

CURRICULUM VITAE

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Education

1996 *Ph.D. Physical Oceanography*
Center for Coastal Physical Oceanography, Old Dominion University
1991 *M.S. Biological Oceanography*
Department of Oceanography, Old Dominion University
1989 *B.A. Environmental Sciences*
Department of Environmental Sciences, University of Virginia

Professional History

2012-present *Professor of Oceanography*
Department of Oceanography, University of Hawaii at Manoa
2007-2012 *Associate Professor of Oceanography*
Department of Oceanography, University of Hawaii at Manoa
2003-2007 *Assistant Professor of Oceanography*
Department of Oceanography, University of Hawaii at Manoa
2000- 2003 *Assistant Professor of Ocean Sciences*
Ocean Sciences Department, University of California Santa Cruz
1998-2000 *Assistant Marine Research Scientist*
Graduate School of Oceanography, University of Rhode Island
1996-1998 *Post-doctoral Researcher*
Graduate School of Oceanography, University of Rhode Island

Additional Roles, University of Hawaii at Manoa

2013 - *present* Faculty Member, Marine Biology Graduate Program
2004 - *present* Affiliate Faculty, Hawaii Institute of Marine Biology (HIMB)
2003 - *present* Faculty, Global Environmental Science (GES) Undergraduate Program

RESEARCH & SCHOLARLY ACTIVITIES

Publications

**Please note: students, postdoctoral researchers and McManus Laboratory members are underlined.*

I. Refereed publications in scholarly journals

In Revision

Gove JM, JL Whitney, MA McManus, J Lecky, F Carvalho, JM Lynch, J Li, P Neubauer, K Smith, JE Phipps, DR Kobayashi, KB Balagso, EA Contreras, ME Manuel, MA Merrifield, JJ Polovina, GP Asner, JA Maynard, GJ Williams. **In revision.** Prey-sized plastics are invading larval fish nurseries. *Proceedings of the National Academies of Sciences.*

Menge BA, K Milligan, JE Caselle, J Barth, CA Blanchette, M Carr, F Chan, R Cowen, M Denny, SD Gaines, G Hofmann, K Kroeker, J Lubchenco, MA McManus, M Novak, S Palumbi, P Raimondi, G Somero, R Warner, L Washburn, JW White. **In revision.** PISCO – The Partnership for Interdisciplinary Studies of Coastal Oceans: Advances made through the formation of a large-scale, long-term consortium for integrated understanding of coastal ecosystem dynamics. *Oceanography.*

Published

Bailey K, C Steinberg, C Davies, G Gailbert, M Hidas, MA McManus, T Murphy, J Newton, M Roughan, A Schaeffer. **2019.** Coastal Mooring Observing Networks and their Data Products: Recommendations for the Next Decade. *Frontiers in Marine Science.* 05 April 2019
| <https://doi.org/10.3389/fmars.2019.00180>

Comfort C, G Walker, MA McManus, A Fujimura, CE Ostrander and T Donaldson. **2019.** Physical dynamics at the ocean-estuary interface: an oceanographic study of Pago Bay, Guam. *Regional Studies in Marine Science.* Vol 31. <https://doi.org/10.1016/j.rsma.2019.100740>

Menge B, JE Caselle, JA Barth, F Chan, S Gravem, J Lubchenco, K Milligan, M Novak, JW White, CA Blanchette, L Washburn, M Carr, P Raimondi, MA McManus, TC Gouhier. **2019.** Community Responses to Climate-Related Variability and Disease: The Critical Importance of Long-term Research. *Oceanography.* In press.

Menge B, K Milligan, JE Casselle, JA Barth, F Chan, S Gravem, J Lubchenco, M Novak, JW White, CA Blanchette, L Washburn, M Carr, P Raimondi, MA McManus, TC Gouhier. **2019.** Integrating Coastal Oceanic and Benthic Ecological Approaches for Understanding Large-scale Meta-Ecosystem Dynamics. *Oceanography.* In press.

Moehlenkamp P, CK Beebe, MA McManus, AH Kawelo, K Kotubetey, RA Alegado. **2019.** Kū Kū Hou Kuapā: Cultural Restoration Improves Water Budget and Water Quality Dynamics in He'eia Fishpond. *Journal of Sustainability: Special Issue "New Approaches to Fisheries and Aquaculture Sustainability".* 11, 161; doi:10.3390/su11010161

Stauffer BA, H Bowers, E Buckley, TW Davis, TH Johengen, R Kudela, MA **McManus**, H Purcell, GJ Smith, A VanderWoude, M Tamburri. **2019**. Considerations in Harmful Algal Bloom Research and Monitoring: Perspectives from an Expert Workshop and Technology Testing. Review, *Frontiers in Marine Science - Ocean Observation*. Front. Mar. Sci., 16 July 2019 | <https://doi.org/10.3389/fmars.2019.00399>

Wong-Ala JATK, CM Comfort, JM Gove, MA Hixon, MA **McManus**, BS Powell, JL Whitney, AB Neuheimer. **2018**. How life history characteristics shape settlement success of coral reef fishes. *Frontiers in Marine Science*, Special Issue: The importance of behavior in the recruitment of marine fauna and flora. Eds CB Paris, E Wolanski. 5(65): 1 - 12. doi: 10.3389/fmars

Chan F, JA Barth, CA Blanchette, RH Byrne, F Chavez, OM Cheriton, RA Feely, G Friederich, T Gouhier, B Gaylord, S Hacker, T Hill, G Hofmann, MA **McManus**, BA Menge, KJ Nielsen, A Russell, E Sanford, J Sevadjian and L Washburn. **2017**. The geography of coastal ocean acidification in the California Current System. *Nature Scientific Reports*. 7: 2526 | DOI:10.1038/s41598-017-02777-y. <http://rdcu.be/s764>

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Kroeker KJ, E Sanford, JM Rose, CA Blanchette, F Chan, FP Chavez, GF Dilly, B Gaylord, B Helmuth, TM Hill, GE Hofmann, KM Laughlin, MA **McManus**, BA Menge, KJ Nielsen, PT Raimondi, AD Russell, L Washburn. **2016**. Overlapping environmental mosaics drive geographic variation in mussel performance and species interactions. *Ecology Letters*. doi: 10.1111/ele.12613.

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McManus MA and CB Woodson. **2012**. Review: Plankton distribution and oceanic dispersal. *Journal of Experimental Biology Special Issue: Biophysics, Bioenergetics, and the Mechanistic Approach to Ecology*. Volume 215(6): 1008-1016.

McManus MA, JC Sevadjian, KJ Benoit-Bird, OM Cheriton, AVH Timmerman, CM Waluk. **2012**. Observations of thin layers in coastal Hawaiian waters. *Estuaries and Coasts*. Vol 35(4): 1119-1127.

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- Sullivan JM, **MA McManus**, OM Cheriton, KJ Benoit-Bird, L Goodman, Z Wang, JP Ryan, M Stacey, DV Holliday, C Greenlaw, MA Moline, M McFarland. **2010**. Layered Organization in the Coastal Ocean: An introduction to thin layers and the LOCO project. *Continental Shelf Research. Special Issue: The Ecology and Oceanography of Thin Plankton Layers*. Sullivan JM, MA **McManus** and PL Donaghay (Eds). Vol 30(1): 1-6.
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- Steinbuck JV, MT Stacey, **MA McManus**, OM Cheriton, JP Ryan. **2009**. Observations of turbulent mixing in a phytoplankton thin layer: Implications for formation, maintenance, and breakdown. *Limnology and Oceanography*. 54(4): 1353–1368.
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¹ Prior to 1 June 2002 I published under the name MM Deksheniaks

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II. Comments

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III. Encyclopedia chapter

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V. Published Abstracts

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Fujimura, CM Comfort, GO Walker, MA **McManus**, CE Ostrander and TJ Donaldson. **2019**. Monitoring and Modeling of Pago Bay Guam. AOGS, Singapore

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Bailey K, J Newton, R Morrison, MA **McManus**, U Send. **2018**. Defining coastal ecosystem mooring configurations to improve nationwide ecosystem observing capabilities. AGU Fall Meeting. San Francisco, CA

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Whitney JL, KA Smith, J Lecky, JM Gove, DR Kobayashi, MA McManus. 2018. Surface slicks as biological hotspots in west Hawaii: biophysical interactions, larval behavior and their implications on larval ecology. 2018 Ocean Sciences Meeting. Portland, OR

Whitney JL, KA Smith, J Lecky, JM Gove, J Phipps, DR Kobayashi, A Copeland, MA McManus. 2018. West Hawaii Ichthyoplankton Project: Exploring a Unique Ecosystem and Their Impact on Larval Fish Ecology. Symposium on science in support of archipelagic management.

Wong-Ala J, AB Neuheimer, J Whitney, C Comfort, B Powell, M Hixon, J Gove and MA McManus. 2018. Life history strategies shape larval reef fish recruitment off west Hawai'i Island. In Climate impacts on marine fish, fisheries, and protected species. 2018 Ocean Sciences Meeting. Portland, OR

Comfort CM, MA McManus, CE Ostrander, DM Karl. 2017. Changes in potential environmental impacts of seawater air conditioning under future climate scenarios. 2017 ASLO Meeting, Honolulu, Hawaii.

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Frank K, C Tognacchini, M Branco, **McManus** M, Alegado R. **2015**. Influence of climatic anomalies on microbial community dynamics in He'eia Fishpond. Hawai'i Conservation Conference.

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Williams R, M Redfield, N Fletcher, M George, J Rose, G Frederich, MA **McManus**, PT Raimondi, BA Menge. **2013**. OMEGAS: Investigating the role of ocean acidification in nearshore habitats within the California Current. Monterey Bay National Marine Sanctuary Symposium, April 2013.

Park VL, MA **McManus**, G Walker, C Jerolmon. **2013**. Understanding environmental variability in the coastal waters of Oahu, Hawaii. Tester Symposium. University of Hawaii at Manoa.

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DeCarlo EH, MS Tomlinson, MA **McManus**, E Pawlak, PS Drupp, RE Timmerman, S Jaramillo. **2012**. Built it and they will use it. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

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Invited: Harvey JBJ, JP Ryan, Y Zhang, R Marin III, GJ Doucette, J Bellingham, MA **McManus**, FP Chavez, CA Scholin. **2012**. An interdisciplinary, multi-scale approach to monitoring the development and succession of harmful algal bloom communities in the Monterey Bay. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

Moniz RJ, DA Fong, SG Monismith, CB Woodson, SK Willis, MT Stacey, MA **McManus**. **2012**. Lateral dispersion in the thermocline on the inner shelf of northern Monterey Bay. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

Willis SK, MT Stacey, SG Monismith, DA Fong, MA **McManus**, RJ Moniz. **2012**. Characterization of turbulent mixing on the stratified inner shelf of Monterey Bay. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

Gove JM, GJ Williams, MA **McManus**, S Heron, OJ Vetter, D Foley, SA Sandin. **2012**. Island scale metrics for quantifying environmental forcing and exceedance thresholds on coral reefs. International Coral Reef Symposium (ICRS), Queensland, Australia.

