Dr. Shenfu Dong

Atlantic Oceanographic and Meteorological Laboratories, NOAA
4600 Rickenbacker Causeway, Miami, FL 33149
E-mail: Shenfu.Dong@noaa.gov Phone: 305-361-4372

Education

2004	Ph.D. in Physical Oceanography, University of Washington, Seattle, WA
1999	M.S. in Physical Oceanography, University of Washington, Seattle, WA
1996	M.S. in Physical Oceanography, Ocean University of China, Qingdao, China
1994	B.S. in Physical Oceanography, Ocean University of China, Qingdao, China

Professional Experience

2016-present	Atlantic Oceanographic and Meteorological Laboratories, NOAA *Oceanographer*
2011-2016	Cooperative Institute for Marine and Atmospheric Studies, University of Miami NOAA/AOML/Physical Oceanography Division *Associate Scientist*
2007-2011	Cooperative Institute for Marine and Atmospheric Studies, University of Miami NOAA/AOML/Physical Oceanography Division *Assistant Scientist*
2004-2007	Scripps Institution of Oceanography, University of California, San Diego, CA *Postdoctoral Researcher*
1997-2004	School of Oceanography, University of Washington, Seattle, WA *Research/teaching Assistant*
1994-1997	Ocean University of China, Qingdao, China *Research Assistant*

Peer-reviewed Publications

Abdalla, S., et al. (2021): Altimetry for the future: Building on 25 years of progress. *Adv. Space Res. 25 Years Prog. Radar Altimetry* **2021**, *68*, 319–363.

Dong, S., G. Goni, R. Domingues, F. Bringas, M. Goes, J. Christophersen, and M. Baringer, 2021: Synergy of in-situ and satellite ocean observations in determining meridional heat transport in the Atlantic Ocean. *Journal Geophysical Research-Oceans,* 126(4), e2020JC017073, https://doi.org/10.1029/2020JC017073.

Chidichimo, M.P., A.R. Piola, C.S. MEINEN, R.C. PEREZ, E.J.D. Campos, S. DONG, R. LUMPKIN, and S.L. GARZOLI. Absolute Brazil Current volume transport variability at 34.5°S during 2009-2015: Results from a long-term moored array. *Journal of Geophysical Research–Oceans*, doi:10.1029/2020JC017146.

Goes, M., G. Goni, **S. Dong**, M. Baringer, and T. Boyer, 2020: The value of Argo and XBT observations for boundary currents and meridional heat transport studies: A case study in the Atlantic Ocean, *J. Ocean. Atmos. Tech*., 37(12), 2267-2282. https://doi.org/10.1175/JTECH-D-20-0027.1

Gronholz, A., **S. Dong**, S.-K. Lee, H. Lopez, G. Goni, and M. Baringer, 2020: Interannual variability of the South Atlantic Ocean heat content in a high-resolution versus low-resolution General Circulation Model. *Geophys. Res. Lett.,* 47(23):e2020GL089908, https://doi.org/10.1029/2020GL089908.

Kersalé, M., C. S. Meinen, R. C. Perez, A. R. Piola, S. Speich, E. J. D. Campos, S. Garzoli, I. Ansorge, D. L. Volkov, M. Le Hénaff, **S. Dong**, T. Lamont, O. T. Sato, and M. van den Berg, 2021: Multi-year estimates of the Atlantic Meridional Overturning Circulation at 34.5°S: Daily volume and heat transports. *Journal of Geophysical Research–Oceans*, doi:10.1029/2020JC016947.

Volkov D. L., **S. Dong**, M. Lankhorst, M. Kersale, A. Sanchez-Franks, C. Schmid, J. Herrford, R. Perez, B. Moat, C.S. Meinen, M.O. Baringer, E. Frajka-Williams, D. Smeed, 2021: Meridional overturning circulation and heat transport in the Atlantic Ocean. In: *State of the Climate in 2020*, Bluden, J. and T. Boyer (Eds.). *Bull. Amer. Met. Soc.*, 102(8):S176-S179.

Meinen, C.S., R.C. Perez, **S. Dong**, A.R. Piola, and E. Campos (2020). Observed ocean bottom temperature variability at four sites in the northwestern Argentine Basin: Evidence of decadal deep/abyssal warming amidst hourly to interannual variability during 2009-2019. *Geophys. Res. Lett*. 47(18), e2020GL089093, doi:10.1029/2020GL089093.

