

Scripps Institution of Oceanography
University of California, San Diego
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EDUCATION

- 1996-2003 **Ph.D. in Physical Oceanography**
University of Hawaii
Honolulu, HI, USA
- 1991-1993 **M.Sc. in Physics**
University of British Columbia
Vancouver, BC, Canada
- 1987-1991 **B.Sc. (Hons.) in Engineering Physics**
Queen's University
Kingston, ON, Canada

POSITIONS

- 2015- **Associate Research Oceanographer**
Scripps Institution of Oceanography
La Jolla, CA, USA
- 2012-2015 **Assistant Research Oceanographer**
Scripps Institution of Oceanography
La Jolla, CA, USA
- 2006-2012 **Assistant Project Scientist**
Scripps Institution of Oceanography
La Jolla, CA, USA
- 2004-2006 **Postdoctoral Researcher**
Scripps Institution of Oceanography
La Jolla, CA, USA
- 2003-2004 **Postdoctoral Researcher**
Ocean Sciences Department, *University of California, Santa Cruz*
Santa Cruz, CA, USA
- 2000 **Teaching Assistant**
Department of Oceanography, *University of Hawaii*

Honolulu, HI, USA

- 1996-2003 **Research Assistant**
Department of Oceanography, *University of Hawaii*
Honolulu, HI, USA
- 1991-1993 **Research and Teaching Assistant**
Department of Physics, *University of British Columbia*
Vancouver, BC, Canada

FUNDING

- 2015-2016 **Acquisition of an Underway CTD system for the Flow Encountering Abrupt Topography DRI**
Office of Naval Research
T. M. S. Johnston
- 2015-2019 **Flow encountering abrupt topography (FLEAT)**
Office of Naval Research
T. M. S. Johnston
- 2013-2015 **Island trapped waves, internal waves, and island circulation**
Office of Naval Research
T. M. S. Johnston
- 2012-2016 **Repeat observations by gliders in the equatorial region (ROGER)**
National Science Foundation
D. L. Rudnick, W. B. Owens, T. M. S. Johnston, and K. B. Karnauskas
- 2012-2015 **Tasmanian tidal dissipation experiment (TTIDE)**
National Science Foundation
R. Pinkel, M. H. Alford, T. M. S. Johnston, J. A. MacKinnon, J. D. Nash, L. Rainville, D. Rudnick, and H. L. Simmons
- 2011-2013 **Turbulence from internal-wave beams in the upper ocean**
Office of Naval Research
S. Sarkar, T. M. S. Johnston, and D. L. Rudnick
- 2011 **Santa Cruz Basin internal tide experiment (SCBITE)**
University of California Ship Funds
A. Ponte, M. Buijsman, S. Johnston, and B. Cornuelle
RV *Melville*: 28 July-4 August
- 2009-2012 **Internal tide generation and propagation in a strong, sheared current**
Office of Naval Research: Internal waves in straits experiment (IWISE)
T. M. S. Johnston, J. A. MacKinnon, and D. L. Rudnick
- 2008-2011 **Experiment on internal tide scattering (EXITS)**

National Science Foundation

T. M. S. Johnston, G. S. Carter, and S. E. Worriolow

- 2007-2010 **Internal waves and mixing above the South-West Indian Ridge**
National Science Foundation and University of California Ship Funds
 J. A. MacKinnon, R. Pinkel, and T. M. S. Johnston
- 2007-2008 **Expansion to SeaSoar and Doppler sonar survey of internal tide generation and mixing**
Office of Naval Research: Assessing the effectiveness of submesoscale ocean parameterizations (AESOP)
 T. M. S. Johnston and D. L. Rudnick
- 2004-2007 **SeaSoar and Doppler sonar survey of internal tide generation and mixing**
Office of Naval Research: AESOP
 T. M. S. Johnston and D. L. Rudnick

