

CURRICULUM VITAE

KENDRA LEE DALY

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Research Interests

Zooplankton Ecology

Biogeochemical Cycles and Climate Change

Ocean Sensor Technology

Education

1995 Ph.D., Ecology, University of Tennessee

1990 M.S., Fisheries, University of Washington

1973 B.S., Biological Oceanography, University of Washington

Professional Experience

- 2007 - Associate Professor, College of Marine Science,
University of South Florida
- 2006 - 07 Director, ORION Program, Joint Oceanographic Institutions,
Washington, DC
- 2001 - 07 Assistant Professor, College of Marine Science,
University of South Florida
- 1997 - 01 Associate Program Director, Biological Oceanography Program
National Science Foundation
- 1995 - 01 Research Associate, University of Tennessee
- 1995 - 97 Hollaender Distinguished Postdoctoral Fellow
Oak Ridge National Laboratory/Department of Energy
- 1991 - 95 Research Assistant, Department of Ecology and Evolutionary
Biology, University of Tennessee
- 1973 - 91 Assistant, Associate, Senior Oceanographer, Department of Oceanography, University
of Washington

Honors, Awards, Recognition, and Fellowships

- 2013 ARCS STEM Collaborative Partnership Award for participation in Gulf Oil Spill First
Responder Team
- 2011 Invited plenary speaker: Daly, K.L. Modes of Climate and Food Web Variability in High
Latitude Oceans. Fifth International Zooplankton Production Symposium, March 14-18,
Puñón, Chile,
- 2009 Invited plenary speaker: Daly, K.L. The Biological Pump in the Eastern Tropical Pacific
Oxygen Minimum Zone. Chapman Conference on the Biological Pump, Sept 1-4,
Southampton, UK.
- 2007 Alfred P. Sloan Certificate of Appreciation for mentoring underrepresented minorities.
- 1999 Invited plenary speaker, Daly, K.L. Water-Column Biological Carbon Processes in the
Southern Ocean. Gordon Research Conference on *Polar Marine Science*, Ventura, CA.
- 1995 Hollaender Distinguished Postdoctoral Fellowship/DOE

- 1995 Editors Citation for Excellence in Reviewing, JGR Oceans
- 1995 Science Alliance Award, Outstanding Scholarly Achievement, University of Tennessee
- 1994 Science Alliance Award, Outstanding Scholarly Achievement, University of Tennessee
- 1994 Scholarly Activities Research Incentive Award, University of Tennessee
- 1993 Science Alliance Award, Outstanding Scholarly Achievement, University of Tennessee
- 1992 Science Alliance Award, Outstanding Scholarly Achievement, University of Tennessee
- 1984 Antarctic Service Medal, National Science Foundation

Professional Society Membership

American Society of Limnology and Oceanography
 The Oceanography Society
 The American Geophysical Union
 American Association for the Advancement of Science
 Marine Technology Society

Refereed Publications

- Ballerini, T., E. E. Hofmann, D.G. Ainley, K.L. Daly, M. Marrari, C. Ribic, W.O. Smith, Jr., J. H. Steele. The Marine Food Web of the western Antarctic Peninsula Continental Shelf - Structure and Dynamics. *Progress in Oceanography* (submitted October 2012)
- Crowley, C.E, R.L. Gandy, K.L. Daly, E.S. Van Vleet. Problems associated with an extraction method used to develop lipofuscin indices for blue crabs (*Callinectes sapidus*) cultured in Florida. *Marine Ecology Progress Series* (submitted)
- Wishner, K.F., D. Outram, B. Seibel, K.L. Daly. Zooplankton in the Eastern Tropical North Pacific: Boundary Effects of Oxygen Minimum Zone Expansion. *Deep Sea Research* (resubmitted December 2012)
- 2013 Piñones, A., E.E. Hofmann, K.L. Daly, M.S. Dinniman, J.M. Klinck. Modeling early life stages of Antarctic krill (*Euphausia superba*) in continental shelf environments on the west Antarctic Peninsula. *Deep-Sea Research I*. (accepted March 2013)
- Wirt, K., P. Hallock Muller, D. Palandro, and K.L. Daly. Potential Habitat of *Acropora* spp. on Florida Reefs. **Applied Geography** (in press).
- Piñones, A., E.E. Hofmann, K.L. Daly, M.S. Dinniman, and J.M. Klinck. Modeling the remote and local connectivity of Antarctic krill (*Euphausia superba*) populations along the western Antarctic Peninsula. **Marine Ecology Progress Series** (accepted January 2013).
- Olson, M.B. and K.L. Daly. Micro-grazer biomass, composition and distribution across prey resource and dissolved oxygen gradients in the far eastern tropical north Pacific Ocean. **Deep-Sea Research I** 75: 28-38.
- 2012 Halpern, B.S., Catherine Longo, Darren Hardy, Karen McLeod, Jameal F. Samhouri, Steven K. Katona, Kristin Kleisner, Sarah E. Lester, Jennifer O’Leary, Marla Ranelletti, Andrew A. Rosenberg, Courtney Scarborough, Elizabeth Selig, Ben Best, Daniel Brumbaugh, F. Stuart Chapin, Larry Crowder, Kendra L. Daly, Scott Doney, Michael J. Fogarty, Steven D. Gaines, Kelsey Jacobsen, Leah Bunce Karrer, Heather M. Leslie, Daniel Pauly, Stephen Polasky, Kevin St. Martin, Gregory S. Stone, U. Rashid Sumaila, Heather Tallis, Dirk Zeller. An Ocean Health Index:

quantifying and mapping the health of global marine ecosystems. **Nature** 488: 615-620_10.1038/nature11397. [Smithsonian rated this paper one of the 10 best ocean stories of the year. <http://blogs.smithsonianmag.com/science/2012/12/the-ten-best-ocean-stories-of-2012/>]

Murphy, E.J., R.D. Cavanagh, E.E. Hofmann, S.L. Hill, A.J. Constable, D.P. Costa, M.H. Pinkerton, N.M. Johnston, P.N. Trathan, J.M. Klinck, D.A. Wolf-Gladrow, K.L. Daly, O. Maury, and S. C. Doney. Developing integrated models of Southern Ocean food webs: including ecological complexity, accounting for uncertainty and the importance of scale. **Progress in Oceanography** 102: 74–92.

Fefilatyev, S., M. Shreve, K. Kramer, L. Hall, D. Goldgof, R. Kasturi, K. Daly, A. Remsen, H. Bunke. Label-Noise Reduction with Support Vector Machines. International Conference on Pattern Recognition. Nov. 11-15, 2012, Tsukuba, Japan. **Journal of Machine Learning Research**

2011 Hu, C., R.H. Weisberg, Y.Liu, L. Zheng, K.L. Daly, D.C. English, J. Zhao, and G.A. Vargo. Did the northeastern Gulf of Mexico become greener after the Deepwater Horizon oil spill? **Geophysical Research Letters** 38, L09601, doi:10.1029/2011GL047184.

Cass, C.J., S.G. Wakeham, and K.L. Daly. Lipid composition of tropical and subtropical copepod species of the genus *Rhincalanus* (Copepoda: Eucalanidae): A novel fatty acid and alcohol signature. **Marine Ecology Progress Series** 439: 127-138.

Marrari, M. K.L. Daly, A. Timonin, and T. Semenova. The zooplankton of Marguerite Bay, western Antarctic Peninsula. Part I: Abundance, distribution, and population response to variability in environmental conditions. **Deep-Sea Research II** 58: 1599-1613, 10.1016/j.dsr2.2010.12.007.

Marrari, M. K.L. Daly, A. Timonin, and T. Semenova. The zooplankton of Marguerite Bay, western Antarctic Peninsula. Part II: Vertical distributions and habitat partitioning. **Deep-Sea Research II** 58: 1614-1629, 10.1016/j.dsr2.2010.12.006.

Fefilatyev, S., K. Kramer, L. Hall, D. Goldgof, R. Kasturi, A. Remsen, K. Daly. Detection of Anomalous Particles from the Deepwater Horizon Oil Spill Using the SIPPER3 Underwater Imaging Platform. **Proceedings of International Conference on Data Mining Workshops**, p. 741-748. **Awarded Data Mining Practice Prize** at the IEEE International Conference on Data Mining (ICDM), Vancouver, Canada, December 11-14, 2011. DOI 10.1109/ICDMW.2011.65.

2009 Spear, A., K. Daly, D. Huffman, and L. Garcia-Rubio. Progress in developing a new detection method for the harmful algal bloom species, *Karenia brevis*, through multiwavelength spectroscopy. **Harmful Algae** 8: 189-195.

Zielinski, O., J.A. Busch, A.D. Cembella, K.L. Daly, J. Engelbrektsson, A. Hannides, A. Köhler, and H. Schmidt. Detecting marine hazardous substances: A review on sensors for pollution, toxins, and pathogens. **Ocean Science** 5: 1-21.

Adornato, L., Cardenas-Valencia, A., Kaltenbacher, E., Byrne, R.H., Daly, K., Larkin, K., Hartman, S., Mowlem, M., Prien, R.D., Garcon, V., "In Situ Nutrient Sensors for Ocean Observing Systems", in **Proceedings of the "OceanObs'09: Sustained Ocean Observations and Information for Society"** Conference (Vol. 2), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D.E. and Stammer, D., Eds., ESA Publication WPP-306, 2010.

