

CURRICULUM VITAE

Janet Sprintall
Scripps Institution of Oceanography,
University of California, San Diego,
La Jolla CA 92093-0230
USA

phone: 1-858-822 0589
email: jsprintall@ucsd.edu
home page: <https://jsprintall.scrippsprofiles.ucsd.edu>

Education:

Griffith University, QLD, Australia; B.Sc. (First Class Honours), Environmental Science, 1985
University of Sydney, NSW, Australia; M.Sc., Physical Oceanography, 1988
University of Sydney, NSW, Australia; Ph.D., Physical Oceanography, 1992

Professional Appointments:

Research Oceanographer, Scripps Institution of Oceanography, 2007 – present
Educator (without salary), Scripps Institution of Oceanography, 2007 – present
Associate Research Oceanographer, Scripps Institution of Oceanography, 2001 – 2007
Assistant Research Oceanographer, Scripps Institution of Oceanography, 1995 – 2001
JIMO Postdoctoral Fellow, Scripps Institution of Oceanography, 1993-1995.
NRC Postdoctoral Associate, NOAA-PMEL Seattle, 1992-1993.

Awards and Distinctions:

2022: Asia Oceania Geosciences Society (AOGS) Axford Lecture
2021: American Meteorological Society Fellow
2015: Post Rouge Fellowship, Scientific Board of the Midi-Pyrenees Observatory, LEGOS, Toulouse, France.
2015: United States Antarctic Service Medal
2013: Marie Tharp Visiting Fellowship, Lamont Doherty Earth Observatory, New York, NY
1992-1993: National Research Council (NRC) Postdoctoral Fellowship Award, Seattle, WA
1989-1992: Commonwealth Postgraduate Fellowship (Australia)
1987-1988: CSIRO Postgraduate Fellowship (Australia)

Memberships:

American Geophysical Union, 1990 - present.
The Oceanography Society, 2009 - present
American Meteorological Society, 1997 – 2000; 2017 - present.
Asia Oceania Geosciences Society, 2018 - present

Publications:

Students and postdocs are underlined

1. Zhao, Z., **J. Sprintall**, Y. Du (2024). Large mixed layer salinity variation in the southern tropical Indian Ocean due to the blending of water masses. *Geophys. Res. Letters* (submitted July 2024)
2. Li, R., Y. Li, Y. Lyu, **J. Sprintall**, F. Wang (2024). Role of the Indian Ocean dynamics in the Indonesian Throughflow variability and extremes. *Nature Communications Earth and Environment* (submitted July 2024).
3. Hu, S., X. Lu, **J. Sprintall**, F. Wang (2024). Imminent rapid decline of the Indonesian Throughflow in response to increasing CO2 concentration. *Nature Communications* (submitted July 2024).
4. Chandler, M., N. V. Zilberman, **J. Sprintall** (2024). The deep western boundary current of the Southwest Pacific Basin: insights from Deep Argo. *J. Geophysical Research – Oceans*. (in press, August 2024)
5. Ayoub, N.K. María Paz Chidichimo, Xinyu Guo, Sung Yong Kim, Marjolaine Krug, Belén Martín Míguez, Tamaryn Morris, Moninya Roughan, **J. Sprintall**, Kiyoshi Tanaka, Robert E. Todd, John Wilkin, Enrique Álvarez-Fanjul, Magdalena Andres, Anthony Bosse, Christopher A. Edwards, Jonathan Gula, Colette G. Kerry, Yasumasa Miyazawa, Paolo Oddo, Eitarou Oka, Katherine D. Zaba, (2024). Observing ocean boundary currents: lessons learned from six regions with mature observational and modeling systems. *Oceanography*, 10.57670/oceanog.2024.504
6. **Sprintall, J.**, A. Biastoch, L. Gruenburg, and H. Phillips (2024). Chapter 9. Ocean basin connections, in Ummerhofer, C.C., & Hood, R.R. (Eds.), *The Indian Ocean and its role in the global climate system*, Elsevier. doi:10.1016/B978-0-12-822698-8.00003-2.
7. Hood, R.R., Ummerhofer, C.C., Phillips, H. and **Sprintall, J.** (2024). Chapter 1: Introduction to the Indian Ocean, in Ummerhofer, C.C., & Hood, R.R. (Eds.), *The Indian Ocean and its role in the global climate system*, Elsevier. doi:10.1016/B978-0-12-822698-8.00015-9.
8. Singh, S., **J. Sprintall**, A. Capotondi, and R. Rodrigues (2024), First international summer school on marine heatwaves. *BAMS*, <https://doi.org/10.1175/BAMS-D-23-0288.1>
9. **Sprintall, J.**, M. Nagura, J. Hermes, M. K. Roxy, M. J. McPhaden, E. Pattabhi Rama Rao, S. Kumar Tummala, S. Thurston, J. Li, M. Belbeoch, and V. Turpin (2024). COVID Impacts Cause Critical Gaps in the Indian Ocean Observing System. *BAMS*, <https://doi.org/10.1175/BAMS-D-22-0270.1>
10. *Gutierrez-Villanueva, M.O., Chereskin, T.K. & **Sprintall, J.** (2023). Compensating transport trends in the Drake Passage frontal regions yield no acceleration in net

transport. *Nature Communications* **14**, 7792 (2023). <https://doi.org/10.1038/s41467-023-43499-2>.*

*This paper is part of Nature Communications collection of the [25th most downloaded articles published in 2023](#)

11. Lu, X., S. Hu and **J. Sprintall**, (2023). The role of precipitation and salinity effect in multi-decadal changes and long-term trends of the Indonesian Throughflow. *Journal of Climate*, <https://doi.org/10.1175/JCLI-D-23-0248.1>, 1317-1331
12. Lu, X., S. Hu, C. Guan, M. Li, **J. Sprintall** and F. Wang (2023). Quantifying the contribution of salinity effect to the seasonal variability of the Makassar Strait throughflow. *Geophysical Research Letters*, 50, e2023GL105991 [10.1029/2023GL105991](https://doi.org/10.1029/2023GL105991)
13. Capotondi, A., S. McGregor, M. J. McPhaden, S. Cravatte, N. J. Holbrook, Y. Imada, S. C. Sanchez, **J. Sprintall**, M. F. Stuecker, C. C. Ummenhofer, M. Zeller, R. Farneti, G. Graffino, S. Hu, K. B. Karnauskas, Y. Kosaka, F. Kucharski, M. Mayer, B. Qiu, A. Santoso, A. S. Taschetto, F. Wang, X. Zhang, R. M. Holmes, J-J Luo, N. Maher, C. Martinez-Villalobos, S. Stevenson, A. Sullivan, P. van Rensch, T. Xu (2023). Mechanisms of tropical Pacific decadal variability. *Nature Reviews Earth and Environment*, <https://doi.org/10.1038/s43017-023-00486-x>.
14. Hermes, J., R.M. Koll and **J. Sprintall** (2023). Addressing climate change in the Indian Ocean Region through knowledge, capabilities and networks. In *Indian Ocean Futures: Prospects for shared regional success*, S. Sagar, C. Lin, R. Rey (eds), UWA Public Policy Document, 10.26182/48ak-2y68
15. [Gutierrez Brizuela, N.](#), M. H. Alford, S.-P. Xie, **J. Sprintall**, G. Voet, S. J. Warner, K. Hughes, and J. N. Moum (2023), Prolonged thermocline warming by near-inertial internal waves in the wake of tropical cyclones. *PNAS*, 120 (26) e2301664120, <https://doi.org/10.1073/pnas.2301664120>
16. [Katsura, S.](#), **J. Sprintall**, S. Kido, Y. Tanimoto and M. Nonaka (2023). Classification of interannual sea surface salinity. *Geophysical Research Letters*, 50, e2022GL102261, <https://doi.org/10.1029/2022GL102261>
17. Dove, L.A., G. A. Vignone, A. F. Thompson, M. M. Flexas, T. R. Cason, **J. Sprintall** (2023) Controls on wintertime ventilation in southern Drake Passage. *Geophysical Research Letters*, 50, e2022GL102550. <https://doi.org/10.1029/2022GL102550>
18. Chidichimo, M.P., R. C. Perez, S. Speich, M. Kersalé, **J. Sprintall**, S. Dong, T. Lamont, O. T. Sato, T. Chereskin, R. Hummels and C. Schmid (2023). Energetic overturning flows, dynamic interocean exchanges, and ocean warming observed in the South Atlantic, *Nature Reviews Earth and Environment*, 4:10, <https://doi.org/10.1038/s43247-022-00644-x>

