

CURRICULUM VITAE

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Education

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

Professional History

- 2020-2023, 2024-present *Chair*
Department of Oceanography, University of Hawai'i at Mānoa
- 2022-present *Director, Uehiro Center for the Advancement of Oceanography*
Department of Oceanography, University of Hawaii at Manoa
- 2020-2023 *Graduate Student Chair*
Department of Oceanography, University of Hawai'i at Mānoa
- 2012-present *Professor of Oceanography*
Department of Oceanography, University of Hawai'i at Mānoa
- 2007-2012 *Associate Professor of Oceanography*
Department of Oceanography, University of Hawai'i at Mānoa
- 2003-2007 *Assistant Professor of Oceanography*
Department of Oceanography, University of Hawai'i at Mānoa
- 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

RESEARCH & SCHOLARLY ACTIVITIES

H-Index 46 (Google Scholar 11 March 2025)

i10 Index 80 (Google Scholar 11 March 2025)

Publications

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

Authors on publications from McManus lab are in order of contribution, unless senior author is denoted.*

I. Refereed publications in scholarly journals

In Preparation

Lensing B, C Tognacchini, K Frank, M Branco, K Pi'iohi'a, K Pizarro, K Koutubetey, M Lopez-Guzman, C Capeluzzo, C Callan, CA Beebe, Y Rii, MA **McManus***, RA Alegado*. **In Preparation.** Microbial Response to a Stochastic Event in a Tropical Estuarine System. *Applied Environmental Microbiology*

Wriston SA, P Mochlenkamp, G Walker, V Park, MM Iwamoto, AB Neuheimer, MA **McManus***. **In Preparation.** Trends in Coastal Ocean Conditions on O'ahu Hawai'i's Urban Shores. *Oceanography*. Estimated submission date March 2024.

Submitted

Summers T, S Wriston, MA **McManus***. **Submitted.** Tsunami Induced Oscillations Along the South Shore of O'ahu, Hawai'i. *Oceanography*.

Published

Comfort C, C Ostrander, C Nelson, D Karl, MA **McManus***. **In press 2024.** Picocyanobacteria composition tracks an island mass effect on chlorophyll and nutrients near O'ahu, Hawai'i. *Limnology & Oceanography*.

Moehlenkamp P, E Franklin and MA **McManus***. **2024.** Nu'upia Ponds' Water Circulation Characteristics: Exploring Water Exchange and Residence Time for Marine Ecosystem Management. *Journal of Sustainability*. 16, 7159. doi.org/10.3390/su16167159

Bullington JA, AR Golder, GF Steward, MA **McManus**, AB Neuheimer, BT Glazer, OD Nigro, CE Nelson. **2022.** Refining real-time predictions of *Vibrio vulnificus* concentrations in a tropical urban estuary by incorporating dissolved organic matter dynamics. *Science of the Total Environment* 829 (2022) 154075. <https://doi.org/10.1016/j.scitotenv.2022.154075>

Counsell CWW, RR Coleman, SS Lal, BW Bowen, EC Franklin, AB Neuheimer, BS Powell, RJ Toonen, MJ Donahue*, MA Hixon*, MA **McManus***. **2022.** Opening the black box: interdisciplinary

analysis of larval dispersal of a coral reef fish. *Marine Ecology Progress Series*. Vol. 684: 117–132. <https://doi.org/10.3354/meps13971>

Hixon M, B Bowen, R Coleman, C Counsell, M Donahue, E Franklin, J Kittinger, MA **McManus**, R Toonen. **2022**. Fish Flow: Following Fisheries from Spawning to Supper. *Frontiers in Ecology and the Environment*. 20(4): 247–254, doi:10.1002/fee.2449

Yanagihara AA, MA **McManus**, JC Sevadjian, GO Walker, CL Wilcox, K Hurwitz, A Lee, R Kadler, BS Powell, K Thompson. **2022**. *Alatina alata* (box jellyfish) migration triggers in Hawaii: Lunar and physical oceanographic processes. *Regional Studies in Marine Science*. <https://doi.org/10.1016/j.rsma.2022.102380>

Dierssen HM, S Ackleson, K Joyce, E Hestir, A Castagna, S Lavender, MA **McManus***. **2021**. Living up to the Hype of Hyperspectral Aquatic Remote Sensing: Science, Resources and Outlook. *Frontiers in Environmental Science*. doi: 10.3389/fenvs.2021.649528

McManus* MA, AT Greer, AVH Timmerman, JC Sevadjian, CB Woodson, T Cowen, DA Fong, S Monismith, OM Cheriton. **2021**. Characterization of the biological, physical and chemical properties of a toxic thin layer in a temperate marine system. *Marine Ecology Progress Series*. Vol. 678:17-35. <https://doi.org/10.3354/meps13879>

