

Curriculum Vitae

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University of Washington, School of Oceanography
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San Francisco State University

PRESENT POSITIONS: Oceanographer
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School of Oceanography, University of Washington

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Department of Physical Oceanography
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Postdoctoral Associate (Mar 89 - Aug 89)
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Graduate Research Assistant (Sep 83 - Feb 89)
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PRESENT SERVICE: Tropical Pacific Observing System Steering Committee Co-chair (2014-present)

FELLOWSHIPS: Egdvéd Fellowship, University of Washington (1982-83)
Frohlich Fellowship, CSIRO Marine Laboratory
Hobart, Australia (2002)
Post Rouge, Institut de Recherche pour le Développement
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Post Rouge, Observatoire Midi-Pyrénées, Toulouse, France (2010)

REFEREED JOURNAL PUBLICATIONS:

- Kessler, W.S., H.G. Hristova and R.E. Davis, 2019: Equatorward western boundary transport from the South Pacific: Glider observations, dynamics, and consequences. *Prog. Oceanogr.*, Submitted.
- Kumar, V., A. Melet, B. Meyssignac, A. Ganachaud, W.S. Kessler, A. Singh, and J. Aucan, 2018: Reconstruction of local sea-levels at southwest Pacific Islands—A multiple linear regression approach (1988–2014). *J. Geophys. Res.*, *123*(2), 1502–1518, doi: 10.1002/2017JC013053.
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- Srinivasan, K., J. C. McWilliams, L. Renault, H. G. Hristova, J. Molemaker and W. S. Kessler, 2017: Topographic and mixed-layer submesoscale currents in the near-surface southwestern tropical Pacific. *J. Phys. Oceanogr.*, *47*(6), 1221–1242, doi: 10.1175/JPO-D-16-0216.1.
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- Ganachaud and Co-authors, 2014: Ocean circulation of the Southwest Pacific: new insights from the Southwest Pacific Ocean and Climate Experiment (SPICE). *J. Geophys. Res.*, *119*(11), 7660–7686, doi: 10.1002/2013JC009678.
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- Hristova, H.G., W.S. Kessler, J.C. McWilliams, and M.J. Molemaker (2014): Mesoscale variability and its seasonality in the Solomon and Coral Seas. *J. Geophys. Res.*, **119**(7), 4669-4687, doi: 10.1002/2013JC009741.
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- Kessler, W.S. and M.J. McPhaden, 1995b: The 1991-93 El Niño in the central Pacific. *Deep-Sea Res II.*, **42**, 295-333.
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- Kessler, W.S. and J.P. McCreary, 1993: The annual wind-driven Rossby wave in the subthermocline equatorial Pacific. *J. Phys. Oceanogr.*, **23**, 1192-1207.

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- Kessler, W.S., 1991: Can reflected extra-equatorial Rossby waves drive ENSO? *J. Phys. Oceanogr.*, **21**, 444-452.
- Taft, B.A. and W.S. Kessler, 1991: Variations of zonal currents in the central tropical Pacific during 1970 to 1987: Sea level and dynamic height measurements. *J. Geophys. Res.*, **96**, 12599-12618.
- Kessler, W.S., 1990: Observations of long Rossby waves in the northern tropical Pacific. *J. Geophys. Res.*, **95**, 5183-5217.
- Harrison, D.E., W.S. Kessler and B.S. Giese, 1989: Ocean circulation model hindcasts of the 1982-83 El Niño: Thermal variability along the ship of opportunity tracks. *J. Phys. Oceanogr.*, **19**, 397-419.
- Kessler, W.S. and B.A. Taft, 1987: Dynamic heights and zonal geostrophic transports in the central tropical Pacific during 1979-1985. *J. Phys. Oceanogr.*, **17**, 97-122.

OTHER RELEVANT PUBLICATIONS:

- Kessler, W.S., S. Wijffels, S. Cravatte and N. Smith, and Contributing Authors, 2019: Second Report of TPOS 2020. In review.
- Cravatte, S., W.S. Kessler, N. Smith, S.E. Wijffels, and Contributing Authors, 2016: First Report of TPOS 2020. GOOS-215, TPOS 2020, 200 pp, Available online at TPOS2020.org/first-report/.
- Kessler, W.S., T. Lee, M. Collins, E. Guilyardi, D. Chen, A.T. Wittenberg, G. Vecchi, W.G. Large, and D. Anderson (2014): TPOS White Paper #3 – ENSO research: The overarching science drivers and requirements for observations. In Proceedings of the Tropical Pacific Observing System 2020 Workshop, A Future Sustained Tropical Pacific Ocean Observing System for Research and Forecasting, WMO and Intergovernmental Oceanographic Commission, La Jolla, CA, 27–30 January 2014.