Pawlak G, EH DeCarlo, J Fram, B Glazer, MA **McManus**, F Sansone, T Stanton, J Wells. **2012**. The Kilo Nalu Observatory: Seven Years of Discovery. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

Russell AD, C Blanchette, F Chan, F Chavez, G Friedrich, TM Hill, MA **McManus**, BA Menge, P Ramondi, E Sanford. **2012**. Variability in pH, T, O₂, and Ω , in nearshore waters of the Oregon-California coast and its implications for adaptation of intertidal calcifiers. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

Tomlinson MS, EH DeCarlo, MA **McManus**, G Pawlak, P Drupp, RE Timmerman, S Jaramillo. **2012**. What have we learned from “routine” IOOS monitoring? 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

Invited: **McManus** MA and CB Woodson. **2011**. Plankton distribution and oceanic dispersal. Integrating Biomechanics and Ecology. *Journal of Experimental Biology* Symposium. Cambridge, England.

Invited: **McManus** MA and CB Woodson. **2011**. Climate, currents, and connectivity: The dynamics of larval dispersal. AAAS Special Session “Beyond lines on maps: MSP for a dynamic world”. Washington DC.

Steward GF, B Powell, MA **McManus**, O Nigro, E Wood-Charlson. **2011**. Predicting the abundance of pathogenic Vibrios: A case for time-resolved, mechanistic models. NSF Ocean Sciences Division (OCE) Ecology of Marine Infectious Diseases Workshop. San Juan, Puerto Rico.

Young CW, K Ruttenberg, MA **McManus**. **2011**. Perturbation of tropical coastal nutrient inventories and phytoplankton ecology during storm events, Oahu, Hawaii. ASLO. Puerto Rico.

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Invited: CB Woodson, JA Tyburczy, MA **McManus**, JA Barth, L Washburn, P Raimondi, BA Menge, S Palumbi. **2010**. Persistent fronts and connectivity: A missing piece of the puzzle? 2010 Ocean Sciences Meeting, Portland Oregon.

De Carlo E, MS Tomlinson, MA **McManus**, E Pawlak, G Steward, F Sansone, O Nigro, RE Timmerman, J Patterson, S Jaramillo-Uribe. **2010**. Short term impacts of storm events on water quality in coastal waters of urban Honolulu, Hawaii. 2010 Ocean Sciences Meeting, Portland Oregon.

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Ryan JP, MA **McManus**, CB Woodson, RM Kudela, JD Paduan. **2010**. Fronts as ecosystem organizers in Monterey Bay. 2010 Ocean Sciences Meeting, Portland Oregon.

Invited: Stacey MS, MA **McManus**, J Steinbuck, OM Cheriton, JP Ryan. **2010**. Turbulent mixing on the inner shelf of Monterey Bay and the implications for biological thin layers. 2010 Ocean Sciences Meeting, Portland Oregon.

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McManus MA, GF Steward, RM Kudela, MW Silver, PL Donaghay, JM Sullivan. **2009**. Cryptic blooms: Are thin layers the missing connection? Coastal Zone Meeting. Boston, Massachusetts.

Cheriton OM, MA **McManus**, E McPhee-Shaw. **2009**. A decade in Carmel Bay: Resolving the complex physical structure and flow patterns in a small, ecologically important bay. Monterey Bay National Marine Sanctuary Symposium. Monterey, California.

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McManus MA. **2008**. Current flows in coastal Maui. Nuisance Algal Bloom EcoHAB Workshop Honolulu Zoo, Discovery Center. Honolulu, HI.

Woodson, CB, JA Barth, DJ Hoover, AR Kirincich, MA **McManus**, JP Ryan, J Tyburczy, L Washburn. **2008**. Upwelling-driven buoyant plume dynamics in northern Monterey Bay. AGU Fall Meeting, San Francisco, California.

Cheriton OM, MA **McManus**, MS Stacey, JV Steinbuck, JP Ryan. **2008**. Physical and biological controls on the maintenance and dissipation of a thin phytoplankton layer. 2008 Ocean Sciences Meeting. Orlando, Florida.

Jones MB, CS Jones, D Barseghian, MA **McManus**, G Pawlak. **2008**. Managing and analyzing cabled-seafloor sensor data using Kepler scientific workflows. 2008 Ocean Sciences Meeting. Orlando, Florida.

Sansone FJ, GR Pawlak, TP Stanton, AB Hebert, MA **McManus**, EH DeCarlo, MA Merrifield. **2008**. Kilo Nalu nearshore reef observatory, Oahu, Hawaii: Interdisciplinary observations of physical, geochemical and biological interactions. 2008 Ocean Sciences Meeting. Orlando, Florida.

Sevadjian JC, MA **McManus**, GR Pawlak, CF Greenlaw. **2008**. The influence of physical structure and shoaling internal tides on thin plankton layers in Mamala Bay, Hawaii. 2008 Ocean Sciences Meeting. Orlando, Florida.

Stacey MT, MA **McManus**, JV Steinbuck. **2008**. Convergences and divergences and mixing in thin layers. 2008 Ocean Sciences Meeting. Orlando, Florida

Woodson CB, DJ Hoover, JA Barth, MA **McManus**, PR Raimondi, MH Carr, L Washburn, S Dudas. **2008**. Recruitment in upwelling-dominated regions driven by the movement of nearshore fronts. 2008 Ocean Sciences Meeting. Orlando, Florida.

Solomon RF, CE Ostrander, E Heinen De Carlo, MA **McManus**, FT Mackenzie, KE Fagan, C Sabine, RA Feely. **2007**. Coastal observing at CRIMP-CO₂, Kaneohe Bay, Hawaii: A study of land-ocean interactions and CO₂ exchange between seawater and the atmosphere. 2007 Ocean Carbon Biogeochemistry Workshop. Woods Hole, Massachusetts.

Solomon RF, CE Ostrander, EH De Carlo, **MA McManus**, FT Mackenzie, KE Fagan, C Sabine, RA Feely **2007**. Land-ocean interactions in a coastal embayment, Kaneohe Bay, Hawaii: Nutrient dynamics, productivity, and CO₂ exchange between seawater and atmosphere. 2007 Goldschmidt Conference. Cologne, Germany.

Lubchenco J, F Chan, JA Barth, BA Menge, JM Bane, AR Kirincich, **MA McManus**, KJ Nielsen, SD Pierce, L Washburn. **2007**. Arrhythmias in the coastal ocean off the west coast of the US. Ecological Society of America meeting. San Jose, California.

Invited: Woodson CB and **MA McManus**. **2007**. Behavior and dispersal in the ocean: Can zooplankters remain near high resource patches? ASLO Aquatic Sciences Meeting, Santa Fe, New Mexico.

Pawlak G, T Stanton, D Harries, K Millikan, J Shacat, B McLaughlin, A Hebert, **MA McManus**, EH DeCarlo, F Sansone. **2007**. Kilo Nalu cabled array: Realtime data, power and diagnostic systems. OMAE 2007 Special Symposium on Offshore Measurement and Data Interpretation. San Diego, California.

Solomon RF, CE Ostrander, MF Chung, FS Paquay, LE DeGelleke, M Akiba, KE Fagan, EH DeCarlo, FT Mackenzie, **MA McManus**, CL Sabine, RA Feely. **2006**. The effects of storm events on air-sea CO₂ exchange in southern Kaneohe Bay, Hawaii. 2006 AGU. San Francisco, California.

Swanson M, J Sevadjan, F Sansone, G Pawlak, **M McManus**, E De Carlo, T Stanton, A Hebert, J Shacat, K Millikan, B McLaughlin, J Wells, A Hanson, BH Byrne. **2006**. The Kilo Nalu cabled observatory, Oahu, Hawaii: A flexible platform for integrated physical and biogeochemical adaptive sampling and experimentation. 2006 AGU. San Francisco, California.

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Invited: Ryan JP, **MA McManus**, J Paduan, F Chavez. **2006**. Phytoplankton thin layers within a coastal upwelling system front in Monterey Bay, California. Ocean Sciences Meeting. Honolulu, Hawaii.

Benoit-Bird K, **MA McManus**, BE McLaughlin. **2006**. Thin phytoplankton and zooplankton layers and not so thin micronekton layers off the west coast of Oahu, Hawaii. Ocean Sciences Meeting. Honolulu, Hawaii.

Invited: Cheriton OM, **MA McManus**, DV Holliday, CF Greenlaw, PL Donaghay. **2006**. Coastal Ocean Exploration: Searching For Thin Layers (COESTL). Ocean Sciences Meeting. Honolulu, Hawaii.

Pawlak G, T Stanton, F Sansone, R Wilkens, E De Carlo, A Hebert, MA **McManus**, M Merrifield, K Millikan, M Bandet-Chavanne, M Swanson. **2006**. Kilo Nalu: A Hawaiian coastal observatory. Ocean Sciences Meeting. Honolulu, Hawaii.

Airame S, J Lubchenco, S Gaines, MA **McManus**. **2006**. PISCO (Partnership for Interdisciplinary Studies of Coastal Oceans): Mentoring and training the next generation. Ocean Sciences Meeting. Honolulu, Hawaii.

Pfeiffer-Hoyt AS, MA **McManus**, PT Raimondi, Y Chao. **2006**. Predicting *Balanus glandula* larval dispersal with coupled biological physical modeling. Ocean Sciences Meeting. Honolulu, Hawaii.

De Carlo EH, R F Solomon, F Paquay, C E Ostrander, FT Mackenzie, M A **McManus**, C Sabine, K Fagan, M Chun. **2006**. Elucidation of the response of the coastal ocean to land-derived inputs through use of an instrumented platform. Ocean Sciences Meeting. Honolulu, Hawaii.

Drake PT and MA **McManus**. **2005**. Physical oceanography and marine ecology: Potential oceanographic insights into nearshore ecosystems in the Monterey Bay national marine sanctuary. 2005 Annual Sanctuary Currents Symposium. California State University Monterey Bay, California.

Young CW, DJ Hoover, EH DeCarlo, FT MacKenzie, MA **McManus**. **2005**. Impact of storm runoff from subtropical watersheds on coastal water quality and productivity. Goldschmidt Conference. Moscow, Idaho.

Pfeiffer-Hoyt AS, MA **McManus**, Y Chao. **2005**. Modeling the growth, behavior and dispersal of *Balanus glandula* larvae within the hydrography of the central California coast. ASLO. Salt Lake City, Utah.

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Storlazzi C, D Wingfield, MA **McManus**, M Carr. **2004**. Variability in oceanographic and meteorological forcing along central California and its implications on nearshore physical and biological processes. 2004 PACLIM.

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McManus MA, OM Cheriton, DV Holliday, C Storlazzi, PT Drake, CF Greenlaw, PL Donaghay. **2004**. Thin layers and the transport and retention of marine plankton in coastal systems. ASLO. Honolulu, Hawaii.

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Chavez F, M McNutt, MA **McManus**, G Griggs. **2004**. The Central and Northern California Ocean Observing System: CeNCOOS. ASLO. Honolulu, Hawaii.

Bellingham JG, PE Chandler, Y Chao, F Chavez, RE Davis, DM Fratantoni, S Haddock, N Leonard, MA **McManus**, J Paduan, S Ramp, A Robinson. **2003**. AOSN Monterey Bay experiment: Observing and predicting the coastal ocean. American Meteorological Society Meeting. Seattle, Washington.