Penninck, SB, RM Lopes, JF Lima, MA **McManus***. **2021**. Thin layers in the coastal zone of Ubatuba, Brazil: Mechanisms of formation and dissipation. *Limnology and Oceanography*. 66: 558-574. doi: 10.1002/lno.11623

Smith KA, JL Whitney, MA **McManus***, J Lecky, A Copeland, DR Kobayahi, JM Gove. **2021**. Physical mechanisms driving biological accumulation in surface lines on coastal Hawaiian waters. *Continental Shelf Research*. 230. <https://doi.org/10.1016/j.csr.2021.104558>

Vollbrecht C, P Moehlenkamp, J Gove, AB Neuheimer, MA **McManus***. **2021**. Long term presence of the island mass effect at Tiputa Channel, Rangiroa Atoll. *Frontiers in Marine Science*. 7:595294. doi:10.3398/fmars.2020.595294

Whitney J, JM Gove, MA **McManus***, KA Smith, J Lecky, P Neubauer, JE Phipps, EA Contrearras, DR Kobayashi, GP Asner. **2021**. Surface slicks are pelagic nurseries for many ocean species. *Scientific Reports*. (2021) 11:3197. <https://doi.org/10.1038/s41598-021-81407-0>

Wriston S, G Walker, MA **McManus***, S Ellis, F Langenberger, M Iwamoto. **2021**. PacIOOS Water Quality Sensor Partnership Program. *Frontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, *A Supplement to Oceanography* 34(4): 66–67 <https://doi.org/10.5670/oceanog.2021>.

Winter KB, YM Rii, F Reppun, K DeLaforge Hintzen, RA Alegado, BW Bowen, LL Bremer, M Coffman, JL Deenik, MJ Donahue, KA Falinksi, KL Frank, EC Franklin, N Kurashima, NK Lincoln, E Madin, MA **McManus**, C Nelson, R Okano, A Olegario, K Oleson, P Pascua, MR Price, MAJ Rivera, K Rodgers, C Sabine, CM Smith, T Ticktin, A Hewitt, R Kaluhiwa, M Cypher, JA Leong, B Thomas,

- K Kekuewa, K Kukea-Shultz, H Kawelo, K Kotubetey, B Neilson, J Tonimoto, T Lee, RJ Toonen. **2020.** Collaborative research to inform adaptive comanagement: A framework for the Heʻeia National Estuarine Research Reserve. *Ecology and Society*. 25(4):15. <https://www.ecologyandsociety.org/vol25/iss4/art15/>
- Winter KB, N Kekuewa Lincoln, F Berkes, RA Alegado, N Kurashima, KL Frank, P Pascua, YM Rii, F Reppun, ISS Knapp, WC McClatchey, T Ticktin, C Smith, EC Franklin, K Oleson, MR Price, MA **McManus**, MJ Donahue, KS Rodgers, BW Bowen, CE Nelson, B Thomas, J-A Leong, EMP Madin, MJ Rivera, KA Falinski, LL Bremer, JL Deenik, SM Gon III, B Neilson, R Okano, A Olegario, B Nyberg, A Kawelo, K Kotubetey, J Kukea-Shultz and RJ Toonen. **2020.** Ecomimicry in Indigenous resource management: optimizing ecosystem services to achieve resource abundance, with examples from Hawaiʻi. *Ecology and Society*. 25 (2):26. <https://www.ecologyandsociety.org/vol25/iss2/art26/>
- 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*. <https://doi.org/10.3389/fmars.2019.00180>
- Comfort C, G Walker, MA **McManus***, A Fujimura, CE Ostrander and T Donaldson. **2019.** Physical dynamics of the reef flat, channel, and fore reef areas of a fringing reef embayment: An oceanographic study of Pago Bay, Guam. *Regional Studies in Marine Science*. Vol 31. <https://doi.org/10.1016/j.rsma.2019.100740>
- 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. **2019.** Prey-sized plastics are invading larval fish nurseries. *Proceedings of the National Academy of Sciences (PNAS)*. <https://doi.org/10.1073/pnas.1907496116>
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- 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*. 32(3): 38–49. <https://doi.org/10.5670/oceanog.2019.309>
- 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*. 32(3): 72–81. <https://doi.org/10.5670/oceanog.2019.313>
- Moehlenkamp P, CK Beebe , MA **McManus***, AH Kawelo, K Kotubetey, RA Alegado. **2019.** Kū Hou Kuapā: Cultural Restoration Improves Water Budget and Water Quality Dynamics in Heʻeia Fishpond.