PUBLICATIONS

- 2016 **Decay mechanisms of near-inertial mixed layer oscillations in the Bay of Bengal,**
 T. M. S. Johnston, D. Chaudhuri, M. Mathur, D. L. Rudnick, D. Sengupta, H. L. Simmons,
 A. Tandon, R. Venkatesan, *Oceanography*, **submitted**, 2016
- 2016 **ASIRI: An ocean-atmosphere initiative for Bay of Bengal**
Bull. Am. Meteorol. Soc., **accepted**
 H. W. Wijesekera and co-authors
- 2015 **Breaking internal tides keep the ocean in balance**
Eos, **96**, doi: 10.1029/2015EO039555
 R. Pinkel, M. Alford, A. J. Lucas, S. Johnston, J. MacKinnon, N. Jones, S. Kelly, J. Klymak,
 J. Nash, L. Rainville, H. Simmons, P. Strutton, A. Waterhouse, and Z. Zhao
- 2015 **Standing internal tides in the Tasman Sea observed by gliders**
J. Phys. Oceanogr., **45**, 2715-2737, doi: 10.1175/JPO-D-15-0038.1
 T. M. S. Johnston, D. L. Rudnick, and S. M. Kelly
- 2015 **The formation and fate of internal waves in the South China Sea**
Nature, **521**, 65-69, doi: 10.1038/nature14399
 M. H. Alford and co-authors
- 2015 **Trapped diurnal internal tides, propagating semidiurnal internal tides, and mixing estimates in the California Current System from sustained glider observations, 2006-2012**
Deep-Sea Res. II, **112**, 61-78, doi: 10.1016/j.dsr2.2014.03.009
 T. M. S. Johnston and D. L. Rudnick
- 2013 **Internal tidal energy fluxes in the South China Sea from density and velocity measurements by gliders**

- J. Geophys. Res. Oceans*, **118**, 3939-3949, doi: 10.1002/jgrc.20311
T. M. S. Johnston, D. L. Rudnick, M. H. Alford, A. Pickering, and H. L. Simmons
- 2013 **High frequency internal waves near the Luzon Strait observed by underwater gliders**
J. Geophys. Res. Oceans, **118**, 774-784, doi: 10.1002/jgrc.20083
D. L. Rudnick, T. M. S. Johnston, and J. T. Sherman
- 2011 **Internal tides around the Hawaiian Ridge estimated from multi-satellite altimetry**
J. Geophys. Res., **116**, C12039, doi: 10.1029/2011JC007045
Z. Zhao, M. H. Alford, J. Girton, T. M. S. Johnston, and G. S. Carter
- 2011 **Elevated mixing at a front**
J. Geophys. Res., **116**, C11033, doi: 10.1029/2011JC007192
T. M. S. Johnston, D. L. Rudnick, and E. Pallas-Sanz
- 2011 **Internal tidal beams and mixing near Monterey Bay**
J. Geophys. Res., **116**, C03017, doi: 10.1029/2010JC006592
T. M. S. Johnston, D. L. Rudnick, G. S. Carter, R. E. Todd, and S. T. Cole
- 2010 **Frontal dynamics in a California Current System shallow front. Part II: Mesoscale vertical velocity**
J. Geophys. Res., **115**, C12068 doi: 10.1029/2010JC006474
E. Pallas-Sanz, T. M. S. Johnston, and D. L. Rudnick
- 2010 **Frontal dynamics in a California Current System shallow front. Part I: Frontal processes and tracer structure**
J. Geophys. Res., **115**, C12067, doi: 10.1029/2009JC006032
E. Pallas-Sanz, T. M. S. Johnston, and D. L. Rudnick
- 2010 **Interference patterns and propagation of the M₂ internal tide south of the Hawaiian Ridge**
J. Phys. Oceanogr., **40**, 311-325, doi: 10.1175/2009JPO4256.1
L. Rainville, T. M. S. Johnston, G. S. Carter, M. A. Merrifield, and R. Pinkel
- 2009 **Thin phytoplankton layer formation at eddies, filaments, and fronts in a coastal upwelling zone**
Deep-Sea Res. II, **56**, 246-259, doi: 10.1016/j.dsr2.2008.08.006
T. M. S. Johnston, O. M. Cheriton, J. T. Pennington, and F. P. Chavez
- 2009 **Forecasting and reanalysis in the Monterey Bay/California Current region for the Autonomous Ocean Sampling Network-II experiment**
Deep-Sea Res. II, **56**, 127-148, doi: 10.1016/j.dsr2.2008.08.010
P. J. Haley Jr., P. F. J. Lermusiaux, A. R. Robinson, W. G. Leslie, O. Logoutov, G. Cossarini, X. S. Liang, P. Moreno, S. R. Ramp, J. D. Doyle, J. Bellingham, F. Chavez, and S. Johnston
- 2009 **Observations of the transition layer**
J. Phys. Oceanogr., **39**, 780-797, doi: 10.1175/2008JPO3824.1
T. M. S. Johnston and D. L. Rudnick

