UNIVERSITY OF VICTORIA - CURRICULUM VITAE

Last Update: February 5, 2016

Name: KLYMAK, Jody M.
Faculty: Science **School** of Earth and Ocean Sciences (.6 FTE)
Department of Physics and Astronomy (.4FTE)

1. EDUCATION and TRAINING

Degree	Field	Institute	Year
Doctor of Philosophy	Physical Oceanography	U. of Washington	2001
Masters of Science	Physical Oceanography	U. of Washington	1997
Bachelor of Science	Mathematics and Physics	U. of Victoria	1993

Postdoctoral experience

2004–2006	Postdoctoral Researcher	Scripps Institution of Oceanography
2001–2003	Postdoctoral Researcher	Oregon State University

2. POSITIONS HELD PRIOR to APPOINTMENT at UVic

2006	Project Scientist, Scripps Institution of Oceanography, San Diego, CA
1993–1994	Research Scientist, Quester Tangent Corporation, Sydney B.C.
1989, 1992	Research Assistant, Institute of Ocean Sciences, Sydney B.C.
1991	Research Assistant, CERN, Geneva, Switzerland

3. APPOINTMENTS at the UNIVERSITY of VICTORIA

Period	Rank	Academic Unit
2012–	Associate Professor	School of Earth and Ocean Sciences
2006–2012	Assistant Professor	School of Earth and Ocean Sciences

4. MAJOR FIELD(s) of SCHOLARLY or PROFESSIONAL INTEREST

Physical Oceanography
Geophysical Fluid Dynamics
Turbulence and Mixing

5. RESEARCH GRANTS and FELLOWSHIPS

a. Research operating grants

CARTHE/LASER	J. Klymak	2016	$95,000 (tota)
	Submesoscale mixing in the Gulf f Mexico		
Compute Canada	J. Klymak	2014	$10,935 (total)
	Flows in Arctic and Subarctic tidal channels		
DFO ARCP	J. Klymak	2014–2017	$310,000 (total)
	Understanding circulation and oceanography on BC central coast		
NSERC CCAR	Roger Francois	2013–2017	$70,000 (approx, total)
	Canadian Geotraces		
NSERC CCAR	Paul Myers	2013–2017	$120,000 (approx, total)
	Ventilation, Interactions and Transports Across the Labrador Sea		
NSF	R. Pinkel	2012–2015	$5000 (approx. per-year)
	Tasmanian Internal Tides		
NSERC Discovery	J. Klymak	2011–2015	$28,000 (per-year)
	Ocean Mixing By Topography and Mesoscale Stirring		
NSF	M. Alford	2011–2014	$5000 (approx per-year)
	Samoan Passage Overflow Experiment		
NSF Climate Proc. Team	J. MacKinnon	2011–2014	$2000 (approx. per-year)
	Internal-wave driven mixing in global ocean models		
US ONR DRI	J. Klymak	2011–2013	$245,283 (total)
	Lateral Mixing		
US ONR DRI	J. Klymak	2009–2013	$119,174 (total)
	Non-linear Internal Waves in Luzon Straits		
US ONR DRI	J. Klymak	2009–2010	$61,389 (total)
	Assessing the Effects of Submesoscale Ocean Parameterizations		
US ONR DRI	J. Klymak	2009–2010	$56,970 (total)
	Analysis of data from South China Sea 2007		
NSERC Discovery	J. Klymak	2006–2010	$23,500 (per-year)
	Coastal Mixing and Transport		
BC Mines and Energy	J. Klymak	2006–2008	$19,500 (per-year)
	Adding tides to a regional ocean model of the Queen Charlotte Islands		

b. Equipment grants

NSERC RTI	Measuring ocean mixing at Station Papa		
	J. Klymak	2011	$82,000
CFI	Integrated system for mapping coastal transport and mixing		
	J. Klymak	2007	$160,000
BCKDF	Integrated system for mapping coastal transport and mixing		
	J. Klymak	2007	$160,000
NSERC	Ship time		
	Kunze, Dewey, & Klymak	2007	12 days

c. Honours, fellowships, and scholarships

2010 Award for Research Excellence, Faculty of Science, University of Victoria,

2010 Editors' Citation for Excellence in Refereeing for Journal of Geophysical Research - Oceans, American Geophysical Union.

