

Janet Sprintall

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Employment

Research Oceanographer, Scripps Institution of Oceanography, 2007 – present
Educator without salary, Scripps Institution of Oceanography, 2005 - present
Associate Research Oceanographer, Scripps Institution of Oceanography, 2001 – 2007
Assistant Research Oceanographer, Scripps Institution of Oceanography, 1996 – 2001
JIMO Postdoctoral Fellow, Scripps Institution of Oceanography, 1994-1995
National Research Council (NRC) Postdoc, NOAA-PMEL, Physical Oceanography, 1992-1993

Education

University of Sydney, NSW, Australia; Physical Oceanography, Ph.D, 1992.
University of Sydney, NSW, Australia, Physical Oceanography, M.Sc., 1988.
Griffith University, QLD, Australia; Applied Math, BSc. (First Class Honors), 1985

Research Interests

Janet Sprintall is a Research Physical Oceanographer at Scripps Institution of Oceanography. The fundamental goal of her research aims to investigate the role of the ocean in the variability of the coupled air-sea climate system, with a particular focus on the complexities of inter-ocean exchanges. She is a sea-going scientist, collecting *in situ* observations from ships and moorings, and contributes to the global ocean observing system, and very much enjoys working with her colleagues, postdocs and students.

Honors

2022: Asia Oceania Geosciences Society (AOGS) Axford Lecture for excellence in geoscience
2021: American Meteorological Society (AMS) Fellow
2015: Post Rouge Fellowship, Scientific Board of the Midi-Pyrenees Observatory, France.
2015: United States Antarctic Service Medal
2013: Marie Tharp Visiting Fellowship, Lamont Doherty Earth Observatory, New York, NY

Professional Society Memberships:

American Geophysical Union, 1991 - present.
The Oceanography Society, 2009 - present
American Meteorological Society, 1997 – 2000; 2017 - present.

Key Recent Publications

I have published over 130 publications, the majority with my students and postdocs. Selected recent publications include:-

Ummerhofer 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>

- Sobel A., J. Sprintall, E. Maloney, Z.K. Martin, S. Wang, S. de Szoeko, B. Trabing and S. Rutledge (2021). Large-scale state and evolution of the atmosphere and ocean during PISTON 2018, *J. Climate*, 34(12), 5017-5035, <https://doi.org/10.1175/JCLI-D-20-0517.1>
- 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, *Bull. American Meteorology*. 101 (10): E1842–E1850, <https://doi.org/10.1175/BAMS-D-19-0263.1>
- Sprintall, J., Cravatte, S., Dewitte, B., Du, Y. and Gupta, A.S. (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>
- 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.
- Sprintall, J., A. L. Gordon, S. E. Wijffels, M. Feng, S. Hu, A. Koch-Larrouy et al., (2019). Detecting Change in the Indonesian Seas, *Frontiers in Marine Science*. doi: 10.3389/fmars.2019.00257
- Goni G.J., J. Sprintall, F. Bringas, L. Cheng, M. Cirano, S. Dong et al., (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>
- 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.
- 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.
- Sprintall, J. and A. Révelard. The Indonesian Throughflow: Response to Indo-Pacific climate variability, *J. Geophysical Research*, DOI: 10.1002/2013JC009533, 2014.
- Sprintall, J., S. Wijffels, R. Molcard, and I. Jaya, 2009. Direct estimates of the Indonesian Throughflow entering the Indian Ocean: 2004-2006. *Journal of Geophysical Research – Oceans*, 114, C07001, doi: 10.1029/2008JC005257
- Sprintall, J., Long term trends and interannual variability of temperature in Drake Passage, *Prog. Oceanogr.*, 77, 316-330, 2008.
- 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.

Selected Service:

- Secretary, Ocean Sciences - Physical Oceanography (2019-2022)
 Ocean Sciences Fall Meeting Program Committee member (2019-2022) and chair (2019-2020)
 editor, *Geophysical Research Letters* (2017–2020)
 Tropical Pacific Observing System-2020 Backbone Task Team (2016-2022)
 North Pacific Oceanography Circulation Experiment, deputy co-chair (2019-present)
 CLIVAR Indian Ocean Regional panel (2022-present)
 Mentoring Physical Oceanography Women to Increase Retention (MPOWIR) co-leader of mentoring groups (2010–2013; 2015–2017; 2019-2021)