

Steven J. Lentz

W. Van Alan Clark Chair for Excellence in Oceanography
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EDUCATION:

B.A., University of California, San Diego, 1977 (Mathematics)
B.A., University of California, San Diego, 1977 (Applied Mechanics and Engineering science)
Ph.D., Scripps Institution of Oceanography, San Diego, 1984 (Oceanography)

PROFESSIONAL EXPERIENCE:

2000-present Senior Scientist, Woods Hole Oceanographic Institution
1991-2000 Associate Scientist, Woods Hole Oceanographic Institution (tenure granted 1995)
1987-1991 Assistant Scientist, Woods Hole Oceanographic Institution
1985-1987 Visiting Investigator, Woods Hole Oceanographic Institution
1984-1985 Research Assistant, Scripps Institution of Oceanography
1978-1984 Graduate Research Assistant, Scripps Institute of Oceanography

AWARDS:

Graduated summa cum laude, Mathematics and Applied Mechanics & Engineering Science, 1977
Editors' Citation for Excellence in Refereeing for *JGR-Oceans*, 1993
AGU Fellow, 2009
W. Van Alan Clark Chair for Excellence in Oceanography, 2014

PROFESSIONAL AFFILIATIONS:

Member, American Geophysical Union
Member, American Meteorological Society

RESEARCH INTERESTS:

Coastal oceanography including the wind-driven circulation, surface and bottom boundary layer dynamics, river plumes, surf-zone dynamics, tides, and coastal meteorology.

PROFESSIONAL ACTIVITIES:

WHOI (Non Education Related):

- Deep Submergence Ad Hoc Committee, 1991
- Sea Grant Review Committee, 1992
- Search Committee for new head of the Mooring Design group 1992
- Trustee/Scientist Briefings, January 1993
- Member of the WHOI Ethics Committee, 1993-1994
- Mellon Awards Review Panel, 1993
- Seagoing Oceanographers – PO department, 1994
- Reengineering Library “Team”, 1994
- Upper Ocean Processes Group, 1996-2003
- Ad Hoc Committee Green Technology Awards, 1996
- PO Recruitment Committee, 1988-1996, 2013- 2017
- Gender Equity Committee 1999-2004

- TenSec, 2001-2003
- Ad Hoc Benefits Committee, 2005
- Gender Equity at Sea Committee, 2005- 2007
- COI or CRC Proposal Review Panel, 1996, 2007, 2010, 2011, 2012, 2013
- CICOR Coastal Committee, 2007
- Chair, Chapman Lecture, 2007
- Gender Equity Program Advisory Committee, 1990-2005
- Coastal Ocean Institute Rep for PO Department, 2011 – 2014
- Chaired Promotion Committee, 2003, 2009, 2011
- Mentoring Committees Sci. Staff (2 PO), (1 Biology)
- Chair, PO Department Chair Search Committee, 2014
- CINAR review panel 2015
- Interdisciplinary award review panel 2015

Outside WHOI (Other than Attendance at Society/National Meetings):

AGU, 1989

AMS, 1989

Chair, CoPO Inner Shelf Working Group, 1989 Southern California Bight Physical Oceanography Workshop; Chairman of the shelf/slope circulation working group, 1990

AMS Committee on Coastal Meteorology and Oceanography, 1992

ONR Coastal Optics Workshop, March, 1992

CoOP Workshop – Wind-Driven Transport, July 1993

Navy Symposium on Coastal Oceanography and Littoral Warfare, August 1993

Planning Meeting for CoOP Field Program, November, 1993

NSF Panel, 1996

GLOBEC Meeting, November 1996

CoOP Inner-Shelf Study Meeting, 1988, 1990 (Session Chair), 1997

MABPOM Meeting, November, 1998, 199, 2001, 2003

Coastal Mixing and Optics, September, 1998

Eastern Pacific Ocean Conference, October, 1999

Vertical Mixing in the Coastal Ocean Workshop, April 2000

Coastal Observatory Science workshop, 2002

Gordon Research Conference on Coastal Ocean Circulation: Vice Chair, 1998-2001; Chair 2001- 2005

Coastal CO2 Workshop, September, 2005

Mentoring Physical Oceanography Women to Increase Retention (MPOWIR): Workshop participant (October, 2005)

Hypoxia in the northern Gulf of Mexico Assessing the state of the science (April 2006)

Ketchum Award Ceremony, U. Delaware, Nov. 2007

Editorial Board, *Journal of Physical Oceanography*, 2007-

Pattullo Conference, May, 2008

Pioneer Array Workshop (UMass), June 2012

Plume Mixing Workshop (OSU), October 2013

Gordon Research Conference on Coastal Circulation, June 2015

Selected Major Collaborative Programs:

CODE (Coastal Ocean Dynamics Experiment)

SMILE (Shelf Mixed Layer Experiment)

AMASSEDS (A Multidisciplinary Amazon Shelf Sediment Study)

CoOP Duck (Coastal Ocean Processes study off Duck, N.C.)