6. PUBLICATIONS

a. Articles published in refereed journals
Students indicated by underline

[1] Thomas, L. N., J. R. Taylor, E. A. D'Asaro, C. M. Lee, J. M. **Klymak**, and A. Shcherbina, 2016: Symmetric instability, inertial oscillations, and turbulence at the gulf stream front. *J. Phys. Oceanogr.*, 46(1):197–217, doi:10.1175/JPO-D-15-0008.1.

[2] **Klymak**, J. M., R. K. Shearman, J. Gula, C. M. Lee, E. A. D'Asaro, L. N. Thomas, R. R. Harcourt, A. Y. Shcherbina, M. A. Sundermeyer, J. Molemaker, et al., 2016: Submesoscale streamers exchange water on the north wall of the Gulf Stream. *Geophys. Res. Lett.*, doi:10.1002/2015GL067152.

[3] Bedard, J. M., S. Vagle, J. M. **Klymak**, W. J. Williams, B. Curry, and C. M. Lee, 2015: Outside influences on the water column of cumberland sound, baffin island. *J. Geophys. Res.*, 120(7):5000–5018, doi:10.1002/2015JC010811.

[4] Shcherbina, A. Y., M. A. Sundermeyer, E. Kunze, E. D'Asaro, G. Badin, D. Birch, A.-M. E. Brunner-Suzuki, J. Callies, B. T. Kuebel Cervantes, M. Claret, et al., 2015: The LatMix summer campaign: Submesoscale stirring in the upper ocean. *Bull. Am. Meteorol. Soc.*, 96(8):1257–1279, doi:10.1175/BAMS-D-14-00015.1.

[5] Hamme, R. C., J. E. Berry, J. M. **Klymak**, and K. L. Denman, 2015: In situ o2 and n2 measurements detect deep-water renewal dynamics in seasonally-anoxic saanich inlet. *Cont. Shelf Res.*, 106:107–117.

[6] Wan, D., J. M. **Klymak**, M. G. Foreman, and S. F. Cross, 2015: Barotropic tidal dynamics in a frictional subsidiary channel. *Cont. Shelf Res.*, doi:10.1016/j.csr.2015.05.011.

[7] Kunze, E., J. **Klymak**, R.-C. Lien, R. Ferrari, C. Lee, M. Sundermeyer, and L. Goodman, 2015: Submesoscale water mass spectra in the Sargasso Sea. *J. Phys. Oceanogr.*, 45, doi:10.1175/JPO-D-14-0108.1.

[8] Callies, J., R. Ferrari, J. M. **Klymak**, and J. Gula, 2015: Seasonality in submesoscale turbulence. *Nature communications*, 6, doi:10.1038/ncomms7862.

[9] Gemmrich, J., and J. M. **Klymak**, 2015: Dissipation of internal wave energy generated on a critical slope. *J. Phys. Oceanogr.*, 45:2221—2238, doi:10.1175/JPO-D-14-0236.1.

[10] Alford, M. H., T. Peacock, J. A. MacKinnon, J. D. Nash, M. C. Buijsman, L. R. Centuroni, S.-Y. Chao, M.-H. Chang, D. M. Farmer, O. B. Fringer, K.-H. Fu, P. C. Gallacher, H. C. Graber, K. R. Helfrich, S. M. Jachec, C. R. Jackson, J. M. **Klymak**, D. S. Ko, S. Jan, T. M. S. Johnston, S. Legg, I.-H. Lee, R.-C. Lien, M. J. Mercier, J. N. Moum, R. Musgrave, J.-H. Park, A. I. Pickering, R. Pinkel, L. Rainville, S. R. Ramp, D. L. Rudnick, S. Sarkar, A. Scotti, H. L. Simmons, L. C. St Laurent, S. K. Venayagamoorthy, Y.-H. Wang, J. Wang, Y. J. Yang, T. Paluszkiewicz, and T.-Y. (David) Tang, 2015: The formation and fate of internal waves in the South China Sea. *Nature*, 521(7550):65–69, doi:10.1038/nature14399.