Dong, S., H. Lopez, S.-K. Lee, C. Meinen, G. Goni, and M. Baringer: What caused the anomalous heat deficit in the South Atlantic Ocean during 2009-2012? *Geophys. Res. Lett*. 47(11), e2020GL088206, doi:10.1029/2020GL088206.

Kersalé, M., et al., 2020: Temporal Variability of the Upper and Abyssal Atlantic Overturning Cells at 34.5°S. *Science Advances*, 6(32), eaba7573, doi:10.1126/sciadv.aba7573.

Volkov D.L., et al., 2020. Atlantic meridional overturning circulation and associated heat transport. In: State of the Climate in 2019, Bull. Amer. Met. Soc. 101(8), S163-S169.

Dong, S., Baringer, M., and Goni, G., 2019: Slowdown of the Gulf Stream during 1993-2016. *Scientific Reports*, 9:6672 (doi:10.1038/s41598-019-42829-8).

Frajka-Williams, E. and coauthors, 2019: Atlantic Meridional Overturning Circulation: Observed transport and variability. Frontiers in Marine Science, 6:260 (doi:10.3389/fmars.2019.00260).

Goni, G. and coauthors, 2019: More than 50 years of successful continuous temperature section measurements by the Global Expendable Bathythermograph Network, its integrability, societal benefits, and future. Frontiers in Marine Science, 6:452 (doi:10.3389/fmars.2019.00452).

Kersalé, M., Perez, R.C.**,** Speich, S., Meinen, C.S., Lamont, T., Le Hénaff, M., van den Berg, M.A., Majumder, S., Ansorge, I.J., **Dong, S.**, Schmid, C., Terre, T., and Garzoli, S.L., 2019: Shallow and deep eastern boundary currents in the South Atlantic at 34.5°S: Mean structure and variability. *JGR-Oceans*, 124:1-26 (doi:10.1175/JCLI-D-18-0474.1).

Lee, S.-K., R. Lumpkin, M.O. Baringer, C.S. Meinen, M. Goes, **S. Dong**, H. Lopez, and S.G. Yeager, 2019: Global meridional overturning circulation inferred from a data-constrained ocean and sea-ice model. Geophysical Research Letters, 46(3):1521-1530, doi:10.1029/2018GL080940.

Lopez, H., S.-K. Lee, **S. Dong**, G. Goni, B. Kirtman, R. Atlas, and A. Kumar, 2019: East Asian Monsoon as a modulator of U.S. Great Plains heat waves. *Journal of Geophysical Research-Atmospheres*, (doi:10.1029/2018JD030151).

Todd, R. E. and coauthors, 2019: Global Perspectives on Observing Ocean Boundary Current Systems. Frontiers in Marine Science, 6:423 (doi:10.3389/fmars.2019.00423).

Volkov, D.**, S. Dong,** G. R. Foltz, G. Goni, and R. Lumpkin, 2019: Observations of near-surface salinity and temperature structure with dual-sensor Lagrangian drifters during SPURS-2. *Oceanography*, 32(2):66-75 (https://doi.org/10.5670/oceanog.2019.214).

Baringer, M.O.**,** and co-authors, 2018: Meridional overturning and oceanic heat transport circulation observations in the North Atlantic Ocean. In *State of the Climate in 2017*, J. Blunden, D.S. Arndt, and G. Hartfield (eds.). *BAMS*, 99(8):S91-S94 (doi:10.1175/2018BAMSStateoftheClimate.1).

Goes, M., J. Christophersen, **S. Dong**, G. Goni, and M. Baringer, 2018: An updated estimate of salinity for the Atlantic Ocean sector using Temperature-Salinity relationships. J. tech, 35(9), 1771-1784.

Lopez, H., R. West, **S. Dong**, S.-K. Lee, G. Goni, and R. Atlas, 2018: Early emergence of anthropogenically-forced heat waves in the western US and Great Lakes, *Nature climate Change,* 8(5):414-420 (doi:10.1038/s41558-018-0116-y).

Kelly, K.A., J. K. Willis, G. Reverdin, **S. Dong**, and L. Thompson. Monitoring and interpreting mid-latitude oceans by satellite altimetry. In Satellite Altimetry Over Oceans and Land Surfaces, D. Stammer and A. Cazenave (eds.). *CRC Press*, 211-230.

