

Stephen C. Riser
Refereed Publications

1. Riser, S.C., H.T. Rossby, and H.J. Freeland (1978) Mesoscale motions near the deep western boundary of the N. Atlantic. *Deep-Sea Research*, **25**, 1179-1191.
2. Riser, S.C. (1982) The quasi-Lagrangian nature of SOFAR floats. *Deep-Sea Research*, **29**, 1587-1602.
3. Riser, S.C. and H.T. Rossby (1983) Quasi-Lagrangian structure and variability of the subtropical western North Atlantic circulation. *Journal of Marine Research*, **41**, 127–162.
4. Rossby, H.T., S.C. Riser and A. J. Mariano (1983) The western North Atlantic – a Lagrangian viewpoint. In: *Eddies in Marine Science*, A. Robinson (ed.), Springer-Verlag, Berlin Heidelberg , pp. 66-91.
5. McWilliams, J.C., E.D. Brown, H.L. Bryden, C.C. Ebbesmeyer, B.A. Elliot, R.H. Heinmiller, B.L.Hua, K.D. Leaman, E.J. Lindstrom, J.R. Luyten, S.E. McDowell, W.B. Owens, H. Perkins, J.F. Price, L. Regier, S.C. Riser, H.T. Rossby, T.B. Sanford, C.Y. Shen, B.A. Taft, and J.C. Van Leer. (1983) The local dynamics of eddies in the western North Atlantic. In: *Eddies in Marine Science*, A.R. Robinson (ed.), Springer-Verlag, Berlin Heidelberg, pp. 92-113.
6. Ebbesmeyer, C.C., B.A. Taft, J.C. McWilliams, C. Shen, S.C. Riser, H.T. Rossby, P.E. Biscaye, and H.G. Ostlund (1986) Detection, structure, and origin of extreme anomalies in a western N. Atlantic oceanographic section. *Journal of Physical Oceanography*, **16**, 591-612.
7. Riser, S.C., W.B. Owens, H.T. Rossby, and C.C. Ebbesmeyer (1986) The structure, dynamics, and origin of a small-scale lens of water in the western N. Atlantic thermocline. *Journal of Physical Oceanography*, **16**, 572-590.
8. Holloway, G., S.C. Riser, and D. Ramsden (1986) Tracer anomaly evolution in the flow field of an isolated eddy. *Dynamics of Atmospheres and Oceans*, **10**, 165-184.
9. Hautala, S.L. and S.C. Riser (1989) A simple model of abyssal circulation, including effects of wind, buoyancy, and topography. *Journal of Physical Oceanography*, **19**, 596-611.
10. Lozier, M.S. and S.C. Riser (1989) Potential vorticity dynamics of boundary currents in a quasi-geostrophic ocean. *Journal of Physical Oceanography*, **19**, 1373-1396.
11. Lozier, M.S. and S.C. Riser (1990) Potential vorticity sources and sinks in a quasi-geostrophic ocean: beyond western boundary currents. *Journal of Physical Oceanography*, **20**, 1608-1627.
12. Hautala, S.L. and S.C. Riser (1993) A nonconservative beta-spiral determination of the deep circulation in the eastern South Pacific. *Journal of Physical Oceanography*, **23**, 1975-2000.
13. Swift, D.D and S.C. Riser (1994) RAFOS floats: defining and targeting surfaces of neutral buoyancy. *Journal of Atmospheric and Oceanic Technology*, **11**, 1079-1092.
14. Riser, S.C., M. Warner, and G. Yurasov (1999) Circulation and mixing of water masses of Tatar Strait and the northwestern boundary region of the Japan Sea. *Journal of Oceanography*, **55**, 133-156.
15. Gladyshev, S., S. Martin, S. Riser, and A. Figurkin (2000) Dense water production on the northern Okhotsk shelves: comparison of ship-based spring-summer observations for 1996 and 1997 with satellite observations. *Journal of Geophysical Research*, **105**, 26281-26299.
