

## CURRICULUM VITAE

### KENDRA LEE DALY

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<http://www.marine.usf.edu/zooplankton/>

### 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

1999 Invited plenary lecture, Gordon Research Conference on *Polar Marine Science*,  
“Water-Column Biological Carbon Processes in the Southern Ocean”

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

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** (revision submitted)

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** (revision submitted)

Rathmel, K. and K.L. Daly. The influence of the Loop Current on the Diversity, Abundance, and Distribution of Zooplankton in the Gulf of Mexico. **Gulf of Mexico Science** (submitted; being revised).

Ballerini, T., E.E. Hofmann, K.L. Daly, D. Ainley, C. Ribic, J. Steele, and W.O. Smith, Jr. An end-to-end food web model for the marine ecosystem west of the Antarctic Peninsula in the Southern Ocean. *Journal Marine Systems* (submitted).

Olson, M.B. and K.L. Daly. Microzooplankton biomass, composition, and grazing across chlorophyll and oxygen gradients in the northeastern tropical Pacific. In prep.

Cass, C.J. and K.L. Daly. Effects of temperature and oxygen on metabolic parameters for Eucalanoid Copepods of the eastern tropical Pacific. In prep.

Cass, C.J., K.L. Daly, S.G. Wakeham, E.S. Van Vleet. Lipid composition of tropical and subtropical copepod species of the genus *Rhincalanus* (Copepoda: Eucalanidae): A novel fatty acid and alcohol signature. In prep.

Cass, C.J., K.L. Daly, and S.G. Wakeham. Lipid biomarkers of Eucalanoid copepods in the eastern tropical Pacific: Evidence for differential use of wax ester and triacylglycerol storage lipids. In prep.

Kowal, K., K.L. Daly, Cody, R. and R. Muller. The life history of the snowy grouper, *Epinephelus niveatus*, in the Gulf of Mexico (1984-2004). *Fishery Bulletin*. In prep.

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
- 2004 Daly, K.L., R.H. Byrne, A.G. Dickson, S.M. Gallager, 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

- 2008 Daly, K., D. Au, S. Gallagher, and D. Luther. Profiling Mooring Workshop for the Ocean Observatories Initiative, 10-12 July 2007, Denver, CO.  
[http://www.oceanleadership.org/ocean\\_observing](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. Gallagher. 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](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 (last five years)**

- 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, Ei. 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.
- Delaney, J.R., D.S. Kelley, K.L. Daly, D.S. Luther. A Rationale and Approach for Next-Generation Ocean Science (Invited). Ocean Sciences, 22-26 Feb., Portland, OR.
- 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.
- 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.
- 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.
- Marrari, 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, 4<sup>th</sup> 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.
- 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.

## **EXTRAMURAL FUNDING**

### **Pending**

NOAA: ECOHAB: Role of Larvaceans in Controlling the Red Tide Dinoflagellate, *Karenia brevis*. PI: Kendra L. Daly, \$367,330, 7/15/11 – 7/14/14.



## Active Grants and Contracts

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. And 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. Co-PIs M. Breitbart, K. Daly, I. Hewson. \$298,528, 9/1/10-8/30/2012.

ONR: Mobile, Autonomous and Remote Controlled Observation Node (MARCON) For Ecosystems Adaptive Sampling and Persistent Observations. Co-PIs D. Fries & 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, 5/1/10-4/30/11.

UW (subcontract): Ocean Observatories Initiative Regional Scale Nodes Project Scientist, \$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: 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.

## 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*.

Geographic regions: Puget Sound; Columbia River; 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

**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

**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)

## **ACADEMIC ACTIVITIES**

### **Graduate courses developed and taught at USF**

Physical-Biological Interactions in Marine Systems  
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  
Katie Rathmell (M.S. 2007). The Influence of the Loop Current on the Diversity, Abundance and Distribution of Zooplankton in the Gulf of Mexico.  
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)  
Kelly Kowal (M.S. 2010). The Life History of the Snowy Grouper, *Epinephelus niveatus*, in the Gulf of Mexico (1984-2004).  
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: Seaspaces Foundation Fellowship  
2004: Riggs Fellowship CMS/USF  
2005: Parrott Head Award CMS/USF  
2009: NASA Program Postdoctoral Fellowship  
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  
 Leslie Schwierzke-Wade (M.S.) Ecotoxicology of Hormone Loading in Dolphins.(Co-advisor with E. Van Vleet)  
 Claire Crowley (M.S.) Aging Blue Crabs through the Biochemical Extraction of the Lipofuscin Aging Compound.  
 Sky Williams (Ph.D.) First year student.

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.), Melanie Parker (Ph.D.), Amy Wallace (M.S.); Christy Stephenson (M.S.), Darren Dunlap (M.S.), Maria Andrea Pinones (Ph.D., ODU).

**Postdoctoral Fellows:** Brady Olson (2006-2009), Marina Marrari (2008-2009), Mya Roberts (2010-)

## **PROFESSIONAL SERVICE**

### **College of Marine Science, USF Committees**

2010	PI/Chief Scientist, USF: Impact Assessment of the BP Oil Spill on Florida's Marine Ecosystem (\$500,000)
2007 - present	Chair, Space Committee
2007 - present	Tenure and Promotion Committee
2007 - present	Eminent Scholar Series Committee

### **University of South Florida Committees**

2008 – 2011	Faculty Senate
2008 – 2011	Faculty Senate Committee on Committees
2002 - 2004	USF Graduate Council
2002 - 2004	USF Policy Subcommittee; Graduate Council

### **National and International Committees**

2010 - 2012	Vice-chair, U.S. Ocean Carbon and Biogeochemistry Scientific Steering Committee
2009 -	Member, U.S. Ocean Carbon and Biogeochemistry Scientific Steering Committee (NSF funded program)
2009 -	Member, Ocean Iron Fertilization OCB SubCommittee
2009 -	Member, National Center for Ecological Analysis and Synthesis (NCEAS) Working Group on Indicators for Ocean 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, OceanSensors08 Conference, Warnemünde, Germany, 30 March -4 April, 2008.
2007	Chair, Organizing Committee for <i>Profiling Mooring Workshop for the Ocean Observatories Initiative</i> Workshop, 10-12 July 2007, Denver, CO.
2007	Chair, Ocean Observatories Initiative Science User Requirements Assessment

2007	Member, Organizing Committee for <i>Second US GLOBEC Pan-Regional Synthesis Workshop</i> , 25-28 September, Seattle, WA.
2006	Chair Organizing Committee. <i>Ocean Observatories Initiative Design and Implementation Workshop</i> (~300 attendees), 27-30 March 2006, Salt Lake City, UT.
2006 - 2007	Chair, Organizing Committee for <i>Dissolved Oxygen Probes: Making Oxygen Measurements Routine Like Temperature</i> . 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 <i>Ocean Research Interactive Observatory Networks (ORION) Workshop</i> (~ 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 <i>Coastal Ocean Processes and Observatories: Advancing Coastal Research Workshop</i> , May 2002
2002	Member, Advisory panel for the replacement of the RVIB <i>N.B. Palmer</i> , 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)