

CURRICULUM VITAE - ROBERT A. WELLER

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EDUCATION

- 1972 B.A., magna cum laude, Harvard University (Engineering and applied physics)
(advisor: Dr. D. James Baker)
- 1978 Ph.D., Scripps Institution of Oceanography, University of California, San Diego,
(advisor: Dr. Russ Davis)

PROFESSIONAL EMPLOYMENT

- 1970-1972 Research Assistant, 1970-1972, Division of Engineering and Applied Physics, Harvard University
- 1972-1978 Research Assistant, Scripps Institution of Oceanography (SIO)
- 1978-1979 Postgraduate Research Oceanographer, SIO
- 1979-1980 Postdoctoral Scholar, Woods Hole Oceanographic Institution (WHOI)
- 1980 Postdoctoral Investigator, WHOI
- 1980-1984 Assistant Scientist, WHOI
- 1984-1988 Associate Scientist, WHOI
- 1988-1994 Associate Scientist with Tenure, WHOI
- 1994 - Senior Scientist, WHOI
- 1998-2011 Director, Cooperative Institute for Climate and Ocean Research
- 2006-2010 Chair, Department of Physical Oceanography, WHOI
- 2007- Principal, Co-Principal Investigator, Coastal and Global Scale Nodes of the NSF Ocean Observatory Initiative (OOI), WHOI

RESEARCH INTERESTS

Upper ocean response to atmospheric forcing (wind stress and buoyancy flux) and the role of horizontal variability in air-sea interaction. The role of surface waves and related processes in upper ocean dynamics. Coupling between the upper ocean and the interior. Innovative ocean observations. The prediction of upper ocean variability on scales of meters to 10's of kilometers. Sustained, climate quality observations in the upper ocean and at the surface of the ocean. The ocean's role in climate.

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RELATED PROFESSIONAL EXPERIENCE

Professional Societies

American Geophysical Union, American Meteorological Society, American Association for the Advancement of Science, The Oceanography Society, U.S. Naval Institute, IEEE, IEEE Oceanic Engineering Society

Federal government

Ocean Research Advisory Panel (ORAP), FACA panel
Member, 2011 - ; co-chair Observations subpanel 2011 - ;
Vice Chair, 2011-2013, Chair 2013-

National Research Council/National Academy of Sciences

Computer Science and Telecommunications Board, Committee
Toward A National Collaboratory, 1991-1993;
GOALS (Global Ocean Atmosphere Land System) Panel, 1995-1997;
GEWEX (Global Energy and Water Cycle Experiment) Panel, 1995-1997;
Panel on the Global Ocean Observing System, 1996-1997;
TOGA Panel on Near-Term Development of Operational Ocean
Observations, 1991-1993;
Committee on Radio Frequencies, 1990-1996;
Guidance Group for formation of a Committee to consider 'On Being
A Scholar in a Digital Age', 1998-2000;
Board on Atmospheric Sciences and Climate, 1999-2001.
Committee to Review the U.S. Climate Change Science Program
Strategic Plan, 2002-2004;
Committee on Implementation of a Seafloor Observatory Network
For Oceanographic Research, 2002-2004;
Committee on Environmental Satellite Data Utilization, 2002-2004;
Committee on Strategic Guidance for National Science Foundation
Atmospheric Sciences Division, 2004-2006;
Weather Panel of Committee on Decadal Study for Satellites, 2005-2008;
Chair, Committee on Assessment of Intraseasonal to Interannual
Climate Prediction and Predictability, 2009 - 2010;
Co-chair, Committee on a Strategic Vision and Implementation Plan for
the U.S. Antarctic Program, 2014-

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RELATED PROFESSIONAL EXPERIENCE