GLOBEC Georges Bank (Global Ocean Ecosystem Dynamics)

CM&O (Coastal Mixing and Optics)
KAUST Red Sea (King Abdullah University of Science and Technology)

PARTICIPATION IN EDUCATION PROGRAM:

Educational Activities

Summer Student Fellowship Committee, 1994-1997
Post-Doctoral Scholar Representative, 2002-2005, 2015
Education Coordinator for PO Department, 2006-2012

Courses taught (MIT/WHOI Joint Program in Oceanography)

Dynamics of Shelf Circulation (1986, 1987, 1989, 1991, 1992, 1993, 1995, 2002, 2004)
Coastal Physical Oceanography (with Cenedese and Chapman, 2003)
Coastal Oceanography Reading Course 12.862 (with Lerczak and Cenedese)

Guest lecturer:

Estuarine and Coastal Fluid Dynamics Summer School Friday Harbor 2003, 2009, 2012
WHOI Geophysical Fluid Dynamics Summer Program 2007
Alpine Summer School on Buoyant Flows (Italy) 2010
Lecture, Palau Undergrads, September 2011
Rocky Geyer's Summer School, 2 weeks, August 2014
Invited Scholar Scripps Institution of Oceanography April 2015
Principal Lecturer 2016 Taida Institute of Mathematical Science Symposium on Environmental Flows,
National Taiwan University

Advising:

Ph.D. Students MIT/WHOI: E. Dever (1991-1995), J. Austin (1994-1998), M. Bowen (1995-1999, W. R. Geyer primary adviser), M. Fewings (2003-2007), J. Benthuyzen (2006-2010, L. Thomas primary adviser), R. Horwitz (2006-2012).

Post-Doctoral Scholars: K. Shearman (2001–2002), Irene Garcia Berdeal (2006-2007, Lerczak primary), Anthony Kirincich (2007–2009), Kristen Davis (2009–2010), Tom Connolly (2012-2015), Ke Chen (2012-2015, G. Gawarkiewicz primary)

Ph.D. dissertation committees: MIT/WHOI Joint Program – J. LaCasce (1992-1996), D. Fong (1994-1998), J. Pringle (1994-1998), S. Werner (1996-1999), L. Garland (1994-1999), J. Thompson (2003-2007), C. Moffat (2003-2007), A. Apostos (2004-2007), J. Benthuyzen (2006-2010), E. Logvinov (2008-2010), V. Pavel (2008-2012), R. Chen (2009-2013), N. Woods (2009-2013), W. Bernstein (Biology, 2010-2013), M. Oltmanns (2011-2015), M. Moulton (2012-present), R. Jackson (2012-2016), D. Cherian (2012-2016), Hannah Barkley (G&G, 2015-2016), Tom DeCarlo (G&G, 2015-2016); S. Rennie (1994-1997), Virginia Institute of Marine Science; C. Janzen (1997-2000), University of Delaware, H. Deese (2008-2009), University of Maine. External reviewer PhD thesis, Jiangtao Xu, University of Western Australia.

Chair, Thesis Defense: C. Chen 1992, W. Shaw 1999, A. Russell 2002, J. Hyatt, 2006, G. Gerbi 2008, K. Silverthorne 2010, T. DeCarlo 2016.

Summer Student Fellows: S. Patch (1989 and 1990), M. Carr (1996), T. Connolly (2002), K. Silverthorne (2003), Orianna DeMasi (2007), Liam O'Suilleabhain (2009), Sam Kastner, with A. Kirincich (2014).

Visiting Students: Olavo Marquez (2012-2013, undergraduate senior thesis Brazil), Nikolaos Zarokanellos (2016 Churchill primary KAUST PhD), Tatsuro Karaki (2016-2017, PhD student Japan)

CRUISE PARTICIPATION/FIELD WORK:

Deployment of moored array for surface mixed layer experiment over Northern California shelf, November, 1988

SMILE, CTD surveys and mooring work, February-March, 1989

SMILE, CTD surveys and mooring recovery, May 1989

Chief Scientist, CoOP -inner-shelf mooring deployment – August 1994

Chief Scientist, CoOP inner-shelf mooring recovery – December 1994

Chief Scientist, coastal mixing and optics deployment cruise on *R/V Oceanus*, July 29-August 10, 1996.

Coastal mixing and optics recovery cruise on *R/V Oceanus*, June 1997.

NCEX deployment cruise, September 16-24, 2004

NCEX turnaround cruise, October 24-29, 2004

Several 1 day trips on *Tioga* to deploy/recover moored array off south shore of Martha's Vineyard, 2007.

KAUST Red Sea cruises/field work October 2008 and April 2009

Tioga to recovery moored array off south shore of Martha's Vineyard, 2010

KAUST Red Sea cruises/field work October - November 2009 and May - June 2010

KAUST Red Sea cruises/field work November 2010 and May - June 2011

Palau - to study coral reef hydro-dynamics 2 weeks Sept. 2011

Saudi Arabia - KAUST project 2 weeks Dec 2011

Saudi Arabia - KAUST project 3 weeks May 2012

Palau Coral Reef Study, Instrument Recovery, October 2013

Nearshore Larval Transport Study Instrument deployment, San Diego, April 2014

ISLE Instrument array deployment, *R/V Tioga*, June 2014

Nearshore Larval Transport Study Instrument recovery, San Diego, August 2014

Nearshore Larval Transport Study moored array deployment San Diego, Sept 27 - Oct 4, 2014

ISLE moored array recovery cruise, *Tioga*, Dec 2014 Palau Instrument recovery, Jan 30- Feb. 11, 2015

Nearshore Larval Transport Study moored array recovery San Diego, April 14- 29, 2015

PAPERS IN REFEREED JOURNALS AND BOOKS: (NO MANUSCRIPTS IN PREP)

Author or co-author of more than 90 refereed scientific publications.