Barth J, A Baptista, M Kosro, D Martin, J Newton, L Rosenfeld, F Chavez, MA **McManus**, M McNutt, E Terrill, L Washburn, T Garfield. **2003**. An update on the regional ocean observing systems along the US west coast. Eastern Pacific Ocean Conference. Catalina, California.

Invited: Palomino E, MA **McManus**, J Largier, L Washburn, S Morgan, K Stolzenbach, B Sanders, M Stacey. **2003**. Adding value to NEOCO, the Network for Environmental Observations of the Coastal Ocean. Eastern Pacific Ocean Conference. Catalina, California.

Largier J, MA **McManus**, L Washburn, S Morgan, B Sanders, K Stolzenbach, M Stacey, D Lucas, M Carter. **2003**. Early results and historical data from NEOCO (Network for Environmental Observations of the Coastal Ocean). Eastern Pacific Ocean Conference. Catalina, California.

Invited: McLaughlin B, G Griggs, MA **McManus**, D Croll, R Kudela, F Chavez, J Paduan, S Lonhart, A DeVogelaere. **2003**. The Center for Integrated Marine Technologies (CIMT). Eastern Pacific Ocean Conference. Catalina, California.

Invited: **McManus** MA, M Carr, P Raimondi, A Ammann, C Storlazzi. **2003**. Linking the recruitment dynamics of temperate reef fish populations to coastal physical processes. Symposium: Opening the Black Box: Understanding Ecosystem Dynamics in Coastal Oceans. American Association for the Advancement of Science (AAAS). Denver, Colorado.

Donaghay PL, JM Sullivan, C Moore, B Rhoads, MA **McManus**. **2002**. 4-D Measurements of the finescale structure of inherent optical properties in the coastal ocean using the ocean response coastal analysis system (ORCAS). Ocean Optics Meeting. Santa Fe, New Mexico.

Invited: **McManus** MA, A Amman, K Blackhart, C Blanchette, M Carr, J Caselle, C Cudaback, S Gaines, B Gaylord, B Grantham, D Lohse, P Raimondi, C Storlazzi, B Menge, M Nishimoto, N Phillips, R Warner, L Washburn. **2002**. Exploring the coastal ocean and its effects on biological communities. California and the World Ocean Conference. Santa Barbara, California.

Invited: **McManus** MA, J Largier, S Morgan, B Sanders, M Stacey, K Stolzenbach, L Washburn, L Wilkinson. **2002**. Data management techniques for NEOCO, the Network for Environmental Observations of the Coastal Ocean. California and the World Ocean Conference. Santa Barbara, California.

Invited: Largier J, MA **McManus**, L Washburn, S Morgan, B Sanders, K Stolzenbach, M Stacey, D Lucas, M Carter, S Scott. **2002**. Early results and historical data from NEOCO. California and the World Ocean Conference. Santa Barbara, California.

Invited: Donaghay PL, DV Holliday, JEB Rines, JM Sullivan, MA **McManus**. **2002**. The importance of finescale structure (thin layers) in controlling the dynamics and biodiversity of plankton populations in stratified coastal waters. Symposium on Biodiversity. Chicago, Illinois.

Palomino E, MA **McManus**, JL Largier, L Washburn, KD Stolzenbach, SG Morgan, GF Sanders, M. Stacey. **2002**. Network for Environmental Observations of the Coastal Ocean (NEOCO). Eastern Pacific Ocean Conference. Mt. Hood, Oregon.

Invited: **Deksheniaks** MM. **2002**. From wind to whales: Integrating advanced technologies to understand California's upwelling ecosystems. Coastal Observing Technology System Meeting. NOAA Coastal Services Center. Charleston, South Carolina.

Invited: **Deksheniaks** MM. **2002**. Oceanographic data management strategies. Tagging of Pacific Pelagics Conference. Monterey Bay Aquarium. Monterey, California.

Deksheniaks MM, C Storlazzi, A Ammann, MH Carr, PT Raimondi, JD Figurski. **2002**. Temporal and spatial variations of hydrography in Monterey Bay: Implications for larval transport and recruitment. Ocean Sciences Meeting. Honolulu, Hawaii.

Donaghay PL, DV Holliday, JEB Rines, JM Sullivan, CF Greenlaw, DE McGehee, J Miksis, MM **Deksheniaks**. **2002**. Challenges in sampling plankton structure and composition at critical scales in the coastal ocean. Ocean Sciences Meeting. Honolulu, Hawaii.

Wilkinson L, MM **Deksheniaks**, JL Largier, L Washburn, KD Stolzenbach, SG Morgan, GF Sanders, M. Stacey. **2002**. Network for Environmental Observations of the Coastal Ocean (NEOCO). Ocean Sciences Meeting. Honolulu, Hawaii.

Washburn L, C Cudaback, MM **Deksheniaks**, B Gaylord, B Grantham and M Nishimoto. **2002**. Linking coastal oceanographic processes to recruitment through observations. Workshop on the modeling of larval dispersal. Santa Barbara, California.

Blackhart K, C Storlazzi, A Ammann, M Carr, MM **Deksheniaks**, P Raimondi, PT Drake. **2002**. Linking coastal oceanographic processes and recruitment dynamics of temperate reef fishes. PISCO Symposium. Monterey, California.

Deksheniaks MM, PL Donaghay, JM Sullivan, JEB Rines, TR Osborn, DV Holliday, DE McGehee, CF Greenlaw. **2001**. The role of regional and local physical forcing in controlling thin layer formation in a coastal fjord. ASLO. Albuquerque, New Mexico.

Donaghay PL, MM **Deksheniaks**, JM Sullivan, JEB Rines, DV Holliday, DE McGehee, CF Greenlaw. **2001**. Do zooplankton aggregate into thin plankton layers? ASLO Albuquerque, New Mexico.

Austin J, C Cudaback, MM **Deksheniaks**, J Barth. **2000**. Physical oceanography of the inner shelf of the California current ecosystem. PISCO/Mellon Symposium, Oregon State University, Corvallis, Oregon.

Donaghay PL, MM **Deksheniaks**, JM Sullivan, JEB Rines. **2000**. Impact of small-scale physical processes on finescale optical structure in coastal waters. Ocean Optics Meeting. Monaco.

Donaghay PL, MM **Deksheniaks**, AK Hanson, DV Holliday, JM Sullivan, C Moore, JR Zaneveld. **2000**. 4-D systems for assessing episodic events in coastal waters. ASLO Aquatic Sciences Meeting. Copenhagen, Denmark.

Sullivan JM, JEB Rines, PL Donaghay, MM **Deksheniaks**, E Swift. **2000**. The effects of small-scale turbulence on the growth and morphology of ten species of marine dinoflagellates. ASLO Aquatic Sciences Meeting. Copenhagen, Denmark.

Donaghay PL, JM Sullivan, MM **Deksheniaks**, JEB Rines, TR Osborn, DV Holliday, AD Weidemann, D Johnson. **2000**. Critical scales in oceanography: Application of new instrumentation to quantify biological and physical processes across multiple scales. Ocean Sciences Meeting. San Antonio, Texas.

Cowles T, R Desiderio, S MacIntyre, DV Holliday, PL Donaghay, MM **Deksheniaks**, A Alldredge. **2000**. Temporal patterns in planktonic thin layer formation/maintenance as revealed by integrated instrumentation approaches. Ocean Sciences Meeting. San Antonio, Texas.

Invited: **Deksheniaks** MM, PL Donaghay, TR Osborn. **1999**. Factors controlling the circulation in East Sound and the concomitant generation of thin layers. ASLO Aquatic Sciences Meeting. Santa Fe, New Mexico.

Invited: Sullivan JM, PL Donaghay, MM **Deksheniaks**. **1999**. Examination of the temporal and spatial coherence of optical thin-layers using autonomous profilers. ASLO Aquatic Sciences Meeting. Santa Fe, New Mexico.

Invited: **Deksheniaks** MM, PL Donaghay, JM Sullivan, MS Twardowski, JEB Rines. **1998**. Spatial and temporal occurrence of thin layers in relation to environmental forcing. Ocean Sciences Meeting. San Diego, California.

Donaghay PL, MM **Deksheniaks**, JEB Rines, JM Sullivan, MS Twardowski. **1998**. Physical and biological control of the formation, maintenance and dissipation of thin phytoplankton layers in the pycnoclines of stratified coastal waters. Ocean Sciences Meeting. San Diego, California.

Merrell JR, DJ Gifford, PL Donaghay, MM **Deksheniaks**, MS Twardowski, JM Sullivan. **1998**. Finescale vertical distributions of microplankton in thin layers. Ocean Sciences Meeting. San Diego, California.

Rines JEB, JM Sullivan, PL Donaghay, MM **Deksheniaks**, MS Twardowski. **1998**. Physical mixing processes and phytoplankton species composition of finescale bio-optical structures in coastal waters. Ocean Sciences Meeting. San Diego, California.

Twardowski MS, PL Donaghay, JM Sullivan, MM Deksheniaks, JEB Rines. 1998. Finescale production of chromophoric DOM associated with a persistent phytoplankton thin layer. Ocean Sciences Meeting. San Diego, California.

Hofmann EE, JM Klinck, MM Deksheniaks, EN Powell. 1997. The effect of environmental and biological factors on the larvae of the eastern oyster (*Crassostrea virginica*) larvae: Simulation results. ICES Symposium on the Role of Physical and Biological Processes in the Recruitment Dynamics of Marine Populations. Baltimore, Maryland.

Deksheniaks MM, MS Twardowski, PL Donaghay, JM Sullivan, JEB Rines. 1997. Physical flow fields and phytoplankton distribution: Implications for transport. ASLO Aquatic Sciences Meeting. Santa Fe, New Mexico.

Donaghay PL, MM Deksheniaks, MS Twardowski, JM Sullivan, JEB Rines. 1997. Quantification of the zooplankton ambit. ASLO Aquatic Sciences Meeting. Santa Fe, New Mexico.

Twardowski MS, JM Sullivan, MM Deksheniaks, JEB Rines, PL Donaghay. 1997. Spectral dissolved absorption signatures in coastal waters. ASLO Aquatic Sciences Meeting. Santa Fe, New Mexico.

Deksheniaks MM, EE Hofmann, EN Powell, JM Klinck. 1996. Size- and depth-dependent larval mortality: A modeling study. 88th Annual National Shellfisheries Association Meeting. Baltimore, Maryland.

Invited: **Deksheniaks MM, EE Hofmann, EN Powell, JM Klinck. 1996.** The effects of environmental change on the spatial distribution of the Eastern oyster: A modeling study. Ocean Sciences Meeting. San Diego, California.

Powell EN, EE Hofmann, JM Klinck, MM Deksheniaks. 1995. The fate of Galveston Bay oyster populations in the first 50 years of the 21st century under the Texas water plan. 2nd Annual Marine and Estuarine Shallow Water Science and Management Conference. Atlantic City, New Jersey.

Deksheniaks MM, EE Hofmann, JM Klinck, EN Powell. 1995. Spatial patterns of oyster distribution: A modeling study. 23rd Annual Marine Benthic Ecology Meeting. Mobile, Alabama.