16. Straneo, F. M. Kawase, and S. Riser (2002) Idealized models of slantwise convection in baroclinic flow. *Journal of Physical Oceanography*, **32**, 558-572.

17. Talley, L., V. Lobanov, A. Salyuk, and S. Riser (2003) Deep convection and brine rejection in the Japan Sea. *Geophysical Research Letters*, **30** (4), 1159, doi:10.1029/2002GLO16451, 2003.
18. Ohshima, K., M. Itoh, Y. Fukamachi, and S. Riser (2004) Sverdrup balance and the cyclonic gyre in the Sea of Okhotsk. *Journal of Physical Oceanography*, **34**, 513-525.
19. Johnson, G., P. Stabeno, and S. Riser (2004) The Bering Slope Current system revisited. *Journal of Physical Oceanography*, **32**, 558-572.
20. Kwon, Y-O and S.C. Riser (2004) Variability of subtropical mode water in the N. Atlantic: a history of ocean-atmosphere interaction 1961-2000. *Geophysical Research Letters*, **31**, L19307.
21. Ohshima, K., D. Simizu, M. Itoh, G. Mizuta, Y. Fukamachi, S. Riser, and M. Wakatsuchi (2004) Sverdrup balance and the cyclonic gyre in the Sea of Okhotsk. *Journal of Physical Oceanography*, **34**, 513-525.
22. Roemmich, D., S. Riser, R. Davis, and Y. Desaubies (2004) Autonomous profiling floats—workhorses for broad-scale observations. *Marine Technology Society Journal*, **38**, 21-29.
23. Fukamachi, Y., G. Mizuta, K. Ohshima, L. Talley, S. Riser, and M. Wakatsuchi (2004) Transport and modification processes of dense shelf water revealed from long-term moorings of Sakhalin in the Sea of Okhotsk. *Journal of Geophysical Research-Oceans*, **109**, doi:10.1029/2003JC001906.
24. Kwon, Y-O and S.C. Riser (2005) General circulation of the western subtropical N. Atlantic observed using profiling floats. *Journal of Geophysical Research*, **110**, C10012.
25. Ohshima, K., S. Riser, and M. Wakatsuchi (2005) Mixed layer evolution in the Sea of Okhotsk observed with profiling floats and its relation to sea ice formation. *Geophysical Research Letters*, **32**, L06607.
26. Riser, S.C. and G. Jacobs (2005) The Japan/East Sea: a historical and scientific introduction. *Deep-Sea Research II*, **52**, 1359-1362.
27. Park, J.J., K. Kim, B. King, and S. Riser (2005) An advanced method to estimate deep currents from profiling floats. *Journal of Atmospheric and Oceanic Technology*, **22**, 1294-1304.
28. Peng, G., E. Chassignet, Y-O Kwon, and S. Riser (2006) Investigation of variability of the N. Atlantic subtropical mode water using profiling float data and numerical model output. *Ocean Modelling*, **13**, 65-85.
29. Korotaev, G., T. Oguz, and S. Riser (2006) Intermediate and deep currents of the Black Sea obtained from autonomous profiling floats. *Deep-Sea Research II*, **53**, 1901-1910.
30. Danchenkov, M., V. Lobanov, S. Riser, K. Kim, and J-H Yoon (2006) A history of the physical oceanography of the Japan/East Sea. *Oceanography*, **19**, 18-31.
31. Roemmich, D., J. Gilson, R. Davis, P. Sutton, S. Wijffels, and S. Riser (2007) Decadal spinup of the S. Pacific subtropical gyre. *Journal of Physical Oceanography*, **37**, 162-173.
32. Johnson, K., J. Needoba, S. Riser, and W. Showers (2007) Chemical sensor networks for the aquatic environment. *Chemical Reviews*, **107**, 623-640.
33. Riser, S.C. and K.S. Johnson (2008) Net production of oxygen in the subtropical ocean. *Nature*, **451**, 323-325.
34. Riser, S.C., L. Ren, and A. Wong (2008) Salinity in Argo: a modern view of a changing ocean. *Oceanography*, **21**, 56-67.