- 2008 Marrari, M., K.L. Daly and C. Hu. Spatial and temporal variability of SeaWiFS derived chlorophyll distributions west of the Antarctic Peninsula: Implications for krill production. **Deep Sea Research II** 55: 377-392.
- 2007 Deibel, D. and K.L. Daly. Zooplankton Processes in Arctic and Antarctic Polynyas. In, Smith, W.O., Jr. and D. Barber (eds), Polynyas: Windows into Polar Oceans. **Elsevier Oceanography Series** 74: 271-322.
- 2006 Scolardi, K., K.L. Daly, E.A. Pakhomov, and J.J. Torres. Feeding ecology and metabolism of the Antarctic Cydippid ctenophore *Callianira antarctica*. **Marine Ecology Progress Series** 317: 111-126.
- Marrari, M., C. Hu, K.L. Daly. Validation of SeaWiFS chlorophyll *a* concentrations in the Southern Ocean: A revisit. **Remote Sensing of Environment** 105: 367-375.
- 2005 Daly, K.L. Women in Oceanography. *Oceanography* 18 (1): 101.
- 2004 Daly, K.L., R.H. Byrne, A.G. Dickson, S.M. Gallagher, M.J. Perry, and M.K. Tivey. Chemical and biological sensors for time-series research: Current status and new directions. **Marine Technology Society Journal** 38 (2): 122-144.
- Daly, K.L. and J. Zimmerman. Comparisons of morphology and neritic distributions of *Euphausia crystallorophias* and *Euphausia superba* furcilia during autumn and winter west of the Antarctic Peninsula. **Polar Biology** 28: 72-81. DOI: 10.1007/s00300-004-0660-y.
- Ju, S.-J., K. Scolardi, K.L. Daly, and H.R. Harvey. Understanding the trophic role of ctenophore *Callianira antarctica* in an Antarctic ecosystem using lipid biomarkers. **Polar Biology** 27: 782-792, DOI: 10.1007/s00300-004-0652-y.
- Daly, K.L. Overwintering growth and development of larval *Euphausia superba*: An interannual comparison under varying environmental conditions west of the Antarctic Peninsula. **Deep-Sea Research II** 51: 2139-2168. GLOBEC contribution number 457.
- 2003 DiTullio, G.R., M.E. Geesey, D.R. Jones, K.L. Daly, L. Campbell, and W.O. Smith, Jr. Phytoplankton assemblage structure and primary productivity along 170°W in the South Pacific Ocean. **Marine Ecology Progress Series** 255: 55-80.
- Ackley, S.F., J.L. Bengtson, P. Boveng, M. Castellini, K.L. Daly, S. Jacobs, G.L. Kooyman, J. Laake, L. Quetin, R. Ross, D.B. Siniff, B.S. Stewart, I. Stirling, J. Torres, and P.K. Yochem. A top-down, multidisciplinary study of the structure and function of the pack-ice ecosystem in the Eastern Ross Sea, Antarctica. **Polar Record** 39: 219-230.
- 2002 Hofmann, E.E., D.P. Costa, K.L. Daly, J.M. Klinck, W.R. Fraser, and J.J. Torres. U.S. Southern Ocean Global Ocean Ecosystem Dynamics Program. **Oceanography** 15 (2): 64-74.
- 2001 Daly, K.L., W.O. Smith, Jr., G.C. Johnson, G.R. DiTullio, D.R. Jones, C.W. Mordy, R.A. Feely, D.A. Hansell, and J.-Z. Zhang. Hydrography, nutrients, and carbon pools in the Pacific sector of the Southern Ocean: Implications for carbon flux. **Journal of Geophysical Research** 106, No. C4: 7107-7124. U.S. JGOFS contribution number 708.

- Bathmann, U., M.H. Bundy, M.E. Clarke, T.J. Cowles, K. Daly, H.G. Dam, M.M. Dekshenicks, P.L. Donaghay, D.M. Gibson, D.J. Gifford, B.W. Hansen, D.K. Hartline, E.J.H. Head, E.E. Hofmann, R.R. Hopcroft, R.A. Jahnke, S.H. Jonasdottir, T. Kiorboe, G.S. Kleppel, J.M. Klinck, P.M. Kramer, M.R. Landry, R.F. Lee, P.H. Lenz, L.P. Madin, D.T. Manahan, M.G. Mazzocchi, D.J. McGillicuddy, C.B. Miller, J.R. Nelson, T.R. Osborn, G.A. Paffenhofer, R.E. Pieper, I. Prusova, M.R. Roman, S. Schiel, H.E. Seim, S.L. Smith, J.J. Torres, P.G. Verity, S.G. Wakeham, and K.F. Wishner. Future marine zooplankton research - a perspective. **Marine Ecology Progress Series** 222: 297-308.
- 2000 Daly, K.L. Meeting explores sensor technology for remote, interactive aquatic experiments. **EOS, Trans. Am. Geophys. Union** 81: 580.
- 1999 Daly, K.L., D.W.R. Wallace, W.O. Smith, Jr., A. Skoog, R. Lara, M. Gosselin, E. Falck, and P. Yager. Non-Redfield carbon and nitrogen cycling in the Arctic: Effects of ecosystem structure and function. **Journal of Geophysical Research** 104, No. C2: 3185-3199.
- 1998 Daly, K.L. Physioecology of juvenile Antarctic krill (*Euphausia superba*) during spring in ice-covered seas. In: M. Lizotte and K. Arrigo (eds.), Antarctic Sea Ice: Biological Processes. **AGU Antarctic Research Series** 73: 183-198.
- Pesant, S., L. Legendre, M. Gosselin, C. Ashjian, B. Booth, K. Daly, L. Fortier, H.-J. Hirche, J. Michaud, R.E.H. Smith, S. Smith, and W.O. Smith, Jr. Pathways of carbon cycling in the euphotic zone: the fate of large-sized phytoplankton in the Northeast Water Polynya. **Journal of Plankton Research** 20: 1267-1291.
- 1997 Daly, K.L. Flux of particulate matter through copepods in the Northeast Water Polynya. **Journal of Marine Systems** 10: 319-342.
- Smith, W.O., Jr., M. Gosselin, L. Legendre, D.W.R. Wallace, K.L. Daly and G. Kattner. New production in the Northeast Water Polynya: 1993. **Journal of Marine Systems** 10: 199-209.
- 1996 Daly, K.L. and G.R. DiTullio. Particulate dimethylsulfoniopropionate removal and dimethylsulfide production by zooplankton in the Southern Ocean, pp. 223-238. In: R.P. Kiene, P.T. Visscher, M.D. Keller and G.O. Kirst (eds.), **Biological and Environmental Chemistry of DMSP and Related Sulfonium Compounds**. Plenum Press.
- 1995 Macaulay, M.C., K.F. Wishner, and K.L. Daly. Acoustic scattering from zooplankton and micronekton in relation to a whale feeding site near Georges Bank and Cape Cod. **Continental Shelf Research** 15: 509-537.
- 1993 Deutschman, D.H., G.A. Bradshaw, W.M. Childress, K.L. Daly, D. Grunbaum, M. Pascual, N. Schumaker, and J. Wu. Mechanisms of patch formation, pp 184-208. In: S. Levin, T. Powell, and J. Steele (eds.), Patch dynamics. **Lecture Notes in Biomathematics** 96. Springer-Verlag, Berlin.
- Daly, K.L. and W.O. Smith, Jr. Physical-biological interactions influencing marine plankton production. **Annual Review of Ecology and Systematics** 24: 555-585.
- 1991 Daly, K.L. and M.C. Macaulay. The influence of physical and biological mesoscale dynamics on the seasonal distribution and behavior of *Euphausia superba* in the antarctic marginal ice zone. **Marine Ecology Progress Series** 79: 37-66.

- 1990 Daly, K.L. Overwintering development, growth, and feeding of larval *Euphausia superba* in the Antarctic marginal ice zone. **Limnology and Oceanography** 35 (7): 1564-1576.
- 1988 Daly, K.L. and M.C. Macaulay. Abundance and distribution of krill in the ice edge zone of the Weddell Sea, austral spring 1983. **Deep-Sea Research** 35: 21-41.
- Ainley, D.G., W.R. Fraser, and K.L. Daly. Effects of pack ice on the composition of micronektonic communities in the Weddell Sea, pp 140- 145. In: D. Sahrhage (ed.), **Antarctic Ocean and Resources Variability**. Springer-Verlag, Berlin.
- 1987 Daly, K.L. Order Mysidacea, pp 320-324. In: E.N. Kozloff (ed.), Marine invertebrates of the Pacific Northwest. **University of Washington Press**.
- Macaulay, M.C. and K.L. Daly. A collapsible opening-closing net for zooplankton sampling through ice. **Journal of Plankton Research** 9: 1069-1073.
- 1986 Daly, K.L. and C. Holmquist. A key to the Mysidacea of the Pacific Northwest. **Canadian Journal of Zoology** 64: 1201-1210.
- Daly, K.L. and D.M. Damkaer. Population dynamics and distribution of *Neomysis mercedis* and *Alienacanthomysis macropsis* (Crustacea: Mysidacea) in relation to the parasitic copepod *Hansenulus trebax* in the Columbia River Estuary. **Journal of Crustacean Biology** 6: 840-857.
- 1982 Ross, R., K.L. Daly, and T.S. English. Reproductive cycles and fecundity of *Euphausia pacifica* in Puget Sound, Washington. **Limnology and Oceanography** 27: 304-314.
- 1980 Macaulay, M.C., K.L. Daly, and T.S. English. Acoustic observations of biological volume scattering in the vicinity of the IXTOC-1 blowout, pp. 449-521. In: Proceedings of the symposium on the preliminary results from the 1979 Pierce/ Research IXTOC-1 cruises. **NOAA, Office of Pollution Research**.