Deksheniaks MM, EE Hofmann, JM Klinck, EN Powell. 1994. Factors determining recruitment success of *Crassostrea virginica* in a temperate latitude estuary: A modeling study. 86th Annual National Shellfisheries Association Meeting. Charlestown, South Carolina.

Deksheniaks MM, EE Hofmann, JM Klinck, EN Powell. 1994. A model of the growth, behavior and vertical distribution of oyster larvae. Ocean Sciences Meeting. San Diego, California.

Deksheniaks MM, EE Hofmann, JM Klinck, EN Powell. 1994. Effect of environmental conditions on the population structure of the oyster: A modeling study. In: Proceedings from the Chesapeake Research Conference Toward a Sustainable Coastal Watershed: The Chesapeake Experiment. Norfolk, Virginia.

Powell EN, EE Hofmann, JM Klinck, MM **Deksheniaks**. **1994**. *Perkinsus marinus*: Triggering mechanisms for epizootics: A modeling study. In: Proceedings from the Chesapeake Research Conference Toward a Sustainable Coastal Watershed: The Chesapeake Experiment. Norfolk, Virginia.

Deksheniaks MM, EE Hofmann, JM Klinck, EN Powell. **1993**. A modeling study of the environmental and behavioral factors controlling the vertical distribution of oyster larvae. 85th Annual National Shellfisheries Association Meeting. Portland, Oregon.

Deksheniaks MM, EE Hofmann, JM Klinck, EN Powell. **1993**. A modeling study of the environmental and behavioral factors controlling the vertical distribution of oyster larvae. 21st Annual Marine Benthic Ecology Meeting. Charlestown, South Carolina.

Deksheniaks MM, EE Hofmann, JM Klinck, EN Powell. **1992**. A physiologically based model, considering differing temperature and salinity regimes. 84th Annual National Shellfisheries Association Meeting. San Diego, California.

Deksheniaks MM, EE Hofmann, JM Klinck, EN Powell. **1992**. A physiologically based oyster larval model considering differing temperature and salinity regimes. Ocean Sciences Meeting. New Orleans, Louisiana.

VI. Conference Session Chair

- 2018 Workshop Chair, the Alliance for Coastal Technologies Hyperspectral Imaging of Coastal Waters Workshop, University of Hawaii at Manoa, East West Center, May
- 2018 Workshop Chair, the Alliance for Coastal Technologies National Coastal Ecosystem Moorings Workshop. University of Washington, Seattle Washington, March 2018
- 2012 Co-Convener, GEOHAB Workshop “Advances and challenges for the understanding physical-biological interactions in HABs in Stratified Environments”. MBARI. Moss Landing, California.
- 2010 Co-Convener, Special Session “From field observations to modeling connectivity in the nearshore and back again”. 2010 Ocean Sciences Meeting, Portland Oregon.
- 2008 Co-Convener, Special Session “Oceanography and ecology of thin plankton layers”. 2008 Ocean Sciences Meeting, Orlando Florida.
- 2008 Co-Convener, Special Session “The inner shelf: Connecting shore to coastal ocean”. 2008 Ocean Sciences Meeting, Orlando Florida.
- 2006 Co-Convener, Special Session “Oceanography and ecology of thin plankton layers”. 2006 Ocean Sciences Meeting, Honolulu.

VII. University Seminar Series

Invited. McManus MA. 2018. The Coastal Physical Oceanography and Marine Ecosystems Group. Department of Oceanography, University of Hawaii at Manoa, Honolulu, Hawaii.

Invited. McManus MA. 2017. Understanding the Effects of a Changing Ocean Environment on the Marine Ecosystem. Lyell Centre, Heriot-Watt University, Edinburgh, Scotland.

Invited. McManus MA. 2013. Understanding the effects of a changing ocean environment on the marine ecosystem. Physics Department. California Polytechnic State University. San Luis Obispo, California.

Invited. McManus MA. 2013. Uniform Circular Motion. Physics Department. California Polytechnic State University. San Luis Obispo, California.

Invited. McManus MA. 2011. Plankton Distribution and Ocean Dispersal. Department of Civil & Environmental Engineering, Massachusetts Institute of Technology (M.I.T.). Cambridge, Massachusetts.

Invited: McManus MA. 2010. Understanding the effects of a changing ocean environment on planktonic organisms. Environmental Earth System Science (EESS). Stanford University. Palo Alto, California.

Invited: McManus MA. 2010. Understanding the effects of a changing ocean environment on planktonic organisms. Hopkins Marine Laboratory. Monterey, California.

Invited: McManus MA. 2005. Dynamics of marine coastal ecosystems. University of Hawaii at Hilo. Departmental Seminar. Hilo, Hawaii.

Invited: McManus MA. 2004. Coupling biological and physical processes across a range of scales in the coastal ocean. University of Hawaii. GES Seminar Series. Honolulu, Hawaii.

Invited: McManus MA. 2004. Coupling biological and physical processes in the coastal ocean. California State University, Moss Landing Marine Laboratories. Moss Landing, California.

Invited: McManus MA. 2002. Thin layers in the sea: Linking physical and biological processes using new autonomous instrumentation. University of Hawaii, Department of Oceanography Seminar Series. Honolulu, Hawaii.

Invited: McManus MA. 2002. Thin layers in the sea: Linking physical and biological processes using new autonomous instrumentation. University of California Santa Cruz, Ocean Sciences Department, Seminar Series. Santa Cruz, California.

Invited: Deksheniaks MM. 2001. The role of regional and local physical forcing in controlling thin layer dynamics in a coastal fjord. University of California, Bodega Marine Laboratory. Bodega Bay, California.

Invited: Deksheniaks MM. 2001. The role of regional and local physical forcing in controlling thin layer dynamics in a coastal fjord. Moss Landing Marine Laboratory, Moss Landing, California.

Invited: Deksheniaks MM. 1999. Observations of general circulation patterns in East Sound, Washington. Invited Lecturer: Coastal and Estuarine Geophysical Fluid Dynamics Class. University of Washington, Friday Harbor Laboratories. Friday Harbor, Washington.

Invited: Deksheniaks MM. 1999. Observations of general circulation patterns in East Sound, Washington. Seminar Series: Summer Program for Undergraduate Researchers. University of Rhode Island, Graduate School of Oceanography. Narragansett, Rhode Island.

Invited: Deksheniaks MM. 1999. Observations of general circulation patterns in East Sound, Washington. Seminar Series: Oceanography Department Seminar. University of Washington, Department of Oceanography. Seattle, Washington.

Invited: Deksheniaks MM. 1997. Modeling larval growth, behavior and mortality in response to environmental factors. Seminar Series: Oceanography Department. University of Connecticut, Department of Marine Sciences. Groton, Connecticut.

Invited: Deksheniaks MM. 1997. Modeling larval growth, behavior and mortality in response to environmental factors. Seminar Series: Biological Oceanography. University of Rhode Island, Graduate School of Oceanography. Narragansett, Rhode Island.

VIII. Public Outreach Lecture

Invited: McManus MA. 2016. Marine Conservation. Crossroads in Conservation. Wo International Center, Student Global Leadership Institute, Punahou School. Honolulu ,HI.

Invited: McManus MA. 2015. Understanding the Effects of a Changing Ocean Environment on the Marine Ecosystem. Science Café. Honolulu, HI.

Invited: Steward GF and MA McManus. 2011. The Ala Wai Canal. Iolani School. Honolulu, HI

RESEARCH FUNDING

I. Current Research Support

Funding Agency: National Oceanic and Atmospheric Administration (NOAA)

Project Title: Alliance for Coastal Technologies (ACT 2016): National Scale Efforts Towards Evaluation of Observing Technologies

Project Period: 06/2016-05/2021 *FY16 Total 5-year Award estimate to UHM: \$1,030,913*

Principal Investigators: PI: Tamburri (CBL/UMCES), **Co-PIs:** Johengen (UM/GLOS), Smith (MLML), **McManus** (UHM). Affiliate Investigators Stauffer (ULL), Morrison (NERACOOS), Pellerin (USGS), Kudela (UCSC), Davis (NOAA GLER)

Funding Agency: National Science Foundation (NSF)

Project Title: PAGE: Halau Ola Honua "Our living world, living laboratory"

Project Period: 10/2016-09/2021

Total Award: \$2,621,774

Award to UHM: \$810,422

Principal Investigators: PI: Eschenberg (WCC), **Co-PIs:** McCoy (WCC), Dire (UH Kauai CC), Taylor (UH Kauai CC), Guidry (UHM), **McManus** (UHM), Ferguson (UHHCC), Roberts-Deutsch (UHHCC)

Funding Agency: National Oceanic and Atmospheric Administration, IOOS Program Office

Project Title: Pacific Islands Ocean Observing System (PacIOOS)

Project Period: 06/2016 – 05/2017

Total Award to UHM: \$2,197,836 (year 1), \$2,182,196 (year 2)

Award to McManus: \$117,160

Principal Investigator: PI Ostrander (UHM). **Co-PIs** Chen, Cheung, DeCarlo, Flament, Holland, Iwamoto, Luther, **McManus**, Merrifield, Potemra, Powell (all UHM). Adolf (UH Hilo). Houk (U Guam). Ellis (MERIP). Seki (NOAA PIFSC).

Funding Agency: Office of Naval Research

Project Title: Subtask 6.3 SWAC Monitoring

Project Period: 12/2019 – 06/2020

Award to UHM: \$100,000

Principal Investigator: PI: McManus

Funding Agency: Barrel Tax

Project Title: Subtask 6.3 SWAC Monitoring

Project Period: 12/2019 – 06/2020

Award to UHM: \$100,000

Principal Investigator: PI: McManus

Funding Agency: Office of Naval Research

Project Title: Subtask 6.2 Ocean Modeling

Project Period: 6/2016-6/2021

Award to UHM: \$105,350

Principal Investigator: Co-PIs: McManus, Powell

Funding Agency: Hawaii Sea Grant

Project Title: Enabling real-time predictive modeling of microbial pathogen risk along the Honolulu shoreline

Project Period: 2/2018-1/2020

Principal Investigators: PI: Nelson, Co-PI: McManus, Steward, Neuheimer

Funding Agency: National Oceanic and Atmospheric Administration (NOAA)

Project Title: Surface Lines in Coastal Kona Study (SLICKS)

Project Period: 08/2016 – 07/2017

Principal Investigator: PI: Gove (NOAA PIFSC). Cooperating Faculty: McManus (UHM), Neuheimer (UHM)

II. Past Research Support

Funding Agency: Hawaii Sea Grant

Project Title: Water Budget and Pathogen Dynamics in He'eia Fishpond During Restoration Regimes

Project Period: 01/17-12/17

Total Award Requested: \$10,000

Principal Investigators: PI: McManus, Co-PI: Alegado (both at UHM)

Funding Agency: Office of Naval Research (ONR)

Project Title: Asia Pacific Research Initiative for Sustainable Energy Systems (APRISES) - SWAC

Project Period: 10/2013 - 11/2017

Award to UHM: \$197,358

Principal Investigators: PIs Ostrander, McManus (both at UHM)