19. Parks, J., Bringas, F.; Hanstein, C.; Krummel, L.; Cowley, R.; **Sprintall, J.**; Cheng, L.; Cirano, M.; Cruz, S.; Goes, M.; Kizu, S.; Reseghetti, F. (2022) XBT Operational Best Practices for Quality Assurance, *Frontiers in Marine Science*, 9, 10.3389/fmars.2022.991760
20. DeMott, C., A. Subramanian, S. Chen. K. Drushka, Y. Fuji, A. Sutton, **J. Sprintall**, D. Zhang (2022). Focused observations for expanded comprehension: Advancing tropical Pacific coupled modeling and process understanding. *Bulletin of the American Meteorological Society*, 10.1175/BAMS-D-22-0041.1.
21. Anutaliya, A., U. Send, McClean, J.L., **J. Sprintall**, M. Lankhorst, C.M. Lee, L. Rainville, W.N.C. Priyadarshani, S.U.P. Jinadasa (2022). Seasonal and year-to-year variability of boundary currents and eddy salt flux along the Sri Lankan eastern and southern coasts observed by PIES and satellite measurements, *Journal of Physical Oceanography*. <https://doi.org/10.1175/JPO-D-22-0030.1>
22. Chandler, M., N. V. Zilberman and **J. Sprintall** (2022). Seasonal to decadal western boundary current variability from sustained ocean observations, *Geophysical Research Letters*, 49, e2022GL097834, <https://doi.org/10.1029/2022GL097834>
23. Katsura, S., **J. Sprintall**, J.T. Farrar, D. Zhang and M.F. Cronin (2022). The barrier layer effect on the heat and freshwater balance from moored observations in the eastern Pacific fresh pool, *Journal of Physical Oceanography*, 10.1175/JPO-D-21-0243.1
24. Gutierrez-Villanueva, M.O., T. Chereskin, **J. Sprintall**, J.A. Goff (2022). Turbulent mixing and lee-wave radiation in Drake Passage: spatial variability, sensitivity to topography and local dissipation, *Journal of Geophysical Research-Oceans*, 127, e2021JC018103, 10.1029/2021JC018103
25. Révelard, A., J. Tintoré, J. Verron, P. Bahurel, J. A Barth, M. Belbéoch, J. Benveniste, P. Bonnefond, E. Chassignet, S. Cravatte, F. J Davidson, B. DeYoung, M. Heupel, E. Heslop, C. Hoerstmann, J. Karstensen, P. Y. Le Traon, M. Marques, C. McLean, R. Medina, T. Paluszkiwicz, A. Pascual, J. Pearlman, G. Petihakis, N. Pinardi, S. Pouliquen, R. Rayner, L. Shepherd, **J. Sprintall**, T. Tanhua, P. Testor, J. Seppälä, J. Siddorn, S. Thomsen, L. Valdés, M. Visbeck, A. M Waite, F. Werner, J. Wilkin and B. Williams (2021). Ocean Integration: the needs and challenges of effective integration within the ocean observing system. *Frontiers in Marine Science*. 10.3389/fmars.2021.737671.
26. Morris, T., D. Rudnick, **J. Sprintall**, J. Hermes, G. Goni, J. Parks, F. Bringas, and E. Heslop (2021). Monitoring Boundary Currents using Ocean Observing Infrastructure, pp. 16–17 in *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, A Supplement to *Oceanography* 34(4), <https://doi.org/10.5670/oceanog.2021.supplement.02-07>

27. Ivanova, D., J. McClean, **J. Sprintall**, and R. Chen (2021). The oceanic barrier layer in the eastern Indian Ocean as a predictor for rainfall over Indonesia and Australia. *Geophysical Research Letters*. e2021GL094519. doi: 10.1029/2021GL094519
28. Power, S., M. Lengaigne, A. Capotondi, M. Khodri, J. Vialard, B. Jebri, E. Guilyardi, S. McGregor, J-S Kug, M. Newman, M. J. McPhaden, G. Meehl, D. Smith, J. Cole, J. Emile-Geay, D. Vimont, A. T. Wittenberg, M. Collins, Geon-Il Kim, W. Cai, Y. Okumura, C. Chung, K. M. Cobb, F. Delage, Y. Y. Planton, A. Levine, F. Zhu, **J. Sprintall**, E. Di Lorenzo, X. Zhang, J-J Luo, X. Lin, M. Balmaseda, G. Wang, B. J. Henley (2021), A review of decadal climate variability in the tropical Pacific: characteristics, causes, predictability and prospects, 374: 6563, *Science*, DOI: 10.1126/science.aay9165
29. Zang, N., **J. Sprintall**, R. Jenny, and F. Wang (2021). Seasonality of the Somali Current/Undercurrent System. *Deep-sea Research Part II*, 191-192, 104953, <https://doi.org/10.1016/j.dsr2.2021.104953>
30. Ummenhofer C.C, S.A. Murty, **J. Sprintall**, T. Lee, N. Abram (2021), Heat and freshwater changes in the Indian Ocean region. *Nature Reviews Earth and Environment*, **2**, pages 525–541, <https://doi.org/10.1038/s43017-021-00192-6>
31. Zhang, X., **J. Sprintall** and L. Zeng (2021), What role does the barrier layer play during extreme El Niño events? *Journal of Geophysical Research-Oceans*, 126, e2020JC017001, 10.1029/2020JC017001.
32. Germineaud, C., S. Cravatte, **J. Sprintall**, M. S. Albrerty, M. Grenier and A. Ganachaud (2021). Deep Pacific Circulation: new insights on pathways through the Solomon Sea, *Deep-sea Research Part 1*, **171**, 103510, <https://doi.org/10.1016/j.dsr.2021.103510>
33. Sobel A., **J. Sprintall**, E. Maloney, Z.K. Martin, S. Wang, S. de Szoeki, B. Trabling and S. Rutledge (2021). Large-scale state and evolution of the atmosphere and ocean during PISTON 2018, *Journal of Climate*, 34(12), 5017-5035, <https://doi.org/10.1175/JCLI-D-20-0517.1>
34. Katsura, S., **J. Sprintall** and F. Bingham (2021). Upper ocean stratification in the eastern Pacific during the SPURS-2 Field Campaign. *J. Geophysical Research-Oceans*, 126, e2020JC016591. <https://doi.org/10.1029/2020JC016591>
35. Bingham, F.M., Z. Li, S. Katsura and **J. Sprintall** (2020). Barrier layers observed in a high-resolution model in the eastern tropical Pacific. *J. Geophysical Research-Oceans*, 125, e2020JC016643. <https://doi.org/10.1029/2020JC016643>
36. **Sprintall, J.**, V.J. Coles, K. A. Reed, A. Butler, G.R. Foltz, S.G. Penny and H. Seo (2020). Best Practice Strategies for Process Studies Designed to Improve Climate Modeling, *Bulletin of American Meteorology*. **101** (10): E1842–E1850, <https://doi.org/10.1175/BAMS-D-19-0263.1>