- 2008 **Strong transport and mixing of deep water through the Southwest Indian Ridge**
Nature Geosci., **1**, 755-758, doi: 10.1038/ngeo340
J. A. MacKinnon, T. M. S. Johnston, and R. Pinkel
- 2003 **Internal tide scattering at the Line Islands Ridge**
J. Geophys. Res., **108** (C11), 3365, doi: 10.1029/2003JC001844
T. M. S. Johnston, M. A. Merrifield, and P. E. Holloway
- 2003 **An international perspective on postgraduate education in physical oceanography**
Oceanogr., **16**, 128-133
H. Brix, J. Hench, H. L. Johnson, T. M. S. Johnston, J. Polton, M. Roughan, and P. Testor
- 2003 **Internal tide scattering at seamounts, ridges, and islands**
J. Geophys. Res., **108** (C6), 3180, doi: 10.1029/2002JC001528
T. M. S. Johnston and M. A. Merrifield
- 2001 **The generation of internal tides at the Hawaiian Ridge**
Geophys. Res. Lett., **28**, 559-562, doi: 10.1029/2000GL011749
M. A. Merrifield, P. E. Holloway, and T. M. S. Johnston
- 2000 **Interannual geostrophic current anomalies in the near-equatorial western Pacific**
J. Phys. Oceanogr., **30**, 3-14, doi: 10.1175/1520-0485(2000)030<0003:IGCAIT>2.0.CO;2
T. M. S. Johnston and M. A. Merrifield
- 1997 **The giant muon Knight shift in antimony: Evidence for a Kondo impurity**
Hyperfine Interactions, **106**, 71-76
T. M. S. Johnston, K. H. Chow, S. Dunsiger, T. Duty, R. F. Kiefl, E. Koster, W. A. MacFarlane, G. D. Morris, J. Sonier, and D. Ll. Williams
- 1994 **Muonium dynamics in doped Si above room temperature studied by longitudinal field-MSR**
Hyperfine Interactions, **86**, 693-698
K. H. Chow, R. F. Kiefl, J. W. Schneider, T. L. Estle, B. Hitti, R. L. Lichti, C. Schwab, S. R. Kreitzman, R. C. DuVarney, M. Senba, J. Sonier, T. M. S. Johnston, and W. A. MacFarlane
- 1994 **MSR studies in heavily doped GaAs**
Hyperfine Interactions, **86**, 645-651
K. H. Chow, R. F. Kiefl, J. W. Schneider, T. L. Estle, B. Hitti, T. M. S. Johnston, R. L. Lichti, and W. A. MacFarlane
- 1994 **MSR study of Zn-substituted $\text{YBa}_2\text{Cu}_3\text{O}_x$**
Hyperfine Interactions, **86**, 577-583, 1994
P. Mendels, J. H. Brewer, H. Alloul, E. J. Ansaldo, D. R. Noakes, C. Niedermayer, G. Collin, J. F. Marucco, C. E. Stronach, G. D. Morris, T. L. Duty, and S. Johnston
- 1994 **Hebel-Slichter peak and superconducting energy gap in Rb_3C_{60} observed by muon spin relaxation**
Hyperfine Interactions, **86**, 467-472

W. A. MacFarlane, R. F. Kiefl, K. H. Chow, S. Dunsiger, T. L. Duty, T. M. S. Johnston, J. W. Schneider, J. Sonier, L. Brard, R. M. Strongin, J. E. Fischer, and A. B. Smith III