35. Riser, S.C., J. Nystuen, and A. Rogers (2008) Monsoon effects in the Bay of Bengal inferred from profiling float-based measurements of wind speed and rainfall. *Limnology and Oceanography*, **53**, 2080-2093.

36. Boss, E., D. Swift, L. Taylor, P. Brickley, R. Zaneveld, S.C. Riser, and M.J. Perry (2008) Robotic in-situ and satellite based observations of pigment and particle distributions in the western North Atlantic. *Limnology and Oceanography*, **53**, 2112-2122.
37. Martz, T., K. Johnson, and S.C. Riser (2008) Ocean metabolism observed with oxygen sensors on profiling floats in the Pacific. *Limnology and Oceanography*, **53**, 2094-2111.
38. You, Y., T. Rossby, W. Zenk, S. Riser, et al. (2009) Indonesian throughflow: Investigation of Pacific Source Water. In: *Climate Alert: Climate Change Monitoring and Strategy*. Pp. 210-270. Wiley
39. Ren, L. and S. Riser (2009) Seasonal salt budget in the northeast Pacific Ocean. *Journal of Geophysical Research-Oceans*, **114**, C12004, doi:10.1029/2009JC005307.
40. Roemmich, D., G. Johnson, S. Riser, R. Davis, J. Gilson, W.B. Owens, and S. Garzoli (2009) The Argo program: observing the global ocean with profiling floats. *Oceanography*, **22**, 34-43.
41. Roemmich, D., S. Riser, et al. (2009) Argo: The challenge of continuing 10 years of progress. *Oceanography*, **22**, 46-55.
42. Johnson, K., S. Riser et al. (2009) Observing biogeochemical cycles at global scales with profiling floats and gliders. *Oceanography*, **22**, 216-225.
43. Johnson, K., S. Riser et al. (2009) Observing biogeochemical cycles at global scales with profiling floats and gliders. *Oceanography*, **22**, 216-225.
44. Ren, L. and S. Riser (2010) Observations of decadal-scale salinity changes in the thermocline of the North Pacific Ocean. *Deep-Sea Research II*, **57**, 1161-1170.
45. Ohshima, K., T. Nakanowatari, S. Riser, and M. Wakatsuchi (2010) Seasonal variation in the in- and outflow of the Okhotsk Sea with the North Pacific. *Deep-Sea Research II*, **57**, 1247-1256.
46. Ren, L. and S. Riser (2010) Observations of decadal-scale salinity changes in the thermocline of the North Pacific Ocean. *Deep-Sea Research II*, **57**, 1161-1170.
47. Johnson, K., S. Riser, and D. Karl (2010) Nitrate supply from deep to near-surface waters of the North Pacific subtropical gyre. *Nature*, **465**, 1062-1065. doi:10.1038/nature09170.
48. Wong, A. and S. Riser (2011) Profiling float observations of the upper ocean under sea ice off the Wilkes Land coast of Antarctica. *Journal of Physical Oceanography*, **41**, 1102-1115. doi:10.1175/2011JPO4516.1.
49. Wu, L., Z. Jing, S. Riser, and M. Visbeck (2011) Seasonal and spatial variations of Southern Ocean diapycnal mixing from Argo profiling floats. *Nature Geoscience*, **4**, 363-366. doi:10.1038/NGE01156.
50. Ravichandran, M., M. Girishkumar, and S. Riser (2012) Observed variability in chlorophyll-a using profiling floats in the southwestern Arabian Sea. *Deep-Sea Research I*, **65**, 15-25.
51. Johnson, K., L. Colletti, C. Sakamoto, H. Jannasch, D. Swift, and S. Riser (2013) Long-term nitrate measurements in the ocean using the in situ ultraviolet spectrophotometer: sensor integration into the APEX profiling float. *Journal of Atmospheric and Oceanic Technology*, **30**, 1854-1866.