37. **Sprintall, J.**, Cravatte, S., Dewitte, B., Du, Y. and Sen Gupta, A. (2020). ENSO Oceanic Teleconnections. In *El Niño Southern Oscillation in a Changing Climate* (eds M.J. McPhaden, A. Santoso and W. Cai). <https://doi.org/10.1002/9781119548164.ch15>
38. Gutierrez-Villanueva, M.O., T. Chereskin, **J. Sprintall** (2020). Upper-ocean eddy heat fluxes across the Antarctic Circumpolar Current in Drake Passage from observations: time mean and seasonal variability, *Journal of Physical Oceanography*, 50:9, 10.1175/JPO-D-19-0266.1
39. Hu, S., **J. Sprintall**, C. Guan, D. Hu, F. Wang, X. Lu and S. Li (2020). A triple mode of thermocline salinity variability in the tropical Pacific Ocean observed during 2004–2018. *Journal of Geophysical Research – Oceans*. 125, e2020JC016210, <https://doi.org/10.1029/2020JC016210>
40. Hu D., Wang F., **Sprintall J.**, Wu L., Riser S., Cravatte S., Gordon A. Zhang L., Chen D., Zhou H., Ando K., Wang J., Lee J.-H., Hu S., Wang J., Zhang D., Feng J., Liu L., Villanoy C., Kaluwin C., Qu T., Ma Y. (2020). Review on observational studies of western tropical Pacific Ocean circulation and climate. *Journal of Oceanology and Limnology*, 10.1007/s00343-020-0240-1.
41. Zang, N., F. Wang, **J. Sprintall** (2020). The Intermediate Water in the Philippine Sea. *Journal of Oceanology and Limnology*, 10.1007/s00343-020-0035-4
42. Katsura, S. and **J. Sprintall** (2020). Seasonality and formation of barrier layers and associated temperature inversions in the eastern tropical north Pacific. *Journal of Physical Oceanography*. 50, 791–808, <https://doi.org/10.1175/JPO-D-19-0194.1>
43. Hu, S., **J. Sprintall**, C. Guan, M. J. McPhaden, F. Wang, D. Hu, and W. Cai (2020). Deep-reaching acceleration of global mean ocean circulation over the past two decades, *Science Advances*, 6, doi: eaax7727.
44. Anutaliya, A., Send, U., **Sprintall, J.**, McClean, J. L., Lankhorst, M., & Koelling, J. (2019). Mooring and seafloor pressure end point measurements at the southern entrance of the Solomon Sea: Subseasonal to interannual flow variability. *Journal of Geophysical Research: Oceans*, 124(7), 5085-5104. doi: 10.1029/2019jc015157
45. Hu, S., Y. Zhang, M. Feng, Y. Du, **J. Sprintall**, F. Wang, D. Hu, Q. Xie, and F. Chai (2019), Interannual to decadal variability of Indian Ocean salinity and the role of the Indonesian Throughflow from observations and assimilations, *Journal of Climate*, 32(19), 6403 – 6421
46. Todd R.E., Chavez F. P., Clayton S., Cravatte S., Goes M., Graco M., Lin X., **Sprintall J.**, Zilberman N. V., Archer M., Arístegui J., Balmaseda M., Bane J. M., Baringer M. O., Barth J. A., Beal L. M., Brandt P., Calil P. H. R., Campos E., Centurioni L. R., Chidichimo M. P., Cirano M., Cronin M. F., Curchitser E. N., Davis R. E., Dengler M., deYoung B., Dong S., Escribano R., Fassbender A. J., Fawcett S. E., Feng M., Goni G. J., Gray A. R., Gutiérrez D., Hebert D., Hummels R., Ito S., Krug M., Lacan F., Laurindo L., Lazar A., Lee C. M., Lengaigne M., Levine N. M.,

Middleton J., Montes I., Muglia M., Nagai T., Palevsky H. I., Palter J. B., Phillips H. E., Piola A., Plueddemann A. J., Qiu B., Rodrigues R. R., Roughan M., Rudnick D. L., Rykaczewski R. R., Saraceno M., Seim H., Gupta A. Sen, Shannon L., Sloyan B. M., Sutton A. J., Thompson L., Plas A. K. van der, Volkov D., Wilkin J., Zhang D., Zhang L., (2019). Global Perspectives on Observing Ocean Boundary Current Systems, *Frontiers in Marine Science*, 6:423, <http://doi.org/10.3389/fmars.2019.00423>

47. **Sprintall, J.** A. L. Gordon, S. E. Wijffels, M. Feng, S. Hu, A. Koch-Larrouy, H. E. Phillips, D. Nugroho, A. Napitu, K. Pujiana, R. Dwi Susanto, B. M. Sloyan, B. Peña-Molino, D. Yuan, N. Florida Riama, S. Siswanto, A. Kuswardani, Z. Arifin, A. J. Wahyudi, H. Zhou, T. Nagai, J. Kojo Ansong, R. Bourdalle-Badie, J. Chanut, F. Lyard, B. K. Arbic, A. Ramdhani, A. Setiawan, (2019). Detecting Change in the Indonesian Seas, *Frontiers in Marine Science*. doi: 10.3389/fmars.2019.00257

48. Alberty, M., **Sprintall, J.**, MacKinnon, J., Gernineaud, C., Cravatte, S., & Ganachaud, A., (2019). Moored Observations of Transport in the Solomon Sea. *Journal of Geophysical Research: Oceans*, 124. <https://doi.org/10.1029/2019JC015143>

49. Makarim, S., **J. Sprintall**, Z. Liu, W. Yu, A. Santoso, X-H Yan, and R. D. Susanto (2019). Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades, *Nature Geosciences*, 10.1038/s41598-019-43841-z

50. Drushka, K., W. Asher, **J. Sprintall**, S. Gille, C. Hoang (2019). Global patterns of submesoscale surface salinity variability, *Journal of Physical Oceanography*. 49(7), 1669-1685. doi: 10.1175/jpo-d-19-0018.1

51. Freeman, N. M., D. R. Munro, **J. Sprintall**, M. R. Mazloff, S. Purkey, I. Rosso, C. A. DeRanek, and Sweeney, 2019. The observed seasonal cycle of macronutrients in Drake Passage: relationship to fronts and utility as a model metric. *Journal of Geophysical Research*, **124**, 10.1029/2019JC015052

52. Goni G.J., **J. Sprintall**, F. Bringas, L. Cheng, M. Cirano, S. Dong, R. Domingues, M. Goes, H. Lopez, R. Morrow, U. Rivero, T. Rossby, R. Todd, J. Trinanes, N. Zilberman, M. Baringer, T. Boyer, R. Cowley, C. Domingues, K. Hutchinson, M. Kramp, M. Mata, F. Reseghetti, C. Sun, U. Bhaskar TVS, D. Volkov, 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*, <https://doi.org/10.3389/fmars.2019.00452>

53. Lee, T., Fournier, S., Gordon, A. L. and **Sprintall, J.**, 2019. Maritime Continent water cycle regulates low-latitude chokepoint of global ocean circulation, *Nature Geosciences*, 10:1, 10.1038/s41467-019-10109-z

54. Hu, X., **J. Sprintall**, D. Yuan, B. Tranchant, P. Gaspar, A. Koch-Larrouy, G. Reffray, X. Li, Z. Wang, Y. Li, D. Nugroho, C. Corvianawatie and D. Surinati. 2019. Interannual variability of the

Sulawesi Sea circulation forced by Indo-Pacific planetary waves, *Journal of Geophysical Research - Oceans*, DOI: 10.1029/2018JC014356

55. Smith, N, Kessler WS, Cravatte S, **Sprintall J**, Wijffels S, Cronin MF, Sutton A, Serra YL, Dewitte B, Strutton PG, Hill K, Sen Gupta A, Lin XP, Takahashi K, Chen DK, Brunner S. 2019. Tropical Pacific Observing System. *Frontiers in Marine Science*. 6, 10.3389/fmars.2019.00031

56. **Sprintall J.**, Cronin M. F. and T. Farrar J. (2019) Upper Ocean Vertical Structure. In Cochran, J. Kirk; Bokuniewicz, J. Henry; Yager, L. Patricia (Eds.) *Encyclopedia of Ocean Sciences*, 3rd Edition. vol. 1, pp. 97-104, Elsevier. ISBN: 978-0-12-813081-0

57. Hu, S., J. **Sprintall**, C. Guan, B. Sun, F. Wang, G. Yang, F. Jia, J. Wang, D. Hu and F. Chai. (2018) Spatio-temporal features of intra-seasonal oceanic variability in the Philippine Sea from Mooring Observations and Numerical Simulations, *Journal of Geophysical Research – Oceans*. DOI:10.1029/2017JC013653

58. Viglione, G.A., A.F. Thompson, M.M. Flexas, J. **Sprintall** and S. Swart, (2018). Abrupt transitions in submesoscale structure in southern Drake Passage: Glider observations and GCM results. *Journal of Physical Oceanography*, doi:10.1175/JPO-D-17- 0192.1.

59. Delman, A.S., J. L. McClean, J. **Sprintall**, L. D. Talley, and F. O. Bryan. (2018). Process-specific contributions to anomalous Java mixed layer cooling during positive IOD events, *Journal of Geophysical Research – Oceans*. doi: 10.1029/2017JC013749

60. Ruan, X.Z., Thompson A.F., Flexas M.M., **Sprintall J.** (2017). Contribution of topographically generated submesoscale turbulence to Southern Ocean overturning. *Nature Geoscience*. 10:840, 10.1038/ngeo3053

61. Anutaliya, A., Send, U., McClean, J. L., **Sprintall, J.**, Rainville, L., Lee, C. M., S. U. Priyantha Jinadasa, Alan J. Wallcraft, Metzger, E. J. (2017). An undercurrent off the east coast of Sri Lanka. *Ocean Science*, 13(6), 1035-1044. doi: 10.5194/os-13-1035-2017

62. Hu, S. and J. **Sprintall**. (2017). Observed strengthening of the interbasin exchange via the Indonesian seas due to rainfall. *Geophysical Research Letters*, doi: 10.1002/2016GL072494.