- 1994 **Inhomogeneous muonium diffusion in solid nitrogen**
Hyperfine Interactions, **85**, 103-108
V. Storchak, J. H. Brewer, W. N. Hardy, S. Johnston, S. R. Kreitzman, and G. D. Morris
- 1993 **Bond-centered muonium in diamond: resolved nuclear hyperfine structure**
Phys. Rev. Lett., **71**, 557-560
J. W. Schneider, R. F. Kiefl, K. H. Chow, S. Johnston, and J. Sonier
- 1993 **Coherence peak and superconducting energy gap in Rb_3C_{60} observed by muon spin relaxation**
Phys. Rev. Lett., **70**, 3987-3990
R. F. Kiefl, W. A. MacFarlane, K. H. Chow, S. Dunsiger, T. L. Duty, T. M. S. Johnston, J. W. Schneider, J. Sonier, L. Brard, R. M. Strongin, J. E. Fischer, and A. B. Smith III

ABSTRACTS

- 2015 **Observations of an internal tide beam in the Tasman Sea**
Ocean Sciences, PO31C-01
A. Waterhouse, S. Kelly, J. MacKinnon, J. Nash, S. Johnston, Z. Zhao, L. Rainville, H. Simmons, D. Brazhnikov, and D. Rudnick
- 2015 **Observations of arrested internal lee waves at a tall, steep submarine ridge**
Ocean Sciences, PO34C-3074
C. Ou and S. Johnston
- 2015 **Rapid near-inertial internal wave group propagation through the transition layer from float and glider observations in the Bay of Bengal**
Ocean Sciences, PO43C-06
S. Johnston, D. Rudnick, and J. Sherman
- 2015 **Underwater glider observations of the ongoing El Niño**
Ocean Sciences, PC31A-02
D. Rudnick, B. Owens, S. Johnston, and K. Karnauskas
- 2015 **The Tasman Tidal Dissipation Experiment: Tidal mixing, scattering, and reflection on the East Tasman Slope**
Ocean Sciences, PO23C-05
R. Pinkel, M. Alford, A. Lucas, S. Johnston, N. Jones, S. Kelly, J. Klymak, J. MacKinnon, J. Nash, L. Rainville, H. Simmons, P. Strutton, A. Waterhouse, and Z. Zhao
- 2015 **Standing internal tides in the Tasman Sea observed by gliders**
European Geophysical Union
T. M. S. Johnston, D. L. Rudnick, and S. M. Kelly

- 2014 **Scattering of the low-mode internal tide at the Line Islands Ridge**
Ocean Sciences
M. N. Haji, T. Peacock, S. Johnston, and G. Carter
- 2012 **Elevated mixing at a front**
Ocean Sciences
S. Johnston, D. Rudnick, and E. Pallas-Sanz
- 2012 **Observations of high-frequency internal waves near the Luzon Strait using underwater gliders**
Ocean Sciences
D. L. Rudnick, S. Johnston, and J. T. Sherman
- 2008 **AESOP 2006: Submesoscale observations of restratification at a front in the California Current with a Lagrangian float and towed profilers**
Ocean Sciences
A. Gray, E. A. D'Asaro, R. Harcourt, S. Johnston, C. M. Lee, and D. L. Rudnick
- 2008 **Tidal beams and mixing near Monterey Bay**
Ocean Sciences
S. Johnston, D. Rudnick, R. Todd, and S. Cole
- 2008 **Modeling and predicting tides in Monterey Bay, California**
Ocean Sciences
X. Wang, Y. Chao, J. Farrara, Z. Li, P. Li, K. Park, Q. Vu, J. C. McWilliams, S. Johnston, and D. Rudnick
- 2006 **Mixed layer models in a three-dimensional ocean: A first look at results from the 2006 field program**
Eos Trans. AGU, 87 (52), Fall Meet. Suppl., Abstract OS51E-04
C. M. Lee, E. A. D'Asaro, R. Harcourt, T. M. S. Johnston, and D. L. Rudnick
- 2006 **SeaSoar observations of the transition layer**
Eos Trans. AGU, 87, Ocean Sci. Meet. Suppl., Abstract OS32G-06
S. Johnston and D. L. Rudnick
- 2004 **Formation and breakdown of thin layers in Monterey Bay**
Eos Trans. AGU, 84, Ocean Sci. Meet. Suppl., Abstract OS32C-23
T. M. S. Johnston, M. A. McManus, and O. Cheriton
- 2004 **An international perspective on postgraduate education in physical oceanography**
Eos Trans. AGU, 83, Fall Meet. Suppl., Abstract OS71E-12
J. Polton, H. Brix, M. Roughan, T. M. S. Johnston, J. Hench, P. Testor, and H. L. Johnson
- 2002 **First mode internal tide scattering from topography**
Eos Trans. AGU, 83, Ocean Sci. Meet. Suppl., Abstract OS51D-05
T. M. S. Johnston and M. A. Merrifield