Meinen, C., and co-authors, 2018: Meridional Overturning Circulation transport variability at 34.5S during 2009-2017: Baroclinic and barotropic flows and the dueling influence of the boundaries, *Geophysical Research Letters*, 45(9):4180-4188 (doi:10.1029/2018GL077408).

Baringer, M.O., D. Smeed, J. Willis, M. Lankhorst, W.R. Hobbs, **S. Dong**, G. McCarthy, D. Rayner, W. E. Johns, G. Goni, and U. Send, 2017: Meridional overturning and oceanic heat transport circulation observations in the North Atlantic Ocean [in "State of the Climate in 2016"]. *Bull. Amer. Meteor. Soc.*, 98(8):S84-S87 (doi:10.1175/2017BAMSStateoftheClimate.1).

Dong. S., D. Volkov**,** G. Goni**,** R. Lumpkin, and G. Foltz, 2017: Near-surface Salinity and Temperature Structure Observed with Dual-Sensor Drifters in the Subtropical South Pacific. *Journal of Geophysical Research - Oceans*, 122, (doi : 10.1002/2017JC012894).

Lindstrom, E.J., A.Y. Scherbina, L. Rainville, J.T. Farrar, L. Centurioni, **S. Dong**, E. A. D'Asaro, C. Eriksen, D.M. Fratantoni, B. A. Hodges, V. Hormann, W.S. Kessler, C.M. Lee, S.C. Riser, D. L. VOLKOV, 2017: Autonomous multi-platform observations during the Salinity Processes in the Upper-ocean Regional Studies, *Oceanography*, 30(2):38-48 (doi:10.5670/oceanog.2017.218).

Lopez**,** H**.,** G. Goni**,** and **S. Dong**, 2017: A reconstructed South Atlantic Meridional Overturning Circulation time series since 1870**.** *Geophysical Research Letter*, 44(7):3309-3318 (doi:10.1002/2017GL073227).

Meinen, C.S**.,** S.L. Garzoli**,** R.C. Perez**,** E. Campos, A. Piola, M.P. Chidichimo, **S. Dong**, and O. Sato, 2017: Characteristics and causes of Deep Western Boundary Current transport variability at 34.5°S during 2009-2014. *Ocean Science*, 13:175-194 (doi:10.5194/os-13-175-2017).

Baringer, M.O., M. Lankhorst, D. Volkov, S. Garzoli, **S. Dong**, U. Send, and C.S. Meinen, 2016: Meridional overturning circulation observations in the North Atlantic Ocean. In State of the Climate in 2015, J. Blunden and D.S. Arndt (eds.). *Bull. Am. Meteorol. Soc*., 97(8):S84-S87.

Cheng, L., J. Abraham, G. Goni, T. Boyer, S. Wijffels, R. Cowley, V. Gouretski, F. Reseghetti, S. Kizu, **S. Dong**, F. Bringas, M. Goes, L. Houpert, J. Sprintall, and J. Zhu, 2016: Fourth XBT Science Workshop progress report: making consensus and establishing best practices to reduce XBT biases. *Bull. Am. Met. Soc*., 97(6):924-933, (doi:10.1175/BAMS-D-15-00031.1).

Lopez, H., **S. Dong**, S.-K. Lee, and E. Campos, 2016: Remote influence of interdecadal Pacific Oscillation on the South Atlantic Meridional Overturning Circulation variability. Geophys. Res. Lett., 43(15):8250 - 8258, doi:10.1002/2016GL069067.

Lopez, H., **S. Dong**, S.-K. Lee, and G. Goni, 2016: Decadal Modulations of Interhemispheric Global Atmospheric Circulations and Monsoons by the South Atlantic Meridional Overturning Circulation. J. Clim., 29(5):1831 - 1851, (doi:10.1175/JCLI-D-15-0491.1).

Baringer, M. O., W. E. Johns, W. R. Hobbs, S. Garzoli, **S. Dong**, J. Willis, 2015: [Global Oceans] Meridional Oceanic Heat Transport in the Atlantic Ocean, [in "State of the Climate in 2014"]. *Bull. Am. Met. Soc*., **96**(7), S78-S80.

Dong, S., G. J. Goni, and R. Lumpkin, 2015: Mixed-Layer Salinity Budget in the SPURS Region on Seasonal to Interannual Time Scales. *Oceanography*, Vol. 28 (1), 78-85, doi:10.5670/oceanog.2015.05.