52. Takeshita, Y., T. Martz, K. Johnson, J. Plant, D. Gilbert, S. Riser, C. Neill, and B. Tillbrook (2013) A climatology-based quality control procedure for profiling float-based oxygen data. *Journal of Geophysical Research*, **118**(10), 5640-5650.
53. Wong, A. and S. Riser (2013) Modified shelf water on the continental slope north of Mac Robertson Land, East Antarctica. *Geophysical Research Letters*, **40**, 6186-6190.
54. Riser, S. and S. Lozier (2013) Rethinking the Gulf Stream. *Scientific American*, **308**(2), 50-55.
55. Gray, A., and S. Riser (2014) A global analysis of Sverdrup Balance using absolute geostrophic velocities from Argo. *Journal of Physical Oceanography*, **44**, 1213-1229.
56. Ohshima, K., T. Nakanowatari, S. Riser, Y. Volkov, and M. Wakatsuchi (2014) Freshening and dense shelf water reduction in the Okhotsk Sea linked with sea ice decline. *Progress in Oceanography*, **126**, 71-79.
57. Hennon, T., S. Riser, and M. Alford (2014) Observations of internal gravity waves from Argo floats. *Journal of Physical Oceanography*, **44**, 2370-2386.
58. Drucker, R. and S. Riser (2014) Validation of Aquarius sea surface salinity with Argo: analysis of error due to depth of measurement and vertical salinity stratification. *Journal of Geophysical Research-Oceans*, **119**, 4626-4637.
59. Anderson, J. and S. Riser (2014) Near-surface variability of temperature and salinity in the tropical and subtropical ocean: observations from profiling floats. *Journal of Geophysical Research-Oceans*, **119**, doi:10.1002/2014JC010112.
60. Gray, A. and S. Riser (2015) A method for multiscale optimal analysis with application to Argo data. *Journal of Geophysical Research-Oceans*, **120**, 4340-4356.
61. Riser, S., J. Anderson, A. Shcherbina, and E. D'Asaro (2015) Variability in near-surface salinity from hours to decades in the eastern North Atlantic: the SPURS region. *Oceanography*, **28**(1), 66-77.
62. Farrar, J., L. Rainville, A. Plueddemann, W. Kessler, C. Lee, B. Hodges, R. Schmitt, J. Edson, S. Riser, C. Eriksen, and D. Fratantoni (2015) Salinity and temperature balances at the SPURS central mooring during fall and winter. *Oceanography* **28**(1):56-65.
63. Yang, J., S. Riser, J. Nystuen, W. Asher, and A. Jessup (2015) Regional rainfall measurements using the Passive Aquatic Listener during the SPURS field campaign. *Oceanography* **28**(1):124-133.
64. Shcherbina, A., E. D'Asaro, S. Riser, and W. Kessler (2015) Variability and interleaving of upper-ocean water masses surrounding the North Atlantic salinity maximum. *Oceanography* **28**(1):106-113.
65. Johnson, K., J. Plant, S. Riser, and D. Gilbert (2015) Air osyben calibration of oxygen Optodes on a profiling float array. *Journal of Atmospheric and Oceanic Technology*, **32**, 2160-2172.
66. Riser, S. et al. (28 co-authors) (2016) Fifteen years of ocean observations with the global Argo array. *Nature Climate Change*, doi: 10.1038/NCLIMATE2872, 145I-153.
67. Williams, N., L. Juranek, K. Johnson, R. Feely, S. Riser, L. Talley, J. Russell, J. Sarmiento, and R. Wanninkhof (2016) Empirical algorithms to estimate water column pH in the Southern Ocean. *Geophysical Research Letters*, doi: 10.1002/2016GL068539.
68. Hennon, T., S. Riser, and S. Mecking (2016) Profiling float-based observations of net respiration beneath the mixed layer. *Global Biogeochemical Cycles*, **30**, 920-932.

69. Wilson, E. and S. Riser (2016) An assessment of the seasonal salinity budget for the upper Bay of Bengal. *Journal of Physical Oceanography*, **46**,1361-1376.