- 1999 **Observations of upper ocean, intraseasonal variability in the Bay of Bengal during the southwest monsoon onset**
Eos Trans. AGU, **80**, Ocean Sci. Meet. Suppl., Abstract OS51J-06
P. Hacker, R. Lukas, E. Firing, J. Hummon, and T. M. S. Johnston
- 1999 **Modeling of internal tide generation at the Hawaiian Ridge**
Eos Trans. AGU, **80**, Ocean Sci. Meet. Suppl., Abstract OS21H-07
M. A. Merrifield, P. E. Holloway, and S. Johnston

INVITED PRESENTATIONS

- 2010 **Internal tidal beams and mixing**
Coordinated Mathematical Modeling of Internal Waves, Banff, Canada, 4-9 April
S. Johnston, D. Rudnick, R. Todd, S. Cole, and G. Carter
- 2009 **Observations of the transition layer**
Bedford Institute of Oceanography, Halifax, NS, Canada, 14 April
T. M. S. Johnston and D. L. Rudnick
- 2007 **Tidal beams and mixing near Monterey Bay**
WHOI, Woods Hole, MA, USA, 2 October
S. Johnston, D. Rudnick, R. Todd, S. Cole,
- 2007 **Tidal beams and mixing near Monterey Bay**
Dalhousie University, Halifax, NS, Canada, 20 September
S. Johnston, D. Rudnick, R. Todd, and S. Cole
- 2004 **The rise and fall of internal tides in the deep ocean**
Australian Marine Sciences Association National Meeting, Peter Holloway Memorial Symposium, Hobart, Australia, 6-7 July
M. Merrifield, P. Holloway, S. Johnston, M. Eich, J. Aucan, N. Zilberman, and Y. Firing
- 2003 **Internal tide scattering at the Line Islands Ridge**
IUGG, Sapporo, Japan, 30 June
T. M. S. Johnston, M. A. Merrifield, and P. E. Holloway

PRESENTATIONS

- 2014 **Glider observations of internal waves and tides**
Scripps Institution of Oceanography, La Jolla, CA, USA, 13 February
S. Johnston
- 2014 **Tasmanian Tidal Dissipation Experiment**
University of New South Wales, Sydney, Australia, 3 February
S. Johnston and D. Rudnick
- 2013 **Internal tidal energy fluxes in the South China Sea from gliders**

Scripps Institution of Oceanography, La Jolla, CA, USA, 23 October
S. Johnston, D. Rudnick, M. Alford, A. Pickering, and H. Simmons

- 2013 **Glider observations of internal waves and tides**
Dalhousie University, Halifax, NS, Canada, 13 June
S. Johnston and D. Rudnick
- 2007 **Tidal beams and mixing near Monterey Bay**
IUGG, Perugia, Italy, 3 July
S. Johnston, D. Rudnick, R. Todd, and S. Cole
- 2007 **Observations of the transition layer**
16th Conference on Atmospheric and Oceanic Fluid Dynamics, Santa Fe, NM, USA, 25 June
T. M. S. Johnston and D. L. Rudnick
- 2002 **Internal tide scattering at seamounts, ridges, and islands**
Physical Oceanography Dissertation Symposium I, Breckenridge, CO, USA, 17-20 June
T. M. S. Johnston and M. A. Merrifield
- 1997 **Global sea level rise**
South Pacific Applied Geoscience Commission, Nadi, Fiji, 30 September
T. M. S. Johnston and M. A. Merrifield