Funding Agency: Harold K. L. Castle Foundation

Project Title: FISH FLOW: Following Kane'ohe Bay fish from spawning to supper

Project Period: 01/2015 – 05/2017

Total Award to UHM: \$153,825

Principal Investigators: PI: Hixon, CoPIs: Bowen, Donahue, Franklin, Karl, McManus, Powell, Toonen (all UHM)

Funding Agency: National Science Foundation (NSF), subcontract from University of Guam

Project Title: Guam Ecological Collaboratorium

Project Period: 01/2015-7/2017

Award to UHM: \$140,000+ \$40,385.82

Principal Investigator: PIs McManus, Ostrander (both at UHM)

Funding Agency: Hawaii Sea Grant College Program

Project Title: Linking physical variability to the geochemistry and biology of the He'eia fishpond

Project Period: 04/01/2014-03/31/2015

Award to McManus: \$9,999

Total Award to UH: \$9,999

Principal Investigator: PI McManus. Co-PI Ruttenberg (both at UHM)

Funding Agency: Conservation International

Project Title: Near-shore hydrography and sediment movement on East Lana‘i reef flat

Project Period: 06/2014-10/2014

Award to McManus: **\$9,178.06.**

Total Award: **\$9,178.06**

Principal Investigators: **PI: McManus** (UHM)

Funding Agency: National Science Foundation, Division of Ocean Sciences, Ocean Acidification

Project Title: Collaborative Research: Acclimation and adaptation to ocean acidification of key ecosystem components in the California Current Large Marine Ecosystem (CCLME)

Project Period: 09/2010 – 08/2014 (I)

Award to McManus: **\$33,115.**

Total Award: **\$1,268,133**

Principal Investigators: **PIs:** Menge (OSU), Chavez (MBARI), Hofmann (UCSB), Palumbi (Stanford), **McManus** (UHM), Sanford (UC Davis), Raimondi (UCSC). **Co-PIs:** Barth (OSU), Chan (OSU), Gaylord (UC Davis), Hill (UC Davis), Russell (UC Davis), Blanchette (UCSB), Washburn (UCSB)

Funding Agency: National Science Foundation, Division of Ocean Sciences, Ocean Acidification

Project Title: Ocean Acidification – Collaborative Research: OMEGAS II – Linking ecological and organismal responses to the ocean acidification seascape in the California Current System.

Project Period: 10/2012 – 09/2013 (II)

Award to McManus: **\$13,820.**

Principal Investigators: **PIs:** Menge (OSU), Chavez (MBARI), Hofmann (UCSB), Palumbi (Stanford), **McManus** (UHM), Sanford (UC Davis), Raimondi (UCSC). **Co-PIs:** Barth (OSU), Chan (OSU), Gaylord (UC Davis), Hill (UC Davis), Russell (UC Davis), Blanchette (UCSB), Washburn (UCSB)

Funding Agencies: Gordon and Betty Moore Foundation, David and Lucille Packard Foundation

Project Title: Partnership for the Interdisciplinary Study of the Coastal Ocean (PISCO)

Project Period: 10/2004-06/2014

Award to McManus: **\$629,402**

Total Award: **\$29,500,000**

Principal Investigators: **PI :** Lubchenco (OSU); **CoPIs** Menge (OSU), Barth (OSU), Raimondi (UCSC), Carr (UCSC), **McManus** (UHM), Palumbi (Stanford), Denny (Stanford), Somero (Stanford), Gaines (UCSB), Washburn (UCSB), Warner (UCSB), Hofmann (UCSB). **Prior PI /NOAA**

Funding Agency: Hawaii Sea Grant

Project Title: Impact of invasive mangrove removal on He‘eia Fishpond biogeochemistry

Project Period: 02/2012 – 01/2014

Award to McManus: *partial GSR support stipend*

Total Award to UHM: **\$60,000**

Principal Investigators: **PIs** Ruttenberg, Glazer, **McManus** (all UHM)

Funding Agency: Hawaii Sea Grant

Project Title: Biological and Physical Coupling in Mamala Bay: Completing our Understanding of the Field Ecology of *Alatina moseri* in Hawaiian Waters

Project Period: 01/02012 – 12/2012

Award to McManus: **\$9,999.**

Principal Investigators: **PIs: McManus**, Angel Yanigihara (both at UHM)

Funding Agency: National Science Foundation, Division of Ocean Sciences, Physical Oceanography

Project Title: Collaborative Research: Lateral mixing and dispersion on the inner shelf

Project Period: 09/2009-08/2012

Award to McManus: **\$378,008**

Total Award: **\$1,346,921**

Principal Investigators: **PIs McManus** (UHM), Monismith (Stanford), Stacey (UC Berkeley). **Co-PI** Powell (UC Berkeley)

Funding Agency: The Office of Naval Research, Marine Mammals & Biological Oceanography

Project Title: Importance of thin plankton layers in Hawaiian food web interactions: Research spanning from physical circulation to spinner dolphins.

Project Period 1: 07/2008 – 10/2010

Project Period 2: 10/2010 – 06/2012

Award 1 to McManus: **\$285,735** (UHM)

Award 2 to McManus: **\$58,547**

Principal Investigators: **PI McManus** (UHM)

Funding Agency: Hawaii Sea Grant

Project Title: The role of bottom sediments in nutrient cycling in He'eia Fishpond

Project Period: 03/2007 – 02/2012

Award to McManus: *partial GSR support stipend*

Total Award to UH: **\$89,176**

Principal Investigators: **PI** Ruttenberg (UHM). **Co-PIs McManus** (UHM), Glazer (UHM), Holl (OI)

Funding Agency: National Oceanic and Atmospheric Administration, IOOS Program Office

Project Title: Developing the Hawaii-Pacific Ocean Observing and Information System (year 4)

Project Period: 10/2007-09/2012

Award to McManus: **\$83,119**

Amount of Award to UH: **\$1,196,538**

Principal Investigators: **PI** Brian Taylor. **Co-PIs** Whit Au, Benjamin Brooks, Glenn Carter, Eric H DeCarlo, Yi-Leng Chen, Kwok Fai Cheung, Pierre Flament, Charles Fletcher, Kim Holland, Doug Luther, Margaret McManus, Mark Merrifield, Chris Ostrander, Geno Pawlak, James Potemra, Brian Powell, Alexander Shor (all UHM)

Funding Agency: National Oceanic and Atmospheric Administration, IOOS Program Office

Project Title: Developing the Hawaii-Pacific Ocean Observing and Information System

Project Period: 10/2007-05/2016

Award to McManus: **\$513442.52**

Total Amount of Award: **\$6,465,819**

Principal Investigators: **PI** Taylor (UHM). **Co-PIs** Au, Brooks, Carter, DeCarlo, Chen, Cheung, Flament, Fletcher, Holland, Luther, **McManus**, Merrifield, Ostrander, Pawlak, Potemra, Powell, Shor (all SOEST UHM)

Funding Agency: Office of Naval Research

Project Title: Quantification of the interacting physical, biological, optical and chemical properties of thin layers in the sea

Project Period: 02/2004-12/2009

Award to McManus: **\$598,360**

Total Amount of Award: **\$890,500.68**

Principal Investigators: **PI McManus** (UHM). **Co-PIs** Ryan (MBARI), Stacey (Berkeley)

Funding Agency: Office of Naval Research

Project Title: Quantification of the interacting physical, biological, optical and chemical properties of thin layers in the sea

Project Period: 10/2008-12/2009

Award to McManus: **\$16,540**

Principal Investigators: **PI McManus** (UHM). **Co-PIs** Ryan (MBARI), Stacey (Berkeley)

Funding Agency: National Oceanic and Atmospheric Administration

Project Title: Circulation influence on sediment/ordnance transport on the Waianae coast of O'ahu

Project Period: 4/2009-6/2011

Total Amount of Award: **\$176,889**

Principal Investigators: **PI Powell** (UHM). **Co-PI McManus** (UHM)

Funding Agency: City of Honolulu

Project Title: Real time monitoring and establishment of an “Early Warning System” for the Sand Island ocean outfall effluent plume

Project Period: 11/2008 to 12/2009

Total Amount of Award: **\$160,400**

Principal Investigators: **PI** Pawlak (UHM). **Co-PI McManus** (UHM)

Funding Agency: The National Science Foundation

Project Title: Benthic boundary layer geochemistry and physics at the Kilo Nalu Observatory

Project Period 1: 01/2006-12/2008

Project Period 2: 12/2008-8/2010

Total Amount of Award 1: **\$2,085,000**

Total Amount of Award 2: **\$371,350**

Principal Investigators: **PI** Pawlak (UHM). **Co-PIs** DeCarlo (UHM), **McManus** (UHM), Sansone (UHM), Stanton (NPS)

Funding Agency: Office of Naval Research: Defense University Research Instrumentation Program

Project Title: Autonomous sensing of layered structures in Hawaiian waters

Project Period: 03/2007 – 06/2008

Award to McManus: **\$112,842**

Principal Investigator: **PI McManus** (UHM)

Funding Agency: Hawaii Sea Grant

Project Title: Impact of coastal zone productivity driven by land derived inputs on carbon dioxide exchange between Kaneohe Bay and the atmosphere.

Project Period: 03/2005-02/2009

Total Amount of Award: **\$311,758** (with additional GSR support stipend ~100,000 over 42 years)

Principal Investigators: **PI** DeCarlo. **Co-PIs** Mackenzie, **McManus** (all at UHM)

Funding Agency: Office of Naval Research

Project Title: Importance of Thin Plankton Layers in Hawaiian Food Web Interactions: Research Spanning From Physical Circulation to Spinner Dolphins.

Project Period: 10/2010-09/2011

Total Amount of Award: **\$115,547**

Total Amount of Award to McManus: **\$58,547**

Principal Investigators: **PI** Benoit-Bird (OSU). **Co-PI McManus** (UHM)

Funding Agency: Office of Naval Research

Project Title: Factors influencing the nearshore sound-scattering layer in Hawaiian waters

Project Period: 11/2004-11/2007

Award to McManus: **\$264,166**

Principal Investigators: **PI McManus**. **Co-PI** Benoit-Bird (OSU)

Funding Agency: Hawaii Sea Grant

Project Title: The effect of storms on circulation patterns, stratification and physical mixing processes in Kaneohe Bay (Program Development Project)

Project Period: 06/2006 – 05/2007

Award to McManus: **\$9,999**

Principal Investigator: **PI McManus** (UHM)

Funding Agency: Office of Naval Research

Project Title: Spatial analyses and three-dimensional structure of thin layers in Monterey Bay, CA

Project Period: 05/2005-05/2006

Award to McManus: **\$61,764**

Principal Investigator: **PI McManus** (UHM)

Funding Agency: Hawaii Sea Grant

Project Title: Response of Kaneohe Bay to storm runoff input (Program Development Project)

Project Period: 03/2005 – 02/2006

Award to McManus: **\$9,999**

Principal Investigator: **PI McManus** (UHM)

Funding Agency: National Oceanic and Atmospheric Administration

Project Title: The Center for Integrated Marine Technology (CIMT)

Project Period: 07/2002-07/2005

Total Amount of Award: **\$6,445,000**

Principal Investigators: **PIs** Griggs (UCSC), Chavez (MBARI), Paduan (NPS), **McManus** (UCSC), Croll (UCSC), Kudela (UCSC)