Dong, S., G. Goni, and F. Bringas, 2015: Temporal Variability of the South Atlantic Meridional Overturning Circulation Between 20°S and 35°S. *Geophys. Res. Lett*.42, 7655-7662.

Garzoli, S. L., **S. Dong**, R. Fine, C. Meinen, R. C. Perez, C. Schmid, E. van Sebille, and Q. Yao, 2015: The fate of the Deep Western Boundary Current in the South Atlantic. *Deep-Sea Res., Part I*. doi: 10.1016/j.dsr.2015.05.008.

Goes, M., G. J. Goni, and **S. Dong**, 2015: An optimal XBT-based monitoring system for the South Atlantic Meridional Overturning Circulation at 34S. *J. Geophys. Res.*, 120, 1,161-181, doi:10.1002/2014JC010202.

Perez, R., M. O. Baringer, **S. Dong**, S. L. Garzoli, M. Goes, G. J. Goni, R. Lumpkin, C. S. Meinen, R. Msadek, U. Rivero, 2015: Measuring the Atlantic Meridional Overturning Circulation. *Mar. Tech. Sci. J.*, 49(2), 167-177, doi:10.4031/MTSJ.49.2.14.

Ansorge I., M. Baringer, E. Campos, **S. Dong**, Rana A. Fine, S. Garzoli , G. Goni, C. Meinen, R. Perez, Alberto Piola, Michael Roberts, Sabrina Speich, Janet Sprintall, Thierry Terre, and Marcel Van den Berg, 2014: "Bridging the Atlantic," *EOS*, Transactions, American Geophysical Union, 95(6):53-54, doi:10.1002/2014EO060001.

Baringer, M. O., W. E. Johns , S. Garzoli, **S. Dong**, D. Volkov, W. R. Hobbs, J. Willis, 2014: [Global Oceans] Meridional Oceanic Heat Transport in the Atlantic Ocean [in "State of the Climate in 2013"]. *Bull. Amer. Meteor. Soc*., 95(7), S69-71.

Domingues, R., G. Goni, S. Swart, and **S. Dong**, 2014: Wind forced variability of the Antarctic Circumpolar Current south of Africa between 1993-2010. *J. Geophys. Res.*, 119, 1123-1145.

Dong, S., M. O. Baringer, G. J. Goni, C. S. Meinen, and S. L. Garzoli, 2014: Seasonal variations in the South Atlantic Meridional Overturning Circulation from observations and numerical models. *Geophys. Res. Lett*., 41, 4611-4618.

Meinen, C. S., S. Speich, R. C. Perez, **S. Dong**, A. R. Piola, S. L. Garzoli, M. Baringer, S. Gladyshev, and E. Campos, 2013: Temporal variability of the meridional overturning circulation at 34.5°S: Preliminary results from two boundary arrays in the South Atlantic. *J. Geophys. Res.*, 118, 6461-6478.

Dong, S., and K. A. Kelly, 2013: How Well Do Climate Models Reproduce North Atlantic Subtropical Mode Water? J. *Phys. Oceanogr*., 43, 2230 - 2244.

Kelly, K.A., and **S. Dong**, 2013: The Contributions of atmosphere and ocean to North Atlantic Subtropical Mode Water volume anomalies. *Deep-Sea Res*., 91:111-127.

Baringer, M. O., W. E. Johns, G. McCarthy, J. Willis, S. Garzoli, M. Lankhorst, C. S. Meinen, U. Send, W. R. Hobbs, S. A. Cunningham, D. Rayner, D. A. Smeed, T. O. Kanzow, P. Heimbach, E. Frajka-Williams, A. Macdonald, **S. Dong** and J. Marotzke, 2013: [Global Oceans] Meridional Overturning Circulation and Heat Transport Observations in the Atlantic Ocean [in State of the Climate in 2011], *Bull. Am. Met. Soc*., 94(8), S65-68.

Garzoli, S. L., M. O. Baringer, **S. Dong**, R. C. Perez, and Q. Yao, 2012. South Atlantic meridional fluxes. *Deep-Sea Res.*, 71:21-32, doi:10.1016/j.dsr.2012.09.003.