Non-Refereed Publications

- 2013 Boget, E., R. Collier, G. Cram, K. Daly, G. Denny, G. Harkins, D. Luther, V. Miller, D. Russell, W. Waldorf. RSN and EA Mooring Winch Requirements Trade Study. OOI Document Number 4814-71402
- 2012 Buesseler, K., F. Chai, K. Daly, D. Karl. Response statement on recent iron dumping off west coast of Canada. OCB website (<http://www.whoi.edu/ocb-fert/page.do?pid=38315>), November 2, 2012.
- Daly, K.L. Data Product Specification for Photosynthetically Active Radiation (PAR) for Satlantic Instrument on RSN Shallow Profiler. OOI Document Control Number 1341-00720.
- 2010 Daly, K.L., F. Chan, and N. Rabalais. Low Oxygen Regions in the Oceans. Ocean Carbon and Biogeochemistry Newsletter 3(2): 6-9.
- Coble, P.G., L.L. Robbins, K.L. Daly, W.-J. Cai, K. Fennel, S.E Lohrenz. A Preliminary Carbon Budget for the Gulf of Mexico. Ocean Carbon and Biogeochemistry Newsletter 3(3): 1-4.
- 2009 Hofmann, E.E, Costa, D.P., Daly, K.L., Dinniman, M.S., Klinck, J.M., Marrari, M.,

- Padman, L., Piñones, A. Results from US Southern Ocean GLOBEC Synthesis Studies. GLOBEC International Newsletter 15(1), 43-48.
- 2008 Daly, K., D. Au, S. Gallager, and D. Luther. Profiling Mooring Workshop for the Ocean Observatories Initiative, 10-12 July 2007, Denver, CO.
http://www.oceanleadership.org/ocean_observing
- 2007 Daly, K. (editor). ORION: Revolutionizing Ocean and Earth Research. Brochure, 12 pp.
- Torres, J.J., K.L. Daly, H.R. Harvey, S.-J. Ju, L.B. Quentin, R.M. Ross, S.M. Gallager. The physiology of fall and winter krill (*Euphausia superba*) in the waters of the western Antarctic Peninsula shelf. GLOBEC International Newsletter, April: 60-62.
- 2006 Daly, K. et al. The OOI Design and Implementation Workshop Report. 27-30 March 2006, Salt Lake City, UT, 37 pp.
- 2005 Brink, K. et al. The Ocean Observatories Initiative Science Plan: Revealing the Secrets of our Ocean Planet. Washington, D.C., 102 pp.
http://www.oceanleadership.org/files/OOI_Science_Plan.pdf
- 2002 Jahnke, R., L. Atkinson, J. Barth, F. Chavez, K. Daly, J. Edson, P. Franks, J. O'Donnell, O. Schofield. Coastal Ocean Processes and Observatories: Advancing Coastal Research, Report CoOP Observatory Science Workshop, May 7-9, 2002, Savannah, Georgia, CoOP Report 8, TR-02-01.
- 2001 Daly, K.L., S. Samson, T. Hopkins, A. Remsen, T. Sutton, and L. Langebrake. Sensor technology for zooplankton assessment. In, Harada, K. and Dickey, T. (eds), Proceedings for International Workshop on Autonomous Measurements of Biogeochemical Parameters in the Ocean, Honolulu, February 2001.
- 2000 Daly, K., H.L. Clark, G. Griffiths, and J. Delaney. Sensor Technology for Remote, Interactive, Aquatic Experiments. Report for ASLO Workshop, Copenhagen, June 2000.
- 1994 Daly, K.L. and G.R. DiTullio. Biogenic production of dimethyl sulfide: Krill grazing. Antarctic Journal of the United States 28 (5): 141-142.
- 1989 Daly, K.L. and M.C. Macaulay. AMERIEZ 1988: Abundance and distribution and overwintering strategies of krill in the ice edge zone. Antarctic Journal of the United States 24 (5): 165-166.
- 1988 Macaulay, M.C., K.L. Daly, and B.W. Frost. AMERIEZ 1986: Acoustic assessment of krill (*Euphausia superba*, Dana). Antarctic Journal of the United States 22: 176-178.
- 1984 Macaulay, M.C., K.L. Daly, and O.A. Mathisen. Acoustic assessment of the distribution and abundance of micronekton and nekton in the Scotia Sea, March 1984. Antarctic Journal of the United States 19: 141-143.
- Macaulay, M.C., K.L. Daly, and T.S. English. Acoustic and net assessment of the distribution and abundance of micronekton and nekton in the Weddell Sea, Nov. - Dec. 1983. Antarctic Journal of the United States 19:115-117.

Presentations at National/International Professional Meetings/Conferences/ or Invited Lectures

- 2013 Walsh, J.J., J.M. Lenos, R.H. Weisberg, C. Hu, and K. Daly. Effects of chronic oil spills, compounded by overfishing and other environmental perturbations, on increased HABs and related worldwide asthma occurrences. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Jan. 2013, New Orleans.
- Daly, K.L., L. Schwierzke-Wade, K. Dreger, S. Murasko, D. Outram, and A. Remsen. Plankton Dynamics Following the BP Oil Spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Jan. 2013, New Orleans.
- 2012 Invited talk. Daly, K.L. Overview of the OOI. Elements and Technological Capabilities. NASA-OOI Data QC Workshop, June 6-8, 2012, Walpole, Maine.
- Invited talk. Daly, K.L. Southern Ocean: Impact of Climate Change on Zooplankton Advective Fluxes. PICES (North Pacific Marine Science Organization) Symposium, May 14, Yeosu, Korea. (talk given by C. Ashjian)
- Fefilatyeu, S., M. Shreve, K. Kramer, L. Hall, D. Goldgof, R. Kasturi, A. Remsen, K. Daly. 2012. Label-Noise Reduction with Support Vector Machines . International Conference on Pattern Recognition (submitted April 2012)
- Wirt, K. P. Hallock-Muller, D. Palandro, and K. Daly. Potential Habitat of *Acropora* spp. on Florida Reefs. Florida Academy of Sciences (FAS), March.
- Invited speaker. Daly, K.L. and H.M. Benway. Ocean Carbon and Biogeochemistry: Building a community from the bottom up. AAAS, Feb. 2011, Vancouver, BC.
- Southall, B., C. Christopher, K. Daly, S. Moore, J. Payne, R. Payne, K. Stafford, M. Stoermer, P. Tyack, W. Wilcock, and J. Delaney. Acoustic Monitoring of Marine Life Using a Fiber-Optic Ocean Observing System. Ocean Sciences, Feb. 2012, Salt Lake City.
- Wishner, Outram, Seibel, Daly. Boundary Effects of Oxygen Minimum Zone Expansion on Zooplankton in the Eastern Tropical North Pacific. Ocean Sciences, Feb. 2012, Salt Lake City.
- Cass, C. K.L. Daly, S.G Wakeham. Feeding Ecology of *Eucalanus inermis* in the eastern Tropical Pacific Ocean: Implications for Carbon Transport. Ocean Sciences, Feb. 2012, Salt Lake City.
- Daly, K.L., A. Remsen, S. Murasko, D. Outram, and L. Wade. Plankton Dynamics Following the BP Oil Spill. Ocean Sciences, Feb. 2012, Salt Lake City.
- Daly, K.L. and H.M. Benway. The Ocean Carbon and Biogeochemistry Program: Building a community from the bottom up. Ocean Sciences, Feb. 2012, Salt Lake City. Ocean Sciences, Feb. 2012, Salt Lake City.
- Delaney, J.R., D.S. Kelley, K.L. Daly, D. Luther, A.T. Fundis, G. Proskurowski, O. Kawka. Understanding the planet life support system: Net-generation science in the ocean basins. Ocean Sciences, Feb. 2012, Salt Lake City. Ocean Sciences, Feb. 2012, Salt Lake City.
- Pinones, A., E.E Hofmann, K.L. Daly, M.S. Dinniman, and J.M. Klinck. Modeling early life history stages of Antarctic krill under present and future environmental conditions on the west Antarctic Peninsula.
- 2011 Invited plenary speaker, Daly, K.L. Modes of Climate and Food Web Variability in High Latitude Oceans. Fifth International Zooplankton Production Symposium, March 14-18, Puñon, Chile.
- Cass, C.J. and K.L. Daly. Effects of temperature and oxygen on metabolic parameters for eucalanoid copepods of the eastern tropical north pacific: Implications for biogeochemical cycles. Fifth International Zooplankton Production Symposium, March 14-18, Puñon, Chile.
- Wishner, K., K.L. Daly, and B.A. Seibel. Potential effects of climate variability on oxygen minimum zone zooplankton communities. Fifth International Zooplankton Production Symposium, March 14-18, Puñon, Chile.