[11] **Klymak**, J. M., W. Crawford, M. H. Alford, J. A. MacKinnon, and R. Pinkel, 2015: Along-isopycnal variability of spice in the North Pacific. *J. Geophys. Res.*, pages 2169–9291, doi:10.1002/2013JC009421.

[12] Voet, G., J. B. Girton, M. H. Alford, G. S. Carter, J. M. **Klymak**, and J. B. Mickett, 2015: Pathways, volume transport and mixing of abyssal water in the Samoan Passage. *J. Phys. Oceanogr.*, 45:562–588, doi:10.1175/JPO-D-14-0096.1.

[13] Shcherbina, A. Y., M. A. Sundermeyer, E. Kunze, E. D'Asaro, G. Badin, D. Birch, A.-M. E. Brunner-Suzuki, J. Callies, B. T. Kuebel Cervantes, M. Claret, et al., 2014: The latmix summer campaign: Submesoscale stirring in the upper ocean. *Bulletin of the American Meteorological Society*, doi:10.1175/BAMS-D-14-00015.1.

[14] Buijsman, M. C., J. M. **Klymak**, S. Legg, M. H. Alford, D. Farmer, J. A. MacKinnon, J. D. Nash, J.-H. Park, A. Pickering, and H. Simmons, 2014: Three-dimensional double-ridge internal tide resonance in Luzon Strait. *J. Phys. Oceanogr.*, 44(3):850–869.

[15] Gregg, M., and J. M. **Klymak**, 2014: Mode-2 hydraulic control of flow over a small ridge on a continental shelf. *J. Geophys. Res.*, 119(11):8093–8108.

[16] Terker, S. R., J. B. Girton, E. Kunze, J. M. **Klymak**, and R. Pinkel, 2014: Observations of the internal tide on the california continental margin near monterey bay. *Cont. Shelf Res.*, 82:60–71.

[17] Sato, M., J. **Klymak**, E. Kunze, R. Dewey, and J. Dower, 2014: Turbulence and internal waves in Patricia Bay, Saanich Inlet, British Columbia. *Cont. Shelf Res.*, 85:153–167, doi:10.1016/j.csr.2014.06.009.

[18] Alford, M. H., J. M. **Klymak**, and G. S. Carter, 2014: Breaking internal lee waves at Kaena Ridge, Hawaii. *Geophys. Res. Lett.*, doi:10.1002/2013GL059070.

[19] Shcherbina, A. Y., E. A. D'Asaro, C. M. Lee, J. M. **Klymak**, M. J. Molemaker, and J. C. McWilliams, 2013: Statistics of vertical vorticity, divergence, and strain in a developed submesoscale turbulence field. *Geophys. Res. Lett.*, 40(17):4706–4711, doi:10.1002/grl.50919.

[20] Holbrook, W. S., I. Fer, R. W. Schmitt, D. Lizarralde, J. M. **Klymak**, L. C. Helfrich, and R. Kubichek, 2013: Estimating oceanic turbulence dissipation from seismic images. *J. Atmos. Ocean. Tech.*, 30(8).

[21] **Klymak**, J. M., M. Buijsman, S. M. Legg, and R. Pinkel, 2013: Parameterizing baroclinic internal tide scattering and breaking on supercritical topography: the one- and two-ridge cases. *J. Phys. Oceanogr.*, 43:1380–1397, doi:http://dx.doi.org/10.1175/JPO-D-12-061.1.