International science panels

CCCO-JSC Ocean Observing System Development Panel (OOSDP) 1990-1995;
JSTC/WCRP Ocean Observations for Climate Panel, 1995 -present;
International CLIVAR Scientific Steering Group, 1999-2007.
Chair, CLIVAR Pacific Implementation Workshop Organizing
Committee, 1999-2004
WOCE International Indian Ocean Special Studies working group, 1991-1992.
TOGA (Tropical Ocean-Global Atmosphere) Program
TOGA Coupled Ocean Atmosphere Response Experiment (COARE)
Science Working Group, 1990-1994;
International Scientific Oversight Team, 1992-1993;
VEPIC (VAMOS-EPIC Science steering group), 1999-2001;
IOC Data Exchange Policy Group, 2000-2001
GOOS Capacity Building Panel, 2000-2001;
GEOSS Science and Technology Committee, 2004-
POGO (Partnership for Observations of the Global Ocean) 1999- ;
VAMOS Science Steering Committee, 2002 - ;
EuroSITES Steering Committee, 2010-2011;
FixO3 Advisory Committee, 2011- ;
Ocean Networks Canada Science Advisory Board, 2011 - ;
EarthScope Science Advisory Committee, 2014-

National science panels

W.O.C.E. (World Ocean Circulation Experiment)
Working Group on the Surface Layer
Working Group on Technology Development,
Process Studies Implementation Panel (chairman)
Working Group for In-Situ Measurements for Fluxes
Organizing Committee for the Workshop on Atmospheric
Forcing of Ocean Circulation
U. S. CLIVAR (Climate Variability)
Scientific Steering Committee, 1998- 2008
Co-Chair, Pacific Implementation Group, 1998 -2001
Co-Chair, U.S. CLIVAR SSC, 2001 – 2008
Chair, U.S. CLIVAR SSC, 2013 -

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RELATED PROFESSIONAL EXPERIENCE (continued)

U.S. Navy, Office of Naval Research

Coordinator for the Frontal Air-Sea Interaction Experiment (FASINEX), 1984-1988;
Coordinator for the Surface Wave Processes Program (SWAPP), 1989-1995;
Executive Committee for Marine Luminescence in the Mixed Layer (MLML), 1988-1991,
Executive Committee for Subduction program, 1990-1995;
Planning Committee for the Atlantic Stratocumulus Transition Experiment (ASTEX), 1990-1992
Secretary of the Navy Chair in Oceanography, 1998-
Deputy Undersecretary of Defense Technology Area Review and Assessment (TARA) panel for Battlespace Environments, 1998.
Chair, ONR Code 32/Battlespace Environments Board of Visitors, 2000
WHOI-Surface Warfare Development Group Workshop, 2000
Co-coordinator (with Jim Edson) ONR CBLAST-LOW, (Coupled Boundary Layer Air-Sea Interaction - Low wind), 2000-2003
Panel for 2008 ONR Discovery and Invention Review
Review Panel for ONR Ocean Optics Program, 2010

National Science Foundation

National Center for Atmospheric Research, Atmospheric Technology Division Review Panel, 1993-1996;
HIAPER Review Panel, 1998

NOAA

Chairman, science team and later science advisory group for the Surface and Upper Ocean Observations Project of the NOAA Climate and Global Change Program, 1990- 1994;
NOAA NODC/Joint Oceanographic Institutions, Sea Surface Temperature Working Group, 1991-1992;
Science Working Group, Pan American Climate Studies (PACS), 1997-2000;
Chair, EPIC (Eastern Pacific Investigation of Climate) Science Steering Group, 1997-2007;
Director, WHOI-NOAA Cooperative Institute for Climate and Ocean Research (CICOR), 1998-2011.
NOAA Climate Council, 1999-2000;
NOAA Climate Observing Systems Council, 1999-2013
NEOS (Northeast Ocean Observing System) Steering Group, 1999-2004;
NOAA Climate Working Group, 2008 - 2012

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RELATED PROFESSIONAL EXPERIENCE (continued)

