

Curriculum Vitae

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EDUCATION:

Ph.D. Physical Oceanography 1989
University of Washington

B.A. Mathematics 1982
San Francisco State University

PRESENT POSITIONS:

Oceanographer
Ocean Climate Research Division
Pacific Marine Environmental Laboratory
NOAA, U.S. Dept. of Commerce

Affiliate Professor of Oceanography
School of Oceanography, University of Washington

PREVIOUS POSITIONS:

Postdoctoral Investigator (Sep 89 – May 91)
Department of Physical Oceanography
Woods Hole Oceanographic Institution

Postdoctoral Associate (Mar – Aug 89)
Joint Institute for the Study of the Atmosphere and Ocean
University of Washington

RECENT SERVICE:

Editor, Journal of Physical Oceanography (2011-)
CLIVAR Pacific Panel (2002-2005)
U.S. CLIVAR Scientific Steering Committee (1998-2003)

FELLOWSHIPS:

Egdvedt Fellowship, University of Washington (1982–83)
Frohlich Fellowship, CSIRO Marine Laboratory
Hobart, Australia (2001)
Post Rouge, Institut de Recherche pour le Développement
Nouméa, New Caledonia (2004)
Post Rouge, Observatoire Midi-Pyrénées
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REFEREED JOURNAL PUBLICATIONS:

- Cravatte, S., W.S. Kessler, and F. Marin (2012): Intermediate zonal jets in the tropical Pacific Ocean observed by Argo floats. *J. Phys. Oceanogr.*, submitted.
- Hristova, H.G. and W.S. Kessler (2011): Surface circulation in the Solomon Sea derived from Lagrangian drifter observations. *J. Phys. Oceanogr.*, in press.
- Cravatte, S., A. Ganachaud, Q.-P. Duong, W.S. Kessler, G. Eldin, and P. Dutrieux (2011): Observed circulation in the Solomon Sea from SADC data. *Prog. Oceanogr.*, 88(1-4), doi: 10.1016/j.pocean.2010.12.015, 116-130.
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- Cronin, M. F. and W.S. Kessler, 2009: Near-surface shear flow in the tropical Pacific cold tongue front. *J. Phys. Oceanogr.*, 39, 1200-1215.
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- Qiu, B., S. Chen, and W.S. Kessler, 2009: Source of the 70-day mesoscale eddy variability in the Coral Sea and the North Fiji Basin. *J. Phys. Oceanogr.*, 39, 404-420.
- Perez, R.C., and W.S. Kessler, 2009: The three-dimensional structure of the tropical circulation cell in the central equatorial Pacific Ocean. *J. Phys. Oceanogr.*, 39(1), 27-49.
- Ganachaud, A., L. Gourdeau, and W.S. Kessler, 2008: Bifurcation of the subtropical south equatorial current against New Caledonia in December 2004 from a hydrographic inverse box model. *J. Phys. Oceanogr.*, 38(9), 2072-2084.
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- Kessler, W.S. and L. Gourdeau, 2007: The annual cycle of circulation of the southwest subtropical Pacific, analyzed in an ocean GCM. *J. Phys. Oceanogr.*, **37**(6), 1610-1627.
- Jochum, M., M.F. Cronin, W.S. Kessler and D. Shea, 2007: Observed horizontal temperature advection by tropical instability waves. *Geophys. Res. Lett.*, **34**, L09604, doi:10.1029/2007GL029416.
- Lyman, J. M., G.C. Johnson and W.S. Kessler, 2007: Structure of 17-day versus 33-day tropical instability waves in the equatorial Pacific. *J. Phys. Oceanogr.*, **37**(4), 855-872.
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REFEREED JOURNAL PUBLICATIONS (CONTINUED):

- Kessler, W.S., 2004: Intraseasonal Variability in the Oceans. In "Intraseasonal variability of the Atmosphere-Ocean System". W.K.M. Lau and D.E. Waliser, Eds. Praxis Publishing.
- Kessler, W.S., G.C. Johnson and D.W. Moore, 2003: Sverdrup and nonlinear dynamics of the Pacific South Equatorial Current. *J.Phys.Oceanogr.*, **33**(5), 994-1008.
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- Kessler, W.S., 2002: Is ENSO a cycle or a series of events? *Geophys.Res.Lett.*, **29**(23), 2125, doi:10:1029/2002GL015924, 2002.
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- Kessler, W.S., M.C. Spillane, D.E. Harrison and M.J. McPhaden, 1996: Scales of variability in the equatorial Pacific inferred from the TAO buoy array. *J.Climate*, **9**, 2999-3024.
- Kessler, W.S. and M.J. McPhaden, 1995a: Oceanic equatorial waves and the 1991-93 El Niño. *J. Climate*, **8**, 1757-1774.
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Ganachaud, A., G. Brassington, W. Kessler, C.R. Mechoso, S. Wijffels, K. Ridgway, W. Cai, N. Holbrook, P. Sutton, M. Bowen, B. Qiu, A. Timmermann, D. Roemmich, J. Sprintall, D. Neelin, B. Lintner, H. Diamond, S. Cravatte, L. Gourdeau, P. Eastwood, and T. Aung (2008): Southwest Pacific Ocean Circulation and Climate Experiment (SPICE)-Part II. Implementation plan. International CLIVAR Project Office, CLIVAR Publication Series No. 133, NOAA OAR Special Report, 36 pp.

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Zhang, C., H.H. Hendon, W.S. Kessler and A.J. Rosati, 2001: A workshop on the MJO and ENSO: Meeting summary. *Bull.Am.Met.Soc.*, **82**(5), 971-976.

Davis, R.E., W.S. Kessler, R. Lukas and R. Weller, et al., 2000: Implementing the Pacific Basin Extended Climate Study (PBECS). U.S. CLIVAR, 113 pp.

Lukas, R., R.E. Davis and W.S. Kessler, 1998: Prospectus for a Pacific Basinwide Extended Climate Study. Texas A&M University, 36 pp.

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