63. Alberdy, M.S., **Sprintall J.**, MacKinnon J, Ganachaud A, Cravatte S, Eldin G, Germineaud C, Melet A. 2017. Spatial patterns of mixing in the Solomon Sea. *Journal of Geophysical Research-Oceans*. 122:4021-4039. 10.1002/2016jc012666

64. Centurioni, L. R., Hermann, V., Talley, L. D., Arzeno, I., Beal, L., Caruso, M., P. Conry, R. Echols, H.J.S. Fernando, S.N. Giddings, A. Gordon, H. Graber, R.R. Harcourt, S.R. Jayne, T.G. Jensen, C.M. Lee, P.F.J. Lermusiaux, P. L'Hegaret, A.J. Lucas, A. Mahadevan, J.L. McClean, G. Pawlak, L. Rainville, S.C. Riser, H. Seo, A.Y. Shcherbina, E.

- Skyllingstad, J. Sprintall, B. Subrahmanyam, E. Terrill, R.E. Todd, C. Trott, H.N. Ulloa, Wang, H. (2017). Northern Arabian Sea Circulation Autonomous Research (NASCar): A research initiative based on autonomous sensors. *Oceanography*, 30(2), 74-87. doi: 10.5670/oceanog.2017.224
65. Ganachaud, A, Cravatte S, **Sprintall J**, Germineaud C, Albery M, Jeandel C, Eldin G, Metzl N, Bonnet S, Benavides M, Heimbürger LE, Lefevre J, Michael S, Resing J, Queroue F, Sarthou G, Rodier M, Berthelot H, Baurand F, Grelet J, Hasegawa T, Kessler W, Kilepak M, Lacan F, Privat E, Send U, Van Beek P, Souhaut M, Sonke JE. (2017). The Solomon Sea: its circulation, chemistry, geochemistry and biology explored during two oceanographic cruises. *Elementa-Science of the Anthropocene*. 5 10.1525/elementa.221
66. Cuypers, Y., Pous S., **Sprintall J.**, Atmadipoera A, Madec G, and Molcard R. 2017. Deep circulation driven by strong vertical mixing in the Timor Basin. *Ocean Dynamics*. 67:191-209. 10.1007/s10236-016-1019-y
67. Cheng, L. J., Abraham, J., Goni, G., Boyer, T., Wijffels, S., Cowley, R., V. Gouretski, F. Reseghetti, S. Kizu, S. Dong, F. Bringas, M. Goes, L. Houpert, **J. Sprintall** and Zhu, J. (2016). XBT science: Assessment of instrumental biases and errors. *Bulletin of the American Meteorological Society*, 97(6), 923-934. doi: 10.1175/bams-d-15-00031.1
68. Erickson, Z. K., Thompson, A. F., Cassar, N., **Sprintall, J.**, & Mazloff, M. R. (2016). An advective mechanism for deep chlorophyll maxima formation in southern Drake Passage. *Geophysical Research Letters*, 43(20), 10846-10855. doi: 10.1002/2016gl070565
69. Germineaud, C., Ganachaud A, **Sprintall J**, Cravatte S, Eldin G, Albery MS, Privat E. (2016). Pathways and water mass properties of the thermocline and intermediate waters in the Solomon Sea. *Journal of Physical Oceanography*. 46:3031-3049. 10.1175/jpo-d-16-0107.1
70. Hu, S. and **J. Sprintall**. (2016). Interannual Variability of the Indonesian Throughflow: the Salinity Effect. *J. Geophysical Res.*, 121, 2596–2615, doi:10.1002/2015JC011495.
71. Delman, A.S., **J. Sprintall**, J.L. McClean, L.D. Talley. Anomalous Java cooling at the initiation of positive IOD events. *J. Geophys. Res. Oceans*, 121, doi: 10.1002/2016JC01163, 2016
72. Hu, D. X., Wu, L. X., Cai, W. J., Sen Gupta, A., Ganachaud, A., Qiu, B., A.L. Gordon, Z. Lin, Z. Chen, S. Hu, G. Wang, Q. Wang, **J. Sprintall**, T. Qu, Y. Kashino, F. Wang and Kessler, W. S. (2015). Pacific western boundary currents and their roles in climate. *Nature*, 522(7556), 299-308. doi: 10.1038/nature14504
73. Pena-Izquierdo, J., van Sebille, E., Pelegri, J. L., **Sprintall, J.**, Mason, E., Llanillo, P. J., & Machin, F. (2015). Water mass pathways to the North Atlantic oxygen minimum zone. *Journal of Geophysical Research-Oceans*, 120(5), 3350-3372. doi: 10.1002/2014jc010557

74. Delman, A. S., McClean, J. L., **Sprintall, J.**, Talley, L. D., Yulaeva, E., & Jayne, S. R. (2015). Effects of eddy vorticity forcing on the mean state of the Kuroshio Extension. *Journal of Physical Oceanography*, 45(5), 1356-1375. doi: 10.1175/jpo-d-13-0259.1
75. Munro, D. R., Lovenduski, N. S., Stephens, B. B., Newberger, T., Arrigo, K. R., Takahashi, T., P.D. Quay, **J. Sprintall**, N.M. Freeman and Sweeney, C. (2015). Estimates of net community production in the Southern Ocean determined from time series observations (2002-2011) of nutrients, dissolved inorganic carbon, and surface ocean pCO₂ in Drake Passage. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 114, 49-63. doi: 10.1016/j.dsr2.2014.12.014
76. **Sprintall, J.**, A. L. Gordon, A. Koch-Larrouy, T. Lee, J. T. Potemra, K. Pujiana, and S. E. Wijffels. The Indonesian Seas and their impact on the Coupled Ocean- Climate System. *Nature Geoscience*, doi:10.1038/ngeo2188, 2014.
77. Drushka, K., Gille, S. T., & **Sprintall, J.** (2014). The diurnal salinity cycle in the tropics. *Journal of Geophysical Research-Oceans*, 119(9), 5874-5890. doi: 10.1002/2014jc009924
78. Ganachaud, A., Cravatte, S., Melet, A., Schiller, A., Holbrook, N. J., Sloyan, B. M., ... Send, U. (2014). The Southwest Pacific Ocean circulation and climate experiment (SPICE). *Journal of Geophysical Research-Oceans*, 119(11), 7660-7686. doi: 10.1002/2013jc009678
79. **Sprintall, J.**, G. Siedler, and H. Mercier. Inter-ocean and Interbasin Exchanges, in *Ocean Circulation and Climate, 2nd Ed. A 21st Century Perspective*. Siedler, Griffies, Gould and Church (eds). Elsevier Press, 2014.
80. **Sprintall, J.** and A. Révelard. The Indonesian Throughflow: Response to Indo-Pacific climate variability, *J. Geophysical Research*, DOI: 10.1002/2013JC009533, 2014.
81. van Sebille, E., J. **Sprintall**, F.U. Schwartzkopf, A. Sen Gupta, A. Santosa, M.H. England, A. Biastoch, and C.W. Boning. Pacific to Indian Ocean Connectivity: Tasman Leakage, Indonesian Throughflow and the role of ENSO. *Journal of Geophysical Research*, 119:2, DOI: 10.1002/2013JC009525, 1365-1382, 2014.
82. Griesel, A., McClean, J. L., Gille, S. T., **Sprintall, J.**, & Eden, C. (2014). Eulerian and Lagrangian isopycnal eddy diffusivities in the Southern Ocean of an eddying model. *Journal of Physical Oceanography*, 44(2), 644-661. doi: 10.1175/jpo-d-13-039.1
83. Drushka, K., J. **Sprintall** and S.T. Gille. Subseasonal variations in salinity and barrier layer thickness in the eastern equatorial Indian Ocean. *Journal of Geophysical Research*, DOI: 10.1002/2013JC009422, 2014.
84. Jiang, C., S.T. Gille, J. **Sprintall**, and C. Sweeney (2014). Drake Passage Oceanic pCO₂: Evaluating CMIP5 coupled carbon-climate models using in situ observations, *Journal of Climate*, 27, 76–100. doi: 10.1175/JCLI-D-12-00571.1.