Funding Agency: UC Coastal Environmental Quality Initiative: UC Marine Council
Project Title: Network for Environmental Observations of the Coastal Ocean (NEOCO)
Project Period: 06/2001-06/2005
Total Amount of Award: **\$682,517**
Principal Investigators: **PI McManus** (UCSC). **Co-PIs** Largier (UC Davis), Washburn (UCSB), Stolzenbach (UCLA), Sanders (UCI), Morgan (UC Davis), Stacey (Berkeley)

Funding Agency: Office of Naval Research
Project Title: Adaptive Ocean Sampling Network II (AOSN II)
Project Period: 11/2002-03/2004
Award to McManus: **\$106,575**
Principal Investigators: **PI McManus** (UCSC). **Co-PI** Chavez (MBARI)

Funding Agency: Office of Naval Research
Project Title: Coastal Ocean Exploration-Searching for Thin Layers (COESTL)
Project Period: 01/2002-12/2003
Award to McManus: **\$105,000**
Principal Investigators: **PI McManus** (UCSC)

Funding Agency: Office of Naval Research
Project Title: Large-scale physical forcing of thin layer dynamics
Project Period: 10/2001-10/2003
Award to McManus: **\$115,000**
Principal Investigators: **PI McManus** (URI)

Funding Agency: National Ocean Partnership Program
Project Title: Ocean Response Coastal Analysis System (ORCAS) autonomous underwater profiler development
Project Period: 08/2000-08/2002
Award to McManus: **\$70,000**
Total Amount of Award: **\$4,374,550**
Principal Investigators: **PI** Donaghay (URI). **Co-PI McManus** (URI)

Funding Agency: Office of Naval Research
Project Title: Large-scale physical forcing of thin layer dynamics
Project Period: 10/1999-10/2001
Total Amount of Award: **\$142,000**
Principal Investigators: **PI McManus** (URI). **Co-PIs** Osborn (JHU), Donaghay (URI)

Funding Agency: Office of Naval Research
Project Title: Quantifying the role of physical processes in thin layer formation and maintenance
Project Period: 10/1997-10/1999
Total Amount of Award: **\$40,000**
Principal Investigators: **PI McManus** (URI). **Co-PIs** Osborn (JHU), Donaghay (URI)

INSTRUCTIONAL ACTIVITIES

I. Courses taught

Courses taught at the University of California Santa Cruz (2000-2003)

| Quarter | Year | Course | Level | Enrolled | Taught % | Evaluation Grade |
|---------|------|--|---------------|----------|----------|------------------|
| Winter | 2001 | Physical Oceanography | Graduate | 9 | 100 | 90.62 |
| Spring | 2001 | Introduction to Oceanography | Undergraduate | 44 | 50 | 90.56 |
| Fall | 2001 | Physical Oceanography | Graduate | 24 | 100 | 84.76 |
| Winter | 2002 | Coupled Biological-Physical Oceanography | Graduate | 4 | 100 | 94.61 |
| Spring | 2002 | Introduction to Oceanography | Undergraduate | 148 | 100 | 94.07 |
| Fall | 2002 | Physical Oceanography | Graduate | 10 | 100 | 94.47 |
| Fall | 2002 | Introduction to Oceanography | Undergraduate | 156 | 100 | 88.29 |
| Spring | 2003 | Coupled Biological-Physical Oceanography | Graduate | 11 | 100 | 98.91 |
| Fall | 2003 | Introduction to Oceanography | Undergraduate | 179 | 100 | 94.13 |
| Fall | 2003 | Teaching in Ocean Sciences | Graduate | 8 | 100 | 97.80 |

Average teaching evaluation grade UCSC 92.82

Courses taught at the University of Hawaii at Manoa (2004 – Present)

| Semester | Year | Course | | Level | Enrolled | Taught % | Evaluation Grade |
|----------|------|--|--------|---------------|----------|----------------|------------------|
| Fall | 2004 | Communication of Research Results | OCN490 | Undergraduate | 8 | 100 | A |
| Fall | 2005 | Communication of Research Results | OCN490 | Undergraduate | 3 | 100 | A |
| Spring | 2006 | Coupled Biological-Physical Oceanography | OCN480 | Undergraduate | 4 | 100 | A |
| Spring | 2006 | Communication of Research Results | OCN490 | Undergraduate | 12 | 100 | A |
| Summer | 2006 | Coupled Biological-Physical Oceanography | EEB633 | Graduate | 15 | 33 | * |
| Fall | 2006 | Communication of Research Results | OCN490 | Undergraduate | 6 | 100 | A |
| Fall | 2006 | Department Seminar Series | OCN780 | Graduate | 8 | - | * |
| Fall | 2006 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Spring | 2007 | Coupled Biological-Physical Oceanography | OCN480 | Undergraduate | 3 | 100 | A |
| Spring | 2007 | Ecology of Pelagic Marine Animals | OCN627 | Graduate | 20 | Guest lecturer | * |
| Spring | 2007 | Proposal Development | OCN791 | Graduate | 15 | Guest lecturer | * |
| Spring | 2007 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Fall | 2007 | Communication of | OCN490 | Undergraduate | 4 | 100 | A |

| | | | | | | | |
|--------|------|--|------------------|---------------------------|---------|----------------|---|
| | | Research Results | | | | | |
| Spring | 2008 | Coupled Biological-Physical Oceanography | OCN680 OCN480 | Graduate Undergraduate | 4 5 | 100 | A |
| Summer | 2008 | Coupled Biological-Physical Oceanography | EEB633 | Graduate | 21 | 33 | A |
| Fall | 2008 | Global Environmental Change | OCN310 | Undergraduate | 35 | Guest Lecturer | * |
| Fall | 2008 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Spring | 2009 | Ecology of Pelagic Marine Animals | OCN627 | Graduate | 20 | Guest lecturer | * |
| Spring | 2009 | Communication of Research Results | OCN490 | Undergraduate | 11 | 100 | A |
| Spring | 2009 | Undergraduate Thesis | OCN499 | Undergraduate | 1 | 100 | * |
| Fall | 2009 | Global Environmental Science Seminar | OCN100 | Undergraduate | 14 | Guest Lecturer | * |
| Fall | 2009 | Undergraduate Thesis | OCN499 | Undergraduate | 1 | 100 | * |
| Spring | 2010 | Coupled Biological-Physical Oceanography | OCN680 OCN480 | Graduate Undergraduate | 11 4 | 100 | A |
| Spring | 2010 | Undergraduate Thesis | OCN499 | Undergraduate | 2 | 100 | * |
| Spring | 2010 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Spring | 2010 | Ecology of Pelagic Marine Animals | OCN627 | Graduate | 12 | Guest lecturer | * |
| Fall | 2010 | Directed Research | OCN699 | Graduate | 2 | 100 | * |
| Spring | 2011 | Communication of Research Results | OCN490 | Undergraduate | 10 | 100 | A |
| Spring | 2011 | Directed Research | OCN699 | Graduate | 2 | 100 | * |
| Fall | 2011 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Spring | 2012 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Spring | 2012 | Coupled Biological-Physical Oceanography | OCN680 OCN480 | Graduate Undergraduate | * * | 100 | A |
| Spring | 2012 | Ecology of Pelagic Marine Animals | OCN627 | Graduate | 5 | Guest lecturer | * |
| Spring | 2013 | Communication of Research Results | OCN490 | Undergraduate | 15 | 100 | A |
| Spring | 2013 | Undergraduate Thesis | OCN499 | Undergraduate | 1 | 100 | * |
| Spring | 2013 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Spring | 2014 | Coupled Biological-Physical Oceanography | OCN680 OCN480 | Graduate Undergraduate | 10 4 | 100 | A |
| Fall | 2014 | Undergraduate Thesis | OCN499 75360W | Undergraduate | 2 | 100 | * |
| Fall | 2014 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Spring | 2015 | Undergraduate Thesis | OCN499 | Undergraduate | 1 | 100 | * |
| Spring | 2015 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Spring | 2015 | Communication of Research Results | OCN490 | Undergraduate | 13 | 100 | A |
| Spring | 2015 | Ecology of Pelagic Marine Animals | OCN627 | Graduate | 14 | Guest lecturer | * |
| Summer | 2015 | Directed Reading | OCN399 | Undergraduate | 1 | 100 | * |
| Fall | 2015 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Spring | 2016 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Fall | 2016 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Fall | 2016 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Spring | 2017 | Directed Research | MBIO699 | Graduate | 1 | 100 | * |
| Spring | 2017 | Directed Research | OCN699 | Graduate | 1 | 100 | * |

| | | | | | | | |
|--------|------|--|------------------|---------------------------|--------|-----|---|
| Spring | 2017 | Communication of Research Results | OCN490 | Undergraduate | 18 | 100 | A |
| Fall | 2017 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Fall | 2017 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Spring | 2018 | Coupled Biological-Physical Oceanography | OCN680 OCN480 | Graduate Undergraduate | 5 2 | 100 | A |
| Spring | 2018 | Directed Research | OCN699 | Graduate | 1 | 100 | * |
| Spring | 2018 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Summer | 2018 | Halau Ola Honua – Bringing Native Hawaiian Students into Geosciences | OCN 199 | Undergraduate | 11 | 10 | * |
| Fall | 2018 | Thesis Research | OCN700 | Graduate | 1 | 100 | * |
| Spring | 2019 | Communication of Research Results | OCN490 | Undergraduate | 10 | 100 | A |
| Spring | 2019 | Thesis Research | OCN700 | Graduate | 2 | 100 | * |

In the 16 years I have been teaching at UHM, I have received an A for teaching evaluation in every class with evaluations
 * No evaluation grade requested from students

II. Mentoring

In addition to the courses that I teach in the classroom, I am dedicated to the mentoring of undergraduate and graduate students, as well as to the guidance of postdoctoral researchers through the early stage of their careers. The following is a list of the undergraduate and graduate students whom I have supported and mentored, the graduate committees (dissertation, qualifying and advisory) on which I have served, and the postdoctoral researchers with whom I have had the pleasure of working.

i. University of Hawaii at Manoa

Graduate Students – Major Advisor

Ms. Anna Pfeiffer-Hoyt (MS 2005)² (UCSC). Thesis Title: “*Modeling the development, behavior, and dispersal of barnacle larvae within the hydrography of the central California coast.*”

Mr. Chris Ostrander (MS 2007) (UHM). Thesis Title: “*Physical factors controlling the temporal and spatial variability of freshwater plumes in Kaneohe bay, Hawaii.*”

Dr. Olivia Cheriton (PhD 2008) (UCSC). Dissertation Title: “*Thin layers of plankton and the influences of physical processes in the coastal ocean.*”

Mr. Jeff Sevadjian (MS 2008) (UHM). Thesis Title: “*The effects of physical structure and processes on thin zooplankton layers in Mamala Bay, Hawaii.*”

² Prior to coming to the University of Hawaii at Manoa, I was a faculty member in the Ocean Sciences Department at the University of California Santa Cruz. Ms. Anna Pfeiffer-Hoyt (now Pfeiffer-Herbert), and Dr. Olivia Cheriton were my students at UCSC. They remained my students at UCSC through my move to UH, and each successfully graduated under my guidance.