[22] MacKinnon, J., M. H. Alford, O. Sun, R. Pinkel, Z. Zhao, and J. **Klymak**, 2013: Parametric subharmonic instability of the internal tide at 29 N. *J. Phys. Oceanogr.*, 43(1):17–28, doi:10.1175/JPO-D-11-0108.1.

[23] MacKinnon, J., M. Alford, R. Pinkel, J. **Klymak**, and Z. Zhao, 2013: The latitudinal dependence of shear and mixing in the Pacific transiting the critical latitude for PSI. *J. Phys. Oceanogr.*, 43(1):3–16, doi:10.1175/JPO-D-11-0107.1.

[24] Alford, M., J. B. Girton, G. Voet, G. S. Carter, J. B. Mickett, and J. M. **Klymak**, 2013: Turbulent mixing and hydraulic control of abyssal water in the Samoan Passage. *Geophys. Res. Lett.*, doi:10.1002/grl.50684.

[25] Buijsman, M. C., S. Legg, and J. **Klymak**, 2012: Double-ridge internal tide interference and its effect on dissipation in luzon strait. *J. Phys. Oceanogr.*, 42(8):1337–1356, doi:10.1175/JPO-D-11-0210.1.

[26] Pinkel, R., M. Buijsman, and J. **Klymak**, 2012: Breaking topographic lee waves in a tidal channel in Luzon Strait. *Oceanography*, 25(2):160.

[27] Pinkel, R., L. Rainville, and J. **Klymak**, 2012: Semidiurnal baroclinic wave momentum fluxes at Kaena Ridge, Hawaii. *J. Phys. Oceanogr*, 42(8):1249–1269, doi:10.1175/JPO-D-11-0124.1.

[28] **Klymak**, J. M., M. Buijsman, S. M. Legg, and R. Pinkel, 2012: The direct breaking of internal waves at steep topography. *Oceanography*, 25(2):150–159, doi:10.5670/oceanog.2012.50.

[29] Alford, M. H., M. Cronin, and J. M. **Klymak**, 2012: Annual cycle and depth penetration of wind-generated near-inertial internal waves at Ocean Station Papa in the sub-Arctic Pacific. *J. Phys. Oceanogr*, doi:10.1175/JPO-D-11-092.1.

[30] Callendar, W., J. M. **Klymak**, and M. G. G. Foreman, 2011: Tidal generation of large sub-mesoscale eddy dipoles. *Ocean Science*, 7(4):487–502, doi:10.5194/os-7-487-2011.

[31] **Klymak**, J., M. Alford, R. Pinkel, R. Lien, Y. Yang, and T. Tang, 2011: The breaking and scattering of the internal tide on a continental slope. *J. Phys. Oceanogr*, 41:926–945, doi:10.1175/2010JPO4500.1.

[32] Alford, M. H., J. A. MacKinnon, J. D. Nash, H. Simmons, A. Pickering, J. M. **Klymak**, R. Pinkel, O. Sun, L. Rainville, R. Musgrave, T. Beitzel, K. Fu, and C. Lu, 2011: Energy flux and dissipation in Luzon Strait: two tales of two ridges. *J. Phys. Oceanogr*, 41(11):2211–2222, doi:10.1175/JPO-D-11-073.1.

[33] Alford, M., R. Lien, H. Simmons, J. **Klymak**, S. Ramp, Y. Yang, D. Tang, and M.H.-Chang, 2010: Speed and evolution of nonlinear internal waves transiting the South China Sea. *J. Phys. Oceanogr.*, 40(6):1338–1355, doi:10.1175/2010JPO4388.1.

[34] **Klymak**, J. M., S. Legg, and R. Pinkel, 2010: High-mode stationary waves in stratified flow over large obstacles. *J. Fluid Mech.*, 644:312–336, doi:10.1017/S0022112009992503.

[35] **Klymak**, J. M., S. Legg, and R. Pinkel, 2010: A simple parameterization of turbulent tidal mixing near supercritical topography. *J. Phys. Oceanogr.*, 40(9):2059–2074, doi:10.1175/2010JPO4396.1.