85. Frants, M., Damerell, G. M., Gille, S. T., Heywood, K. J., MacKinnon, J., & **Sprintall, J.** (2013). An assessment of density-based finescale methods for estimating diapycnal diffusivity in the Southern Ocean. *Journal of Atmospheric and Oceanic Technology*, 30(11), 2647-2661. doi: 10.1175/jtech-d-12-00241.1
86. Stephenson, G. R., Gille, S. T., & **Sprintall, J.** (2013). Processes controlling upper-ocean heat content in Drake Passage. *Journal of Geophysical Research-Oceans*, 118(9), 4409-4423. doi: 10.1002/jgrc.20315
87. Brannigan, L., Lenn, Y. D., Rippeth, T. P., McDonagh, E., Chereskin, T. K., & **Sprintall, J.** (2013). Shear at the base of the oceanic mixed layer generated by wind shear alignment. *Journal of Physical Oceanography*, 43(8), 1798-1810. doi: 10.1175/jpo-d-12-0104.1
88. Polton, J. A., Lenn, Y. D., Elipot, S., Chereskin, T. K., & **Sprintall, J.** (2013). Can Drake Passage observations match Ekman's classic theory? *Journal of Physical Oceanography*, 43(8), 1733-1740. doi: 10.1175/jpo-d-13-034.1
89. Pujana, K., Gordon, A. L., & **Sprintall, J.** (2013). Intraseasonal Kelvin wave in Makassar Strait. *Journal of Geophysical Research-Oceans*, 118(4), 2023-2034. doi: 10.1002/jgrc.20069
90. Smith, K.L., A.D. Sherman, T.J. Shaw and **J. Sprintall** (2013). Icebergs as unique Lagrangian ecosystems in Polar Seas, *Annual Review of Marine Science*, 5, 269-287, doi:10.1146/annurev-marine-121211-172317
91. **Sprintall, J.**, T. K. Chereskin, and C. Sweeney. 2012. High-Resolution underway upper ocean and surface atmospheric observations in Drake Passage: Synergistic measurements for climate science, *Oceanogr.*, 25(3): 70-81, <http://dx.doi.org/10.5670/oceanog.2012.77>.
92. **Sprintall, J.**, A. Gordon, P. Flament, and C. Villanoy, Observations of exchange between the South China Sea and the Sulu Sea, *J. Geophys. Res.*, 117, C05036, 2012.
93. Drushka, K., **J. Sprintall**, S.T. Gille, and S. Wijffels. In situ observations of Madden-Julian Oscillation mixed layer dynamics in the Indian and western Pacific Oceans, *J. Climate*, doi: 10.1175/2011JCLI0203, 2012.
94. Jiang, C. L., Gille, S. T., **Sprintall, J.**, Yoshimura, K., & Kanamitsu, M. (2012). Spatial variation in turbulent heat fluxes in Drake Passage. *Journal of Climate*, 25(5), 1470-1488. doi: 10.1175/2011jcli4071.1
95. Stephenson, G., **J. Sprintall**, S. T. Gille, M. Vernet, J. Helly, and R. Kaufmann, Subsurface melting of a free-floating Antarctic iceberg, *Deep-sea Res.*, 58, 11-12, 1336-1345, 2011.
96. Gordon, A.L., **J. Sprintall** and A. Field. Regional Oceanography of the Philippine Archipelago, *Oceanography*, 24(1), 14 – 27, 2011.

97. Hurlburt, H.E., E.J. Metzger, **J. Sprintall**, S.N. Riedlinger, R.A. Arnone, T. Shinoda, and X. Xu (2011). Circulation in the Philippine Archipelago simulated by 1/12° and 1/25° global HYCOM and EAS NCOM, *Oceanography*, **24**(1), doi:10.5670/oceanog.2011.02, 28-47.
98. Lenn, Y. D., Chereskin, T. K., Sprintall, J., & McClean, J. L. (2011). Near-surface eddy heat and momentum fluxes in the Antarctic Circumpolar Current in Drake Passage. *Journal of Physical Oceanography*, **41**(7), 1385-1407. doi: 10.1175/jpo-d-10-05017.1
99. Pullen, J., A.L. Gordon, **J. Sprintall**, C. Lee, M. Alford, J.D. Doyle, and P. May (2011). Atmospheric and oceanic processes in the vicinity of an island strait, *Oceanography*, **24**(1), doi:10.5670/oceanog.2011.08, 112-121.
100. Meredith, M. P., Woodworth, P. L., Chereskin, T. K., Marshall, D. P., Allison, L. C., Bigg, G. R., ... **Sprintall, J.** (2011). Sustained monitoring of the Southern Ocean at Drake Passage: Past achievements and future priorities. *Reviews of Geophysics*, **49**(4). doi: 10.1029/2010rg000348
101. **Sprintall, J.**, S. E. Wijffels, R. Molcard, and I. Jaya. Direct evidence of the South Java Current system in Ombai Strait, Indonesia. *Dynam. Atmosp. Oceans*, **50**:2, doi: 10.1016/j.dynatmoce.2010.02.006, 140-156, 2010.
102. Tessler, Z. D., Gordon, A. L., Pratt, L. J., & Sprintall, J. (2010). Transport and dynamics of the Panay Sill Overflow in the Philippine Seas. *Journal of Physical Oceanography*, **40**(12), 2679-2695. doi: 10.1175/2010jpo4395.1
103. Gordon, A., **J. Sprintall**, H. M. Van Aken, D. Susanto, S. Wijffels, R. Molcard, A. Ffield, W. Pranowo, and S. Wirasantosa. The Indonesian Throughflow during 2004-2006 as observed by the INSTANT program, *Dynamics of Atmospheres and Oceans*, **50**:2, doi:10.1016/j.dynatmoce.2009.12.002, 115-128, 2010.
104. Metzger, E.J., H.E. Hurlburt, X. Xu, A.L. Gordon, **J. Sprintall**, R.D. Susanto and H.M. van Aken (2010). Simulated and Observed Circulation in the Indonesian Seas: 1/12° Global HYCOM and the INSTANT Observations, *Dynamics of Atmospheres and Oceans*, **50**:2, doi:10.1016/j.dynatmoce.2010.04.002, 275-300.
105. Rosenfield, D., V. Kamenkovich, K. O'Driscoll, and **J. Sprintall** (2010). Validation of a regional Indonesian Seas model based on a comparison between model and INSTANT transports. *Dynamics of Atmospheres and Oceans*, **50**:2, doi:10.1016/j.dynatmoce. 2009.12.005, 313-330.
106. Schiller, A., Wijffels, S. E., Sprintall, J., Molcard, R., & Oke, P. R. (2010). Pathways of intraseasonal variability in the Indonesian Throughflow region. *Dynamics of Atmospheres and Oceans*, **50**(2), 174-200. doi: 10.1016/j.dynatmoce.2010.02.003
107. Griesel, A., Gille, S. T., Sprintall, J., McClean, J. L., LaCasce, J. H., & Maltrud, M. E. (2010). Isopycnal diffusivities in the Antarctic Circumpolar Current inferred from Lagrangian floats in an eddying model. *Journal of Geophysical Research-Oceans*, **115**(C06006). doi: 10.1029/2009jc005821

108. Dong, S. F., Gille, S. T., Sprintall, J., & Fetzer, E. J. (2010). Assessing the potential of the Atmospheric Infrared Sounder (AIRS) surface temperature and specific humidity in turbulent heat flux estimates in the Southern Ocean. *Journal of Geophysical Research-Oceans*, 115(C05013). doi: 10.1029/2009jc005542
109. Drushka, K., J. **Sprintall**, S.T. Gille, and I. Brodjonegoro. Vertical structure of Kelvin waves in the Indonesian Throughflow Exit Passages, *J. Phys. Oceanogr.*, doi: 10.1175/2010JPO4380.1, 40(9), 1965-1987, 2010.
110. Pujiana, K., Gordon, A. L., Sprintall, J., & Susanto, R. D. (2009). Intraseasonal variability in the Makassar Strait thermocline. *Journal of Marine Research*, 67(6), 757-777.
111. Atmadipoera, A., Molcard, R., Madec, G., Wijffels, S., Sprintall, J., Koch-Larrouy, A., ... Supangat, A. (2009). Characteristics and variability of the Indonesian throughflow water at the outflow straits. *Deep-Sea Research Part I-Oceanographic Research Papers*, 56(11), 1942-1954. doi: 10.1016/j.dsr.2009.06.004
112. **Sprintall**, J., S. E. Wijffels, R. Molcard, and I. Jaya. Direct estimates of the Indonesian Throughflow entering the Indian Ocean: 2004-2006, *J. Geophys. Res.*, 114, C07001, doi: 10.1029/2008JC005257, 2009.
113. Gille, S. T., Lombrozo, A., Sprintall, J., Stephenson, G., & Scarlet, R. (2009). Anomalous spiking in spectra of XCTD temperature profiles. *Journal of Atmospheric and Oceanic Technology*, 26(6), 1157-1164. doi: 10.1175/2009jtecho668.1
114. Griesel, A., Gille, S. T., Sprintall, J., McClean, J. L., & Maltrud, M. E. (2009). Assessing eddy heat flux and its parameterization: A wavenumber perspective from a $1/10^\circ$ ocean simulation. *Ocean Modelling*, 29(4), 248-260. doi: 10.1016/j.ocemod.2009.05.004
115. **Sprintall**, J., S. Kennan, Y.Y. Kim and P. Niiler. Wind-driven ageostrophic transport in the North Equatorial Counter Current of the Eastern Pacific at 95W, *J. Phys. Oceanogr.*, 39, 11, 2985-2998, 2009.
116. **Sprintall**, J., Long term trends and interannual variability of temperature in Drake Passage, *Prog. Oceanogr.*, 77, 316-330, 2008.
117. Drushka, K., **Sprintall, J.**, Gille, S. T., & Pranowo, W. S. (2008). Observations of the 2004 and 2006 Indian Ocean tsunamis from a pressure gauge array in Indonesia. *Journal of Geophysical Research-Oceans*, 113(C7). doi: 10.1029/2007jc004662
118. Dong, S., J. **Sprintall**, S.T. Gille, and L. Talley. Southern Ocean mixed layer depth from Argo float profiles. *J. Geophys. Res.*, 113, c06013, doi: 10.1029/2006JC004051, 2008.
119. Lenn, Y. D., Chereskin, T. K., & Sprintall, J. (2008). Improving estimates of the Antarctic Circumpolar Current streamlines in Drake Passage. *Journal of Physical Oceanography*, 38(5), 1000-1010. doi: 10.1175/2007jpo3834.1