Refereed Publications:

Kealoha, A. K., K. E.F. Shamberger, E. Reid, K. Davis, S. Lentz, R. Brainard, T. Olive, M. Rappe, B. Roark, S. Rii, 2019. Heterotrophy of oceanic particulate organic matter elevates net ecosystem calcification. *Geophys. Res. Letters*, doi:[10.1029/2019GL083726](https://doi.org/10.1029/2019GL083726).

Reid, E., T. DeCarlo, A. Cohen, G. Wong, S. Lentz, A. Safaie, A. Hall, K. Davis, 2019. Internal waves influence the thermal and nutrient environment on a shallow coral reef. *Limnol. Oceanogr.*, doi:[10.1002/lno.11162](https://doi.org/10.1002/lno.11162).

Piecuch, C. G., K. Bittermann, A. C. Kemp, R. M. Ponte, C. M. Little, S. E. Engelhart, S. J. Lentz, 2018. River-discharge effects on United States Atlantic and Gulf coast sea-level changes. *Proc. Natl. Acad. Sci.*, 115(30), 7729-7734, doi:[10.1073/pnas.1805428115](https://doi.org/10.1073/pnas.1805428115).

Jackson, R. H., S. J. Lentz, F. Straneo, 2018. The dynamics of shelf forcing in Greenlandic Fjords. *J. Phys. Oceanogr.*, 48(11), doi:[10.1175/JPO-D-18-0057.1](https://doi.org/10.1175/JPO-D-18-0057.1).

Pineda, J., N. Reynolds, S. J. Lentz, 2018. Reduced barnacle larval abundance and settlement in response to large-scale oceanic disturbances: temporal patterns, nearshore thermal stratification, and potential mechanisms. *Limnol. Oceanogr.*, 63(6), 2618–2629, doi:[10.1002/lno.10964](https://doi.org/10.1002/lno.10964).

Zhang, W. and S.J. Lentz, 2018: Wind-driven circulation in a shelf valley. Part II: dynamics of the along-valley velocity and transport. *J. Phys. Oceanogr.*, 48(4), 883–904, doi:[10.1175/JPO-D-17-0084.1](https://doi.org/10.1175/JPO-D-17-0084.1).

Zhang, W. and S.J. Lentz, 2017: Wind-driven circulation in a shelf valley. Part I: Mechanism of the asymmetrical response to along-shelf winds in opposite directions. *J. Phys. Oceanogr.*, 47(12), 2927–2947, doi:[10.1175/JPO-D-17-0083.1](https://doi.org/10.1175/JPO-D-17-0083.1).

Lentz, S. J., J. H. Churchill, K. A. Davis, 2017. Coral reef drag coefficients – surface gravity wave enhancement. *J. Phys. Oceanogr.*, 48(7), 1555–1566, doi:[10.1175/JPO-D-17-0231.1](https://doi.org/10.1175/JPO-D-17-0231.1).

Kirincich, A. R. and S. J. Lentz, 2017. The importance of lateral variability on exchange across the inner shelf south of Martha's Vineyard, MA, *J. Geophys. Res. Oceans*, 122(3), 2360–2381, doi:[10.1002/2016JC012491](https://doi.org/10.1002/2016JC012491).

Shamberger, K. E. F., S. J. Lentz, A. L. Cohen, 2017. Low and variable ecosystem calcification in a coral reef lagoon under natural acidification. *Limnol. Oceanogr.*, 63(2), doi:[10.1002/lno.10662](https://doi.org/10.1002/lno.10662).

Trowbridge, J., S. J. Lentz, 2018. The Bottom Boundary Layer. *Annu. Rev. Mar. Sci.*, 10, 397 – 410, doi:[10.1146/annurev-marine-121916-063351](https://doi.org/10.1146/annurev-marine-121916-063351).

Lentz, S. J., K. A. Davis, J. H. Churchill, T. M. DeCarlo, 2017. Coral reef drag coefficients – water depth dependence, *J. Phys. Oceanogr.*, 47(5), 1061 - 1075, doi:[10.1175/JPO-D-16-0248.1](https://doi.org/10.1175/JPO-D-16-0248.1).

Lentz, S. J., 2017. Seasonal warming of the Middle Atlantic Bight Cold Pool. *J. Geophys. Res. Oceans*, 122, 941–954, doi:[10.1002/2016JC012201](https://doi.org/10.1002/2016JC012201).