American Meteorological Society

Program Committee, Seventh Conference on Ocean-Atmosphere Interaction
Associate Editor, Journal of Atmospheric and Oceanic Technology, 1993-1998
AMS Councilor, 2006-2008

American Geophysical Union

Translations Board, 1991 -1995;
Macelwane Medal Committee, 1992-1995,
GRL Editor Search Committee, 1995;
Bowie Medal Committee, 1997;
Ocean Sciences section Fellows Committee, 1997-2002;
Finance and Budget Committee, 1998-2002;
Editor, physical oceanography section of Contributions in
Oceanography, U. S. National Report 1987--1990.
Editor, Contributions in Oceanography, U. S. National Report, 1991-1994
Associate Editor, Journal of Geophysical Research, 1996-2000;
President-elect, Ocean Sciences Section, 1998-2000.
President, Ocean Sciences Section, 2000-2002.
Ocean Sciences section Executive Committee, 2002-2004

Consortium for Oceanographic Research and Education/Consortium for Ocean Leadership (CORE/COL)

Ocean Observatories Steering Committee, 2000-2006
ORAP subcommittee to review the Integrated Ocean Observing Plan, 2000
DEOS (Dynamics of Earth Ocean Systems) Executive Committee, 2002- 2006.

Other

Vice Chairman, IEEE Current Meter Technology Committee, 1990-1995;
NASA Working Group on Science Requirements for Low Frequency
Passive Microwave Observations of the Earth, 1990-1991;
Scientific Organizing Committee, International Liege Colloquium on Ocean
Hydrodynamics: Sub-mesoscale air-sea interactions, Liege, May 1992
GOMOOS (Gulf of Maine Ocean Observing System), CEO Search Committee, 2000
Encyclopedia of Oceanography, Editorial Advisory Board 2008-2010
SEAFLUX Organizing Committee (with Judy Curry, Bill Rossow and Jorg Schulz),
a project to look at producing turbulent air-sea fluxes from satellite data,
1998-2000
Hawaii Cabled Observatory Science Advisory Committee, 2010- ;
Ocean Networks Canada, International Science Advisory Board, 2012- ;
FixO3, European sustained time series, Advisory Board, 2012 - ;

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HONORS AND AWARDS

- 1972 Clement Herschel Prize in Hydraulics, 1972, Harvard University
- 1979 Patent: U.S. Patent No. 4,152,934, "Vector Measuring Current Meter"
- 1986 James B. Macelwane Award, 1986, American Geophysical Union
- 1986 Fellow, American Geophysical Union
- 1991 NASA Certificate of Recognition
- 1993-1997 Henry B. Bigelow Chair for Excellence in Oceanography, WHOI
- 1998-2002 Secretary of the Navy/CNO Chair in Oceanography
- 2003 Sverdrup Gold Medal, American Meteorological Society
- 2003 Fellow, American Meteorological Society
- 2011 Senior Member, IEEE
- 2012 Fellow, American Association for the Advancement of Science

CRUISE PARTICIPATION AND FIELD WORK

- 1972 U.S.C.G. *Evergreen*, Site D, February
- 1973 R.V. *Thomas Washington*, Kuroshio Current survey, August
- 1974 R.V. *Thomas Washington*, NORPAX (North Pacific Experiment) Pole Experiment, January-February
- 1976 R. V. *Alexander Agassiz-7603*, TWATE III, current meter test, February-March
- 1977 R.P. *FLIP* (FLoating Instrument Platform), thesis experiment, January
- 1980 R.P. *FLIP*, upper ocean response study, May
- 1980 R.V. *Oceanus-85*, Long Term Upper Ocean Study (LOTUS), August
- 1980 R.V. *Knorr-85*, Gulf Stream Extension and LOTUS, November
- 1981 R.V. *Knorr-87*, LOTUS, February, Chief Scientist
- 1981 R.V. *Oceanus-103*, LOTUS, September, Chief Scientist
- 1982 R.V. *Oceanus-119*, LOTUS, May
- 1982 R.P. *FLIP*, upper ocean studies, December, Chief Scientist
- 1983 R.P. *FLIP*, upper ocean studies, May, co-Chief Scientist;
- 1983 R.P. *FLIP*, October-November, 35-day Mixed Layer Dynamics Experiment (MILDEX), co-Chief Scientist
- 1984 R.V. *Oceanus-145*, LOTUS, January
- 1984 R. V. *Oceanus*, LOTUS, May
- 1986 R.V. *Knorr-119*, FASINEX (Frontal Air-Sea Interaction Experiment), co-Chief Scientist, January-February
- 1986 R.V. *Oceanus-175*, FASINEX, Chief Scientist, February-March
- 1986 R.V. *Knorr-123*, FASINEX, Chief Scientist, June
- 1989 R.V. *Endeavor*, Buoy Farm, test buoy deployment, January
- 1989 R.P. *FLIP*, surface wave and mixed layer study (SWAPP) trial cruise, July-August