120. Stramma, L., G.C. Johnson, J. **Sprintall**, and V. Mohrholz. Expanding oxygen minimum zones in the Tropical oceans. *Science*, 320, 655-658, doi: 10.1126/science.1153847, 2008.
121. Thompson, A. F., Gille, S. T., MacKinnon, J. A., & Sprintall, J. (2007). Spatial and temporal patterns of small-scale mixing in Drake Passage. *Journal of Physical Oceanography*, 37(3), 572-592. doi: 10.1175/jpo3021.1
122. Susanto, R. D., Gordon, A. L., & **Sprintall, J.** (2007). Observations and proxies of the surface layer throughflow in Lombok Strait. *Journal of Geophysical Research-Oceans*, 112(C3). doi: 10.1029/2006jc003790
123. Dong, S., Gille, S. T., & **Sprintall, J.** (2007). An assessment of the Southern Ocean mixed layer heat budget. *Journal of Climate*, 20(17), 4425-4442. doi: 10.1175/jcli4259.1
124. Lenn, Y. D., Chereskin, T. K., **Sprintall, J.**, & Firing, E. (2007). Mean jets, mesoscale variability and eddy momentum fluxes in the surface layer of the Antarctic Circumpolar Current in Drake Passage. *Journal of Marine Research*, 65(1), 27-58. doi: 10.1357/002224007780388694
125. **Sprintall, J.**, Antarctic Surface Waters. In Riffenburgh (ed), *Encyclopedia of the Antarctic. Routledge, Taylor and Francis*. New York, pp. 79-81, 2007.
126. Dong, S. F., Sprintall, J., & Gille, S. T. (2006). Location of the Antarctic Polar Front from AMSR-E satellite sea surface temperature measurements. *Journal of Physical Oceanography*, 36(11), 2075-2089. doi: 10.1175/jpo2973.1
127. Dong, S. F., Gille, S. T., Sprintall, J., & Gentemann, C. (2006). Validation of the Advanced Microwave Scanning Radiometer for the Earth Observing System (AMSR-E) sea surface temperature in the Southern Ocean. *Journal of Geophysical Research-Oceans*, 111(C4). doi: 10.1029/2005jc002934
128. Schiller, A., Wijffels, S. E., & Sprintall, J. (2006). Variability of the Indonesian Throughflow: a review and model-to-data comparison. *Global Climate Change and Response of Carbon Cycle in the Equatorial Pacific and Indian Oceans and Adjacent Landmasses* (pp. 50). : Elsevier Science & Technology.
129. Talley, L. D., and J. **Sprintall**. Deep expression of the Indonesian Throughflow: Indonesian Intermediate Water in the South Equatorial Current, *J. Geophys. Res.*, 110, C10009, doi: 10.1029/2004JC002826, 2005.
130. McClean, J.L., D.P. Ivanova, and J. **Sprintall**, 2005. Remote origins of interannual variability in the Indonesian Throughflow region from data and a global Parallel Ocean Program simulation. *J. Geophys. Res.*, 110, C10013, doi: 10.1029/2004JC002477.
131. **Sprintall, J.** and W.T. Liu. Ekman mass and heat transport in the Indonesian seas, *Oceanogr.*, 18:4, 88-97, 2005.

132. Sprintall, J., Wijffels, S., Gordon, A. L., Field, A., Molcard, R., Susanto, R. D., ... van Aken, H. (2004). A new international array to measure the Indonesian Throughflow: INSTANT. *EOS Trans. AGU*, 85(39), 369, 376.
133. **Sprintall**, J., Seasonal to interannual upper-ocean variability in the Drake Passage, *J. Marine Res.*, 61, 27-57, 2003.
134. Potemra, J.T., S.L. Hautala, and **J. Sprintall** (2003). Vertical structure of the Indonesian Throughflow in a large-scale model. *Deep Sea Research*, 50, 2143-2161
135. **Sprintall**, J., J. T. Potemra, S. L. Hautala, N. A. Bray and W. Pandoe. Temperature and salinity variability in the exit passages of the Indonesian Throughflow. *Deep Sea Res.*, 50, 2183-2204, 2003.
136. Potemra, J.T., **J. Sprintall**, S.L. Hautala, and W. Pandoe, 2003. Observed estimates of convergence in the Savu Sea, Indonesia. *J. Geophys. Res.*, 108, 3001, doi:10.1029/2002JC001507.
137. **Sprintall**, J., S. Wijffels, T. Chereskin and N. Bray. The JADE and WOCE I10/IR6 Throughflow Sections in the Southeast Indian Ocean. Part 2: Velocity and transports. *Deep-sea Research Part II*, 49, 1363-1389, 2002.
138. Wijffels, S., **J. Sprintall**, M. Fieux and N. Bray, 2002. The JADE and WOCE I10/IR6 Throughflow Sections in the Southeast Indian Ocean. Part 1: Water mass distribution and variability. *Deep-sea Research Part II*, 49, 1341-1362
139. Potemra, J.T., S.L. Hautala, **J. Sprintall** and W. Pandoe (2002). Interaction between the Indonesian Seas and the Indian Ocean in Observations and Numerical Models. *Journal of Physical Oceanography*, 32, 1838-1854
140. Nof, D., T. Pichevin, and **J. Sprintall** (2002). Teddies and the origin of the Leeuwin Current. *Journal of Physical Oceanography*, 32, 2571-2589
141. Hautala, S.L., **J. Sprintall**, J. Potemra, J.C. Chong, W. Pandoe, N. Bray, and A.G. Ilahude, 2001. Velocity structure and transport of the Indonesian Throughflow in the major straits restricting flow into the Indian Ocean. *J. Geophys. Res.*, 106, 19527-19546
142. Cronin, M., & **Sprintall, J.** (2001). Upper ocean structure: buoyancy and wind forcing. *Encyclopedia of ocean sciences* (pp. 3219-3227). San Diego: Academic Press.
143. **Sprintall, J.**, & Cronin, M. (2001). Upper ocean vertical structure. *Encyclopedia of ocean sciences* (pp. 3120-3129). San Diego: Academic Press.
144. **Sprintall**, J., A.L. Gordon, R. Murtugudde, and R.D. Susanto. An Indian Ocean Kelvin wave observed in the Indonesian seas in May 1997. *J. Geophys. Res.*, 105, 17217-17230, 2000.