Mr. Charles Young (MS 2011) (Co-advised with Dr. Kathleen Ruttenberg) (UHM). Thesis Title: *“Perturbation of nutrient inventories and phytoplankton community composition during storm events in a tropical coastal system: He'eia Fishpond, Oahu, Hawaii.”*

Ms. Amanda Timmerman (MS 2012) (UHM). Thesis Title: *“Hidden thin layers of toxic diatoms in a coastal bay”*

Dr. Jamison Gove (PhD 2013) Dissertation Title: *“Biological-physical interactions in Pacific coral reef ecosystems”* (UHM)

Mr. Conor Jerolmon (MS 2016). Thesis Title: *“A physical-biological model of Oahu’s windward coastal waters: Implications for larval transport”*

Ms. Paula Moehlenkamp (MS 2018) Thesis Title *“Kū Hou Kuapā³: Increase of water exchange rates and changes in microbial source tracking markers resulting from restoration regimes at He'eia Fishpond”* (Co-advised with Dr. Rosanna Alegado)

Ms. Shilpa Lal (MS in progress) (Co-advised with Dr. Anna Neuheimer)

Ms. Carleigh Vollbrecht (MS in progress)

Global Environmental Sciences Undergraduate Program Advisees – Major Advisor

Mr. Kyle Bosworth (BS 2008). Thesis Title: *“Temporal and spatial analysis of storm induced freshwater plumes in southern Kaneohe Bay, Hawaii.”*

Ms. Shandy Buckley (BS 2009). Thesis Title: *“Biological and physical comparison of cyclonic eddies in an open sea region and in a coastal channel.”*

Ms. Lindsey Benjamin (BS 2010). Thesis Title: *“Characterization of the physical environment in He'eia Fishpond, Oahu, Hawaii.”*

Ms. Amanda Vinson (BS 2010). Thesis Title: *“The effects of physical oceanographic structure and processes on biological patchiness in the coastal ocean.”*

Mr. Daniel McCoy (BS 2011). Thesis Title: *“Improving sample collection and time series analyses of environmental data in He'eia fishpond Oahu Hawaii 2007-2011.”*

Mr. Brandon D'Andrea (BS 2015) Thesis Title: *“Water exchange and circulation in He'eia fishpond: Building blocks for establishing a water budget.”*

Ms. Camilla Tognacchini (BS 2015) Thesis Title: *“The effects of man-made and climatic changes on a tropical coastal system: A comparative study”*

³ *Kū Hou Kuapā*: Let the wall rise again

Mr. Shaun Wriston – in progress

Postdoctoral Associates – Major Advisor

Dr. Brock Woodson (2006-2009) (now at University of Georgia)
Dr. Dan Hoover (2008-2009) (now at USGS)
Dr. Olivia Cheriton (2008-2012) (now at USGS)
Dr. Katharine Smith (2016-present)
Dr. Jonathan Whitney (2016-present)
Dr. Maxime Grand (2017)

Ph.D. Advisory Committees (OCN unless otherwise noted)

Ms. Yvonne Barkley (Marine Biology)
Dr. Christina Bradley (PhD 2013)
Dr. Rebecca Briggs (PhD 2011)
Dr. Richard Coleman (Biology) (PhD 2019)
Ms. Chelsea Counseil (PhD 2018)
Dr. Patrick Drupp (PhD 2015)
Dr. Jamison Gove (PhD 2013)
Dr. Iuri Herzfeld (PhD 2011)
Ms. Danielle Hull
Ms. Kaleonani Hurley (Zoology)
Dr. Christopher Jury (PhD 2016)
Dr. Sam Kahang (PhD 2006)
Ms. Lucy Knor
Dr. Astrid Leitner (PhD 2018)
Dr. Sherril Leon Soon (PhD 2017)
Ms. Kanoe Morishige
Dr. Jennifer Murphy (PhD 2012)
Ms. Krissy Remple
Dr. Michael F. Richlen (Department of Zoology) (PhD 2018)
Dr. Yoshimi Rii (PhD 2015)
Ms. Kirstin Thompson
Mr. Seth Travis
Mr. Eric Tong
Dr. Jamie Sziklay-Caldwell (Department of Biology) (PhD 2017)
Dr. Katharine Smith (PhD 2016)
Dr. Alison Stimpert (PhD 2009) (Department of Zoology)
Dr. Rebecca Wagner (Education) (PhD 2019)
Ms. Gabrielle Weiss
Dr. Jonathan Whitney (Department of Biology) (PhD 2016)
Dr. Johanna Wren (PhD 2016)

Ph.D. PQE/Comprehensive Exam Committees (OCN unless otherwise noted)

Dr. Lydia Baker (PhD 2017)
Ms. Anamica Bedi de Silva
Dr. Christina Bradley (PhD 2013)
Dr. Rebecca Briggs (PhD 2011)
Dr. Anela Choy (PhD 2012)
Dr. Fabio C DeLeo (PhD 2012)
Dr. Patrick Drupp (PhD 2015)
Dr. Jamison Gove (PhD 2013)
Dr. Brittany Graham (PhD 2007)
Dr. Iuri Herzfeld (PhD 2011)
Ms. Danielle Hull
Dr. Chris Jury (PhD 2016)
Ms. Lucy Knor
Ms. Morgan Linney
Dr. Astrid Leitner (PhD 2018)
Dr. Jennifer Murphy (PhD 2012)
Ms. Jessica Perelman
Ms. Krissy Remple
Dr. Shimi Rii (PhD 2015)
Dr. Rebecca Simpson (PhD 2015)
Dr. Katharine Smith (PhD 2016)
Dr. Alison Stimpert (PhD 2009) (Department of Zoology)
Ms. Alma Carolina Castillo Trujillo (PhD 2018)
Ms. Rebecca Wagner (Education)
Ms. Gabrielle Weiss
Dr. Johanna Wren (PhD 2015)
Ms. Michele Yungbluth (PhD 2016)

M.S. Advisory Committees (OCN unless otherwise noted)

Ms. Christina Bradley (MS 2009)
Ms. Anela Choy (MS 2008)
Ms. Susan Jeanette Clark (MS 2013)
Ms. Pollyanna Fisherpool (Department of Zoology) (MS 2015)
Ms. Kristen Fogaren (MS 2010)
Mr. Conor Jerolmon (MS 2016)
Ms. Shilpa Lal
Mr. Sean Mahaffey
Mr. William Misa (MS 2012)
Ms. Paula Moehlenkamp (MS 2018)
Mr. Chris Ostrander (MS 2007)
Ms. Lisa Oswald (MS 2009)
Ms. Sitara Palecanda (Marine Biology)
Ms. Jessica Perelman

Mr. Jeff Sevadjan (MS 2008)
Ms. Victoria Sindorf (MS 2018)
Ms. Rachel Solomon (MS 2008)
Ms. Maria Steadman
Ms. Amanda Timmerman (MS 2012)
Ms. Sarah Tucker (Marine Biology)
Ms. Kanoe Ulalani (Marine Biology)
Mr. Oliver Vetter (MS 2007)
Ms. Carleigh Vollbrecht
Ms. Kim Weersing (MS 2007)
Mr. Charles (Chip) Young (MS 2011)

Global Environmental Sciences Undergraduate Program Advisees

Mr. Brandon D'Andrea (BS 2015)
Ms. Ghizlane Ahrouch (BS 2009)
Ms. Christine Babiano (BS 2015)
Ms. Lindsey Benjamin (BS 2010)
Mr. Kyle Bosworth (BS 2008)
Ms. Shandy Buckley (BS 2009)
Ms. Erin Dougherty
Ms. Carla Marie Esquivel
Ms. Julia Fiedler (BS 2011)
Ms. Maya Galante
Mr. Philippe Galicinao
Mr. Shaun Giancaterino (BS 2010)
Ms. Brittany Graham (BS 2008)
Ms. Reagan Grant (BS 2011)
Mr. Michael Gray (BS 2010)
Mr. David Hashisaka (BS 2015)
Ms. Cherryle Heu
Ms. Olivia Hughes
Ms. Renee Lee-Agcaoili
Ms. Ariel Lorenzen (BS 2018) – External Thesis Reviewer
Mr. Daniel McCoy (BS 2011)
Ms. Lauren Mathews (BS 2016)
Ms. Harlee Meyers
M. Dino Nastasi
Ms. Velvet Park (transfer)
Ms. Adrienne Poulain (BS 2012)
Mr. Chase Roberts (BS 2012)
Ms. Camilla Tognacchini (BS 2015)
Ms. Amanda Vinson (BS 2010)
Mr. Shaun Wriston
Ms. Maika Yanagishita
Ms. Eleanor Yuan

Hollings Scholar Advisees

Ms. Diana Lopera

Visiting International Students

Ms. Violaine Piton (2013) (Institut Mediteranneen D'Oceanologie (MIO) Marseille, France)

Department of Defense Military to Civilian Transition Program

Mr. Tucker Hull (2019)

Visiting Undergraduate Student Mentoring

Mr. Olowatoberu (Tobe) Thomas (San Francisco State University) (2005)

Mr. Daren Martin, C-MORE Scholar (Windward Community College) (2013-present)

Ms. Gabrielle Jensen, DePauw University, Indiana (winter quarter 2017)

High School Students Advising

Ms. Clarissa Honeker Mid Pacific Institute (2013-2017)

Mr. Charles McManus Mid Pacific Institute (2017)

ii. University of California Santa Cruz

Graduate Students – Major Advisor (Thesis and dissertation titles listed previously)

Dr. Olivia Cheriton (PhD 2008)

Dr. Anna Pfeiffer-Herbert (MS 2005)

Graduate Student Advisory Committees

Mr. Arnold Ammann (MS 2002)

Dr. Meredith Armstrong (PhD 2008)

Ms. Kristen Blackhart (MS 2005)

Dr. Olivia Cheriton (PhD 2008)

Dr. Jared Figurski (PhD 2010)

Mr. Spencer Fire (MS 2004)

Ms. Theresa Ish (MS 2004)

Dr. Dawn Osborn (PhD 2005)

Ms. Anna Pfeiffer-Hoyt (MS 2005)

Ms. Lindsay Starrett (MS 2010)

Dr. Andi Stephens (PhD 2007)

Ms. Andrea VanderWoude (PhD 2007)

Postdoctoral Associates

Dr. Shaun Johnston (now at Scripps)

Dr. Curt Storlazzi (now at USGS)

iii. Undergraduate, Graduate and Postdoctoral Advisors

Professor William E. Odum (University of Virginia, Department of Environmental Science) (deceased)

Professor Eileen E Hofmann (Old Dominion University, Center for Coastal Physical Oceanography)

Dr. Percy L Donaghay (University of Rhode Island, Graduate School of Oceanography)