- Southall, B., C. Clark, K. Daly, S. Moore, J. Payne, R. Payne, K. Stafford, M. Stoermer, P. Tyack, W. Wilcock, J. Delaney. Acoustic Monitoring of Marine Life Using a Fiber-Optic Ocean Observing System. 161st Meeting of the Acoustical Society of America, Seattle, May 23 2011.
- Invited speaker, Daly, K.L. Directions in Ocean Biology for Ocean Observing. Global Earth Observing System of Systems (GEOSS) Workshop XLII –Toward Global Ocean Observations, September 18, Kona, Hawaii.
- Invited speaker, K. Daly and D. Luther. Water Column Studies with the RSN: Physical, Biogeochemical, Ecosystem, and Marine Mammal Studies. Axial Seamount RSN Science Workshop, October 5-7, Seattle, WA.
- Fefilatyevev, S., K. Kramer, L. Hall, D. Goldgof, R. Kasturi, A. Remsen, K. Daly. Detection of Anomalous Particles from Deepwater Horizon Oil Spill Using SIPPER3 Underwater Imaging Platform. Eleventh IEEE International Conference on Data Mining, December 11-14, 2011, Vancouver, Canada.
- 2010 Daly, K.L. & Project PIs. Do OMZs Alter the Biological Pump? Ocean Sciences, 22-26 Feb., Portland, OR.
- Cass, C., K.L. Daly, S.G. Wakeham, E.S. Van Vleet. Using Lipid Biomarkers to Assess Diet for Three Species of Copepods in the Eastern Tropical Pacific Oxygen Minimum Zone. Ocean Sciences, 22-26 Feb., Portland, OR.
- Olson, M.B., K. L. Daly, A. Podlaska, G. Taylor. Microzooplankton Dynamics Across Oxygen Gradients in the Eastern Tropical North Pacific. Ocean Sciences, 22-26 Feb., Portland, OR.
- Remsen, A., K.L. Daly, K. Kramer. Vertical distributions of plankton and detrital particles in the eastern tropical Pacific oxygen minimum zone: Observations from the SIPPER imaging system. Ocean Sciences, 22-26 Feb., Portland, OR.
- Wishner, K., D. Outram, K. Daly, S. Frazar, A. Maas, B. Seibel, R. Williams. Effects of the Oxygen Minimum Zone on Zooplankton Biomass, Distributions, Diel Vertical Migration, and Community Structure in the Eastern Tropical North Pacific. Ocean Sciences, 22-26 Feb., Portland, OR.
- Schneider, J. L., Seibel, B. A, Rosa, R., Wishner, K., and Daly, K. Hypoxia-induced metabolic suppression in vertically-migrating zooplankton may reduce the efficiency of the biological carbon pump in oxygen minimum zones. Ocean Sciences, 22-26 Feb., Portland, OR.
- Coble, P.G., K.L. Daly, W.-J. Cai, K. Fennel, S.E. Lohrenz, L.L. Robbins. A Preliminary Carbon Budget for the Gulf of Mexico. Ocean Sciences, 22-26 Feb., Portland, OR.
- Ballerini, T., D. Ainley, K. Daly, E. Hofmann, M. Marrari, C. Ribic, W. Smith, J. Steele. An Analysis of Consequences of Modifications to a Southern Ocean Food Web. Ocean Sciences, 22-26 Feb., Portland, OR.
- Piñones, A., E. E. Hofmann, K. Daly, P. Wiebe, M. S. Dinniman, J.M. Klinck. Remote and local connectivity of Antarctic krill (*Euphausia superba*) populations along the western Antarctic Peninsula. Ocean Sciences, 22-26 Feb., Portland, OR.
- Invited talk. Delaney, J.R., D.S. Kelley, K.L. Daly, D.S. Luther. A Rationale and Approach for Next-Generation Ocean Science. Ocean Sciences, 22-26 Feb., Portland, OR.
- Invited talk. Daly, K.L. The specter of expanding OMZs: Habitat Compression and the Biological Pump. Ocean Carbon and Biogeochemistry Summer Workshop, 19-22 July, San Diego, CA.
- Kelley, D. and Daly, K.L. OOI Science Drivers and Design II. Regional Scale Nodes: Bringing High Power and Bandwidth to the NE Pacific Ocean. Observatories Initiative (OOI) Science Community Workshop II, 29-30 April, Tempe, AZ.
- Ballerini, T. D. Ainley, K. Daly, E. Hofmann, M. Marrari, C. Ribic, W. Smith, and J. Steele. An Analysis of Consequences of Modifications to a Southern Ocean Food Web. CAMEO End-to-End Modeling Workshop, 18-22 April, Woods Hole. MA.

- Invited talk. Daly, K.L. Opportunities for Ocean Biogeochemical Research Provided by the Ocean Observatories Initiative. Ocean Biogeochemistry Time-Series Scoping Workshop: Sea Change: Charting the Course for Ecological and Biogeochemical Ocean Time Series Research. 21-23 Sept. Honolulu, Hawaii.
- Piñones, A. E.E. Hofmann, K.L. Daly, P.H. Wiebe, M.S. Dinniman, J.M. Klinck. Remote and local connectivity of Antarctic krill (*Euphausia superba*) populations along the western Antarctic Peninsula. SCAR Open Science Conference held in Buenos Aires – Argentina, August 3-6, 2010
- Daly, K.L. The Eastern Tropical Pacific as a Proxy for a Future Stratified Ocean. IMBIZIO II, IMBER Meeting, 10-14 Oct., Crete, Greece.
- 2009 Daly, K.L. & Project PIs. Eastern Tropical Pacific Project: Overview. ASLO Meeting, 25-30 January 2009, Nice, France.
- Cass, C. and K.L. Daly. Using Metabolic Parameters to Assess Copepod Tolerance to Low-Oxygen Environments in the Eastern Tropical Pacific. ASLO Meeting, 25-30 January 2009, Nice, France. (received best student poster award)
- Wishner, K., K. Daly, B. Seibel, A. Maas, D. Outram, R. Williams, C. Flagg, A. Podlaska, G. Taylor, S. Wakeham. Zooplankton Distributions in the Eastern Tropical Pacific Oxygen Minimum Zone: Recent Cruise Highlights. ASLO Meeting, 25-30 January 2009, Nice, France.
- Invited talk: Daly, K.L. Ross Sea Zooplankton, Ross Sea Marine Conservation Region, International Marine Conservation Congress, 21 May, Fairfax, VA.
- Daly, K.L. and M. Marrari. U.S. Southern Ocean GLOBEC Process Studies: Distribution, Overwintering Strategies, and Recruitment of Antarctic Krill. International GLOBEC Open Science Meeting, 22-26 June, Victoria, B.C.
- Marrari, M., K.L. Daly, A. Timonin, and T. Semenova. The Zooplankton of Marguerite Bay, Western Antarctic Peninsula: Abundance, Distribution, and Controls on Interannual Variability. International GLOBEC Open Science Meeting, 22-26 June, Victoria, B.C.
- Invited talk: Daly, K.L. Future of Ocean Carbon and Biogeochemistry Research in the Southern Ocean. OCB Summer Workshop, July 20-23, Woods Hole, MA.
- Ballerini, T., E. Hofmann, M. Marrari, and K.L. Daly. Southern Ocean End-to-End Food Web Model. Ocean Carbon & Biogeochemistry Summer Workshop, 20-23 July.
- Invited plenary talk: Daly, K.L. The Biological Pump in the Eastern Tropical Pacific Oxygen Minimum Zone. Chapman Conference on the Biological Pump, Sept 1-4, Southampton, UK.
- Invited plenary talk: Daly, K.L. Observational Approaches to Community Structure: Microbes to Zooplankton. SCOR Ocean Biology Observatories Workshop, Sept. 16-18, Mestre, Italy.
- Invited talk: Daly, K.L. Water Column Science Opportunities: OOI Cabled Observatories. OOI Science Workshop, 11-12 Nov., Baltimore, MD.
- 2008 Invited plenary talk: Daly, K. GLOBEC: Temporal Trends in Ecosystem Variability. Ocean Carbon and Biogeochemistry Workshop, 21-24 July 2008, Woods Hole, MA.
- Daly, K.L., M. Marrari, C. Hu. SeaWiFS chlorophyll distributions, sea ice dynamics, and krill recruitment west of the Antarctic Peninsula. Biennial SCAR (Scientific Committee on Antarctic Research) Meeting, 8-11 July, St. Petersburg, Russia.
- Spear, A., D. Huffman, L.H. Garcia-Rubio, and K. Daly. The use of multiwavelength spectroscopy for the spectral characterization of *Karenia brevis* and the influence of chloroplasts on its spectral fingerprint. Ocean Sciences Meeting, 3-7 March, Orlando, FL.
- Invited talk: Daly, K., K. Wishner, B. Seibel, S. Wakeham, and R. Sambrotto. Eastern Tropical Pacific Processes. 16-18 January, CICESE, Ensenada, Mexico.
- 2007 Invited lecture. Daly, K. NSF's Ocean Observatories Initiative. Underwater Sensors Networks. Workshop. Georgia Institute of Technology, 18-19 June, Atlanta, Georgia.