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Wong-Ala JATK, CM Comfort, JM Gove, MA Hixon, MA **McManus**, BS Powell, JL Whitney, AB Neuheimer. **2018**. How life history characteristics and environmental forcing 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**. Persistent spatial structuring 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>

Comfort C, K Smith, MA **McManus***, A Neuheimer, J Sevadjian C Ostrander. **2017**. Observations of the Hawaiian mesopelagic boundary layer community in daytime and nighttime habitats using estimated backscatter. *AIMS Geosciences special issue: Coastal Dynamics Research*. 3(3): 304-326. doi: 10.3934/geosci.2017.3.304 (<http://www.aimspress.com/article/10.3934/geosci.2017.3.304/fulltext.html>)

McCoy D, MA **McManus***, K Kotubetey, AH Kawelo, CW Young, B D'Andrea, KC Ruttenberg, RA Alegado. **2017**. Large scale climactic effects on traditional Hawaiian fishpond aquaculture. *PLOS One*. 12(11): e0187951. <https://doi.org/10.1371/journal.pone.0187951>

Gove JM, MA **McManus***, AB Neuheimer, JJ Polovina, JC Drazen, CR Smith, MA Merrifield, AM Freidlander, JS Ehses, CW Young, AK Dillon, GJ Williams. **2016**. Near-island biological hotspots in barren ocean basins. *Nature Communications*. Accepted 30 Dec 2015. 7:10581. doi: 10.1038/ncomms10581

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Gove JM, GJ Williams, MA **McManus***, JS Clark, JS Ehses. **2015**. Coral reef benthic regimes exhibit non-linear threshold responses to natural physical drivers. *Marine Ecology Progress Series*. Vol. 522: 33–48.

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Ryan, JP, MA **McManus**, RM Kudela, M Lara Artigas, JG Bellingham, FP Chavez, G Doucette, D Foley, M Godin, JBJ Harvey, R Marin III, M Messie, C Mikulski, T Pennington, F Py, K Rajan, I Shulman, Z Wang and Y Zhang. **2014**. Boundary influences on HAB phytoplankton ecology in a stratification-enhanced upwelling shadow. *Deep Sea Research II. Special Issue: Harmful Algal Blooms in Stratified Systems*. Raine R, E Berdalet, MA **McManus**, H Yamazaki (Eds.). 101:63-79.

Sevadjian JC, MA **McManus***, JP Ryan, AT Greer, RK Cowen, CB Woodson. **2014**. Across-shore variability in plankton layering and abundance on the northern Monterey Bay inner shelf. *Continental Shelf Research*. 72:138-151.

Timmerman AVH, MA **McManus***, OM Cheriton, RK Cowen, AT Greer, RM Kudela, KC Ruttenburg and JC Sevadjian. **2014**. Hidden thin layers of toxic diatoms in a coastal bay. *Deep Sea Research II. Special Issue: Harmful Algal Blooms in Stratified Systems*. Raine R, E Berdalet, MA **McManus**, H Yamazaki (Eds.). 101: 129–140.

Benoit-Bird KJ, EL Shroyer, MA **McManus**. **2013**. A critical scale in plankton aggregations across coastal ecosystems. *Geophysical Research Letters*. Vol 40: 1-7, doi:10.1002/grl.50747.

Gove JM, G Williams, MA **McManus***, S Heron, S Sandin, O Vetter. **2013**. Quantifying climatological ranges and anomaly frequencies for Pacific Island Reef Ecosystems. *PLOS One*. Vol 8(4) 1-14. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0061974>.

Greer AT, RK Cowen, CM Guigand, MA **McManus**, JC Sevadjian, AVH Timmerman. **2013**. Relationships between phytoplankton thin layers and the fine-scale spatial distributions of two trophic levels of zooplankton *Journal of Plankton Research*. 35(5): 939 – 956.

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Benoit-Bird KJ, MA **McManus**. **2012**. Bottom-up regulation of a pelagic community through aggregations – not biomass. *Biology Letters*. doi: 10.1098/rsbl.2012.0232

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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.

Sevadjian, JS, MA **McManus***, KJ Benoit-Bird, and K Selph. **2012**. Shoreward advection of phytoplankton and vertical re-distribution of zooplankton by episodic near-bottom water pulses on an insular shelf: Oahu, Hawaii. *Continental Shelf Research*. Volumes 50-51, 1 – 15.

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Cowen RK, AT Greer, CM Guigand, MA **McManus**, J Sevadjian, AVH Timmerman, CB Woodson, SG Monismith, DA Fong. **2012**. Physical processes driving finescale biological patchiness in an inner shelf, high productivity environment: Acoustic and optical measurements. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

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.