Wang, C., **S. Dong**, A. T. Evan, G.R. Foltz, and S.-K. Lee, 2012: Multi-decadal covariability of North Atlantic sea surface temperature, African dust, Sahel rainfall and Atlantic hurricanes. *J. Clim*., 25:5404-5415, doi:10.1175/JCLI-D-11-00413.1

Dong, S., M. Baringer, G. Goni, and S. Garzoli, 2011: Importance of the assimilation of Argo Float Measurements on the Meridional Overturning Circulation in the South Atlantic.*Geophys. Res. Lett*., 38, L18603, doi:10.1029/2011GL048982.

Dong, S., S. Garzoli, and M. Baringer, 2011: The role of inter-ocean exchanges on decadal variations of the northward heat transport in the South Atlantic. *J. Phys. Oceanogr.*, 41:1498-1511.

Dong, S., S. T. Gille, J. Sprintall, and E.J. Fetzer, 2010: Assessing the potential of Atmospheric Infrared Sounder (AIRS) surface temperature and relative humidity in turbulent heat flux estimates in the Southern Ocean. *J. Geophys. Res*, 115,C05013, doi:10.1029/2009JC005542.

Wang, C., and **S. Dong**, 2010: Is the basin-wide warming in the North Atlantic Ocean related to atmospheric carbon dioxide and global warming? *Geophys. Res. Lett.,* 37, L08707, doi:10.1029/2010GL042743.

Wang, C., **S. Dong**, and E. Munoz, 2010: Seawater density variations in the North Atlantic and the Atlantic meridional overturning circulation. *Climate Dynamics*, 34, 953-968, doi:10.1007/s00382-009-0560-5.

Dong, S. S. L. Garzoli, M. O. Baringer, C. S. Meinen, and G. J. Goni, 2009: The Atlantic Meridional Overturning Circulation and its Northward Heat Transport in the South Atlantic. *Geophys. Res.Lett*., 36, L20606, doi:10.1029/2009GL039356.

Dong, S., S. L. Garzoli, and M. O. Baringer, 2009: An Assessment of the Seasonal Mixed-Layer Salinity Budget in the Southern Ocean. *J. Geophys. Res*., 114, C12001, doi:10.1029/2008JC005258.

Wang, C., Z. Song, F. Qiao, and **S. Dong**, 2009: What Signals Are Removed and Retained by Using an Anomaly Field in Climatic Research? *International Journal of Climatology,* Vol. 2009, 7pp, doi:10.1155/2009/329754.

Xu, Y., J. Li, and **S. Dong**, 2009: Ocean circulation from altimetry: progress and challenges. *Ocean Circulation and El Nino: New research*. Edited by F. Columbus, Nova Science Publishers, Inc.

Dong S., J. Sprintall, S. T. Gille, and L. Talley, 2008: Southern Ocean mixed depth from Argo float profiles. *J. Geophys. Res.*, 113, C06013, doi:10.1029/2006JC004051.

Dong S., S. Hautala, and K. A. Kelly, 2007: Interannual variations in upper ocean heat content and heat transport convergence in the Western North Atlantic, *J. Phys. Oceanogr*., 37, 2682-2697.

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Dong S., J. Sprintall, and S. T. Gille, 2006: Location of the Polar Front from AMSR-E Satellite sea surface temperature measurements, *J. Phys. Oceanogr.*, 36, 2075-2089.

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Kelly, K. A., and **S. Dong**, 2004: The Relationship of Western Boundary Current Heat Transport and Storage to Mid-Latitude Ocean-Atmosphere Interaction, in *Earth's Climate: The Ocean-Atmosphere Interaction,* edited by C. Wang, S.-P. Xie, and J. A. Carton, pp. 347-363, American Geophysical Union Geophysical Monograph 147.

Dong S., and K. A. Kelly, 2004: Heat budget in the Gulf Stream region: the importance of heat storage and advection. *Journal of Physical Oceanography,* 34:1214-1231.

Dong S., and K. A. Kelly, 2003: Annual and interannual variations in geostrophic velocity in the Middle Atlantic Bight. *J. Geophys. Res.,*108(c6), doi:10.1029/2002JC001357, 3172-3180.

Frankignoul C., G. D. Coetlogon, T. M. Joyce, and **S. Dong**, 2001: Gulf Stream variability and ocean - atmosphere interaction. *J. Phys. Oceanogr.,* 31:3516-3529.