70. Plant, J., K. Johnson, C. Sakamoto, H. Jannasch, L. Coletti, S. Riser, and D. Swift (2016) Net community production at Ocean Station Papa observed with nitrate and oxygen sensors on profiling floats. *Global Biogeochemical Cycles*, **30**, 859-879.
71. Bushinsky, S., S. Emerson, S. Riser, and D. Swift (2016) Accurate oxygen measurements on modified Argo floats using in situ air calibrations. *Limnology and Oceanography Methods*, **14**, 451-506.
72. Drucker, R. and S. Riser (2016) In situ phase-domain calibration of oxygen Optodes on profiling floats. *Methods in Oceanography*, **17**, 296-318.
73. Williams, N., L. Juranek, R. Feely, K. Johnson, J. Sarmiento, L. Talley, A. Dickson, A. Gray, R. Wanninkhof, J. Russell, S. Riser, and Y. Takeshita (2017) Calculating surface ocean pCO₂ from biogeochemical Argo floats equipped with pH: an uncertainty analysis. *Global Biogeochemical Cycles*, **31**, 591-604.
74. Johnson, K., J. Plant, L. Coletti, H Jannasch, C. Sakamoto, S. Riser, D. Swift, N. Williams, E. Boss, N. Haentjens, L. Talley, and J. Sarmiento (2017) Biogeochemical sensor performance in the SOCCOM profiling float array. *Journal of Geophysical Research-Oceans*, **122**, 6416-6436.
75. Jayne, S., D. Roemmich, N. Zilberman, S. Riser, K. Johnson, G. Johnson, and S. Piotrowicz (2017) The Argo program: present and future. *Oceanography*, **30**, 18-28.
76. Centurioni, L., S. Riser, et al. (2017) Northern Arabian Sea Circulation-autonomous research (NASCar): a research initiative based on autonomous sensors. *Oceanography*, **30**, 74-87.
77. Lindstrom, E., S. Riser, et al. (2017) Autonomous multi-platform observations during the Salinity Processes in the Upper ocean Regional Study (SPURS). *Oceanography*, **30**, 38-48.
78. Russell, J., I. Kamenkovich, C. Bitz, R. Ferrari, S. Gille, P. Goodman, R. Hallberg, K. Johnson, I. Marinov, M. Mazloff, S. Riser, J. Sarmiento, K. Speer, L. Talley, and R. Wanninkhof (2018) Metrics for the evaluation of the Southern Ocean in coupled climate and earth system models. *Journal of Geophysical Research-Oceans*, **123**, doi 10.1002/2017JC013461.
79. Riser, S., D. Swift, and R. Drucker (2018) Profiling floats in SOCCOM: technical capabilities for studying the Southern Ocean. *Journal of Geophysical Research-Oceans*. doi 10.1002/2017/JC013419.
80. Chamberlain, P., L. Talley, M. Mazloff, S. Riser, K. Speer, A. Gray (2018) Observing the ice covered Weddell Sea with profiling floats: position uncertainties and correlation statistics. *Journal of Geophysical Research-Oceans*, **123**, 8383-8410, doi:10.1029/2017JC012990.
81. Gray, A., K. Johnson, S. Bushinsky, S. Riser, J. Russell, et al. (2018) A Southern Ocean source of carbon dioxide detected with autonomous biogeochemical floats. *Geophysical Research Letters*, **45**, 9049–9057. doi:10.1029/2018GL078013.
82. Mayot, N., P. Matrai, I. Ellingsen, M. Steele, K. Johnson, S. Riser, and D. Swift (2018) Assessing phytoplankton activities in the seasonal ice zone of the Greenland Sea over an annual cycle. *Journal of Geophysical Research-Oceans*, **123**, 8004-8025.
83. Fawcett, S., K. Johnson, S. Riser, N. Van Oostende, and D. Sigman (2018) Low-nutrient organic matter in the Sargasso Sea thermocline: a hypothesis for its role, identity, and carbon cycle implications. *Marine Chemistry*, **207**, 108-123.