Fong DA, CB Woodson, RJ Moniz, SG Monismith, SK Willis, MT Stacey, MA **McManus**. **2012**. Connecting local and regional scale hydrodynamics in Monterey Bay. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

Greer AT, RK Cowen, C Guigand, MA **McManus**, J Sevadjian, AVH Timmerman. **2012**. Small scale changes in gelatinous zooplankton community during upwelling and relaxation events. 2012 Ocean Sciences Meeting. Salt Lake City, Utah.

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.

Pawlak G, M Ericksen, MA **McManus**, A Rocheleau, L Tuthill. **2011**. Real-time ocean water quality monitoring for the Sand Island Outfall. OCEANS 2011. Kona, Hawaii.

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.

Galindo HM, AS Pfeiffer-Herbert, MA **McManus***, Y Chao, F Chai, S Palumbi. **2010**. Seascape genetics along a steep cline: Using genetic patterns to test predictions of coastal marine larval dispersal. 2010 Ocean Sciences Meeting, Portland Oregon.

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.

Tomlinson, M, E DeCarlo, M **McManus**, G Pawlak, G Steward, F Sansone, O Nigro, RE Timmerman, J Patterson, S Jaramillo-Uribe. **2010**. Monitoring in the Ahupua'a. Monitoring from the summit to the sea. Seventh National Monitoring Conference, Denver, Colorado.

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.

Ostrander CE, B Taylor, W Au, B Brooks, E DeCarlo, P Flament, C Fletcher, M Haws, K Holland, R Lukas, D Luther, M **McManus**, D Okimoto, G Pawlak, J Potemra, B Powell, A Shor, G Steward, M Workman. **2009**. Developing the Hawaii and Pacific Islands Ocean Observing Systems. Oceans 09. Venice, Italy.

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 Sevadjian, 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.

Ostrander CE, MA **McManus***, RF Solomon, EH De Carlo, FT Mackenzie. **2006**. Spatial and temporal variability of freshwater plumes derived from storm events in a semi-enclosed estuarine bay system: Kaneohe Bay, Hawaii. Sixth International Symposium on Stratified Flows. Australia.

De Carlo EN, R Solomon, C Ostrander, MA **McManus**, FT Mackenzie, MF Chung, L DeGelleke, C Sabline, R Feely. **2006**. Productivity and CO₂ exchange between the ocean and atmosphere in Kaneohe Bay, Hawaii, a subtropical coastal embayment. 2006 Goldschmidt Conference. Melbourne, Australia.

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.

Blackwell SM, M Moline, MA **McManus**, TM Johnston. **2004**. Bio-optical response to episodic upwelling in Monterey Bay, CA. The Ocean Optics XVII Conference. Fremantle, Australia.

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.

Johnston TM, MA **McManus***, O Cheriton. **2004**. Thin layer formation and breakdown in Monterey Bay. Ocean Sciences Meeting. Portland, Oregon.

Storlazzi CD, MA **McManus***, BE Jaffe, AS Ogston, ME Field. **2004**. Flow and particulate flux along a complex coral reef shoreline: West Maui, Hawaii. AGU. Portland, Oregon.

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.

McLaughlin B, MA **McManus***, G Griggs, D Croll, R Kudela, F Chavez, J Paduan, S Lonhart. **2004**. The Center for Integrated Marine Technologies (CIMT). ASLO. Honolulu, Hawaii.

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.

Dekshenieks 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.

V. Conference Sessions and Workshops

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| 2021 | Workshop Chair, the Alliance for Coastal Technologies Coastal Hyperspectral Best Practices Workshop. Remote during COVID-19 pandemic from Honolulu, HI. April 28, 29. |
| 2020 | Workshop Chair, the Alliance for Coastal Technologies Coastal Hyperspectral Algorithm Demonstration Workshop. Remote during COVID-19 pandemic from Honolulu, HI. May 20-22. |
| 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. Dolan T, **McManus MA. 2023.** Funding Research Through Philanthropy. Unlocking the Potential of Private Support. Vice Provost’s Lecture Series, University of Hawaii at Manoa, Honolulu, Hawaii.

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: Dekshenieks 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: Dekshenieks 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: Dekshenieks 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: Dekshenieks 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: Dekshenieks 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: Dekshenieks 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: Dekshenieks 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.