CRUISE PARTICIPATION AND FIELD WORK (continued)

- 1990 R. P. *FLIP*, SWAPP (Surface Wave Processes Program), Co-chief Scientist,

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- February-March
- 1991 R.V. *Oceanus* -240, leg 3, Subduction mooring deployment, Chief Scientist, June-July
- 1992 R. V. *Oceanus*-250, Subduction, Chief Scientist, January-February
- 1993 Stationed at the TOGA COARE Operations Center in Townsville, Australia for the month of February
- 1993 R. V. *Wecoma*, Chief Scientist, TOGA COARE mooring recovery cruise in western equatorial Pacific, March
- 1994 R. V. *Thomas Thomspon*-TN040, mooring deployment cruise in Arabian Sea, October
- 1995 R. V. *Endeavor*-260, Chief Scientist, mooring deployment cruise on Georges Bank, January
- 1995 R. V. *Thomas Thompson*-TN046, Arabian Sea, Chief Scientist; mooring recovery and deployment cruise in Arabian Sea, April
- 1995 R. V. *Thomas Thompson*-TN052, mooring recovery cruise in Arabian Sea, October
- 1997 R.V. *Roger Revelle*, Chief Scientist, Lima to San Diego mooring deployment cruise, April
- 1997 R.V. *Thomas Thompson*, Chief Scientist, eastern Pacific mooring recovery and deployment cruise, November-December
- 1998 R.V. *Argo Maine*, Massachusetts Bay, mooring recovery cruise, Sept.
- 1999 R.V. *Gyre*, Gulf of Mexico, Navy field experiment, GOMEX99, September
- 2000 R.V. *Melville*, Cook 02, Chief Scientist, mooring deployment in South American Stratus cloud deck west of northern Chile, September-October
- 2001 F.V. *Nobska*, Coupled Boundary Layer Air-Sea Transfer (CBLAST) Low wind air sea interaction pilot experiment, July 2001, south of Martha's Vineyard
- 2001 R. V. *Ronald H. Brown*, Chief Scientist, EPIC (Eastern Pacific Investigation of Climate) Leg II, Galapagos to Arica, Chile; air-sea interaction studies and mooring recovery and deployment, October 2001.
- 2002 R. V. *Melville*, Chief Scientist, mooring recovery and deployment, air-sea interaction studies, Puerto Caldera Costa Rica to Arica, Chile, October
- 2003 F.V. *Nobska*, Coupled Boundary Layer Air-Sea Transfer (CBLAST) Low wind air sea interaction experiment, August
- 2003 R. V. *Roger Revelle*, Dana 03, Chief Scientist, mooring recovery and deployment and air-sea interaction studies, Manta Ecuador to Arica, Chile, November
- 2004 R.V. *KOK*, mooring deployment, Honolulu to Honolulu, July
- 2004 R.V. *Ronald H. Brown*, Chief Scientist, mooring recovery and redeployment and air-sea interaction studies, Arica, Chile to Valparaiso, Chile, December