- Marrri, M. K.L. Daly, and C. Hu. Influence of chlorophyll and sea ice dynamics on reproduction and recruitment of the Antarctic krill *Euphausia superba* in waters west of the Antarctic Peninsula. Fourth International Zooplankton Production Symposium. 28 May-1 June, Hiroshima, Japan.
- Invited lecture. Daly, K. Networked Ocean Observatories for Scientific Discovery and Technology Development. Undersea Distributed Networked Systems Conference. Naval Undersea Warfare Center & National Defense Industrial Association. 13-15 February, Newport, RI.
- 2006 Daly, K.L., M. Zhou, Y. Zhu, A. Timonin, and T. Semenova. Physical and biological processes influencing krill recruitment. Ocean Sciences Meeting, 2-24 February. Honolulu, Hawaii.
- Marrari, M., K. Daly, and C. Hu. Spatial and Temporal and spatial variability of SeaWiFS derived chlorophyll distribution west of the Antarctic Peninsula. Ocean Sciences Meeting, 2-24 February. Honolulu, Hawaii.
- Invited lecture. Daly, K.L. and A.R. Isern. The information super seaway: Networking the seafloor for interactive scientific discovery. AGU Joint Assembly Meeting, May, Baltimore, Maryland.
- 2005 Invited lecture. Daly, K.L. and B. Mahmoudi. Plankton, Fronts, and Hot Spots: The Road to Fish Models. USGS Gulf of Mexico Integrated Science –Tampa Bay Study, 4th Annual Science Conference, 8 February, St. Petersburg, FL.
- Daly, K.L. Coastal Antarctic zooplankton: Effects of latitude, polynyas, the ACC, and sea ice. Gordon Research Conference on *Polar Marine Science*, March 2005, Ventura, CA. Organizers:C. Lancelot and K. Arrigo.
- Invited lecture. Daly, K.L. Sensors for Aquatic Observatories. Sensors for Environmental Measurements: Chemistry, Biology, and Transport Workshop, 12 May 2005, University of Minnesota, Minneapolis, MN.
- 2004 Daly, K.L., J. Torres, S. Gallager, J. Donnelly, J. Zimmerman, and J. Bellucci. Carbon Budgets of Overwintering Larval Krill. AGU, January, Portland, Oregon.
- Scolardi, K., K.L. Daly, and J. Torres. Feeding Ecology and Metabolism of the Antarctic Cydippid Ctenophore *Callianira antarctica*. AGU, January, Portland, Oregon.
- Gallager S., K. Daly, G. Thompson, P. Alatalo, A. Girard, and G. Rosenwacks. Abundance, Distribution, Swimming Behavior, and Feeding of Under Ice Larval Krill Along the Western Antarctic Peninsula. Scientific Committee on Antarctic Research, SCAR XXVII, July 2004, Bremen, Germany.
- Invited lecture. Daly, K. Marine Zooplankton Controls on High Latitude Biogeochemical Stoichiometry, 27 May, Louisiana Universities Marine Consortium (LUMCON).
- Invited lecture. Daly, K., D. Chu, and M. Jech. Bioacoustics and Sensing Systems, Office of Naval Research Progress Review Southwest Region, 12 May, University of South Florida.
- Invited plenary lecture. Daly, K. Chemical and Biological Sensors, Instrument Software Infrastructure Workshop, 13 - 15 September, Monterey Bay Research Institute (MBARI).
- 2003 Gallager, S.M., K. Daly, G. Thompson, and P. Alatalo. Microplankton as a food resource for larval krill along the Western Antarctic Peninsula. Zooplankton Production Symposium, 20-23 May, Gijon, Spain.
- Daly, K.L. and D.W.R. Wallace. Carbon Dioxide Production and Respiratory Quotients for an Arctic Marine Copepod, *Calanus hyperboreus*. Zooplankton Production Symposium, 20-23 May, Gijon, Spain.
- Invited lecture. Daly, K. Marine Zooplankton Metabolism: Implications for High Latitude Biogeochemical Stoichiometry, 13 November, Department of Biology, University of South Florida.
- 2002 Daly. K.L. Overwintering strategies of Antarctic Krill, Ocean Sciences Meeting, February, Honolulu, Hawaii.
- Gallager, S., K. Daly, K. Fisher, G.L. Lawson, C.S. Davis, C.J. Ashjian, and P.H.

- Wiebe. Seasonal changes in the association of larval krill with its potential microplankton food resources along the Western Antarctic Peninsula, Ocean Sciences Meeting, February, Honolulu, Hawaii.
- Scolardi, K., K.L. Daly, and S.M. Gallager. Ctenophore predation on larval *Euphausia superba* during winter along the Western Antarctic Peninsula, Ocean Sciences Meeting, February, Honolulu, Hawaii.
- Donnelly, J., J.J. Torres, K.L. Daly. SO GLOBEC meets APIS: The character of the midwater fish faunas of the eastern Ross Sea and the western Antarctic Peninsula Shelf, Ocean Sciences Meeting, February, Honolulu, Hawaii.
- Daly, K.L. Southern Ocean Larval Krill Growth and Recruitment: An Interannual Comparison Under Varying Environmental Conditions. International GLOBEC Open Science Meeting, Qingdao, China, 15-18 October 2002.
- Invited lecture. Daly, K. The Role of Zooplankton in Biogeochemical Cycles and Ecosystem Dynamics, October 10, US GLOBEC Science Steering Committee.
- 2001 Daly, K.L., S. Samson, T. Hopkins, A. Remsen, T. Sutton, and L. Langebrake. Sensor Technology for Zooplankton Assessment. International Workshop on Autonomous Measurements of Biogeochemical Parameters in the Ocean, 20-22 February, 2001, Honolulu, HI. Co-conveners: K. Harada and T. Dickey.
- Schneider, J., L.B. Quetin, R.M. Ross, K.L. Daly. Use of aggregation characteristics to identify dominant Antarctic euphausiids. ASLO Aquatic Sciences Meeting, January, Albuquerque, New Mexico.
- 2000 Invited lecture. Daly, K. Large- and Mesoscale Changes in Processes Influencing Carbon Flux in the Southern Ocean, April 18, College of Marine Studies, University of Delaware.
- 1999 Daly, K.L., E.E. Hofmann, W.R. Fraser, C.A. Ribic, D.G. Ainley, T.L. Hopkins, and J.J. Torres. Direct and indirect effects of predator-prey interactions: Coupling field observation and a spatially-dependent model. Invited talk; ASLO Aquatic Sciences Meeting, 1-5 Feb., Santa Fe, New Mexico.
- Invited lecture. Daly, K. Water-Column Biological Carbon Processes in the Southern Ocean, Polar Marine Science, Gordon Conference, March 7-12, Ventura, CA.
- Invited lecture. Daly, K. Physical and Biological Controls of Carbon Flux in the Antarctic Circumpolar Current, September, Center for Coastal Physical Oceanography, Old Dominion University, Norfolk, VA.
- 1998 Daly, K.L., W.O. Smith, Jr., G.R. DiTullio, D.R. Jones, C.W. Mordy, G.C. Johnson, and R.A. Feely. Distribution of biogenic material, nutrients, and pCO₂ in the Pacific sector of the Southern Ocean: Subantarctic and Polar Frontal Zones. AGU/ASLO meeting, Feb. 1997, San Diego. Abstr. EOS 79: 181.
- Jones, D.R., G. R. DiTullio, K.L. Daly, W.O. Smith, Jr., and M.E. Geesey. Latitudinal variability of picoplankton populations in the South Pacific Ocean. AGU/ASLO meeting, Feb. 1997, San Diego. Abstr. EOS 79: 10.
- Daly, K.L., C.A. Ribic, W.R. Fraser, E.E. Hofmann, D.G. Ainley, T.L. Hopkins, and J.J. Torres. Predation mortality of Antarctic krill in the Scotia-Weddell marginal ice zone. SCAR VII International Biology Symposium, 31 Aug. - 4 Sept., Christchurch, New Zealand, Abstr. New Zealand Natural Sciences 23 Supplement: 44.
- Invited lecture. Daly, K. Going to Extremes: Life Under Ice-Covered Seas, August, Dauphin Island Marine Laboratory, Alabama.
- Invited lecture. Daly, K. Predation Mortality of Antarctic Krill, *Euphausia superba*, in the Scotia-Weddell Marginal Ice Zone Ecosystem", October, Chesapeake Bay Laboratory, Maryland.
- 1997 Daly, K.L. Grazer Mediation of Biogeochemical Fluxes in Polar Regions: Arctic Studies (poster), Biological Processes Associated with Sea Ice Gordon Conference, March, Ventura, CA

- Invited lecture. Daly, K. Anomalous Carbon and Nitrogen Cycling in an Arctic Shelf Ecosystem, March, University of South Florida, Department of Marine Sciences.
- Invited lecture, Anomalous Carbon and Nitrogen Cycling in an Arctic Shelf Ecosystem, March, Florida State University, Department of Oceanography.
- 1996 Daly, K.L., W.O. Smith, Jr., D. Wallace, A. Skoog, R. Lara and P. Yager. Non- Redfield carbon and nitrogen cycling in an Arctic shelf system. AGU/ASLO meeting, Feb. 1996, San Diego. Abstr. EOS
- Invited lecture. Daly, K. Polar Marine Systems and Global Climate: A Marine Biology Perspective, November, University of Tennessee, Department of Ecology.
- 1995 Daly, K.L. Flux of particulate matter through copepods in the Northeast Water Polynya. Northeast Water Polynya Symposium, May 1-5, Helsingør, Denmark.
- Daly, K.L. and G. R. DiTullio. Particulate dimethylsulfoniopropionate removal and dimethylsulfide production by zooplankton in the Southern Ocean. First International Symposium on DMSP and Related Sulfonium Compounds, Jun.5-7, Mobile, AL.
- 1994 Daly, K.L. and G.R. DiTullio. Origins of DMS in the Antarctic: Krill grazing. AGU/ASLO meeting, Feb. 21-25, San Diego. Abstr. EOS 73: 139.
- 1992 Daly, K.L., G. Bradshaw, and D. Grunbaum. Physical and biological processes that influence the spatial patchiness of Antarctic krill. ASLO, Feb. 9-14, Santa Fe.
- 1990 Macaulay, M.C., K. Daly and B. Frost. Patterns of zooplankton and micronekton distribution in relation to a whale feeding site during SCOPEX 1987-1988. AGU/ASLO meeting, Feb. 12-16, New Orleans. Abstr. EOS 71: 68.
- Daly, K.L. and M.C. Macaulay. Abundance, distribution and behavior of *Euphausia superba* in the Antarctic marginal ice zone. Symposium on Polar Marine Ecology, 12-16 May, Trondheim, Norway.
- 1989 Daly, K. Overwintering development, growth and feeding of larval *Euphausia superba* in the Antarctic marginal ice zone. The Oceanography Society Inaugural Meeting, 27-30 August, Monterey, CA.
- Invited lecture. Daly, K. Seasonal Distribution and Behavior of Krill (*Euphausia superba*) in the Antarctic Marginal Ice Zone, October, University of Washington, School of Oceanography.
- 1988 Daly, K.L., M.C. Macaulay and B. Frost. Distribution and abundance of *Euphausia superba* in relation to the Antarctic ice edge. AGU/ASLO, 18-22 January, New Orleans. Abstr. EOS: 68: 1709.
- Ainley, D.G., W.R. Fraser and K.L. Daly. Effect of pack ice on the composition of micronektonic communities in the Weddell Sea. AGU/ASLO, Jan. 18-22, New Orleans. Abstr. EOS 68: 1709.
- 1986 Daly, K.L., M.C. Macaulay and B.W. Frost. Distribution and abundance of krill (*Euphausia superba*) in relation to an Antarctic ice edge. AGU/ASLO, 8-12 December, San Francisco. Abstr. EOS 67: 971.