RESEARCH FUNDING

I. Current Research Support

Funding Agency: Integrated Ocean Observing System (IOOS®) Program, National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce
Project Title: Empowering Ocean Stakeholders: Advancing the Pacific Islands Ocean Observing System (PacIOOS)

Time Period: 2021 - 2026

Principal Investigators: **PI:** Iwamoto, **Co-PI:** Chen, Briggs, Cheung, Stopa, Flament, Luther, **McManus**, Powell, Potemra, Holland, Meyer, Colbert (UH Hilo), Ellis (MERIP), Hutchinson (NOAA)

Funding Agency: : Integrated Ocean Observing System (IOOS®) Program, National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce

Project Title: Enhancing ocean observing and data sharing infrastructure in the Pacific Islands through the Pacific Islands Ocean Observing System (PacIOOS)

Time Period: 12/1/2022–11/30/2024

Principal Investigators: **PI:** Iwamoto, **Co-PI:** **McManus**, Flament, Potemra, Holland, Meyer, Hutchinson, Watson, Young, Colbert (UHH)

Funding Agency: National Sea Grant Office (NSGO) and US Coastal Research Program (USCRP) National Oceanic and Atmospheric Administration (NOAA)

Project Title: In-Situ Detection of Fecal Indicators Enables Advanced Ocean Safety Forecasting

Time Period: 1/1/2023 – 12/31/2026

Principal Investigators: **PI:** Nelson, **Co-PI:** **McManus**, Lerner, Amato

Funding Agency: National Oceanic and Atmospheric Administration (NOAA), Department of Commerce

Project Title: Assessing Ecosystem Productivity in Support of Ecosystem-Based Fisheries Management in the Hawaiian Islands

Project Period: 09/01/2013-12/31/2024

Principal Investigators: **PI:** Gove (NOAA), **Co-PI:** Oleson (NOAA), Ruzicka (NOAA), Lecky (NOAA), Whitney (NOAA), **McManus** (UHM)

Funding Agency: State of Hawai'i Department of Health Clean Water Branch

Project Title: Circulation Study to Characterize the Residence Time and Environmental Properties of Coastal Waters in Pokai Bay, Waianae, O'ahu.

Time Period: 05/08/2024-05/07/2025

Principal Investigators: **PI:** **McManus**, **Co-PI:** Iwamoto

II. Past Research Support

Funding Agency: Defense Department, US Army Corps of Engineers

Project Title: Biodiversity Characterization, Water Quality Monitoring, Environmental Threshold Analysis, Pond and Sediment Volume Estimates, and Characterization of Water Exchange and Residence Time for Nu'upia Pond, Marine Corps Base Hawaii

Time Period: 9/27/2021 – 3/01/2024

Principal Investigators: **PI:** Franklin, **Co-PI:** McManus

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

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

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

Project Title: Pacific Islands Ocean Observing System (PacIOOS)

Project Period: 06/2016-05/2021

Principal Investigator: **PI** Iwamoto (UHM). **Co-Is:** McManus, Cheung, Flament, Holland, Luther, Potemra, Powell (all UHM). Colbert (UH Hilo).

#NA21NOS0120091

Funding Agency: Hawaii Department of Health, Clean Water Branch

Project Title: Automated Water Quality Monitoring in Ke'ehi Lagoon

Project Period: 01/01/2021-12/31/2022

Principal Investigators: **PI:** Iwamoto, **Co-PI:** McManus

Funding Agency: National Science Foundation (NSF)

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

Project Period: 10/2016-09/2021

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

Funding Agency: Office of Naval Research

Project Title: N000O14-17-1-2206 Subtask 6.3 SWAC Monitoring

Project Period: 7/1/2020-11/30/2021

Principal Investigator: **PI:** Rocheleau, **Co-PI** McManus

Funding Agency: State of Hawaii

Project Title: Subtask 6.3 SWAC Monitoring

Project Period: 7/1/2020-6/30/2022

Principal Investigator: **PI:** Rocheleau, **Co-PI** McManus

Funding Agency: Office of Naval Research

Project Title: Subtask 6.2 Ocean Modeling

Project Period: 6/2016-11/30/2021

Principal Investigator: **PI:** Rocheleau, **Co-PI** McManus, Powell

Funding Agency: Commerce Department, National NOAA Federal

Project Title: Enhancing disaster and climate resilience in the Republic of the Marshall Islands through improved disaster preparedness and infrastructure.

Project Period: 08/01/2020 - 11/15/2021

Principal Investigators: **PI:** Iwamoto, **Co-PI:** McManus

Funding Agency: Palau National Weather Service

Project Title: Enhancing disaster and climate resilience in the Republic of Palau through improved disaster preparedness and infrastructure.