Du, Y., H. Lu, **S. Dong**, and T. Ling, 1999: Observation and fuzzy mathematics analysis of the skin-bulk temperature difference in the coastal area of Qingdao. *Oceanologia et Limnologia Sinica,* 30(1):81-87.

Presentations and Seminars (recent years)

An invited talk at Stony Brook University on "Slow down of the Gulf Stream during 1993-2016" (Oct. 2019).

2019 OOMD Community Workshop (June 2019):

1. "Slow Down of the Gulf Stream during 1993-2016"
2. "Contributions of AOML XBT Transects to Understanding of the State of the Ocean and Links to Weather and Climate"

Oleander Workshop (November 2018): "Slow Down of the Gulf Stream during 1993-2016"

25 Years of Progress in Radar Altimetry" Symposium (September 2018):

1. "AMOC from Space: The Importance of Synergy of Satellite and In Situ Measurements"
2. "Has the Gulf Stream Slowed Down during 1993-2016?"

2018 International AMOC Science Meeting (July 2018): "SAMOC Variations during the Past 24 Years and their Role in Ocean Heat Content Changes"

2018 Ocean Science Meeting (February 2018): "What the Gulf Stream Variability from 20+ Years XBT and Satellite Altimeter Measurements tells us about the sea level changes in the East Coast of the United States"

2017 AGU Fall Meeting (December 2017): "Near-surface Salinity and Temperature Structure Observed with Dual-Sensor Drifters in the Subtropical South Pacific"

2017 Ocean Surface Topography Science Team Meeting (October 2017, Miami): "Temporal and Spatial Changes in the Dominance of the Wind-driven and Density-driven processes in the South Atlantic MOC"

Global Ocean Salinity and the Water Cycle Workshop, May 22-26, 2017, WHOI, Woods Hole, MA: "Near-surface Salinity and Temperature Structure Observed with Dual-Sensor Drifters in the Subtropical South Pacific".

Ocean Observations and Monitoring Division Community Workshop, May 9 -11, 2017, Silver Spring, MD: "SAMOC: Real-time monitoring and impact on global weather".

European Geosciences Union General Assembly, April 23 - 28, 2017, Vienna, Austria:

1. Near-surface Salinity and Temperature Structure Observed with Dual-Sensor Drifters in the Subtropical South Pacific.
2. Altimetry-derived South Atlantic Meridional Overturning Circulation between 20°S and 35°S Since 1993.

Awards and Honors

- Undergraduate Scholarship: Ocean University of China, China, 1990-1994.
- Outstanding Student Award: Shandong Province, China, 1993.
- Excellent Graduate Award: Ocean University of China, China, 1994.
- He Chongben Fellowship: Ocean University of China, China, 1994.
- Outstanding Graduate Student Fellowship: Ocean University of China, 1995/1996.
- Invitation to Physical Oceanography Dissertation Symposium II, 2003, Hawaii
- Invitation to DISCCRS (Dissertations Initiative for the Advancement of Climate Change Research) symposium, March 26 – April 2, 2006, Pacific grove, California.
- Invitation to MPOWIR Pattullo Conference, May, 2008, Charleston, South Carolina.

Panels and Committees

- Served as a panel member for NASA scientific program in 2014.
- Member of NASA OSST Team (2014-2018).
- Member of NASA OSTST Team (2012-2017).
- Member of US AMOC Team (2010-present)
- Member of the AMS Air-Sea Interaction Committee (2009 – 2015).
- Member of XBT Science Team
- Member of XBT (SOOPIP) Team

Synergistic Activities

- Convener for the session "Advances in understanding of the meridional overturning circulation in the South Atlantic: Variability, Mechanisms, and Impacts" at 2020 Ocean Sciences Meeting.
- Co-convener for the IAPSO session at the 2015 IUGG Symposium (2015).
- Co-organizer for air-sea interaction session at the AMS 2015 Annual Meeting (2014).
- Junior member of Mentoring Physical Oceanography Women to Increase Retention (MPOWIR) Mentoring Group (2009 – 2013).
- Co-organizer of a SAMOC group meeting for logistics and planning of a trans-basin MOC monitoring array along 34.5°S in the Atlantic (2013).
- Served as science judge for Student Presentation Award at the AMS 18th ASI Conference (2012)
- Organizer of the seminar series for the Physical Oceanography Research Division at SIO for 2004-2005 academic year.
- Member of American Geophysical Union.
- Served as a reviewer for scientific journals and funding agencies (2004-present).