- DeCarlo, T. M., A. L. Cohen, G. T. F. Wong, F.-K. Shiah, S. J. Lentz, K. A. Davis, K. E. F. Shamberger, P. Lohmann, 2017. Community production modulates coral reef pH and sensitivity of ecosystem calcification to ocean acidification. *J. Geophys. Res. Oceans*, 122, 745–761, doi:[10.1002/2016JC012326](https://doi.org/10.1002/2016JC012326).
- Horwitz, R. M. and S. J. Lentz, 2016. The effect of wind direction on cross-shelf transport on an initially stratified inner shelf. *J. Mar. Res.*, 74(4-5), 201-227, doi:[10.1357/002224016820870648](https://doi.org/10.1357/002224016820870648).
- Rypina, I.I., A. Kirincich, S. Lentz, and M. Sundermeyer, 2016. Investigating the eddy diffusivity concept in the coastal ocean. *J. Phys. Oceanogr.*, 46(7), 2201-2218, doi:[10.1175/JPO-D-16-0020.1](https://doi.org/10.1175/JPO-D-16-0020.1).
- Lentz, S. J., J. H. Churchill, K. A. Davis, J. T. Farrar, J. Pineda, and V. Starczak (2016), The characteristics and dynamics of wave-driven flow across a platform coral reef in the Red Sea, *J. Geophys. Res. Oceans* 121(2), doi:[10.1002/2015JC011141](https://doi.org/10.1002/2015JC011141).
- Bernstein, W. N., K. A. Huguen, C. Langdon, D. C. McCorkle, S. J. Lentz, 2016. Environmental controls on daytime net community calcification on a Red Sea reef flat. *Coral reefs*, 35(2), 697-711, doi:[10.1007/s00338-015-1396-6](https://doi.org/10.1007/s00338-015-1396-6).
- Richaud, B., Y-O. Kwon, T. M. Joyce, P. S. Fratantoni, S. J. Lentz, 2016. Surface and bottom temperature and salinity climatology along the continental shelf off the Canadian and U.S. East Coasts. *Cont. Shelf Res.*, 124, 165-181, doi:[10.1016/j.csr.2016.06.005](https://doi.org/10.1016/j.csr.2016.06.005).
- Lentz, S. J., J. H. Churchill, K. A. Davis, and J. T. Farrar (2016), Surface gravity wave transformation across a platform coral reef in the Red Sea, *J. Geophys. Res. Oceans*, 121, 693–705, doi:[10.1002/2015JC011142](https://doi.org/10.1002/2015JC011142).
- Benthuisen, J., L. Thomas, and S. Lentz, 2015. Rapid generation of upwelling at a shelf break caused by buoyancy shutdown. *J. Phys. Oceanogr.*, 45, 294-312, doi:[10.1175/JPO-D-14-0104.1](https://doi.org/10.1175/JPO-D-14-0104.1).
- Connolly, T. P., and S. J. Lentz, 2014. Interannual variability of wintertime temperature on the inner continental shelf of the Middle Atlantic Bight. *J. Geophys. Res. Oceans*, 119, 6269–6285, doi:[10.1002/2014JC010153](https://doi.org/10.1002/2014JC010153).
- Lentz, S. J., B. Butman, and C. Harris, 2014. The vertical structure of the circulation and dynamics in Hudson Shelf Valley. *J. Geophys. Res. Oceans*, 119(6), 3694–3713, doi:[10.1002/2014JC009883](https://doi.org/10.1002/2014JC009883).
- Chen, K., G. G. Gawarkiewicz, S. J. Lentz, and J. M. Bane, 2014. Diagnosing the warming of the Northeastern U.S. Coastal Ocean in 2012: A linkage between the atmospheric jet stream variability and ocean response. *J. Geophys. Res. Oceans*, 119(1), 218–227, doi:[10.1002/2013JC009393](https://doi.org/10.1002/2013JC009393).
- Shamberger, K., A. Cohen, Y. Golbuu, D. McCorkle, S. Lentz, and H. Barkley, 2014. Diverse coral communities in naturally acidified waters of a Western Pacific Reef. *Geophys. Res. Letters*, 41(2), doi:[10.1002/2013GL058489](https://doi.org/10.1002/2013GL058489).
- Horwitz, R., and S. J. Lentz, 2014. Inner shelf response to cross-shelf wind stress: the importance of the cross-shelf density gradient in an idealized numerical model and field observations. *J. Phys. Oceanogr.*, 44(1), 86–103, doi:[10.1175/JPO-D-13-075.1](https://doi.org/10.1175/JPO-D-13-075.1).

