

Biographical Sketch

DEAN H. ROEMMICH

Scripps Institution of Oceanography

University of California San Diego

La Jolla, CA 92093-0230

Phone : 1-858- 534-2307, Fax 1-858-534-9820

E-mail droemmich@ucsd.edu

Education:

High School Diploma: Pikesville High School, Pikesville Maryland, 1966.

B.A., Physics, Swarthmore College, Swarthmore, Pennsylvania, 1970.

Ph.D., Oceanography, Massachusetts Institute of Technology and Woods Hole Oceanographic Inst., Joint Program in Oceanography, 1980. (advisor: Carl Wunsch)

Employment history:

U.S. Peace Corps, Washington D.C.

Volunteer (Tonga): 1970 – 1972; Volunteer (Fiji): 1974

Staff Teacher Trainer (Tonga): 1972-1975 (intermittent)

Woods Hole Oceanographic Institution, Woods Hole Massachusetts:

Graduate Research Assistant 1975 – 1979

Postdoctoral Investigator, 1980 - 1981

Scripps Institution of Oceanography, University of California, San Diego, California

Assistant Research Oceanographer, 1981 – 1984

Associate Research Oceanographer, 1984 – 1987

Associate Professor of Oceanography, 1987 – 1994

Professor of Oceanography, 1994 – present

Students advised: Michele Morris (PhD, 1996), John Gilson, Christina Johnson, Joshua Willis (PhD, 2004), Elizabeth Douglass (PhD, 2007), Donata Giglio, Timothy Ray

Postdoctoral investigators advised: Susan Hautala, Janet Sprintall, Xuebin Zhang, Nathalie Zilberman

Research interests: General circulation of the oceans; Role of the ocean in the climate system

Present Service/Activities:

International Argo Steering Team (Co-Chair)

U.S. Argo Float Consortium (Lead Principal Investigator)

U.S. Argo Science and Implementation Panel (Member)

IPCC 5th Assessment Report, Lead Author – Chapter 3 (Ocean Observations)

International CLIVAR Global Synthesis and Observations Panel (Member, Former Co-Chair)

Pacific Islands' Global Ocean Observing System (PI-GOOS, Advisory Committee member)

SERREAD Steering Team (Pacific Islands-based curriculum development program)

WMO/IOC JCOMM Observations Coordination Group (Member)

Global Ocean Data Assimilation Experiment (GODAE) Ocean View Steering Team (member)

U.S. National Committee for the Intergovernmental Oceanographic Commission of UNESCO (member)

Awards:

2010 Fellow of the American Geophysical Union

2008 American Meteorological Society Sverdrup Gold Medal Award (“For major contributions to the measurement and understanding of the ocean’s role in climate”)

2003 National Ocean Partnership Program: Excellence in Partnering Award. Presented to the Argo Project.

Selected Recent Publications:

Roemmich, D., W.J. Gould and J. Gilson, 2012: 135 years of global ocean warming from the Challenger Expedition to the Argo Program. *Nature Climate Change*, DOI: 10.1038/NCLIMATE1461.

Giglio, D., D. Roemmich and S.T. Gille, 2012: Wind-driven variability of the subtropical North Pacific Ocean. *Journal of Physical Oceanography* (in press)

Zilberman, N.V., D.H. Roemmich, and S.T. Gille, 2012 The mean and the time-variability of the shallow meridional overturning circulation in the tropical South Pacific Ocean. Accepted by *Journal of Climate*.

Roemmich, D., and J. Gilson, 2011: The global ocean imprint of ENSO, *Geophysical Research Letters*, 38, L13606, doi:10.1029/2011GL047992.

Auad, G., D. Roemmich, and J. Gilson, 2011: The California Current System in relation to the Northeast Pacific Ocean circulation. *Progress in Oceanography*, 91, 576-592, <http://www.sciencedirect.com/science/article/pii/S0079661111001157>

Sutton, P., and D. Roemmich, 2011: Decadal steric and sea surface height changes in the Southern Hemisphere, *Geophysical Research Letters*, 38, L08604, doi:10.1029/2011GL046802.

Roemmich, D. and 12 co-authors. 2010. Integrating the ocean observing system: Mobile platforms. In *Proceedings of OceanObs’09: Sustained Ocean Observations and Information for Society (Vol. 1)*, Venice, Italy, 21-25 September 2009, Hall, J., Harrison, D.E. & Stammer, D., Eds., ESA Publication WPP-306.

Douglass, E.M., D. Roemmich and D. Stammer, 2010. Interannual variability in North Pacific heat and freshwater budgets. *Deep-Sea Research II* 57, 1127-1140.

Roemmich D. and J. Gilson, 2009. The 2004–2008 mean and annual cycle of temperature, salinity, and steric height in the global ocean from the Argo Program. *Progress in Oceanography*, doi:10.1016/j.pocean.2009.03.004.

Roemmich, D., G.C. Johnson, S. Riser, R. Davis, J. Gilson, W.B. Owens, S.L. Garzoli, C. Schmid, and M. Ignaszewski, 2009. The Argo Program: Observing the global ocean with profiling floats. *Oceanography*, 22(2), 34-43.

Roemmich, D. and the Argo Steering Team, 2009. Argo: The challenge of continuing 10 years of progress. *Oceanography*, 22(3), 26-35.

Roemmich, D., J. Gilson, R. Davis, P. Sutton, S. Wijffels, S. Riser, 2007. Decadal spin-up of the South Pacific subtropical gyre. *Journal of Physical Oceanography*, 37(2), 162-173.