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CRUISE PARTICIPATION AND FIELD WORK (continued)

- 2005 R.V. *Melville*, mooring recovery and deployment, Honolulu to Honolulu, July
- 2005 R.V. *Ronald H. Brown*, climate studies and mooring recovery and deployment, Miami to Arica, Chile, October
- 2005 R.V. *Oceanus*, Chief Scientist, mode water formation experiment, mooring deployment, Woods Hole to Woods Hole, November
- 2006 R.V. *Revelle*, Chief Scientist, climate studies, mooring recovery and deployment, June
- 2006 NOAA Ship *Ronald H. Brown*, Chief Scientist, climate studies and mooring recovery and deployment, northern Chile, October
- 2006 R.V. *Oceanus*, Chief Scientist, mode water formation experiment, mooring recovery and deployment, Woods Hole to Woods Hole, November
- 2007 R.V. *Oceanus*, Chief Scientist, mode water formation experiment, mooring recovery and deployment, Woods Hole to Woods Hole, September-October
- 2007 NOAA Ship *Ronald H. Brown*, Chief Scientist, climate studies and mooring recovery and deployment, northern Chile, October
- 2008 R.V. *Kilo Moana*, Chief Scientist, mooring recovery and deployment, Hawaii, June
- 2008 NOAA Ship *Ronald H. Brown*, Chief Scientist, VAMOS Ocean Cloud Atmosphere Land Study (VOCALS), Charleston SC to Arica, Chile, Sept-Nov
- 2010 NOAA Ship *Ronald H. Brown*, Chief Scientist, Stratus Mooring, Charleston SC to Arica, Chile, January
- 2010 R.V. *Kilo Moana*, Chief Scientist, mooring recovery and deployment, Hawaii, July
- 2011 R.V. *Oceanus*, Chief Scientist, CGSN OOI At Sea Test 2, mooring deployment, September
- 2012 R.V. *Knorr*, Chief Scientist, CGSN OOI At sea Test 2, mooring recovery, April
- 2012 R.V. *Melville*, Chief Scientist, Stratus mooring recovery and deployment cruise, Valparaiso, Chile to Puerto Ayora, Galapagos
- 2014 NOAA Ship *Ronald H. Brown*, Chief Scientist, Stratus 13 and DART, RHB 14-01, mooring recovery and deployment, Valparaiso, Chile to Arica, Chile, February-March 2014
- 2014 R.V. *Knorr*, Chief Scientist, OOI Irminger Array deployment cruise, Reykjavik to Woods Hole, September 2014

EDUCATION EXPERIENCE

Teaching:

Course, 19.98, Air-Sea Interactions, with M. Briscoe and J. Price in fall 1981, with J. Price in spring 1983, with Jim Price in spring 1985; Course, 12.733, Air-Sea Interaction with J. Price and G. Terray in spring 1987; Lectures in W.H.O.I.-M.I.T. Joint Program Course, 12.758, Topics in

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Physical Oceanography, fall 1985;

Laboratory (with Jim Edson) for 12.773, Air-Sea Interactions in spring 1991

Advising:

J. Lillibridge, Joint Program student, summer, 1981;

General Exam and Thesis committees for L. Rosenfeld, 1982-1986;

K. Speer, Joint Program student, 1982-1984;

Summer advisor to I. Fukomori, incoming Joint Program student, 1983;

Summer advisor to A. Gnanadesikan, Summer Student Fellow, 1986;

Summer advisor to Marjorie MacWhorter, summer fellow 1988,

incoming Joint Program student, 1989;

Thesis committee for Rich Signell, Joint Program student, 1987-1989;

Principal advisor for A. Gnanadesikan, Joint Program student, 1988-1996;

Thesis Committees for Andy Trivett, Rebecca Schudlich, and Markuu Santala,

Joint Program Students, 1989-1991;

Thesis Committee for Len Zedel, University of British Columbia, 1991;

Summer advisor for Summer Fellow, Maille O'Brien, 1991;

Thesis Committee for Ed Dever, Joint Program Student, 1991-1994;

Thesis Committee for Fred Thwaites, Joint Program Student, 1993-1995;

Summer advisor to A. Fischer, Summer Student Fellow, 1994;

Principal advisor for A. Fischer, Joint Program student, 1995-2000. .