[36] **Klymak**, J. M., and S. M. Legg, 2010: A simple mixing scheme for models that resolve breaking internal waves. *Ocean Modell.*, 33(3-4):224 – 234, doi:10.1016/j.ocemod.2010.02.005.

[37] **Klymak**, J. M., R. Pinkel, and L. Rainville, 2008: Direct breaking of the internal tide near topography: Kaena Ridge, Hawaii. *J. Phys. Oceanogr.*, 38:380–399.

[38] Legg, S., and J. M. **Klymak**, 2008: Internal hydraulic jumps and overturning generated by tidal flow over a tall steep ridge. *J. Phys. Oceanogr.*, 38(9):1949–1964.

[39] Moum, J. N., J. D. Nash, and J. M. **Klymak**, 2008: Small scale processes in the coastal ocean. *Oceanography*, 21(4).

[40] Alford, M. H., J. A. MacKinnon, Z. Zhao, R. Pinkel, J. **Klymak**, and T. Peacock, 2007: Internal waves across the Pacific. *Geophys. Res. Lett.*, 34, doi:doi:10.1029/2007GL031566.

[41] **Klymak**, J. M., and J. N. Moum, 2007: Oceanic isopycnal slope spectra. Part I: Internal waves. *J. Phys. Oceanogr.*, 37(5):1215–1231.

[42] **Klymak**, J. M., and J. N. Moum, 2007: Oceanic isopycnal slope spectra. Part II: Turbulence. *J. Phys. Oceanogr.*, 37(5):1232–1245.

[43] Moum, J. N., J. M. **Klymak**, J. D. Nash, A. Perlin, and W. D. Smyth, 2007: Energy transport by nonlinear internal waves. *J. Phys. Oceanogr.*, 37:1968–1988.

[44] Perlin, A., J. Moum, J. **Klymak**, M. Levine, T. Boyd, and M. Kosro, 2007: Organization of stratification, turbulence, and veering in bottom Ekman layers. *J. Geophys. Res.*, 112:doi:10.1029/2004JC002641.

[45] **Klymak**, J. M., R. Pinkel, C.-T. Liu, A. K. Liu, and L. David, 2006: Prototypical solitons in the South China Sea. *Geophys. Res. Lett.*, 33:doi:10.1029/2006GL025932.

[46] **Klymak**, J. M., J. N. Moum, J. D. Nash, E. Kunze, J. B. Girton, G. S. Carter, C. M. Lee, T. B. Sanford, and M. C. Gregg, 2006: An estimate of tidal energy lost to turbulence at the Hawaiian Ridge. *J. Phys. Oceanogr.*, 36:1148–1164.

[47] Liu, C., R. Pinkel, M. Hsu, J. **Klymak**, H. Chen, and C. Villanovy, 2006: Non-linear internal waves from Luzon Strait. *Eos Trans. AGU*, 87(42):449–451, doi:10.1029/2006EO420002.

[48] Perlin, A., J. Moum, J. **Klymak**, M. Levine, T. Boyd, and M. Kosro, 2005: A modified law-of-the-wall applied to oceanic bottom boundary layers. *J. Geophys. Res.*, 110(C10S10):doi:10.1029/2004JC002310.

[49] Perlin, A., J. Moum, and J. **Klymak**, 2005: Response of the bottom boundary layer over a sloping shelf to variations in along-shore wind. *J. Geophys. Res.*, 110(C10S09):doi:10.1029/2004JC002500.

[50] **Klymak**, J. M., and M. C. Gregg, 2004: Tidally generated turbulence over the Knight Inlet sill. *J. Phys. Oceanogr.*, 34(5):1135–1151.

[51] Moum, J. N., A. Perlin, J. **Klymak**, M. Levine, T. Boyd, and M. Kosro, 2004: Convectively-driven mixing in the bottom boundary layer. *J. Phys. Oceanogr.*, 34:2189–2202.