Project Period: 08/01/2020 - 11/15/2021

Principal Investigators: **PI:** Iwamoto, **Co-PI:** McManus

Funding Agency: Hawaii Department of Health, Clean Water Branch

Project Title: Water Quality Sampling in Maunalua Bay

Project Period: 6/2019 – 6/2020

Principal Investigator: **PI:** McManus

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

Benefit to McManus (UHM): Postdoctoral support

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

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

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

Funding Agency: Office of Naval Research (ONR)

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

Project Period: 10/2013 - 11/2017

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

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

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

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

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)

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)

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

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

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

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

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

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

Project Period: 09/2009-08/2012

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 Program

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

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

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

Principal Investigators: **PI** Brian Taylor. **Co-PIs** Whit Au, Benjamin Brooks, Glenn Carter, Eric H DeCarlo, Yi-Leng Chen, Kwok Fai Cheung, ^[SEP]Pierre Flament, Charles Fletcher, Kim Holland, Doug Luther, Margaret McManus, Mark Merrifield, Chris Ostrander, ^[SEP]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

Principal Investigators: **PI** Taylor (UHM). **Co-PIs** Au, Brooks, Carter, DeCarlo, Chen, Cheung, ^[SEP]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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Principal Investigators: **PI** Donaghay (URI). **Co-PI McManus** (URI/UCSC)

Funding Agency: Office of Naval Research

Project Title: Large-scale physical forcing of thin layer dynamics

Project Period: 10/1999-10/2001

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

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 Research Results	OCN490	Undergraduate	4		100	A
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	*
Summer	2019	Halau Ola Honua – Bringing Native Hawaiian Students into Geosciences	OCN 199	Undergraduate	11		10	*
Fall	2019	Thesis Research	OCN499	Undergraduate	1		100	*
Spring	2020	Coupled Biological-Physical Oceanography	OCN680 OCN480	Graduate Undergraduate	8		5	*
Spring	2020	Undergraduate Thesis	OCN499	Undergraduate	1		100	*
Fall	2020	Undergraduate Thesis	OCN499	Undergraduate	1		100	*
Spring	2021	Communication of Research Results	OCN490	Undergraduate	19		100	A
Spring	2021	Undergraduate Thesis	OCN499	Undergraduate	1		100	*
Fall	2021	Directed Research	OCN699	Graduate	1		100	A
Fall	2021	Undergraduate Thesis	OCN499	Undergraduate	1		100	A
Spring	2022	Communication of Research Results	OCN490	Undergraduate	21		100	A
Spring	2022	Directed Research	OCN699	Graduate	1		100	*
Spring	2022	Directed Research	OCN699	Graduate	1		100	*
Spring	2022	Undergraduate Thesis	OCN499	Undergraduate	1		100	*
Summer	2022	Halau Ola Honua – Bringing Native Hawaiian Students into Geosciences	OCN 199	Undergraduate	11		10	*
Fall	2022	Directed Research	OCN699	Graduate	1		100	*
Fall	2022	Directed Research	OCN699	Graduate	1		100	*
Fall	2022	Undergraduate Thesis	OCN499	Undergraduate	1		100	*
Spring	2023	Directed Research	OCN699	Graduate	1		100	*
Spring	2023	Directed Research	OCN699	Graduate	1		100	*
Fall	2023	Directed Research (Sabbatical)	OCN699	Graduate	2		100	*
Spring	2024	Undergraduate Research (Sabbatical)	OCN399	Undergraduate	1		100	*
Spring	2024	Dissertation Research (Sabbatical)	OCN800	Graduate	2		100	*
Fall	2024	Dissertation Research	OCN800	Graduate	1		100	*

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

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*”

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

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

Ms. Paula Moehlenkamp (MS 2018) (UHM) 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 2019) (Co-advised with Dr. Anna Neuheimer) (UHM) Thesis Title: Contribution of Life History Characteristics to Larval Settlement and Connectivity of *Acanthurus triostegus* in Windward O'ahu

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.

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

Ms. Carleigh Vollbrecht (MS 2019) (UHM) Thesis Title: *Long term presence of the island mass effect in Tiputa, Channel, Rangiroa, French Polynesia.*

Ms. Christina comfort (in progress) (UHM) Thesis Title: *Aspects of the island mass effect and land-based pollution near O'ahu, Hawai'i*

Ms. Paula Moehlenkamp (in progress) (UHM) Thesis Title: *Impacts of science on conservation in Coastal Hawai'i's Waters.*

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”*

Mr. Shaun Wriston (BS 2020) Thesis Title: *“Trends in coastal ocean conditions on O'ahu, Hawai'i's urban shores”*

Ms. Diana Lopera (BS 2020) Thesis Title: *“Understanding change: Examining the effect of Ahupua'a restoration efforts on water circulation in loko i'ao He'eia, a native Hawaiian Fishpond.”*

Ms. Mariam Moreno (BS 2021) Thesis Title: *“Environmental influences on vertical picoplankton distributions in Mamala Bay, Oahu, Hawai'i”*

Ms. Olivia Hughes (BS 2021) Thesis Title: *“Coastal wave patterns of the Hawaiian Islands in relation to significant climate events”*