EXTRAMURAL FUNDING

Pending

NMFS/Sea Grant: NMFS SEAMAP Sample Analyses: NMFS population Dynamics Sea Grant Graduate Fellowship, PI: K. Daly, \$38,500, 6/1/2012-5/31/2014. (pending)

Active Grants and Contracts

- GRI/BP: Center for Integrated Modeling and Analysis of the Gulf Ecosystem (C-IMAGE). PI: S. Murawski + 23 co-PIs. Total budget \$11,002,000; Daly budget \$712,664, 1/1/2012-12/31/2015.
- UW (subcontract): Ocean Observatories Initiative Regional Scale Nodes Project Scientist. PI: K. Daly, NSF, \$38,204, 5/1/12-8/31/12.
- BP/FIO: Baseline for Impact Assessment of Zooplankton and Imaging Oil Droplet Detection on the West Florida Shelf. PIs: K. Daly, D. Goldgof, L. Hall, R. Kasturi (USF) and J. Cohen (Eckerd), \$291,241, 8/13/10-8/12/12.
- NSF: Collaborative: Benthic-pelagic coupling in an intact ecosystem: The role of top predators in McMurdo Sound. PI. K. Daly, \$322,411, 6/1/2011-11/1/2015.
- NSF: EAGER: Discovery of viruses infecting marine Copepoda. PIs M. Breitbart, K. Daly, I. Hewson. \$298,528, 9/1/10-8/30/2012.
- NSF: GLOBEC Pan-Regional Synthesis: End-to-end energy budgets in US GLOBEC regions. PI: K. Daly, \$157,969 (total proposal \$1.75M 22 PIs) 9/1/08-8/31/11.

Projects completed

- ONR: Mobile, Autonomous and Remote Controlled Observation Node (MARCON) For Ecosystems Adaptive Sampling and Persistent Observations. PIs D. Fries & K. Daly \$33,978, 6/1/10-5/31/11.
- ONR: Development and Evaluation of High Resolution Ocean Imaging Systems. PIs: K. Daly and G. Gonzalez, \$145,208, 5/1/10-4/30/12.
- UW (subcontract): Ocean Observatories Initiative Regional Scale Nodes Project Scientist. PI: K. Daly, NSF, \$38,567, 5/1/11-8/31/11.
- USF Research Foundation grant: Impact Assessment of the BP Oil Spill on Florida's Marine Ecosystem PI: K. Daly, \$500,000, 6/10 – 7/11. Funded two rapid response cruises during July and August 2010 to the west Florida shelf and the northern Gulf of Mexico. CMS internal website set up for all data related to the GOM oil spill.
- UW (subcontract): Ocean Observatories Initiative Regional Scale Nodes Project Scientist, NSF, \$38,567, 3/1/10-8/31/10.
- NSF: Zooplankton in the redoxcline of the Cariaco Basin: Impact on biogeochemical cycling. PI: K. Daly, \$339,204, OCE0526545, 8/1/06-7/31/09. (chief scientist of 17 PI project, totaling >\$2.75M)
- USF: SIPPER modifications for use on ocean observatories – A proof-of-concept. PI: K. Daly, \$111,000, 6/1/07-5/31/08.
- NSF: Symposium on multi-disciplinary sensors and systems for autonomous observations of the global ocean (OceanSensors08). PI: K. Daly, \$12,000, OCE0814337, 2/1/08-1/31/09.
- NSF: Project office to coordinate ocean observing activities. PI; K. Daly, \$4,150,000, OCE-0629308, 3/1/06-2/28/07.
- USGS: Plankton, fronts, and hotspots: The road to fish models. PI: K. Daly, \$35,000, 5/1/05-4/30/06.
- USGS: Retrospective Zooplankton Analysis for the Tampa Bay Integrated Science Study. PI: K. Daly, \$6,060, 05-2090-6004, 1/25/05.
- NSF: Southern Ocean GLOBEC, PI: K. Daly, \$300,000, OPP-9910610/OPP-0196489, 10/1/2000-8/31/2004.
- NSF: Antarctic Pack Ice Seals (APIS): Ecological Interactions with Prey and the Environment, \$77,417 (my portion), 3/1/1999 – 2/28/2003.
- NSF: IPA Assignment, \$236,683, 3/21/97 – 1/31/01.
- NOAA: Antarctic marine living resources prey studies: AMLR Program, \$80,174, 12/1/91-9/30/92, (w/ M. Macaulay and B. Frost).
- NOAA: Antarctic marine living resources prey studies: AMLR Program, \$80,174, 12/1/90-9/30/91, (w/ M. Macaulay and B. Frost).

NOAA: Antarctic marine living resources prey studies, \$80,174, 12/1/89-9/30/90, (w/ M. Macaulay and B. Frost).
NSF: Acoustic investigations of copepods and micronekton in the Great South Channel: SCOPEX Program, \$126,391, 11/87-1/90, (w/ M. Macaulay and B. Frost).
NSF: Acoustic characterization and quantitative estimation of the distribution of micronekton and nekton at the Antarctic ice edge, \$398,682, 8/85-1/90, (w/ M. Macaulay and B. Frost).
NSF: Biology, physics and chemistry of large patches of krill (*Euphausia superba*), \$98,840, 6/83 – 12/85, (w/ M. Macaulay and O. Mathisen).
NOAA. National Marine Fisheries Service, Auke Bay, Hydroacoustic analyses of zooplankton/fish communities, \$50,000, 1982 - 1983.
NSF. Undergraduate Research Grant, University of Washington, \$4,000, 1971-1972.

RESEARCH FIELD EXPERIENCE

More than 8 years accumulated sea time.

Ships: RV *Hoh*, NOAA *Oceanographer*, NOAA *Surveyor*, NOAA *Discoverer*, NOAA *Miller Freeman*, USCG *Westwind*, USCG *Glacier*, USCG *Polar Star*, USCG *Polar Sea*, RV *Polar Duke*, RV *Polarstern*, RV *Melville*, RV *Acona*, the *Pierce*, RV *Endeavor*, RVIB *NB Palmer*, RV *LM Gould*, RV *Seward Johnson*, RV *Knorr*, R/V *Thompson*.

Geographic regions: Puget Sound; Columbia River; NE Pacific; Central-equatorial Pacific; Alaska: Gulf of Alaska, Southeast Alaska, Prince William Sound, Cook Inlet, Bering Sea, Chukchi Sea, Beaufort Sea; Greenland Sea; Gulf of Mexico; Gulf of Maine; Antarctica: Drake Passage, Scotia Sea, Weddell Sea, Antarctic Peninsula; Ross Sea; western and eastern tropical north Pacific Ocean.

Participation in Major Research Programs

DOMES: Deep Ocean Mining Environmental Studies
OCSEAP: Outer Continental Shelf Environmental Assessment Program (Chief Scientist)
IXTOC-1 NOAA Emergency Response Team: Ecological assessment of the effects of oil from the IXTOC-1 oil rig blow out
CREDDP: Columbia River Estuary Data Development Program (Chief Scientist)
BIOMASS: FIBEX - First International Biomass Experiment, (International)
SIBEX - Second International Biomass Experiment, (International)
AMERIEZ: Antarctic Marine Ecosystem Research at the Ice Edge Zone
SCOPEX: South Channel Ocean Productivity Experiment
AMLR: Antarctic Marine Living Resources
NEW Polynya: Northeast Water Polynya (International)
WOCE/JGOFS (NOAA) (International)
APIS: Antarctic Pack Ice Seals (International)
GLOBEC: Southern Ocean Global Ecosystem Dynamics (International)
Eastern Tropical Pacific Project (Chief Scientist: 17 PIs)
Gulf of Mexico Research Initiative: Deepwater Horizon oil spill response

ACADEMIC ACTIVITIES

Graduate courses developed and taught at USF

Physical-Biological Interactions in Marine Systems
Marine Ecosystem Dynamics (required for the Marine Resource Assessment program)
Zooplankton Ecology
Stable Isotopes and Lipid Biomarkers in Marine System Studies

Ecological Stoichiometry
Foundations in Biological and Fisheries Oceanography
Ecology of Permanently Low Oxygen Regions in the Ocean
Lectures for Biological Oceanography (lectures & lab), Introduction to Statistics for Marine Science, Oceanography (undergraduate), Marine Biology (undergraduate).