POSTERS

- 2012 **Mixing estimates from sustained observations by underwater gliders**
Chapman Conference on the Agulhas System and its Role in Changing Ocean Circulation, Climate, and Marine Ecosystems, Stellenbosch, South Africa, 7-12 October
T. M. S. Johnston and D. L. Rudnick
- 2008 **Internal tide scattering by midocean topography**
Is there an internal wave continuum in the ocean?, Seattle, WA, USA, 3-4 October
T. M. S. Johnston, G. S. Carter, and M. A. Merrifield
- 2008 **Interference patterns of the M_2 internal tide south of the Hawaiian Ridge**
Is there an internal wave continuum in the ocean?, Seattle, WA, USA, 3-4 October
L. Rainville, T. M. S. Johnston, G. S. Carter, M. A. Merrifield, and R. Pinkel
- 2008 **Tidal beams and mixing near Monterey Bay**
From Millimetres to Megametres: The Interacting Scales of Ocean Dynamics, Victoria, BC, Canada, 29-30 July
S. Johnston, D. Rudnick, R. Todd, and S. Cole
- 2006 **Microstructure from SeaSoar**
Eastern Pacific Ocean Conference, Mount Hood, OR, USA, 27-30 September
T. M. S. Johnston and D. L. Rudnick
- 2005 **Thin layer formation by eddies off central California**

4th Gordon Research Conference on Coastal Ocean Circulation, Colby-Sawyer College, New London, NH, USA, 5-10 June

T. M. S. Johnston, M. A. McManus, and F. P. Chavez

2004

Internal tide scattering at the Line Islands Ridge

GODAE Summer School, La Londe, France, 18 September-1 October

T. M. S. Johnston, M. A. Merrifield, and P. E. Holloway

2000

Internal tide generation at the Hawaiian Ridge

Oceanography: The Making of a Science, La Jolla, CA, USA, 8-9 February

T. M. S. Johnston, P. E. Holloway, and M. A. Merrifield

1998

ENSO and geostrophic current anomalies in the near-equatorial western Pacific

Ocean Circulation and Climate: The 1998 WOCE Conference, Halifax, NS, Canada, 24-29 May

T. M. S. Johnston and M. A. Merrifield

FIELD WORK

2015

Flow encountering abrupt topography (FLEAT)

Chief Scientist, *RV Roger Revelle*, Palau and Federated States of Micronesia, 12 October-10 November

2014

FLEAT

Chief Scientist, *RV Roger Revelle*, Palau, 17 March-11 April

2013-

Repeat observations by gliders of the equatorial region (ROGER)

Spray gliders, Galapagos

2013

FLEAT

Chief Scientist, *RV Roger Revelle*, Palau, 29 June-17 July

2012-2015

Tasmanian tidal dissipation experiment (TTIDE)

Spray gliders 55 and 56, Tasman Sea

2011

Internal waves in straits experiment (IWISE)

Spray gliders 33 and 35, Luzon Strait, 12 June-8 August

2011

Experiment on internal tidal scattering (EXITS)

Chief Scientist, *RV Kilo Moana*, Line Islands Ridge, 26 April-14 May

2011

EXITS

Chief Scientist, *RV Kilo Moana*, Line Islands Ridge, 14-25 January

2010

EXITS

Chief Scientist, *RV Thomas G. Thompson*, Line Islands Ridge, 23 November-22 December

2008

Nonlinear internal waves initiative (NLIWI)