Thesis Committee for Bob Helber, Univ. of South Florida PhD student, PhD 2003

Thesis Committee for Jyotika Virmani, Univ. of South Florida PhD Student

Principal advisor to Tom Farrar, Joint Program Student, 2000-2006

Thesis Reader for Rob Crofoot, WHOI/Navy Masters Student, 2004

Publications (Reviewed Journals)

Barnett, T. P., R. A. Knox and R. A. Weller, 1977. Space/time structure of the near surface temperature field during the Norpax Pole Experiment. *Journal of Physical Oceanography*, **7**(4), 572-579.

Weller, R.A. and R. E. Davis, 1980. A vector measuring current meter. *Deep-Sea Research*, **27A**, 565-582.

Halpern, David, Robert A. Weller, Melbourne G. Briscoe, Russ E. Davis and James R. McCullough, 1981. Intercomparison tests of moored current measurements in the upper ocean. *Journal of Geophysical Research*, **86**(C1), 419-428.

Weller, Robert A., 1981. Observations of the velocity response to wind forcing in the upper ocean. *Journal of Geophysical Research*, **86**(C3), 1969-1977.

Weller, Robert A., 1982. The relation of near-inertial motions observed in the mixed layer during the JASIN (1978) experiment to the local wind stress and to the quasi-geostrophic flow field. *Journal of Physical Oceanography*, **12**(10), 1122-1136.

Publications (Reviewed Journals)

- Weller, R.A. and D. Halpern, 1983. The velocity structure of the upper ocean in the presence of surface forcing and mesoscale oceanic eddies. *Philosophical Transactions of the Royal Society of London*, **A 308**, 327-340.
- Prangma, G. J., T. H. Guymer, P. Kruseman, R. T. Pollard and R. A. Weller, 1983. Development of the temperature and salinity structure of the upper ocean over two months in an area 150 km x 150 km. *Philosophical Transactions of the Royal Society of London*, **A, 308**, 311-325.
- Levine, M. D., C. A. Paulson, M. G. Briscoe, R. A. Weller, and H. Peters, 1983. Internal waves in JASIN. *Philosophical Transactions of the Royal Society of London*, **A, 308**, 389-405.
- Weller, Robert A., Richard E. Payne, W. G. Large and Walter Zenk, 1983. Wind measurements from an array of oceanographic moorings and from F/S *Meteor* during JASIN 1978. *Journal of Geophysical Research*, **88(C14)**, 9689-9705.
- Briscoe, Melbourne G. and R. A. Weller, 1984. Preliminary results from the Long-Term Upper Ocean Study (LOTUS). *Dynamics of Atmospheres and Oceans*, **8**, 243-265.
- Weller, Robert A., Jerome P. Dean, John Marra, James F. Price, Erika A. Francis and David C. Boardman, 1985. Three dimensional flow in the upper ocean. *Science*, **227(4694)**, 372-385.
- Weller, Robert A., 1985. Near surface velocity variability at inertial and subinertial frequencies in the vicinity of the California Current. *Journal of Physical Oceanography*, **15(4)**, 372-385.
- Stage, Steven A. and Robert A. Weller, 1985. The Frontal Air-Sea Interaction Experiment (FASINEX); Part I: Background and scientific objectives. *Bulletin of the American Meteorological Society*, **66(12)**, 1511-1520.
- Stage, Steven A. and Robert A. Weller, 1986. The Frontal Air-Sea Interaction Experiment (FASINEX); Part II: Experimental Plan. *Bulletin of the American Meteorological Society*, **67(1)**, 16-20.
- Stramma, Lothar, Peter Cornillon, Robert A. Weller, James F. Price, and Melbourne G. Briscoe, 1986. Large diurnal sea surface temperature variability: satellite and in situ measurements. *Journal of Physical Oceanography*, **16**, 827-837.
- Price, James F., Robert A. Weller, and Robert Pinkel, 1986. Diurnal cycling: Observations and models of upper ocean response to diurnal heating, cooling, and wind mixing. *Journal of Geophysical Research*, **91(C7)**, 8411-8427.
- Smith, Jerome, Robert Pinkel, and Robert A. Weller, 1987. Velocity structure in the mixed layer during MILDEX. *Journal of Physical Oceanography*, **17(4)**, 425-439.
- Price, James F., Eugene A. Terray, and Robert A. Weller, 1987. Upper Ocean Dynamics. *Reviews of Geophysics*, **25(2)**, 193-203.