Mr. Peter Felicijan (BS 2024) Thesis Title: *“The Effects of Environmental Forcing on the Water Quality in Ke'ehi Lagoon O'ahu, Hawai'i”*

Postdoctoral Associates – Major Advisor

Dr. Brock Woodson (2006-2009) (Associate Professor University of Georgia)
Dr. Dan Hoover (2008-2009) (Oceanographer USGS)
Dr. Olivia Cheriton (2008-2012) (Oceanographer USGS)
Dr. Katharine Smith (2016-2019) (Oceanographer Makai Engineering)
Dr. Jonathan Whitney (2016-2019) (Marine Ecologist NOAA)
Dr. Maxime Grand (2017) (Assistant Professor Moss Landing Marine Laboratories)

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

Ms. Yvonne Barkley (Marine Biology) (PhD 2020)
Dr. Christina Bradley (PhD 2013)
Dr. Rebecca Briggs (PhD 2011)
Dr. Richard Coleman (Biology) (PhD 2019)
Ms. Chelsea Counsell (PhD 2018)
Dr. Patrick Drupp (PhD 2015)
Dr. Jamison Gove (PhD 2013)
Dr. Iuri Herzfeld (PhD 2011)
Ms. Danielle Hull
Dr. Kaleonani Hurley (Zoology) (PhD 2020)
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)
Dr. Krissy Remple (PhD 2021)
Dr. Michael F. Richlen (Department of Zoology) (PhD 2018)
Dr. Yoshimi Rii (PhD 2015)
Ms. Maria Steadmon
Ms. Kirstin Thompson (left program 2020)
Dr. Seth Travis (PhD 2020)
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)
Mr. Gordon Walker
Ms. Gabrielle Weiss (left program 2020)
Dr. Jonathan Whitney (Department of Biology) (PhD 2016)
Dr. Johanna Wren (PhD 2016)
Dr. Amanda Ziegler (Defense proxy) (PhD 2019)

Ph.D. PQE/Comprehensive Exam Committees (Oceanography 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)
Ms. Christina Comfort
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 (PhD 2021)
Dr. Astrid Leitner (PhD 2018)
Ms. Shannon McClish
Ms. Elizabeth Miller
Ms. Paula Moehlenkamp
Dr. Jennifer Murphy (PhD 2012)
Ms. Jessica Perelman (PhD 2022)
Dr. Krissy Remple (PhD 2021)
Dr. Shimi Rii (PhD 2015)
Dr. Rebecca Simpson (PhD 2015)
Dr. Katharine Smith (PhD 2016)
Ms. Maria Steadmon
Ms. Gabrielle Stedman
Dr. Alison Stimpert (PhD 2009) (Department of Zoology)
Ms. Alma Carolina Castillo Trujillo (PhD 2018)
Ms. Rebecca Wagner (Education)
Dr. Johanna Wren (PhD 2015)
Ms. Michele Yungbluth (PhD 2016)

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

Ms. Christina Bradley (MS 2009)
Ms. Jessica Bullington (MS 2021)
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 (MS 2019)
Mr. Sean Mahaffey (MS 2021)

Ms. Rayna McClintock
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 (PhD 2022)
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 2019)
Ms. Kim Weersing (MS 2007)
Mr. Charles (Chip) Young (MS 2011)

Uehiro Center for the Advancement of Oceanography

Ms. Eleanor Bates
Mr. Kyle Connor
Mr. Ryo Dobashi
Mr. Gordon Walker
Ms. Kate Feloy
Mr. Andrian Gajigan
Mr. Jacob Gunnrson
Ms. Amanda Laughlin
Ms. Rayna McClintock
Ms. Shannon Murphy

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. Carla Marie Esquivel
Mr. Peter Felicijan
Ms. Julia Fiedler (BS 2011)
Ms. Maya Galante
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. Cherry Heu (BS 2020)
Ms. Olivia Hughes (BS 2021)
Ms. Ariel Lorenzen (BS 2018)
Mr. Daniel McCoy (BS 2011)
Ms. Lauren Mathews (BS 2016)
Ms. Nicole Matthews
Ms. Harlee Meyers (BS 2018)
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 (BS 2020)
Ms. Eleanor Yuan (BS 2021)

Marine Option Undergraduate Program Advisees

Mr. Trey Summers (BS 2024 projected) Marine Option Program Thesis Title: “*Effects of Tsunamis on Sea Level Along the South Shore of Oahu, Using Real Time Observations From the Pacific Islands Ocean Observing System*”

Hollings Scholar Advisees

Ms. Diana Lopera (BS 2020)