Spray glider recovery, *RV Ocean Researcher III*, Luzon Strait, 17-21 June

- 2008 **Internal waves and mixing above the South-West Indian Ridge**
RV *Revelle*, Indian Ocean, 7-30 January
- 2007 **Seasonal to interannual modulation of fine-scale thermohaline structure**
SeaSoar, RV *Kilo Moana*, Hawaii, 6-18 December
- 2007 **Seasonal to interannual modulation of fine-scale thermohaline structure**
Spray glider deployment, Hawaii, 11-15 November
- 2007 **NLIWI**
Chief Scientist, *Spray* glider deployments, RV *Melville*, Luzon Strait, 18-28 July
- 2007 **NLIWI**
Spray glider deployments, RV *Melville*, Luzon Strait, 13-22 April
- 2007 **Seasonal to interannual modulation of fine-scale thermohaline structure**
Spray glider deployment, Hawaii, 28-29 March
- 2006 **Assessing the Effectiveness of Submesoscale Ocean Parameterizations (AESOP)**
Chief Scientist, RV *Wecoma*, Monterey Bay, 29 July-28 August
- 2005 **AESOP**
Chief Scientist, RV *Sproul*, San Diego, 25-27 October
- 2005 **North Pacific Acoustic Laboratory**
RV *New Horizon*, North Pacific, 19 March-10 April
- 2003 **Autonomous Ocean Sampling Network II (AOSN II)**
Chief Scientist, RV *Point Sur*, Monterey Bay, 3-6 September
- 2003 **AOSN II**
Chief Scientist, RV *Point Sur*, Monterey Bay, 21-25 August
- 2003 **AOSN II**
RV *Point Sur*, Monterey Bay, 2-6 August 2003
- 2001 **Long Term Ecological Research Winter Ice Cruise**
RVIB *Nathaniel B. Palmer*, Marguerite Bay, Antarctica, 7 September-26 October
- 2000 **Hawaii Ocean Mixing Experiment**
NOAA Ship *Townsend Cromwell*, Oahu, 1-3 June
- 1999 **Joint Air-Sea Monsoon Interaction Experiment**
NOAA Ship *Ronald H. Brown*, Bay of Bengal, 6-22 April
- 1998 **Deep-sea corals**
RV *Ka'imikai-o-Kanaloa* and *Pisces V*, Northwestern Hawaiian Islands, 11-22 September

1998 **Deep-sea corals**
RV *Ka'imikai-o-Kanaloa*, Oahu, 10-14 August

1996 **Hawaii Ocean Time Series**
RV *Moana Wave*, Oahu, 25-29 July

DIVING

1996-2000 University of Hawaii Scientific Diver

1998 NAUI Master Diver and Enriched Air Nitrox Diver

PROFESSIONAL ORGANIZATIONS

1998- American Geophysical Union

1998- Hawaii Academy of Sciences

ADVISING

2014- **Graduate student:** C. Ou

2008-2009 **Postdoc:** E. Pallas-Sanz, now at CICESE, Ensenada, Mexico

SERVICE

ongoing **Reviewer**
Deep-Sea Research I; Deep-Sea Research II; Dynamics of Atmospheres and Oceans;
Estuarine, Coastal and Shelf Science; Geophysical Research Letters;
Journal of Atmospheric and Oceanic Technology; Journal of Geophysical Research;
Journal of Physical Oceanography; Methods in Oceanography; National Science
Foundation; Ocean Modelling; Progress in Oceanography

2016 **Session convener**, Ocean Sciences, *PO21B: New Insights into Shelf and Slope Processes
from Interdisciplinary Studies and the Use of Autonomous Platforms*

2015 **Guest lecturer**, Sampling errors, *SIO 221B Analysis of Physical Oceanographic Data*

2014-2016 **Marine Operations Committee**, member

2014-2016 **Representative Assembly**, alternate

2014-2016 **SIO Faculty Executive Committee**, member

- 2014 **Guest lecturer**, Equatorial dynamics, *SIO 212A Geophysical Fluid Dynamics*
- 2010 **Session convener**, Ocean Sciences, *Monterey Bay region: physical processes and their impacts*
- 2006- **Ad hoc committees**, member
- 2003 **National Ocean Sciences Bowl**, question writer
- 2001-2003 **Editor** for non-native English speakers' manuscripts, *Journal of Geophysical Research*
- 2001-2003 **Vice-president**, Na Kama Kai (Friends of the Sea- Oceanography Students' Society)
Department of Oceanography, University of Hawaii
- 1998-2003 **Judge**
Hawaii State and /or District Science and Engineering Fairs
- 1994-1995 **Team leader**
Youth Challenge International, Solomon Islands and Guyana
- 1993 **Volunteer**
Youth Challenge International, Solomon Islands