Publications (Reviewed Journals)

- Price, James F., Robert A. Weller, Clarke M. Bowers, and Melbourne G. Briscoe, 1987. Diurnal response of sea surface temperature observed at LOTUS (34°N, 70°W) in the Sargasso Sea. *Journal of Geophysical Research*, **92(C13)**, 16-20.
- Price, James F., Robert A. Weller, and Rebecca R. Schudlich, 1987. Ekman transport and wind-driven ocean velocity. *Science*, **238**, 1534-1538.
- Weller, Robert A. and James F. Price, 1988. Langmuir Circulation within the oceanic mixed layer. *Deep-Sea Research*, **35(5A)**, 711-747.
- Paduan, Jeffrey D., Roland A. DeSzoeko, and Robert A. Weller, 1989. Inertial oscillations in the upper ocean during the Mixed Layer Dynamics Experiment (MILDEX). *Journal of Geophysical Research*, **94(C4)**, 4835-4842.
- Weller, Robert A., Daniel L. Rudnick, Nancy J. Pennington, Richard P. Trask, and James R. Valdes, 1990. Measuring upper ocean variability from an array of surface moorings in the subtropical convergence zone. *Journal of Atmospheric and Oceanic Technology*, **7**, 68-84.
- Weller, Robert A., Daniel L. Rudnick, Richard E. Payne, Jerome P. Dean, Nancy J. Pennington, and Richard P. Trask, 1990. Measuring near-surface meteorology over the ocean from an array of surface moorings in the subtropical convergence zone. *Journal of Atmospheric and Oceanic Technology*, **7**, 85-103.
- Li, F.K.; Neumann, G.; Weller, R. H., "Observations Of Ocean Ku-band Radar Cross Section At Low Wind Speed During Fasinex," *Geoscience and Remote Sensing Symposium, 1990. IGARSS '90. 'Remote Sensing Science for the Nineties'*, 10th Annual International , vol., no., pp.2143,2147, 20-24 May 1990. doi: 10.1109/IGARSS.1990.688956 [typo in name R. H. Weller]
- MacWhorter, M. A. and R. A. Weller, 1991. Error in measurements of incoming shortwave radiation made from ships and buoys. *Journal of Atmospheric and Oceanic Technology*, **8(1)**, 108-117.
- Weller, Robert A., 1991. FASINEX, A study of air-sea interaction in a region of strong oceanic gradients. *Journal of Geophysical Research*, **96(C5)**, 8501-8516.
- Eriksen, C. C., R. A. Weller, D. L. Rudnick, R. T. Pollard, K. H. Brink, and L. A. Regier, 1991. Ocean frontal variability in FASINEX. *Journal of Geophysical Research*, **96(C5)**, 8569-8591.
- Weller, R. A., D. L. Rudnick, C. C. Eriksen, K. L. Polzin, N. S. Oakey, J. W. Toole, R. W. Schmitt, and R. T. Pollard, 1991. Forced ocean response during the Frontal Air-Sea Interaction Experiment (FASINEX). *Journal of Geophysical Research*, **96(C5)**, 8611-8638.
- Weller, R. A., M. A. Donelan, M. G. Briscoe, and N. E. Huang, 1991. Riding the crest: A tale of two wave experiments. *Bulletin of the American Meteorological Society*, **72(2)**, 163-183.