Visiting International Students

Ms. Violaine Piton (2013) (Institut Mediteranneen D’Oceanologie (MIO) Marseille, France)
Ms. Silvana Simone Batista Penninck (1 September 2019 - 29 February 2020). University of São Paulo, Brazil

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)
Ms. Esme Kline Pitzer College (2017)

High School Students Advising

Ms. Clarissa Honeker Mid Pacific Institute (2013-2017)
Mr. Charles McManus Mid Pacific Institute (2017)
Mr. Thomas Steward Mid Pacific Institute (2023)

ii. University of California Santa Cruz

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

Dr. Olivia Cheriton (PhD 2008)
Ms. Anna Pfeiffer-Hoyt (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

Service to the Department of Oceanography, University of Hawaii at Manoa

2022-present	Director of the Uehiro Center for the Advancement of Oceanography
2023	Search Committee Band A Administrator Physical Oceanography Division, Department of Oceanography
2023	Search Committee Band A Administrator Marine Geology & Geochemistry Oceanography Division, Department of Oceanography
2022-2023	Search Committee Band B Administrator Uehiro Center for the Advancement of Oceanography
2021-present	Global Environmental Sciences Advisory Board
2021-present	Oceanography Fundraising Committee
2020-2023	Chair of the Department of Oceanography
2020-2023	Graduate Student Chair for the Department of Oceanography
2020-2023	Chair of the Friends of Oceanography Council
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)
2015-2017	Joint Institute for Marine and Atmospheric Research (JIMAR) Senior Fellow
2006-2020	Steering Committee: Global Environmental Sciences Undergraduate Program
2014-present	The Committee for WIS, Charter Member
2012-present	The Committee for WIO, 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
2013-2014	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)
2010-2011	Departmental Personnel Committee - (Elected by Department Faculty)
2009-2010	Departmental Personnel Committee - Associate Chair (Elected by Department Faculty)
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)
2003- <i>present</i>	Faculty Advisor, Global Environmental Science (GES) Undergraduate Program

Service to the School of Ocean and Earth Science and Technology (SOEST)

2022-2023	Chair Search Advisory Committee for the SOEST Director of Diversity Initiatives
2021-2023	Search Advisory Council SOEST Dean
2020-2023	SOEST Academic Council
2019-2020	Hawaii Natural Energy Institute R3/R4 Associate/Assistant Researcher Selection Committee
2019-2021	Hawaii Institute of Marine Biology Director, Search Committee
2017-2018	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 *The a`Imi`Ike Summer Institute introduces Native Hawaiian and other minority students to the geosciences.*

2005 - 2006 Selection Committee: SOEST Young Investigator Program

2004 - *present* Affiliate Faculty, Hawaii Institute of Marine Biology (HIMB)

2003 SOEST Public Display, Aloha Towers (Volunteer)

2002 SOEST Open House, “Ask a Scientist” session (Volunteer)

Service to the University of Hawaii at Manoa

2016 - 2017 Tenure and Promotion Review Committee

2013 - *present* Marine Biology Graduate Program Faculty Member

National/International Service

2024 National Academies of Sciences, Engineering and Medicine’s Decadal Survey of Ocean Sciences for the National Science Foundation Committee. Urban Seas and Coastal Oceans Research Priorities Panelist

2020-2021 Alliance for Coastal Technologies, Hyperspectral Sensor Best Practices Steering Committee

2019-2021 Co-Chief Scientist Alliance for Coastal Technologies

2017-2020 Alliance for Coastal Technologies, Hyperspectral Sensor Steering Committee

2017-2018 Lead: National Coastal Ecosystem Moorings Steering Committee

- 2013 - 2015 California Sea Grant Awards Committee
- 2011 - 2014 GEOHAB: IOC-SCOR (Global Ecology & 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

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

Reviewer - Proposals

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

ADDITIONAL HONORS & ACHIEVEMENTS

2020 Recipient of the Na Kama Kai Excellence in Mentorship Award by the Graduate
Student body of the Department of Oceanography

2019 Ambassador. Breaking Waves, Breaking Barriers: Celebrating Instrumental Role in
Ocean Science, Leadership, and Mentorship. Ocean Obs19.

2019 Established a University of Hawaii Commission Safe Area

2011 *Invited* – To attend the Journal of Experimental Biology Symposium on Integrating
Biomechanics and Ecology. Cambridge University, England.

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
 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,
 2016 Alliance for Coastal Technologies, Nutrient Sensor Challenge, Coconut Island, HI
 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 Halau Ola Honua. Mamala Bay, HI
 2019 Sea Water Air Conditioning (SWAC) monitoring. Mamala Bay, HI
 2023 Hulopoe Bay and Beach Assessment, Hulopoe Bay, Lanai, HI
 2024 Pokai Bay Circulation Study, Wainae, O'ahu, HI