Graduate and Undergraduate Advising

Students: Committee Chair:

- Kerri Scolardi (M.S. 2004). Distribution, Metabolism and Trophic Ecology of the Antarctic Cydippid Ctenophore, *Callianira antarctica*, West of the Antarctic Peninsula
2002 American Academy of Underwater Sciences Master's student scholarship.
Works at Mote Marine Laboratory on the Manatee Research Program.
- Katie Rathmell (M.S. 2007). The Influence of the Loop Current on the Diversity, Abundance and Distribution of Zooplankton in the Gulf of Mexico. Works for Dr. Antonio Baptista at the Oregon Health & Science University as a member of the Astoria field team where she designs, builds, and maintains an ocean observatory comprised of 18 stations in the Columbia River and two ocean buoys. She is also the pilot of a Slocum 200 meter glider named Phoebe that operates off the Oregon and Washington coasts.
- Adam Spear (M.S. 2009). The Characterization and Interpretation of the Spectral Properties of *Karenia brevis* through Multiwavelength Spectroscopy (co-chair with Dr. Luis Garcia-Rubio). Works for Dr. Jeff Napp at the NOAA/NMFS Alaska Fisheries Science Center in Seattle.
- Kelly Kowal (M.S. 2010). The Life History of the Snowy Grouper, *Epinephelus niveatus*, in the Gulf of Mexico. Works as a fisheries survey coordinator at FWRI.
- Marina Marrari (Ph.D. 2008). Characterization of the Western Antarctic Peninsula Ecosystem: Environmental Controls on the Zooplankton Community.
2002-2004: Fulbright Fellowship
2002: Latin America and Caribbean Studies grant
2003: Best Student Oral Presentation, Third Zooplankton Production Symposium, Gijón, Spain.
2004: Seaspace Foundation Fellowship
2004: Riggs Fellowship CMS/USF
2005: Parrott Head Award CMS/USF
2009: NASA Program Postdoctoral Fellowship
Returned to Argentina to fulfill Fulbright obligation.
- Christine Cass (Ph.D. 2010). A Comparative Study of Eucalanoid Copepods Residing in Different Oxygen Environments in the Eastern Tropical Pacific: An Emphasis on Physiology and Biochemistry.
2009: Outstanding Student Poster award, ASLO meeting, Nice, France, for poster entitled "Using Metabolic Parameters to Assess Copepod Tolerance to Low-Oxygen Environments in the Eastern Tropical Pacific".
2009: USF Graduate Student Achievement Award
2008: USF Graduate Student Achievement Award
2005: USF Presidential Fellowship
2005: Von Rosenstiel Fellowship CMS/USF
Now an Assistant Professor at Humboldt State University.
- Leslie Schwierzke-Wade (M.S. 2011) Assessment of Fertility Potential in Bottlenose Dolphins (*Tursiops truncatus*): Application of ELISA-Based Biomarker Analysis. (Co-advisor with E. Van Vleet)
2010: John and Katharine Ann Lake Memorial Fellowship. Now manages Daly's GOM field research program.
- Claire Crowley (M.S. 2012) Aging Blue Crabs through the Biochemical Extraction of the Lipofuscin Aging Compound. Works for Ryan Gandy in FWR on (the Crustacean Research Program).

Sky Williams (Ph.D.) started Fall 2010; awarded Graduate Student Success Diversity Fellowship;
proposed thesis title: Determining the Low-Salinity Origin of Migrating Female Atlantic Blue Crabs,
Callinectes sapidus, in Tampa Bay via Stable Isotope and Trace Metal Signatures.

Timothy Seung-chul Lee (Ph.D.) start Fall 2012; first year student. 2012-13, Peter Betzer Fellowship

Ed Hughes (Ph.D.) start Fall 2012, co-advisor with Dr. David Naar

Claire Crowley (Ph.D.) start Fall 2013

Matt Garrett (M.S) start Summer 2013

Committee member: Tracey Sutton (Ph.D. 2001), Shannon Williamson-Smith (Ph.D. 2003), Dana Gaydos (M.S. 2006), Amy Long (M.S. 2005), Michael Callahan (M.S. 2004), Yulia Serebrennikova (Ph.D. 2005); Hussain Al-Hitari (Ph.D. 2009); Michael Drexler (M.S. 2010), Amy Wallace (M.S. 2011), Christy Stephenson (M.S. 2011), Katie Wirt (M.S. 2011), Maria Andrea Pinones (Ph.D. 2011, ODU), Darren Dunlap (M.S. 2012), Melanie Parker (Ph.D. 2012), Katie Wirt (Ph.D.), Heidi Toomey (M.S.), Lucy Sprung (M.S.), Adrienne George (Ph.D.), Mary Abercrombie (Ph.D.), Michelle Guitard (M.S.).

Interns: Emily Yam (Antarctic cruises 2001, undergraduate student), Mari Butler (Antarctic cruise 2001), Kelley Vashbinder (summer 2010; high school student), Lauryan Dowse (summer 2011, M.S. student; Montpellier Polytechnical Institute, France)

Minority Mentoring Program, University of Tennessee, 1995.

Postdoctoral Fellows: Brady Olson (2006-2009) [now Instructor at Shannon Point Marine Center, Western Washington State University], Marina Marrari (2008-2009) [Assistant Researcher in Oceanography (Dr. Alberto Piola) in Buenos Aires, Argentina, works with researchers from the Fisheries Agency doing satellite remote sensing research], Andrew Remsen (2010-2011), Maya Robert (2010-2012), Heather Broadbent (2012-), Benjamin Saenz (2012-)

PROFESSIONAL SERVICE

College of Marine Science, USF Committees

| | |
|----------------|--|
| 2012 – present | Marine Resource Assessment Advisory Committee |
| 2011 - 2012 | Phytoplankton Search Committee |
| 2011 | COT Faculty Advisory Committee |
| 2010 | Phytoplankton Search Committee |
| 2009 | Sackett Prize Committee |
| 2008 | Weatherbird Science Mission Needs Committee |
| 2007 - present | Chair, Space Committee |
| 2007 - present | Tenure and Promotion Committee |
| 2007 - 2010 | Eminent Scholar Series Committee |
| 2009 - 2010 | Ocean Engineering Degree program |
| 2008 - 2010 | COT Faculty Advisory Committee |
| 2008 - 2009 | Graduate Student Symposium |
| 2008 | Physical Oceanography Search Committee |
| 2004 | Sackett Prize Committee |
| 2004 | Endowed Visiting Research Associate Committee |
| 2003 - 2004 | Evaluation Oversight <i>ad hoc</i> Committee |
| 2003 - 2004 | Education and Outreach <i>ad hoc</i> Committee |
| 2003 - 2006 | C.W. Bill Young Fellowship Committee |
| 2003 – 2004 | Annual Faculty Review Committee |
| 2003 - 2004 | Fiscal Policy Committee |

2002 - 2006 Graduate Student Recruitment Committee
 2002 - 2004 Biology Faculty Recruitment Committee
 2002 - 2005 Mentor, GK-12 Graduate Fellowships Program
 2002 Eminent Scholar Series Committee
 2002 - 2006 Honors and Awards Committee
 2002 - 2003 Sea Pay *ad hoc* Committee

University of South Florida Committees

2012 – 2013 Faculty Senate: Travel Committee
 2008 – present Faculty Senate
 2008 – present Faculty Senate: Committee on Committees
 2002 - 2004 USF Graduate Council
 2002 - 2004 USF Policy Subcommittee; Graduate Council

National and International Committees

2013 - 2022 Member, Regional Class Research Vessel Science Oversight Committee (NSF)
 2012 - 2013 Member, Organizing committee for *Gulf of Mexico Coastal Carbon Synthesis Workshop*, March 27-28, 2013, St. Petersburg, FL.
 2013 Co-Chair, *OCB Summer Workshop*, Southern Ocean session, July 22-25, 2013, Woods Hole.
 2012 - 2013 Member organizing committee, *Ocean Acidification PI meeting*, Sept. 18-20, 2013, Washington, DC.
 2011 - 2014 Member, International Science Advisory Board (ISAB) for Ocean Networks Canada (ONC), organization responsible for the governance and management of the NEPTUNE Canada and VENUS cabled ocean networks
 2012 Member, Critical Design Review Team for NEPTUNE Profiling Mooring; 25 April, Seattle, WA
 2011 - 2013 Chair, U.S. Ocean Carbon and Biogeochemistry Scientific Steering Committee
 2010 - 2011 Vice-chair, U.S. Ocean Carbon and Biogeochemistry Scientific Steering Committee
 2010 - 2013 Member, U.S. Carbon Cycle Scientific Steering Group (reports to DC Carbon Cycle Interagency Working Group and US Global Change Research Program)
 2010 - 2011 Member organizing committee, Ocean Carbon and Biogeochemistry (OCB) Scoping Workshop on a Biogeochemical Flux Program Aligned with the Ocean Observatories Initiative, May 23-25, Woods Hole.
 2009 - 2013 Member, U.S. Ocean Carbon and Biogeochemistry Scientific Steering Committee (NSF funded program); Incoming Chair Jan. 2012.
 2009 - Member, Ocean Iron Fertilization OCB Subcommittee
 2009 - 2012 Member, National Center for Ecological Analysis and Synthesis (NCEAS) Working Group on Indicators for Ecosystem Health
 2009 - Member, Comparative Analysis of Marine Ecosystems Organization (CAMEO) Scientific Steering Committee (NSF-NOAA funded program)
 2008 - 2009 Member Organizing Committee, Ocean Observatories Sensor Workshop, 12-13 March 2009, Portland, OR.
 2007 - 2008 Member, Organizing Committee, International Ocean Sensors 2008 Conference, Warnemünde, Germany, 30 March -4 April, 2008.
 2007 Chair, Organizing Committee for *Profiling Mooring Workshop for the Ocean Observatories Initiative* Workshop, 10-12 July 2007, Denver, CO.
 2007 Chair, Ocean Observatories Initiative Science User Requirements Assessment
 2007 Member, Organizing Committee for *Second US GLOBEC Pan-Regional Synthesis Workshop*, 25-28 September, Seattle, WA.