- Churchill, J., S. Lentz, J. T. Farrar, and Y. Abualnaja, 2014. Properties of Red Sea coastal currents. *Cont. Shelf Res.*, 78, 51–61, doi:[10.1016/j.csr.2014.01.025](https://doi.org/10.1016/j.csr.2014.01.025).
- Lentz, S., J. Churchill, C. Marquette, and J. Smith, 2013. Evaluation and recommendations for improving the accuracy of an inexpensive water temperature logger. *J. Atmos. Oceanic Technol.*, 30, 1576–1582, doi:[10.1175/JTECH-D-12-00204.1](https://doi.org/10.1175/JTECH-D-12-00204.1).
- Kirincich, A. R., S. J. Lentz, J. T. Farrar, and N. K. Ganju, 2013. The Spatial Structure of Tidal and Mean Circulation over the Inner Shelf South of Martha's Vineyard, Massachusetts. *J. Phys. Oceanogr.*, 43(9), 1940–1958, doi:[10.1175/JPO-D-13-020.1](https://doi.org/10.1175/JPO-D-13-020.1).
- Moffat, C., and S. J. Lentz, 2012. On the response of a buoyant plume to downwelling-favorable wind stress. *J. Phys. Oceanogr.*, 42(7), 1083–1098, doi:[10.1175/JPO-D-11-015.1](https://doi.org/10.1175/JPO-D-11-015.1).
- Lentz, S. J., and M. R. Fewings, 2012. The wind-and wave-driven inner-shelf circulation. *Ann. Rev. Mar. Sci.*, 4, 317–343, doi:[10.1146/annurev-marine-120709-142745](https://doi.org/10.1146/annurev-marine-120709-142745).
- Ganju, N. K., Lentz, S. J., A. R. Kirincich, and J. T. Farrar, 2011. Complex mean circulation over the inner shelf south of Martha's Vineyard revealed by observations and a high-resolution model. *J. Geophys. Res.*, 116(C10), doi:[10.1029/2011JC007035](https://doi.org/10.1029/2011JC007035).
- Fewings, M. R., and S. J. Lentz, 2011. Summertime cooling of the shallow continental shelf. *J. Geophys. Res.*, 116(7), doi:[10.1029/2010JC006744](https://doi.org/10.1029/2010JC006744).
- Sutherland, D. A., F. Straneo, S. J. Lentz, and P. Saint-Laurent, 2011. Observations of fresh, anticyclonic eddies in the Hudson Strait outflow. *J. Mar. Sys.*, 88, 375–384, doi:[10.1016/j.jmarsys.2010.12.004](https://doi.org/10.1016/j.jmarsys.2010.12.004).
- Davis, K. A., S. J. Lentz, J. Pineda, J. T. Farrar, V. R. Starczak, J. H. Churchill, 2011. Observations of the thermal environment on Red Sea platform reefs: a heat budget analysis. *Coral Reefs*, 30(S1), 25–36, doi:[10.1007/s00338-011-0740-8](https://doi.org/10.1007/s00338-011-0740-8).
- Fewings, M. R., and S. J. Lentz, 2010. Momentum balances on the inner continental shelf at Martha's Vineyard Coastal Observatory. *J. Geophys. Res. Oceans*, 115(12), doi:[10.1029/2009JC005578](https://doi.org/10.1029/2009JC005578).
- Lentz, S. J., R. K. Shearman, and A. J. Plueddemann, 2010. Heat and salt balances over the New England continental shelf, August 1996 to June 1997. *J. Geophys. Res. Oceans*, 115(7), doi:[10.1029/2009JC006073](https://doi.org/10.1029/2009JC006073).
- Brink, K. H., and S. J. Lentz, 2010. Buoyancy arrest and bottom Ekman Transport: Part II, Oscillating Flow. *J. Phys. Oceanogr.*, 40(4), 636–655, doi:[10.1175/2009JPO4267.1](https://doi.org/10.1175/2009JPO4267.1).
- Brink, K. H., and S. J. Lentz, 2010. Buoyancy arrest and bottom Ekman transport, Part I, Steady Flow. *J. Phys. Oceanogr.*, 40(4), 621–635, doi:[10.1175/2009JPO4266.1](https://doi.org/10.1175/2009JPO4266.1).
- Shearman, R. K., and S. J. Lentz, 2010. Long-term sea surface temperature variability along the U.S. east coast. *J. Phys. Oceanogr.*, 40(5), 1004–1017, doi:[10.1175/2009JPO4300.1](https://doi.org/10.1175/2009JPO4300.1).
- Lentz, S. J., 2010. The mean along-isobath heat and salt balances over the Middle Atlantic Bight continental shelf. *J. Phys. Oceanogr.*, 40(5), 934–948, doi:[10.1175/2009JPO4214.1](https://doi.org/10.1175/2009JPO4214.1).