145. Chong, J., J. Sprintall, S. Hautala, W. Morawitz, N. Bray and W. Pandoe (2000). Shallow throughflow variability in the outflow straits of Indonesia, *Geophysical Research Letters*, **27**, 125-128.
146. Susanto, R. D., Gordon, A. L., Sprintall, J., & Herunadi, B. (2000). Intraseasonal variability and tides in Makassar Strait. *Geophysical Research Letters*, *27*(10), 1499-1502. doi: 10.1029/2000gl011414
147. **Sprintall**, J. Chong, F. Syamsudin, W. Morawitz, S. Hautala, N. Bray, and S. Wijffels, 1999. Dynamics of the South Java Current in the Indo-Australian Basin, *Geophys. Res. Lttrs*, *26*, 2493-2496
148. **Sprintall**, J. and D. Roemmich (1999). Characterizing the structure of the surface layer of the Pacific Ocean. *J. Geophys. Res.*, *104*, 23297-23311.
149. **Sprintall, J.**, D. Roemmich, B. Stanton and R. Bailey (1995). Regional climate variability and ocean heat transport in the south-west Pacific Ocean. *J. Geophysical Research*, **100**, 15865-15871
150. **Sprintall, J.** and M. J. McPhaden (1994). Surface layer variations observed in multi-year time series measurements from the western equatorial Pacific. *J. Geophysical Research*, **99**, 963-979
151. Parlange, J. Y., Hogarth, W. L., Fuentes, C., **Sprintall, J.**, Haverkamp, R., Elrick, D., ... Lockington, D. A. (1994). Superposition principle for short-term solutions of Richards' equation: Application to the interaction of wetting fronts with an impervious surface. *Transport in Porous Media*, *17*(3), 239-247. doi: 10.1007/bf00613584
152. Parlange, J. Y., Hogarth, W. L., Fuentes, C., **Sprintall, J.**, Haverkamp, R., Elrick, D., ... Lockington, D. A. (1994). Interaction of wetting fronts with an impervious surface — Longer time behaviour. *Transport in Porous Media*, *17*(3), 249-256. doi: 10.1007/bf00613585
153. **Sprintall, J.** and M. Tomczak (1993). On the formation of the Central Water and thermocline ventilation in the southern hemisphere. *Deep-Sea Research*, **40**, 827-848
154. **Sprintall, J.**, and M. Tomczak (1992). Evidence of the barrier layer in the surface layer of the tropics. *J. Geophysical Research*, **97**, 7305-7316
155. **Sprintall, J.** and G. Meyers (1991). An optimal XBT sampling network for the eastern Pacific Ocean, *J. Geophysical Research*, **96**, 10539-10552.
156. Meyers, G., H. Phillips, N. Smith, and **J. Sprintall** (1991). Space and time scales for optimal interpolation of temperature - Tropical Pacific Ocean. *Progress in Oceanography*, **28**: 3, 189-218.

Some Key Report Contributions:

Parks, J., Bringas, F.; Hanstein, C.; Krummel, L.; Cowley, R.; Sprintall, J.; Cheng, L.; Cirano, M.; Cruz, S.; Goes, M.; Kizu, S.; Reseghetti, F. (2021) XBT Operational Best Practices for Quality Assurance, Version 1.0. San Diego, CA, Scripps Institution of Oceanography, Climate, Atmospheric Sciences, and Physical Oceanography, University of California, 32pp. DOI: <http://dx.doi.org/10.25607/OBP-1720>

Kessler, W.S., S. Cravatte, and Lead Authors (including Sprintall), 2021: Final Report of TPOS 2020. GOOS-268, 83 pp. [Available online at <https://tropicalpacific.org/tpos2020-project-archive/reports/>]

Kessler, W.S., S. E. Wijffels, S. Cravatte, N. Smith, and Lead Authors (including Sprintall), 2019: Second Report of TPOS 2020. GOOS-234, 265 pp. [Available online at [http://tpos2020.org/second-report/.](http://tpos2020.org/second-report/)]

Feng, M., J. Sprintall, R. Cowley, 2019: The XBT network in “IndOOS-2: A roadmap to sustained observations of the Indian Ocean for 2020-2030”, Lisa M. Beal, Jerome Vialard, Mathew K. Roxy (editors), CLIVAR-4/2019, GOOS-237, 206 pp., doi: <https://doi.org/10.36071/clivar.rp.4.2019>

Cravatte, S., W. S. Kessler, N. Smith, S. E. Wijffels, and Contributing Authors (including Sprintall), 2016: First Report of TPOS 2020. GOOS-215, 200 pp. [Available online at [http://tpos2020.org/first-report/.](http://tpos2020.org/first-report/)]

External Professional Activities:

- Member, UCAR Board of Trustees, 2024 - present
- President-Elect, AGU Ocean Sciences Section, 2023 - present
- Member, CLIVAR Indian Ocean Regional Panel, 2022 – present (Co-Chair, 2023-2024)
- Member (and Interim Chair 2023), GOOS Ocean Observations Physics and Climate Panel (OOPC) Boundary Currents and Shelf Sea Interactions Task Team, 2019 – present.
- Member, International Indian Ocean Experiment II, U.S. Planning Committee, 2020 - present
- Member, AGU EOS Section Panel Science Adviser, 2019 - 2022
- Deputy Co-Chair, North Pacific Ocean Circulation Experiment (NPOCE), 2019 – 2023
- Member, Tropical Pacific Decadal Variability Working Group, CLIVAR Pacific Regional Panel, 2021 – 2023
- Member, AGU Outstanding Student Presentation Awards (OSPA) Advisory Group, 2021
- Steering Committee Member, Tropical Pacific Observing Needs to Advance Process Understanding and Representations in Models, U.S. CLIVAR supported Workshop, May 2021
- Physical Oceanography Secretary, American Geophysical Union (AGU), 2019 – 2022
- Ocean Sciences Representative, AGU Fall Meeting Planning Committee, 2019 - 2022
- Co-organizer, Gateways to the Ocean Workshop, SIO, February 2020.
- Editor, AGU Geophysical Research Letters, 2017 – 2021
- Member, Journal of Geophysical Research - Oceans Editor in Chief search committee, 2020
- Co-leader, Mentoring Physical Oceanography Women to Increase Retention, 2010 – 2013; 2015 – 2017; 2019 - 2021
- Member, IQuOD Science Steering Committee, 2018 – 2022
- Member, Rolling Deck to Repository (R2R) Advisory Committee, 2016 - present
- Co-Chair, Western Pacific Team, Tropical Pacific Observing System-2020, 2016 – 2021
- Member, Backbone Task Team, Tropical Pacific Observing System-2020, 2015 – 2021
- Co-Chair, SOOP XBT Science Team, 2011 – present
- Ocean Sciences Representative, AGU Fall Meeting Planning Committee, 2019
- Member, U.S. CLIVAR Process Study – Model Improvement (PSMI) Panel, 2016 – 2019
- Member, International CLIVAR Pacific Panel, 2016 – 2019
- Invited Senior Scientist, Patullo Conference, Sponsored by MPOWIR, 2011; 2013; 2015
- Member, Scientific Steering and Organizing Committee, 2nd International Ocean Research Conference, Barcelona, November 2014
- Physical Oceanography Representative, The Oceanography Society (TOS) Council, 2012 – 2014
- Co-Chair, CLIVAR Indonesian Throughflow Task Team, 2012 – 2014
- Co-Chair, Executive Committee of the US CLIVAR Science Steering Committee, 2012 – 2014
- Invited Speaker, Physical Oceanography Dissertation Symposium (PODS), Hawaii, 2012
- Member, Antarctic Research Vessels Oversight Committee, 2006-2010.
- Ongoing frequent reviewer for journals JGR-Oceans; Geophysical Research Letters; Biogeosciences; Nature; Journal of Physical Oceanography; Journal of Climate; Frontiers in Marine Science; Deep-sea Research; JGR-Atmosphere; JGR-Oceans; Oceanography; Nature Communications; Science Advances; Terrestrial, Atmospheric and Oceanic Sciences

- Ongoing frequent reviewer for NSF OCE and OPP proposals; Israel Science Foundation; NERC.
- Panelist for NASA Physical Oceanography (2013), Ocean Surface Topography (2004, 2016) and Salinity Science Teams (2010, 2018)
- Panelist for NOAA Climate Variability Program (2019)
- Panelist for National Science Foundation (2000, 2004, 2006)
- Reviewer of ship time proposals to Australian National Facilities including the R/V Franklin, R/V Southern Surveyor and R/V Investigator
- Reviewer of ship time proposal for French National Facility.
- Ongoing convener and session chair at Ocean Sciences (2012 – present); AGU Fall Meeting (2014 – present)

SIO/UCSD Service

- Member, SIO Editorial and Publications Committee, 2019 - present
- Member, SIO Heritage Committee, 2012 – present (Chair 2024)
- Member, Ritter Selection Committee, 2023.
- Chair, SIO Committee for Academic Personnel (CAP), 2022/23
- Member, SIO Space Allocation Task Force, 2022 (This committee was the recipient of the 2023 Inclusive Excellence Award Recipient from the UCSD Chancellor that recognizes contributions to diversity, equal opportunity and affirmative action at UCSD.)
- Member, SIO Committee for Academic Personnel (CAP), 2020 – 2023
- Chair, SIO Editorial and Publications Committee, 2020 - 2022
- Chair, SIO Marine Operations Committee, 2016 – 2018
- Member, SIO Marine Operations Committee, 2007 – 2010; 2014 – 2019
- Member, SIO Hydraulics Committee, 2014 – 2018
- Member, SIO Search Committee for Hydrology Faculty Position, 2019
- Member, SIO Educational Policy Committee, 2018-2019
- Member, Committee on Future Planning for the SIO Research Series, 2015
- Member, SIO Search Committee for Coastal Lectureship, 2013
- Member and Chair, Numerous Ad Hoc committees for CASPO, SIO, 1995 - present

