Sea Outflow Water in the western Gulf of Aden. EGU05-A-04816. Poster presentation at the *European Geosciences Union, General Assembly, April 27, 2005, Vienna, Austria*.
45. Fratantoni, D., 2005. Tropical rings. EGU05-A-05649. Presentation at the *European Geosciences Union, General Assembly, April 25, 2005, Vienna, Austria*.
46. Fratantoni, D. M., and M. F. Baumgartner, 2005. AUV-Based Physical, Biological, and Acoustic Observations in Support of Marine Mammal Ecology Studies. Poster presentation at *The Oceanography Society, Ocean Research Conference, June 6–10, 2005, Paris, France* (abstract).
47. Lankhorst, M., D. Fratantoni, M. Ollitrault, P. Richardson, and W. Zenk, 2005. The Circulation of Western Tropical Atlantic at Mid-Depth as Observed by Floats. EGU05-A-03310. Poster presentation at the *European Geosciences Union, General Assembly, April 26, 2005, Vienna, Austria*.
48. Peters, H., W. E. Johns, A. S. Bower, and D. M. Fratantoni, 2005. Mixing and entrainment in the Red Sea outflow plume. EGU05-A-01536. Presentation at the *European Geosciences Union, General Assembly, April 27, 2005, Vienna, Austria*.
49. Baumgartner, M. F., D. M. Fratantoni, and C. W. Clark, 2006. Investigating Baleen Whale Ecology with Simultaneous Oceanographic and Acoustic Observations from Autonomous Underwater Vehicles. *Eos Trans. AGU*, **87**(36), Ocean Sci. Meet. Suppl., Abstract OS24E-05.
50. Fratantoni, D. M., and J. M. Lund, 2006. Observations of thin phytoplankton layers in Monterey Bay using gliders. *Eos Trans. AGU*, **87**(36), Ocean Sci. Meet. Suppl., Abstract OS34M-05.
51. Zhang, Y., J. G. Bellingham, R. Davis, D. Fratantoni, and S. Ramp, 2007. Reconstruction of Coastal-Scale Ocean Fields in an Upwelling Region. *Eos Trans. AGU*, Fall Meet. Suppl., Abstract OS51B-0475.
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