- Kirincich, A. R., S. J. Lentz, and G. P. Gerbi, 2010. Calculating Reynolds stresses from ADCP measurements in the presence of surface gravity waves using the cospectra fit method. *J. Atmos. Oceanic Technol.*, 27(5), 889-907, doi:[10.1175/2009JTECHO682.1](https://doi.org/10.1175/2009JTECHO682.1).
- Herbers, T. H. C., and S. J. Lentz, 2010. Observing directional properties of ocean swell with an Acoustic Doppler Current Profiler (ADCP). *J. Atmos. Oceanic Technol.*, 27, 210-225, doi:[10.1175/2009JTECHO681.1](https://doi.org/10.1175/2009JTECHO681.1).
- Kirincich, A. R., S. J. Lentz, and J. A. Barth, 2009. Wave-driven inner-shelf motions on the Oregon Coast. *J. Phys. Oceanogr.*, 39(11), 2942-2956, doi:[10.1175/2009JPO4041.1](https://doi.org/10.1175/2009JPO4041.1).
- Cowles, G. W., S. J. Lentz, C. Chen, Q. Xu, and R. C. Beardsley, 2008. Comparison of observed and model-computed low frequency circulation and hydrography on the New England shelf. *J. Geophys. Res. Oceans*, 113, C09015, doi:[10.1029/2007JC004394](https://doi.org/10.1029/2007JC004394).
- Lentz, S. J., M. Fewings, P. Howd, J. Fredericks, and K. Hathaway, 2008. Observations and a model of undertow over the inner continental shelf. *J. Phys. Oceanogr.*, 38(11), 2341-2357, doi:[10.1175/2008JPO3986.1](https://doi.org/10.1175/2008JPO3986.1)
- Fewings, M., S. J. Lentz, and J. Fredericks, 2008. Observations of cross-shore flow driven by cross-shore winds on the inner continental shelf. *J. Phys. Oceanogr.*, 38(11), 2358-2378, doi:[10.1175/2008JPO3990.1](https://doi.org/10.1175/2008JPO3990.1).
- Lentz, S. J., 2008. Seasonal variations in the circulation of the Middle Atlantic Bight continental shelf. *J. Phys. Oceanogr.*, 38(7), 1486-1500, doi:[10.1175/2007JPO3767.1](https://doi.org/10.1175/2007JPO3767.1).
- Lentz, S. J., 2008. Observations and a model of the mean circulation over the Middle Atlantic Bight continental Shelf. *J. Phys. Oceanogr.*, 38(6), 1203-1221, doi:[10.1175/2007JPO3768.1](https://doi.org/10.1175/2007JPO3768.1).
- Sobarzo, M., R. K. Shearman, and S. J. Lentz, 2007. Near-inertial motions over the continental shelf off Concepcion, Central Chile. *Prog. Oceanogr. (Chile)*, 75(3), 348-362. [pdf](#)
- Lentz, S. J., and J. Largier, 2006. The influence of wind forcing on the Chesapeake Bay buoyant coastal current. *J. Phys. Oceanogr.*, 36(7), 1305-1316, doi:[10.1175/JPO2909.1](https://doi.org/10.1175/JPO2909.1).
- Chapman, D. C., and S. J. Lentz, 2005. Acceleration of a stratified current over a sloping bottom, driven by an alongshelf pressure gradient. *J. Phys. Oceanogr.*, 35(8), 1305-1317, doi:[10.1175/JPO2744.1](https://doi.org/10.1175/JPO2744.1).
- Lentz, S. J., 2004. The response of buoyant coastal plumes to upwelling-favorable winds. *J. Phys. Oceanogr.*, 34(11), 2458-2469, doi:[10.1175/JPO2647.1](https://doi.org/10.1175/JPO2647.1).
- Lentz, S. J., and D. C. Chapman, 2004. The importance of non-linear cross-shelf momentum flux during wind-driven coastal upwelling. *J. Phys. Oceanogr.*, 34(11), 2444-2457, doi:[10.1175/JPO2644.1](https://doi.org/10.1175/JPO2644.1).
- Shearman, R. K., and S. J. Lentz, 2004. Observations of tidal variability on the New England Shelf. *J. Geophys. Res. Oceans*, 109 (C6), C06010, doi:[10.1029/2003JC001972](https://doi.org/10.1029/2003JC001972).

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Lentz, S. J., editor, 1990. *CODE (Coastal Ocean Dynamics Experiment): A Collection of Reprints*. Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, 817 + vii pp.

OTHER PUBLICATIONS: (unreviewed media, Oceanus, etc.)

Non-refereed Publications

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Geyer, Wayne R., Robert C. Beardsley, Julio Candela, B. Castro, R. Legeckis, Steven J. Lentz, Richard Limeburner, L. Miranda, and John H. Trowbridge, 1991. The physical oceanography of the Amazon outflow. *Oceanography*, 4, 8–14.

Patch, Sarah K., Robert C. Beardsley, and Steven J. Lentz, 1990. A note on the response characteristics of the VACM compass. In: *Proceedings of the IEEE Fourth Working Conference on Current Measurements*, G. F. Appell and T. B. Curtin, editors; Institute of Electrical and Electronics Engineers, New York; pp. 129–133.

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Lentz, Steven J., 1988. The surface boundary layer over the continental shelf. *Woods Hole Oceanographic Institution 1988 Annual Report*, Woods Hole, Massachusetts, pp. 23–25.

Lentz, Steven J., 1986. The spatial coherence of motions in the ocean offshore of the San Onofre Nuclear Generating Station during the winter. *Final Report to the Marine Review Committee, Solana Beach, California*, 47 pp.

Thesis

Lentz, Steven J., 1984. Subinertial motions on the southern California Continental Shelf. Ph.D. dissertation, University of California, San Diego, 145 pp.

Technical Reports

Galbraith, N., A. Plueddemann, S. Lentz, S. Anderson, M. Baumgartner, and J. Edson, 1999. Coastal mixing and optics experiment moored array data report. *Woods Hole Oceana-graphic Institution Technical Report WHOI-99-15*, 162 pp.

Galbraith, Nancy, William Ostrom, Bryan Way, Steve Lentz, Steve Anderson, Mark Baumgartner, Al Plueddemann, and Jim Edson, 1997. Coastal mixing and optics experiment: Mooring deployment cruise report, R/V *Oceanus* Cruise Number 284, July 31–August 11, 1996. *Woods Hole Oceanographic Institution Technical Report WHOI-97-13*, 92 pp.