[52] Edwards, K. A., P. MacCready, J. N. Moum, G. Pawlak, J. M. **Klymak**, and A. Perlin, 2003: Form drag and mixing due to tidal flow past a sharp point. *J. Phys. Oceanogr.*, 34:1297–1312.

[53] **Klymak**, J. M., and M. C. Gregg, 2003: The role of upstream waves and a downstream density-pool in the growth of lee-waves: stratified flow over the Knight Inlet sill. *J. Phys. Oceanogr.*, 33(7):1446–1461.

[54] **Klymak**, J. M., and J. N. Moum, 2003: Internal solitary waves of elevation advancing on a shoaling shelf. *Geophys. Res. Lett.*, 30(20):10.1029/2003GL017706.

[55] Rudnick, D. L., T. J. Boyd, R. E. Brainard, G. S. Carter, G. D. Egbert, M. C. Gregg, P. E. Holloway, J. M. **Klymak**, E. Kunze, C. M. Lee, M. D. Levine, D. S. Luther, J. P. Martin, M. A. Merrifield, J. N. Moum, J. D. Nash, R. Pinkel, L. Rainville, and T. B. Sanford, 2003: From tides to mixing along the Hawaiian Ridge. *Science*, 301(5631):355–357.

[56] **Klymak**, J. M., and M. C. Gregg, 2001: The three-dimensional nature of flow near a sill. *J. Geophys. Res.*, 106(C10):22,295–22,311.

b. Refereed conference proceedings

c. Books and chapters in books

[57] **Klymak**, J. M., and J. D. Nash. Estimates of mixing. In Steele, J. H., K. K. Turekian, and S. A. Thorpe, editors, *Encyclopedia of Ocean Sciences*, chapter Estimates of Mixing, pages 3696–3706. Academic Press, 2009.

d. Other publications

[58] Alford, M., and J. **Klymak**, 2008: Assessing the State of the Art of Ocean Internal Wave Research. *Eos Trans. AGU*, 89:52.

[59] **Klymak**, J. M., and M. C. Gregg. Stratified flow separation in the lee of the Knight Inlet sill. In *Proceedings of the IAHR 5th International Symposium on Stratified Flows*, 2000.

e. Publications in Review

f. Presentations at conferences or institutions

Last 5 years:

IAPSO Meeting, June 2015, Tasmania Internal Tide Experiment, preliminary modelling

invited Nobel Lecture, University of Toronto, Mar 2015, Parameterizing turbulence in low Froude number stratified turbulent flows.

invited AGU Fall Meeting, Dec 2014, Tasmania Internal Tide Experiment, preliminary modelling

CMOS Conference, Rimouski, May 2014, Evidence for cross-shelf exchange catalyzed by a coastal canyon.

IAPSO Meeting, July 2013, Parameterizing Breaking Tidal Wave Turbulence at Super-Critical Topography

Invited Scripps Insitute of Oceanography, Jun 2013, Lateral submesoscale instabilities on the North Wall of the Gulf Stream

Invited Stanford University, Apr 2013, Parameterizing Breaking Tidal Wave Turbulence at SuperCritical Topography

Invited U. of Washington, Mar 2013, Lateral submesoscale instabilities on the North Wall of the Gulf Stream

Invited U. of Texas, Austin, Feb 2013, Parameterizing Breaking Tidal Wave Turbulence at SuperCritical Topography

Plenary NSF Climate Process Team Meeting, Boulder CO, Jan 2013, Parameterizing Breaking Tidal Wave Turbulence at SuperCritical Topography

Lateral Mixing Meeting, Stanford CA, Jan 2013, Submesoslcale mixing in the North Wall of the Gulf Stream

Internal Waves in Straits Experiment, Kaoshiung Taiwan, May 2012, Parameterizing turbulent mixing at Supercritical topography

Invited Dalhousie University, Aug 2012, Parameterizing Breaking Tidal Wave Turbulence at SuperCritical Topography