84. Johnson, K., S. Riser, and M. Ravichandran (2019) Oxygen variability controls denitrification in the Bay of Bengal oxygen minimum zone. *Geophysical Research Letters*, **46**(2), doi:10.1029/2018GL079881.
86. Talley, L., I. Rosso, S. Riser, et al. (2019) Southern Ocean biogeochemical float deployment strategies, with example from the Greenwich Meridian line (GO-SHIP A12). *Journal of Geophysical Research-Oceans*, **124**, doi:10.1029/2018JC014059.

87. Nakanowatari, T., K. Ohshima, and S. Riser (2019) Seasonal changes of water masses, circulation, and dynamic response of the Kuril Basin of the Sea of Okhotsk. *Deep-Sea Research, Part I*, **144**, 115-131.
88. Wilson, E., S. Riser, E. Campbell, and A. Wong (2019) Winter upper ocean stability and ice-ocean feedbacks in the sea-ice-covered Southern Ocean. *Journal of Physical Oceanography*, **49**, 1099-1117.
89. Campbell, E., E. Wilson, S. Riser et al. (7 co-authors) (2019) Southern Hemisphere climate anomalies drive Antarctic sea ice openings. *Nature*, **570**, 319-325, doi:10.1038/s41586-019-1294-0.
90. Riser, S., J. Yang, and R. Drucker (2019) Observations of large-scale rainfall, wind, and sea surface salinity variability in the eastern tropical Pacific. *Oceanography*, **32**, 42-49, doi:10.5670/oceanog.2019.211.
91. Porter, R., S. Springer, H. Fricker, S. Riser, and R. Bell (2019) Evolution of the seasonal surface mixed layer of the Ross Sea, Antarctica observed with autonomous profiling floats. *Journal of Geophysical Research-Oceans*, **124**, doi:10.1029/2018JC014683.
92. Roemmich, D., ...S. Riser et al. (2019) On the future of Argo: a global, full-depth, multi-disciplinary array. *Frontiers in Marine Science*, **6**, doi:10.3389/fmars.2019.00439.
93. Bittig, H.,S. Riser et al. (2019) A BGC-Argo guide: planning, deployment, data handling, and usage. *Frontiers in Marine Science*, **6**, doi:10.3389/fmars.2019/00502.
94. Echols, R. and S. Riser (2020) The impact of barrier layers on Arabian Sea surface temperature variability. *Geophysical Research Letters*, **47**, doi:10.1029/2019GL085290.
95. Echols, R. and S. Riser (2020) Spice and barrier layers: an Arabian Sea case study. *Journal of Physical Oceanography*, **50**, doi:10.1175/JPO-D-19-0215.1.
96. Chai, F., K. Johnson, H. Claustre, X. Xing, Y. Wang, E. Boss, S. Riser, K. Fennel, O. Scofield, and A. Sutton (2020) Monitoring ocean biogeochemistry with autonomous platforms. *Nature Reviews: Earth and Environment*, doi:10.1038/s43017-020-0053-y.
97. Wong, A., S. Wijffels, S. Riser et al. (2020) Argo data 1999-2019: Two million temperature-salinity profiles and subsurface velocity observations from a global array of profiling floats. *Frontiers in Marine Science*, **7**, doi: 10.3389/fmars.2020.00700.
98. Haumann, A., R. Moorman, S. Riser, et al. (2020) Supercooled Southern Ocean waters. *Geophysical Research Letters*, **47**(20), doi:10.1029/2020GL090242.
99. Scannell, H., G. Johnson, L. Thompson, and S. Riser (2020) Subsurface evolution and persistence of marine heatwaves in the Northeast Pacific. *Geophysical Research Letters*, **47**(23), doi:10.1029/2020GL090548.
100. D Hu, F Wang, J Sprintall, L Wu, S Riser, S Cravatte, A Gordon, L Zhang (2020) Review on observational studies of western tropical Pacific Ocean circulation and climate. *Journal of Oceanology and Limnology* **38** (4), 906-929.