Beardsley, R. C., S. J. Lentz, R. A. Weller, J. D. Irish, K. H. Brink, and R. Limeburner, 1997. A preliminary description of the heat budget, southern flank of Georges Bank, spring–summer, 1996. *ICES Council Meeting Papers*, International Council for the Exploration of the Sea (ICES), Copenhagen (Denmark), 4 pp.

Marquette, C., and S. J. Lentz, 1996. Evaluation and modification of SeaBird's Seagauge pressure recorder. *Woods Hole Oceanographic Institution, Upper Ocean Processes Group, Technical Note 16*, 2 pp.

Alessi, C., S. J. Lentz, and J. Austin, 1996. Coastal ocean processes inner-shelf study: Coastal and moored physical oceanographic measurements. *Woods Hole Oceanographic Institution Technical Report WHOI-96-06*, 142 pp.

Lentz, Steve, William Ostrom, and Richard Pieper, 1995. *GLOBEC stratification process study mooring recovery, R/V Endeavor Cruise No. 271 to Georges Bank, August 22–27, 1995*. Woods Hole Oceanographic Institution, Woods Hole, Mass., 54 pp.

Fredericks, J. J., J. H. Trowbridge, A. J. Williams III, S. J. Lentz, B. Butman, and T. F. Gross, 1993. Fluid mechanical measurements within the bottom boundary layer over the northern California continental shelf during STRESS. *Woods Hole Oceanographic Institution Technical Report WHOI-93-32*, 116 pp.

Alessi, C. A., S. J. Lentz, R. C. Beardsley, B. Castro, and W. R. Geyer, 1992. A Multi-disciplinary Amazon Shelf SEDiment Study (AmasSeds): Physical oceanography, moored array component, and data presentation. *Woods Hole Oceanographic Institution Technical Report WHOI-92-36*, 100 pp.

Alessi, C. A., S. J. Lentz, and R. C. Beardsley, 1991. Shelf Mixed Layer Experiment (SMILE) Program Description and Coastal and Moored Array Data Report. *Woods Hole Oceanographic Institution Technical Report WHOI-91-39*, 221 pp.

Winant, D. Clinton, U. Send, and Steven J. Lentz, 1985. CODE-2: Moored current observations. In: CODE-2: Moored array and large-scale data report, Richard Limeburner, editor; *Woods Hole Oceanographic Institution Technical Report WHOI-85-35*, pp. 73–107.

Lentz, Steven J., and Clinton D. Winant, 1979. Ocean Station Del Mar current meter campaign 1978–1979 data report. *SIO Reference No.79-27*, Scripps Institution of Oceanography, University of California, San Diego, 77 pp.

PRESENTATIONS AT MEETINGS AND INVITED LECTURES:

- December, 1986: A heat budget estimate for the Northern California shelf during the summer of 1982. AGU.
- April, 1987: A heat budget estimate for the Northern California shelf during the summer. WHOI.
- April, 1987: A heat budget estimate for the Northern California shelf during the summer. OSU.
- May, 1987: A heat budget estimate for the Northern California shelf during the summer. North Carolina State.
- August, 1987: Why the water on the Northern California shelf is cold during the summer. Summer lecture series at WHOI.
- January, 1988: Differences in the current variability over the Northern California shelf. Ocean Sciences meeting.
- December, 1988: The surface mixed layer over the Northern California continental shelf. AGU (Session Chair).
- May 1989: SMILE Update. WHOI Buoy Lunch.
- December 1989: The shelf mixed layer experiment: A preliminary look at the moored observations (with R. Beardsley). AGU (Session Chair).
- December 1989: The bottom mixed layer over the northern California continental shelf (with J. Trowbridge). AGU.
- May 1990: The bottom boundary layer over the continental shelf – a mixed-up, slanted perspective. WHOI Physical Oceanography seminar.
- December 1990: Moored current observations on the Amazon inner and mid-shelf. AGU.
- June 1991: The surface boundary layer in coastal upwelling regions. WHOI Physical Oceanography seminar.
- March 1992: An overview of coastal physical oceanography. ONR Coastal Optics Workshop.
- March 1992: The Amazon Plume. WHOI Trustees Executive Committee.
- March 1992: Dual-rotor VACM deployed during AMASSEDS. WHOI Buoy Lunch.
- October 1992: The surface mixed-layer in coastal upwelling regions. EPOC meeting.
- December 1992: Is the inner-shelf circulation sensitive to the form of the eddy-viscosity profile? AGU.
- March 1993: The Amazon Plume. UCONN.
- June 1993: The Amazon Plume. WHOI.
- June 1993: The continental shelf surface and bottom boundary layers. Invited speaker Gordon Research Conference.
- July, 1993: Wind-Driven transport – physical oceanography overview. Invited speaker CoOP workshop.
- August 1993: Inner-Shelf dynamics overview. Invited speaker. Navy Symposium on Coastal Oceanography and Littoral Warfare.
- March 1994: Comparison of BASS and VACM during STRESS. Buoy Lunch.
- September 1994: Structure and dynamics of the bottom boundary layer during STRESS. EPOC meeting.
- December 1995: CoOP overview talk. AGU.
- December 1995: CoOP inner-shelf momentum balances. AGU.
- October 1996: Invited speaker seminar series at Univ. Delaware.
- October 1996: Momentum balances over the North Carolina inner shelf. WHOI PO seminar.
- December 1996: A preliminary description of the heat budget, Southern Flank of Georges Bank, Spring-Summer, 1995: Part II. Ocean Response. Lentz, Beardsley, Irish, Brink, Limeburner, and Manning. AGU.
- June 1997: Inner-Shelf dynamics off North Carolina. Invited speaker Gordon Research Conference.
- November 1997: Evolution of the thermal stratification in the Middle Atlantic Bight during the coastal mixing and optics program, August 1996-June 1997.