7. SERVICE and PROFESSIONAL ACTIVITIES

a. University and Faculty committees

2011-	Marine Research Safety Committee
2011-2011	Faculty of Science Integrated Webpage Redesign Project
2011-2014	Marine Research Working Group

b. Departmental committees and responsibilities

2015-	Awards co-ordinator SEOS 2014
Search Committee CRC II Geophysics	
2011-	Undergraduate Awards, Phys.&Astr.
2010-2011	Undergraduate Advising & High School Liason Committee, Phys.&A
2010-	Colloquium Committee, Phys.&Astr.
2010-2011	Graduate Committee, SEOS
2009-2011	Outreach Committee, SEOS
2008-	Webpage Coordinator, SEOS
2006-2010	Graduate Committee (and sub-committees), Phys.&Astr.
2006-2009	Technical Services Committee, SEOS
2006-2008	Ocean Science Implementation Committee, SEOS

c. Membership and service on international, national and provincial professional bodies and societies

2011-2014 ***Senior Canadian representative***: International Association for the Physical Sciences of the Oceans (IAPSO)
American Geophysical Union
The Oceanography Society
The American Meteorological Society
Canadian Meteorology and Oceanography Society

d. Conference organisational committees

2009 EPOC, Session Chair, Ocean Mixing

2008 PIMS Collaborative Research Group: Is there an internal wave continuum in the ocean?

2008 AGU/ASLO Ocean Sciences, Session Chair (Ocean Mixing)

e. Grant committees

f. Grant proposal reviews

Reviews for NSERC Discovery Grant, CFCAS Research Grant, CFI Equipment Grant, US NSF Research Grants (2-4/year), Research Council of Norway, National Environmental Research Council (UK), Earth and Life Sciences Council (NL), NERC UK.

g. Visiting scientists hosted

2015: Mark Inall, Scottish Association for Marine Sciences.

h. Editorships

Editor, *Journal of Physical Oceanography*, American Meteorological Society, 2013– (handle review process for approximately 35 papers a year).

i. Reviews for journals, book reviews, published commentaries

Approx. 10 reviews each year *J. Phys. Ocean.*, *J. Geo. Res.*, *J. Fluid Mech.*, *Deep Sea Research*, etc.

j. Other professional activities

2009– Maintain Matlab toolbox for internal wave spectra in the ocean.

2005–2006 Co-ordinated permitting and documentation of AESOP experiment in Monterey Bay National Marine Sanctuary.

2003–2007 Edit and maintain Hawaiian Ocean Mixing Experiment webpage.

Work at sea (last 5 years)

Jan. 2016 *R/V Walton Smith*, Dispersion in the Gulf of Mexico (LASER)

Nov. 2015 *CCGS Vector*, Circulation in Douglas Channel

Sep. 2015 *CCGS Amundsen*, Mixing in Penny Strait

Mar. 2015 *CCGS Vector*, Circulation in Douglas Channel

Sep. 2013 *R/V Falkor*, Pathways for Oxygen.

Feb. 2012 *R/V Atlantis*, Lateral Mixing Experiment (**chief scientist**).

Jun. 2011 *R/V Endeavor*, Lateral Mixing Experiment.

8. OTHER ACTIVITIES

Community Outreach

2013 Interview Re: Icebergs on west coast - CFAX.

2012 Faculty of Science 50th Anniversary open house, fluid mechanics lab demos.

2011 Faculty of Science Cafe Scientifique, with Curran Crawford: "Is Tidal Energy Feasible?".

2011 Interviews Re: Tsunami Debris - Globe and Mail, local radio, CBC radio.

2011 Interviews Re: severed feet - Discovery Channel, local radio news.

2010 UVic High School Science Outreach, Fluid dynamics lab demos to grade 11 and 10 students.

2008 Cadboro Bay United Men's Club, What are internal waves and why are they important?

Personal We have two pre-school aged children, hence traveling has been substantially curtailed.