101. Wang, T., F. Chai, X. Xing, J. Ning, W. Jiang, and S. Riser (2021) Influence of multi-scale dynamics on the vertical nitrate distribution around the Kuroshio Extension: An investigation based on BGC-Argo and satellite data. *Progress in Oceanography*, **193**, doi:10.1016/J.POCEAN.2021.102543.
102. Kishi, S., K. Ohshima, J. Hishioka, N. Isshiki, S. Hihashi, and S. Riser (2021). The prominent spring bloom and its relation to sea-ice melt in the Sea of Okhotsk, revealed by profiling floats. *Geophysical Research Letters*, **48**(6), doi:10.1029/2020GL091394.
103. Johnson, K., S. Hosoda, S. Jayne, P. Oke, S. Riser et al. (2021) Argo—Two Decades: Global Oceanography Revolutionized. *Annual Review of Marine Science* **2022**, **14**(2.1-2.25), doi 10.1146/annurev-marine-022521-102008.
104. Roemmich, D., L. Talley, N. Zilberman, E. Osborne, K.S. Johnson, L. Barbero, H.C. Bittig, N. Briggs, A. Fassbender, G.C. Johnson, B. King, E. McDonagh, S. Purkey, S. Riser, T. Suga, Y. Takeshita, V. Thierry, S. Wijffels (2022). The Technological, Scientific, and Sociological Revolution of Global Subsurface Ocean Observing. *Oceanography*. **34** (4), 2-8.
https://doi.org/10.5670/oceanog.2021.supplement.02-02.

105. Matsumoto, G., K.S. Johnson, S. Riser, L. Talley, S. Wijffels, R. Hotinski (2022). The Global Ocean Biogeochemistry (GO-BGC) Array of Profiling Floats to Observe Changing Ocean Chemistry and Biology. *Marine Technology Society Journal*. **56** (3), 122-123. <https://doi.org/10.4031/MTSJ.56.3.25>
106. Johnson, K. S., M. Mazloff, M. Bif, Y. Takeshita, H. Jannasch, T. Maurer, T., S. Riser et al. (2022). Carbon to nitrogen uptake ratios observed across the Southern Ocean by the SOCCOM profiling float array. *Journal of Geophysical Research: Oceans*, **127**, e2022JC018859. DOI:10.1029/2022JC018859
107. Prend, C., A. Gray, L. Talley, S. Gille, F. Haumann, K.S. Johnson, S. Riser, I. Rosso, J. Sauve, and J. Sarmiento (2022). Indo-Pacific sector dominates Southern Ocean carbon outgassing. *Global Biogeochemical Cycles*, **36**, e2021GB007226. DOI:10.1029/2021GB007226
108. J Yang J., J. Nystuen, S. Riser, and E. Thorsos (2022). Open ocean ambient noise data in the frequency band of 100 Hz–50 kHz from the Pacific Ocean. *Journal of the Acoustical Society of America Express Letters*, **3** (3), 036001.
109. Chamberlain, P., B. Cornuelle, L. Talley, K. Speer, C. Hancock, and S. Riser (2023). Acoustic float tracking with the Kalman smoother. *Journal o. Atmospheric and. Oceanic Technology*, **40**, 15-35. <https://doi.org/10.1175/JTECH-D-21-0063.1>.
110. Wilson, E., D. Bonan, A. Thompson, N. Armstrong, and S. Riser (2023). Mechanisms for abrupt summertime circumpolar surface warming in the Southern Ocean. *Journal of Climate*, **36**, 7025-7039. DOI: 10.1175/JCLI-D-22-0501.1
111. Alkire, M., and S. Riser (2023). Net community production in the Argentine Basin estimated from nitrate drawdown using biogeochemical Argo floats. *Journal of Geophysical Research: Oceans*, **128**, e2023JC019858. <https://doi.org/10.1029/2023JC019858>