Selective Sea-Time

- April – May 2024, EKAMSAT, R/V Thompson, hydrography, Bay of Bengal
- June – July 2023, EKAMSAT, R/V *Revelle*, hydrography, South-east Arabian Sea
- August 2018, PISTON, R/V *Thompson*, hydrography, tropical western Pacific Ocean
- October–November 2017, NASA SPURS-2 cruise, hydrography, R/V *Revelle*, tropical eastern Pacific Ocean
- August - September 2016, NASA SPURS-2 cruise, hydrography, R/V *Revelle*, tropical eastern Pacific Ocean
- April – May 2015, ChinSTRAP, USAP L.M. *Gould*, hydrography/AUVs, Drake Passage, Antarctica, Chief Scientist
- February 2014, SPICE, R/V *Thompson*, Moorings, Solomon Sea, Western Tropical Pacific, Chief Scientist

- July 2012, SPICE, *R/V L'Atalante*, Moorings, Solomon Sea, Western Tropical Pacific
- March 2009, PhilEx, *R/V Melville*, Moorings, Sulu Sea, Philippines
- December 2007, PhilEx, *R/V Melville*, Moorings, Sulu Sea, Philippines
- February 2007, WOCE I9-N, *R/V Reville*, Hydrography, Fremantle – Phuket, Indian Ocean, Chief Scientist
- December 2006, INSTANT, *R/V Baruna Jaya I*, Moorings, Nusa Tenggara, Indonesia, Chief Scientist
- June 2005, INSTANT, *R/V Baruna Jaya I*, Moorings, Nusa Tenggara, Indonesia, Chief Scientist
- December 2003, INSTANT, *R/V Baruna Jaya IV*, Moorings, Nusa Tenggara, Indonesia, Chief Scientist
- August 2003, INSTANT, *R/V Southern Surveyor*, Moorings/pressure gauges/Hydrography, Timor Leste and Ashmore Reef
- August 2001, EPIC, *R/V Reville*, Hydrography, Eastern tropical Pacific Ocean.
- November 1999, SPGA, *R/V Baruna Jaya VIII*, pressure gauges, Nusa Tenggara, Indonesia, Chief Scientist
- August 1998, SPGA, *R/V Baruna Jaya VIII*, pressure gauges, Nusa Tenggara, Indonesia, Chief Scientist
- August 1997, SPGA, *R/V Baruna Jaya IV*, pressure gauges, Nusa Tenggara, Indonesia, Chief Scientist

Mentors and Mentoring:

Masters Advisor:

Dr. Gary Meyers, CSIRO Marine and Atmospheric Research, Australia (deceased)

Graduate Advisor:

Prof. Matthias Tomczak, University of Sydney, Australia (deceased)

Post-doctoral Advisors:

Dr. Michael J. McPhaden (NOAA-PMEL, Seattle)

Prof. Dean Roemmich (SIO-UCSD, La Jolla)

SIO Graduate Students supervised:

Yueng D. Lenn (PhD, committee member, graduated 2006, now at U. Bangor);

Andrew Thompson (PhD, committee member, graduated 2006, now at CalTech);

Kyla Drushka (PhD, co-advisor with S. Gille, graduated 2011, now at APL/UW);

Gordon Stephenson (PhD, co-advisor with S. Gille, graduated 2013, now at NRL);

Yvonne Firing (PhD, committee member, graduated 2013, now at IOC Southampton);

Geoffrey Gearheart (PhD, co-advisor with G. Kooyman, graduated 2014, now at U. QLD);

Riley Gammon (PhD, committee member, graduated 2015, now at USGS)

Andrew Delman (PhD, co-advisor with J. McClean and L. Talley, graduated 2015, now at JPL);

Marion Albery (PhD, co-advisor with J. MacKinnon, graduated 2018, now at Princeton U.);

Mariela Brooks (PhD, committee member, graduated 2019, now at U. Alaska)

Arachaporn “Waen” Anutaliya (PhD, co-advisor with U. Send and J. McClean, graduated 2019, now at Burapha University, Thailand)

Manuel Guitierrez Villanueva (PhD, co-advisor with T. Chereskin, graduated)
Olavo Badaro-Marques (PhD, committee member, 2018 – 2021, graduated November 2021)
Noel Guitierrez-Brizuela (PhD, committee member, 2018 – present)
Mitchell Chandler (PhD, co-advisor with N. Zilberman, 2020 – present)
Ankitha Kannad (PhD, co-advisor with Jen MacKinnon, 2022 – present)

Honors Students supervised:

Mr. Matthew Sprague (UCSD Honors, committee member, Fiamma Straneo and Maria Vernet, 2021).

BS/MS Students Supervised:

Ms. Scarlett Hensmen (UCSD OAS student, co-advisor with Nathalie Zilberman, SIO-199 project, winter 2021 – present)

Undergraduate Students supervised:

Mr. Junnan “Boris” Yan (UCSD OAS student, co-advisor with Nathalie Zilberman, SIO-199 project, winter 2021 – present)

Mr. Aoming Yu (UCSD OAS student, advised Fiamma Straneo) Research Assistant, summer 2022

Mr. Clifford Hoang (UCSD BS student, Undergraduate Research Asst, co-advised with Kyla Drushka and Sarah Gille, Nov 2013 – June 2016)

External Graduate Students and Visiting Scholars Advised

PhD Candidate: Ms. Rui Li, visiting student, University of Chinese Academy of Sciences, Qingdao, China, 2024-present

PhD Candidate: Mr Zhangzhe Zhao, visiting student, South China Sea Institute of Oceanology. Chinese Academy of Sciences, Guangdong, China, 2023 – present.

PhD Candidate: Ms. Ajda Savarin, committee member (advisor: Shuyi Chen), U. Washington, 2018-2023

MSc Candidate: Ms. Dava Amrina, POGO-SCOR 2021 Visiting Fellowship, May-July 2022.

MSc Candidate: Ms. Socorro Rodrigo, co-advisor (with Claudia Wieners), Climate Physics, University of Utrecht, Netherlands, 2020-2022 (graduated 2022)

PhD Candidate: Dr. Salviente Makarim, committee member (advisor: Weidong Yu), Xiamin University, China, 2018 – 2021 (graduated 2021)

PhD Candidate: Dr. Giuliana Viglione, committee member (advisor: Andrew Thompson), CalTech, 2017 – 2019, (graduated 2019)

PhD Candidate: Dr. Cyril Germineaud, co-advised with A. Ganachaud and S. Cravatte, LEGOS, France, University of Toulouse, France, 2014 – 2016, (graduated 2016)

PhD Candidate: Dr. Xiaoyue Hu, visiting student, IOCAS, China, 2017, (graduated 2019)

MSc Candidate: Mr. Remi lenny, visiting student, University Marseille, France, 2016

MSc Candidate: Ms. Yona Silvy, visiting student, ENSTA ParisTech University, France, 2016

MSc Candidate: Mr. Loris Canizares, visiting student, ENSTA, France, 2014.

MSc Candidate: Dr. Adèle Revelard, visiting student, L’Ocean, France, 2012 (graduated 2018)

BS Candidate: Ms. Natalia Ribeiro Santos, visiting student, CNPQ Brazilian Fellowship, Universidade Federal do Rio Grande 2012.

PhD Candidate: Dr. Jesus Peña Izquierdo, Institut de Ciències del Mar, ICM-CSIC, Barcelona, Spain, 2011 (graduated 2015).

External Reviewer for PhD thesis of Dr. Josue Martínez-Moreno, Australian National University (2021)

External reviewer for PhD thesis of Dr. Laura Gruenberg, LDEO, Columbia University (2020)

External reviewer for PhD thesis of Dr. Dwiyoga Nugroho, University of Toulouse, France (2017)

External reviewer for MSc thesis of Dr. Lydia Keppler, University of the South Pacific, Fiji (2017)

Postdocs supervised:

Shenfu Dong (2004-2007, with S. Gille, now at CIMAS, NOAA-AOML)

Alexa Griesel (2005-2009, with S. Gille and J. McClean, now at U. Hamburg)

ChuanLi Jiang (2008-2011, with S. Gille, now at NWR)

Kyla Drushka (2013-2014, with S. Gille, now at APL/UW)

Shijian Hu (2015-2016, now at IOCAS, China)

Nan Zang (2017-2018, now at IOCAS, China)

Shota Katsura (2019-2023)