Publications (Reviewed Journals)

- Park, M. M., R. C. Singer, A. J. Plueddemann, and R. A. Weller, 1991. High-speed, real-time data acquisition for Vector-Measuring Current Meters. *IEEE Journal of Oceanic Engineering*, **16**(4), 360-367.
- O'Brien, M. M., A. J. Plueddemann, and R. A. Weller, 1991. The response of ocean mixed layer depth to physical forcing: modelled vs observed. *Biological Bulletin*, **181**(2), 360-361.
- Crescenti, G. H. and R. A. Weller, 1992. Analysis of surface fluxes in the marine atmospheric boundary layer in the vicinity of rapidly intensifying cyclones. *Journal of Applied Meteorology*, **31**(8), 831-848.
- Rudnick, D. L. and R. A. Weller, 1993. The heat budget in the North Atlantic subtropical frontal zone. *Journal of Geophysical Research*, **98**(C4), 6883-6893.
- Rudnick, D. L. and R. A. Weller, 1993. Observations of superinertial and near-inertial wind-driven flow. *Journal of Physical Oceanography*, **23**, 2351-3708.
- Dickey, T. D., D. V. Manov, D. A. Siegel, and R. A. Weller, 1994. Determination of net longwave heat flux at the air-sea interface using measurements from ship and buoy platforms. *Journal of Atmospheric and Oceanic Technology*, **11**(4), 1057-1078.
- Dickey, T., J. Marra, M. Stramska, C. Langdon, T. Granata, R. Weller, A. Plueddemann, and J. Yoder, 1994. Bio-optical and physical variability in the Sub-Arctic North Atlantic Ocean during the spring of 1989. *Journal of Geophysical Research*, **99**, 22,541-22,556.
- Reider, K. F., J. A. Smith, and R. A. Weller, 1994. Observed directional characteristics of the wind, wind stress, and surface waves on the open ocean. *Journal of Geophysical Research*, **99**(C11), 22,589-22,596.
- Plueddemann, A. J., R. A. Weller, M. Stramska, T. Dickey, and J. Marra, 1995. The vertical structure of the upper ocean during the Marine Light-Mixed Layer experiment. *Journal of Geophysical Research*, **100**(C4), 6605-6619.
- Weller, R. A., D. L. Rudnick, and N. J. Brink, 1995. Meteorological variability and air-sea fluxes at a closely spaced array of surface moorings. *Journal of Geophysical Research*, **100**(C3), 4867-4883.
- Stramska, M., T. Dickey, J. Marra, A. Plueddemann, C. Langdon, and R. Weller, 1995. Bio-optical variability associated with phytoplankton dynamics in the North Atlantic Ocean during spring and summer of 1991. *Journal of Geophysical Research*, **100**(C4), 6621-6632.
- Gnanadesikan, A. and R. A. Weller, 1995. Structure and instability of the Ekman spiral in the presence of surface gravity waves. *Journal of Physical Oceanography*, **25**(12), 3148-3171.

Publications (Reviewed Journals)

- Hosom, D. S., R. A. Weller, R. E. Payne, and K. E. Prada, 1995. The IMET (Improved METeorology) Ship and Buoy System. *Journal of Atmospheric and Oceanic Technology*, **12**(3), 527-540.
- Weller, R. A. and S. P. Anderson, 1996. Surface meteorology and air-sea fluxes in the western equatorial Pacific warm pool during the TOGA Coupled Ocean-Atmosphere Response Experiment. *Journal of Climate*, **9**(8), 1959-1990.
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