SERVICE

Department of Oceanography, University of Hawaii at Manoa, Service

- 2018-2019 Search Committee Three Faculty Members Department of Oceanography
- 2019 Search Committee for Oceanography Faculty
- 2017-2018 Departmental Personnel Committee - (Elected by Department Faculty)
- 2016-2017 Departmental Personnel Committee - (Elected by Department Faculty)
- 2015-*present* Joint Institute for Marine and Atmospheric Research (JIMAR) Senior Fellow
- 2003- *present* Global Environmental Science Undergraduate Program Faculty
- 2006-*present* Steering Committee: Global Environmental Sciences Undergraduate Program
- 2014-*present* The Committee for Women in SOEST, Charter Member
- 2012-*present* The Committee for Women in Oceanography, Charter Member
- 2014-2015 Associate Chair, Department of Oceanography
- 2012-2015 Physical Oceanography Division Head
- 2014-2015 Chair Space Committee Department of Oceanography
- 2015 Search Committee Member: Permanent institutional and student support position
- 2014 Graduate Student Handbook, Student Presentation Committee
- 2013 New Degree Committee
- 2011-2012 Teaching Evaluation Committee (TEC) - Chairperson
- 2011-2012 Asian-Pacific Economic Cooperation (APEC) Committee
- 2012-2013 Departmental Personnel Committee - (Elected by Department Faculty)
- 2011-2012 Departmental Personnel Committee - (Elected by Department Faculty)
Respectfully declined.
- 2010-2011 Departmental Personnel Committee - (Elected by Department Faculty)
- 2009-2010 Departmental Personnel Committee - Associate Chair (Elected by Department Faculty)

- 2007-2008 Departmental Personnel Committee (Elected by Department Faculty)
Respectfully declined
- 2006-2008 Chairperson - Graduate Student Handbook Committee
- 2006 Search Committee: Marine Biogeochemistry Position
- 2005-2006 Departmental Personnel Committee (Elected by Department Faculty)
- 2004-2005 Departmental Personnel Committee (Elected by Department Faculty)
- 2004 Ocean Sciences Bowl, Science Judge (Volunteer)

School of Ocean and Earth Science and Technology (SOEST), Service

- 2019 Hawaii Natural Energy Institute R3/R4 Associate/Assistant Researcher
Selection Committee
- 2019 Hawaii Institute of Marine Biology Director, Search Advisory Committee
- 2017 SOEST faculty workload policy task force
- 2014 - 2015 Co-Chair, Kikowaena Scholarship Campaign
- 2013 - 2015 Hawaii Institute of Marine Biology Director, Search Advisory Committee
- 2012 - 2015 SOEST Research Council
- 2017-*present* Director Pacific Ocean Observing System (PacIOOS) Wave Buoy Group
- 2007-*present* Director Pacific Ocean Observing System (PacIOOS) Near Shore Sensor Group
- 2007-2010 Pacific Ocean Observing System (PacIOOS) Steering Committee
- 2006-2010 Advisory Committee: Hawaii Ocean Observing System (HiOOS)
- 2007-2008 Search Committee Member: Six Tenure Track Ocean Observing Positions
- 2006 Invited lecturer, SOEST *a`Imi`Ike Summer Institute*
- 2005 - 2006 Selection Committee: SOEST Young Investigator Program
- 2003 SOEST Public Display, Aloha Towers (Volunteer)
- 2002 SOEST Open House, “Ask a Scientist” session (Volunteer)

University of Hawaii at Manoa, Service

2016 - 2017 Tenure and Promotion Review Committee

2013 - *present* Marine Biology Graduate Program Faculty Member

National/International Service

2017-2018 Lead: National Coastal Ecosystem Moorings Steering Committee

2017 Alliance for Coastal Technologies, Hyperspectral Sensor Steering Committee

2013 - 2015 California SeaGrant Awards Committee

2011 - 2014 GEOHAB: IOC-SCOR (Global Ecology and Oceanography of Harmful Algal Blooms: International Oceanographic Commission – Scientific Committee on Oceanic Research). Subcommittee for stratified systems.

2010 Executive Committee: Chair, Central California Region. Ocean Margin Ecosystems Group for Acidification Studies (OMEGAS).

2004 - 2009 Scientific Executive Committee, Layered Organization in the Coastal Ocean (LOCO) Office of Naval Research

2006 Office of Naval Research (ONR) Working Group on Small-scale Lateral Mixing

2006 Steering Committee, Partnership for Interdisciplinary Studies of Coastal Oceans

2005 - 2006 Oversight Committee, Office of Naval Research West Coast Programs

2004 Grant Proposal Liaison Team,
Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO)

2003 California Representative, Regional Observing Systems Summit, Washington, DC

2002 Ocean.US Advisory Panel, Integrated Ocean Observing System, Warrenton, VA

2001 US ECOHAB Review Panel, Washington DC

Reviewer - Journal Articles

National Oceanic and Atmospheric Administration. Kona Integrated Ecosystem Assessment Initiative, Marine Ecology Progress Series, Continental Shelf Research, Deep Sea Research, Estuaries and Coasts, Journal of Experimental Biology, Limnology and Oceanography, Journal of Marine Research, Stanford Journal of Law, Science, and Policy, Proceedings of the National Academy of Sciences, Limnology and Oceanography – Methods, Ecology, Journal of Plankton Research

Reviewer - Proposals

National Science Foundation (NSF), National Science Foundation, Polar Ocean Postdoctoral Program, NOAA Coastal Services Center: Integrated Ocean Observing System (IOOS), NOAA Coastal Ocean Program, Ecology and Oceanography of Harmful Algal Bloom (ECOHAB) program

Guest Editor

- 2008-2010 *Continental Shelf Research* Special Issue: The Ecology and Oceanography of Thin Plankton Layers. Sullivan JM, MA McManus and PL Donaghay (Eds). Vol 30(1). January 2010.
- 2011-2013 *Deep Sea Research Special Issue: Harmful Algal Blooms (HABS) in stratified systems.* Raine R, H Yamazaki, MA McManus and E Berdelet.

HONORS & ACHIEVEMENTS

- 2019 Established a University of Hawaii Commission on the Status of Lesbian, Gay, Bisexual, Transgender and Intersex (LGBTI) Equality Safe Zone
- 2018 Nominated for the University of Hawaii at Manoa Graduate Council's Peter V. Garrod Distinguished Graduate Mentoring Award.
- 2017 Nominated for the University of Hawaii at Manoa Graduate Council's Peter V. Garrod Distinguished Graduate Mentoring Award.
- 2016 Nominated for the University of Hawaii at Manoa Excellence in Teaching Award
- 2014 Nominated for the University of Hawaii at Manoa Excellence in Teaching Award
- 2012 Nominated for the University of Hawaii at Manoa Excellence in Teaching Award (by 24 separate students and faculty)
- 2007-2009 **SOEST Faculty Evaluation – Oceanography Department**
I received the highest total ranking, scoring 27 points on a 25-point scale (108%). In the 2007-2009 evaluation cycle, I was the only faculty member to score 27 points.
- 2005-2006 **SOEST Faculty Evaluation – Oceanography Department**
I received the highest total ranking, scoring 26 points on a 25-point scale (104%). In the 2005-2006 evaluation cycle, I was one of two faculty members to score 26 points.
- 2005-2006 Aldo Leopold Leadership Fellow

OCEANOGRAPHIC CRUISES & FIELD RESEARCH

- 1994 Seward Johnson/Sea Link submersible cruise. Gulf of Mexico (NURP)
- 1995 Gamma submersible cruise. Lee Stocking Island, Bahamas (NURP)
- 1996 Thin layers instrument testing. East Sound, WA (ONR)
- 1996 Holographic camera instrument testing. East Sound, WA (NSF)
- 1996 Thin layers instrument testing. East Sound, WA (ONR)
- 1997 Global Ocean Ecosystem Dynamics GLOBEC cruise. Georges Bank
- 1997 Thin layers fieldwork. East Sound, WA (ONR)
- 1998 Fjord circulation experiment. East Sound, WA (ONR)
- 1998 Thin layers experiment. East Sound, WA (ONR)
- 1999 Instrument development & testing. Narragansett Bay, RI (NOPP)
- 2000 Instrument development & testing. Narragansett Bay, RI (NOPP)
- 2001 Instrument development & testing. East Sound, WA (NOPP)
- 2001 US NAVY diver-visibility cruises. Gulf of Mexico (NOPP)
- 2002 COESTL acoustic and optic experiment (I). Gulf of Mexico (ONR)
- 2002 COESTL acoustic and optic experiment (II). Newport, OR (ONR)
- 2002 COESTL acoustic and optic experiment (III). Monterey Bay, CA (ONR)
- 2003 Coral Larval Transport Experiment (I). Maui, Hawaii (USGS)
- 2003 COESTL acoustic and optic experiment (IV). Santa Barbara, CA (ONR)
- 2003 Coral Larval Transport Experiment (II). Maui, HI (USGS)
- 2003 AOSN II (I) shelf circulation experiment. Monterey Bay, CA (ONR)
- 2003 AOSN II (II) shelf circulation experiment. Monterey Bay, CA (ONR)
- 2004 Layered Organization in the Coastal Ocean (LOCO) field test. Monterey Bay, CA (ONR)
- 2005 Physical oceanography & mesopelagic boundary layer cruises (I). Ko'Olina, Oahu, HI (ONR)
- 2005 Surface drifter instrument testing. Kaneohe Bay, Oahu, HI (Sea Grant)
- 2005 Layered Organization in the Coastal Ocean (LOCO) cruises, Monterey Bay, CA (ONR)
- 2006 Hydrographic Assessments. Kaneohe Bay, Oahu, HI (Sea Grant)
- 2006 Physical oceanography & mesopelagic boundary layer cruises (II). Waianae, Oahu, HI (ONR)
- 2006 PISCO summer course cruises (I). Monterey Bay, CA (GBMF & DLPF)
- 2006 Layered Organization in the Coastal Ocean (LOCO) cruises, Monterey Bay, CA (ONR)
- 2007 PISCO Coupled biological-physical experiment cruises. Monterey Bay, CA (GBMF & DLPF)
- 2008 PISCO summer course cruises (II). Monterey Bay, CA (GBMF & DLPF)
- 2009 Autonomous profiler deployment. Honolulu, Oahu, HI (NSF)
- 2009 Physical oceanography & mesopelagic boundary layer cruises (III). Waianae, Oahu, HI (ONR)
- 2010 Physical oceanography & mesopelagic boundary layer cruises (IV). Waianae, Oahu, HI (ONR)
- 2010 Lateral mixing experiment cruises (I). Monterey Bay, CA (NSF)
- 2010 Lateral mixing experiment cruises (II). Monterey Bay, CA (NSF)
- 2013 Sea Water Air Conditioning (SWAC) monitoring. Mamala Bay, HI
- 2014 Sea Water Air Conditioning (SWAC) monitoring. Mamala Bay, HI
- 2014 Lanai Coastal Sediment Study, Lanai, HI (Conservation International)
- 2015 Sea Water Air Conditioning (SWAC) monitoring. Mamala Bay, HI
- 2016 Sea Water Air Conditioning (SWAC) monitoring. Mamala Bay, HI
- 2016 Guam Ecological Collaboratorium, Pago Bay (NSF)
- 2016 Alliance for Coastal Technologies, Nutrient Sensor Challenge, Coconut Island, HI (NOAA)
- 2016 Sea Water Air Conditioning (SWAC) monitoring. Mamala Bay, HI

- 2017 Halau Ola Honua. Mamala Bay, HI
- 2018 Sea Water Air Conditioning (SWAC) monitoring. Mamala Bay, HI
- 2019 Sea Water Air Conditioning (SWAC) monitoring. Mamala Bay, HI