- 2006 Chair Organizing Committee. *Ocean Observatories Initiative Design and Implementation Workshop* (~300 attendees), 27-30 March 2006, Salt Lake City, UT.
- 2006 - 2007 Chair, Organizing Committee for *Dissolved Oxygen Probes: Making Oxygen Measurements Routine Like Temperature*. ACT/ORION Workshop. 4-6 January 2007, St. Petersburg, FL.
- 2006 – 2007 Member, Science and Technology Center for Coastal Margin Observation and Prediction, External Advisory Board 2006-2007.
- 2006 – 2007 Member, CLEANER (Collaborative Large-Scale Engineering Analysis Network for Environmental Research) Advisory Board 2006-2007.
- 2004 - 2008 Member, U.S. National GLOBEC Executive Steering Committee
- 2004 - 2006 Member, ORION Executive Steering Committee; senior advisory committee, which advises the ORION Project Office and NSF on all matters related to the NSF/OCE Ocean Observatory Initiative (OOI)
- 2004 - 2006 Chair, ORION Sensor Technology Subcommittee
- 2003 - 2004 Member, Steering Committee for *Ocean Research Interactive Observatory Networks (ORION) Workshop* (~ 300 attendees), San Juan, Puerto Rico, January 2004
- 2002 - 2008 Member, U.S. National Global Ocean Ecosystem Dynamics (GLOBEC) Science Steering Committee
- 2002 Member, Organizing Committee for *Coastal Ocean Processes and Observatories: Advancing Coastal Research* Workshop, May 2002
- 2002 Member, Advisory panel for the replacement of the RVIB *N.B. Palmer*, June 2002 (Office Polar Programs, NSF)
- 2002 - 2004 Member, Dynamics of Earth and Oceans Systems (DEOS) Committee; advisory committee to the NSF on planning a Major Research Equipment and Facilities Construction (MREFC) project termed the Ocean Observatory Initiative (OOI)

Other Activities:

Reviewed research proposals and participated on review panels: National Science Foundation, NSF/LTER site review, NOAA/National Undersea Research Program, NOAA/Coastal Ocean Program, NOAA/National Marine Fisheries Service, Office of Naval Research, National Environmental Research Council (NERC, UK), Maryland Sea Grant.

Reviewed research articles for Deep-Sea Research, Limnology and Oceanography, Journal of Geophysical Research (Oceans), Polar Biology, Antarctic Science, Antarctic Research Series, Aquatic Microbial Ecology, Marine Ecology Progress Series, ICES Journal of Marine Science, Journal of Marine Systems, Progress in Oceanography, Science (Wash.), Nature Climate Change, ICES Journal of Marine Science, Marine Chemistry.

Book review for CRC Press.

2007 Completed Project Management Applications course, George Washington University

2001 Developed a website on sensor technology, “Ocean Sensor Gateway”, URL <http://sensors.marine.usf.edu>.

Invited Workshops/Session or Workshop Convener/Education/Outreach

2013 Interviewed for Gulf of Mexico podcast, David Levin.

2012 Chair, *Southern Ocean*, Ocean Carbon and Biogeochemistry Summer Workshop, July

2012 Daly, K.L. and H.M. Benway. Ocean Carbon and Biogeochemistry: Building a community from the bottom up. AAAS, Feb. 20112, Vancouver, BC.

Invited speaker, Ocean Policy and Management Workshop, Feb. 19. Ocean Sciences Meeting, Salt Lake City.

- Interviewed for article by Maggie Dannreuther (June 2012). “C-IMAGE At Sea: Monitoring Impacts and Mentoring Students for Long-Term Gulf Oil Studies”.
- Interviewed for article by Maggie Dannreuther (April 2012). “Research at Sea – Studying Oil Impacts on Food Web in Florida Waters”. Communications team for the Gulf of Mexico Research Initiative (GOMRI) wrote a short article highlighting my research cruise supported with BP funds, posted to the GoMRI website.
- Interviewed for article: Barone, J. “Once We Wire It Up, What Will The Ocean Tell Us?” Discoverer Magazine, June 25, 2012.
- 2011 Arranged for Alexa Elliott (Producer/writer WPBT Channel 2 “Changing Seas” program) and Jeremy Nicholson (photographer) to participate and film on my Gulf of Mexico oil response cruise. Documentary released June 28. Participated in screening and live chat event.
- Interviews on Deepwater Horizon Oil Spill: Carson Chambers (ABC)
- 2010 Convener, Oxygen Minimum Zones and Climate Change: Observations and Prediction. Ocean Sciences, 22-26 Feb., Portland, OR.
- Session Chair, Low Oxygen Regions, OCB Summer Workshop, 19-22 July, San Diego, CA.
- Invited talk: Daly, K.L. Reflections on the Gulf Oil Spill: The Long and Short of It! The Athena Society, October 7, Tampa, FL (attended by Congresswoman Kathy Castor)
- Invited talk: Daly, K.L. The Gulf Oil Spill. U.S. Coast Guard Auxiliary Meeting, October 7, St. Petersburg, FL.
- Interviews on Deepwater Horizon Oil Spill: Ari Daniel Shapiro (producer) for “Slick of Oil” COSEE-NOW Podcast July 28; <http://coseenow.net/podcast/category/ocean-gazing-podcast>;
- Jim Lebens (producer Quirks & Quarks, Canada's CBC radio network <http://www.podcastdirectory.com/podshows/8785232>) Aug. 26, National Geographic documentary “Can the Gulf Survive” Sept. 23;
- Carson Chambers (ABC); local TV stations, Miami Herald, St. Petersburg Times, etc.
- 2009 Chair, Southern Ocean session, Ocean Carbon and Biogeochemistry Summer Workshop, July
- Co-convener, Oxygen Minimum Zones: Structure, Processes, and Climate Change, ASLO Meeting, 25-30 January, Nice, France.
- 2008 OceanSensors08 Conference, 31 March-4 April, Warnemunde, Germany.
- Invited participant, ICED *Southern Ocean Food Web Modelling Workshop*, 16-18 April, Norfolk, VA.
- Session chair: Marine Polar Ecosystems, SCAR Biennial Meeting, 8-11 July, St. Petersburg, Russia.
- Invited participant, Southern Ocean GLOBEC Physical Circulation Workshop, October, Norfolk, VA.
- 2007 Contributor: outreach blog for Eastern Tropical Pacific research cruise, <http://www.etpcruise.blogspot.com/>
- Interviewed for St. Petersburg Times article, *Seas of Knowledge Await USF Scientist*, by Curtis Krueger, February.
- Interviewed for USF Magazine article, *Under the Sea*, by Ann Carney, Spring/Summer issue.
- Interviewed for Biophotonics article, *Connecting the Ocean to the Web*, by Michael Lander, June.
- 2006 Interviewed for Oceanus article, *Scientists Gear Up to Launch Ocean Observing Networks*, by Mike Carlowicz, July.
- Invited participant. *Alternative Sampling Platforms in the Antarctic Workshop*. 2-3 August, Washington, DC
- Convener of special session: *Ocean Sensor Networks and Cyberinfrastructure, Communication*, Ocean Sciences Meeting, 20-24 February, Honolulu, Hawaii.
- 2005 Invited discussion leader for *Cetacean-Ecosystem Linkages Workshop*, 2-4 November, Norfolk, VA.

- 2004 Session chair: *Understanding the Physical and Biological Coupling of Marine Population Dynamics*, AGU meeting, Jan. 2004, Portland.
 Interviewed for Science article, *Marine Geologist Hopes to Hear the Heartbeat of the Planet*, by David Malakoff on the NSF Ocean Observatories Initiative, February v303.
- 2003 Interviewed for Marine Scientist article, *NEPTUNE: A New Way of Monitoring the Oceans 24/7*, by Kristen M. Kusek, spring issue.
- 2002 Session chair: *Physics and Biology of Antarctic Continental Shelf Waters III*, Ocean Science Meeting, Feb. 2002, Honolulu.
 Interviewed for Orlando Sentinel article, *Florida School Sending Researchers into Antarctica*, by Kevin Spear on Antarctic research, April.
- 2001 Invited Discussion Leader, Gordon Research Conference on Field Analyses and Numerical Modeling of Coupled Physical, Chemical and Biological Systems, 11-16 March 2001, Ventura, CA.
 Invited contribution for Antarctic science exhibit at the Museum of Science and Industry, Tampa, FL to complement an IMAX film on Ernst Shackleton.
- 2000 Science Judge, National Ocean Sciences Bowl, final competition, April 2000, Washington, D.C.
 Convener of Workshop and Special Session: *Sensor Technology for Remote Interactive Experiments in Aquatic Environments*, ASLO meeting, June 2000, Copenhagen.
 Invited Moderator for Sensor Technology Panel *RIDGE Theoretical Institute: The Subsurface Biosphere at Mid-Ocean Ridges*, August 2000, Big Sky, Montana.
- 1999 *Marine Zooplankton Symposium II*, February 1999, Savannah, GA.
Large-Scale Variability in the Southern Ocean – Patterns, Mechanisms and Impacts, August, British Antarctic Survey, Cambridge, UK.
 Outreach activity on Antarctic cruise with students in an adult education class at Linn-Benton Community College in Albany, Oregon.
- 1998 Co-convenor: *Biogeochemical Cycles in the Southern Ocean*; AGU/ASLO meeting, Feb. 1998, San Diego.
 Committee to evaluate student posters, AGU/ASLO meeting, Feb. 1998, San Diego.
 Science Judge, National Ocean Sciences Bowl, final competition, April 1998, Washington, D.C.
- 1995 *Biological Initiative in the Arctic: Shelf-Basin Interactions*, March 1995, Townsend, TN. ARCSS/OAII, NSF.
- 1991 *Patch Dynamics in Terrestrial, Marine, and Freshwater Ecosystems*, Invitation short course, 23 June -19 July 1991, Cornell University. Organizers: S. Levin. T. Powell, J. Steele; National Science Foundation.
 Invited participant for *EPA Research Planning Workshop on Biomonitoring in the Antarctic*, 30-31 July 1991, Arlington, VA.