- February 1998: Evolution of the thermal stratification in the Middle Atlantic Bight during the coastal mixing and optics program, August 1996-June 1997.
- February 1998: The influence of stratification on the wind-driven cross-shelf circulation over the North Carolina shelf. Ocean Sciences meeting. Invited paper.
- September 1998: Mean current profiles over the Northern California shelf in fall and winter. Invited speaker, Bill Grant Symposium.
- October 1998: The wind-driven cross-shelf circulation over the North Carolina inner shelf. John Hopkins.
- October 1999: Fall and winter mean current profiles over the northern California shelf. EPOC meeting.
- October 1999: The influence of stratification on the wind-driven cross-shelf circulation over the North Carolina inner shelf. MABPOM meeting.
- January 2000: Current variability on the New England shelf during the coastal mixing and optics program, August 2006-June 1997. Ocean Sciences meeting.
- October 2000: Observations of the flow field at the nose of a buoyant coastal current. COFDL talk.
- December 2000: A scaling for buoyant coastal currents over a slope. AGU.
- June 2001: A scaling for a buoyant coastal plume over a slope. Poster, Gordon Research Conference.
- October 2001: The flow field near the nose of a buoyant coastal current. MABPOM meeting.
- December 2001: The flow field near the nose of a buoyant coastal current. AGU.
- January, 2002: Buoyant gravity currents along a slope. PO Seminar.
- November 2002: Analysis of observations from the coastal mixing and optics moored array. ONR site review.
- December 2002: A new perspective on wind-driven coastal upwelling, the importance of non-linear momentum flux. AGU.
- October 2003: The response of river plumes to upwelling favorable winds. MABPOM meeting.
- January 2004: The response of river plumes to upwelling favorable winds. Ocean Sciences meeting.
- 2004: Freshwater pathway from a buoyant discharge event 8200 years ago. PO informal lunch talk.
- 2005: Wind-Driven coastal upwelling -The importance of cross-shelf momentum Flux. WHOI PO Seminar.
- December, 2005: Observations of shoaling internal tidal waves during NCEX. AGU.
- September 2005: Undertow – something to worry about? EPOC.
- April 2006: Hypoxia in the northern Gulf of Mexico assessing the state of science. New Orleans
- May 2006: Undertow offshore of the surfzone – the role of waves in exchange across the inner shelf. University of Delaware.
- January 2007: Undertow offshore of the surfzone. WHOI PO Seminar.
- June 2007: Observational evidence for Ekman layer dynamics in the oceanic surface and bottom boundary layers. GFD.
- March 2008: A brief overview of inner shelf circulation and dynamics – wind and wave forcing. Ocean Sciences meeting. Invited speaker.
- June 2009: A brief overview of inner shelf circulation and dynamics – wind and wave forcing. Invited speaker Gordon Research Conference.
- September 2009: Hudson Shelf Valley. Rutgers. Invited talk.
- February 2010: Two talks on Hudson Shelf Valley, high resolution modeling – Neil Ganju, 1st author. Ocean Sciences meeting.
- July 2012: Wave-driven flow over a Red Sea platform reef. International Coral Reef Symposium (Cairns, Australia).
- November 2012: The Cold Pool revisited. MABPOM.
- June 2013: Vertical structure of the circulation and dynamics in Hudson Shelf Valley. Gordon Research Conference.
- October 2013: Large-scale Perspective on Plume Mixing. Plume Mixing Workshop. Invited speaker.
- February 2014: Wave-driven flow across a platform coral reef in the Red Sea. PO Seminar.
- April 2015: Invited Scholar SIO - 2 seminars:

Wave-driven flow across a platform coral reef in the Red Sea Wind-driven inner-shelf circulation

June 2015: Gordon Research Conference poster, Coral reef drag coefficients – water depth dependence.

November 2015: Invited speaker Univ. Delaware The Cold Pool revisited.

June 2016: Invited speaker NTU, Taiwan Wave-driven flow across a platform coral reef in the Red Sea.

June 2016: International Coral Reef Symposium, Hawaii Coral reef drag coefficients – water depth dependence.

March 2016: The Middle Atlantic Bight Cold Pool revisited – Seasonal Warming, WHOI

September 2016: Invited speaker U. Mass Dartmouth Seasonal warming of the Cold Pool

October 2016: MABPOM conference Interannual variations in the Cold Pool

June 2017: Gordon Research Conference Coral reef drag – surface wave enhancement

August 2017: WHOI (COFDL) Coral reef drag – surface wave enhancement