

CURRICULUM VITAE

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I. EDUCATION

San Francisco State University	Biology, emphasis in Marine Biology	B.S. 1985
University of Hawaii at Manoa	Oceanography	M.S. 1992, PhD. 1999
University of Hawaii at Manoa	Oceanography	Post-doctoral Appt. 1998-2002

II. PROFESSIONAL HISTORY

Full Specialist, School of Ocean & Earth Sciences and Technology (SOEST), Univ. of Hawaii at Manoa (UHM), 8/19 to present

Associate Specialist, SOEST, UHM, 8/07 to 7/19.

Associate Graduate Faculty, Dept. of Oceanography, SOEST, UHM, 11/04 to present.

Cooperating Graduate Faculty, Marine Biology, UHM, 3/13 to present.

Assistant Specialist, SOEST, UHM, 12/02 – 7/07.

Director, SOEST Flow Cytometry Facility, UHM, 12/02 to present.

Instructor, Dept. of Oceanography, SOEST, UHM, *Academic Years Spring 2010 through Fall 2013*. Co-teach in Science of the Sea (OCN 201), Aquatic Pollution (OCN 320) and graduate student biological oceanography core courses (OCN 621, 626, 627) and methods course (OCN 633).

Technical Manager, SOEST Flow Cytometry Facility, UHM, 7/98 – 12/02.

Post-doctoral Associate, Dept. of Oceanography, UHM, 8/01- 12/02, P.I. MR Landry.

Research Assistant, Dept. of Oceanography, UHM, 8/87 – 3/98, P.I.s MR Landry & FC Dobbs.

Research Assistant, School of Oceanography, Univ. of WA. 8/86 – 8/87, P.I. MR Landry.

PROFESSIONAL ACTIVITIES: LAST 3 YEARS ONLY (2016-2019)

MANUSCRIPTS

1. Linacre, L, R Durazo, V Camacho-Ibar, **KE Selph**, R Lara, U Mirabel-Gómez, C Bazán-Guzmán, A Lago-Lestón, E Fernández-Martín, K Sidón-Ceseña (in press) Picoplankton carbon biomass assessments and distribution of *Prochlorococcus* ecotypes linked to Loop Current Eddies during summer in the southern Gulf of Mexico. *Journal of Geophysical Research Oceans*.
2. Shih, JL, **KE Selph**, CB Wall, NJ Wallsgrove, MP Lesser, BN Popp (2019) Trophic ecology of the tropical Pacific sponge *Mycale grandis* inferred from amino acid compound-specific isotopic analyses. *Microbial Ecology*, doi.org/10.1007/s00248-019-01410-x.
3. Jiang, M, Measures, CI, KA Barbeau, MA Charette, ST Gille, M Hatta, M Kahru, BG Mitchell, AC Naveria Garabato, C Reiss, **KE Selph**, M Zhou (2019) Fe sources and transport from the Antarctic Peninsula shelf to the southern Scotia Sea. *Deep Sea Research I* 150, doi.org/10.1016/j.dsr.2019.06.006.

4. Stukel, MR, M Decima, MR Landry, **KE Selph** (2018) Nitrogen and isotope flows through the Costa Rica Dome upwelling ecosystem: The crucial mesozooplankton role in export flux. *Global Biogeochemical Cycles* 32:1815-1832.
5. **Selph, KE**, E Goetze, MJ Jungbluth, PH Lenz, G Kolker. 2018. Microbial food web connections and rates in a subtropical embayment. *Mar. Ecol. Prog. Ser.* 590:19-34.
6. Hatta, M, CI Measures, PJ Lam, DC Ohnemus, ME Auro, MM Grand, **KE Selph**. (2017) The relative roles of Modified Circumpolar Deep Water and benthic sources in supplying iron to the recurrent phytoplankton blooms above Pennell and Mawson Bank, Ross Sea, Antarctica. *J. Mar. Systems* 166:61-72.
7. Jungbluth, MJ, **KE Selph**, PH Lenz, E Goetze (2017) Incubation duration effects on copepod naupliar grazing estimates. *J. Exp. Mar. Biol. Ecol.* 494:54-62.
8. Jungbluth, MJ, **KE Selph**, PH Lenz, E Goetze (2017) Species-specific grazing and significant trophic impacts by two species of copepod nauplii, *Parvocalanus crassirostris* and *Bestiolina similis*. *Mar. Ecol. Prog. Ser.* 572:57-76.
9. Choi, DH, SM An, S Chun, EC Yang, **KE Selph**, CM Lee, JH Noh (2016) Dynamic changes in the composition of photosynthetic picoeukaryotes in the northwestern Pacific Ocean revealed by high-throughput tag-sequencing of plastid 16S rRNA genes. *FEMS Microbiol. Ecol.* 92(2) fiv170.
10. Freibott, A., AG Taylor, **KE Selph**, H Liu, W Zhang, MR Landry (2016) Biomass and composition of protistan grazers and heterotrophic bacteria in the Costa Rica Dome during summer 2010. *J. Plank. Res.* 38:230-243.
11. Goes, JI, HD Rosario Gomes, **KE Selph**, MR Landry (2016) Biological response of Costa Rica Dome phytoplankton to light, silicic acid and trace metals. *J. Plank. Res.* 38:290-304.
12. Gutierrez-Rodriguez, A., **KE Selph**, MR Landry (2016) Phytoplankton growth and microzooplankton grazing dynamics across vertical environmental gradients determined by transplant in situ dilution experiments. *J. Plankton Res.* 38:271-289.
13. Landry, MR, **KE Selph**, M Decima, A Gutierrez-Rodriguez, MR Stukel, AG Taylor, AL Pasulka (2016) Phytoplankton production and grazing balances in the Costa Rica Dome. *J. Plankton Res.* 38:366-379.
14. **Selph, KE**, MR Landry, AG Taylor, A Gutierrez-Rodriguez, MR Stukel, J Wokuluk, A. Pasulka (2016) Phytoplankton production and taxon-specific growth rates in the Costa Rica Dome. *J. Plankton Res.* 38:199-215.
15. Taylor, AG, MR Landry, A Friebott, **KE Selph**, A Gutierrez-Rodriguez (2016) Patterns of microbial community biomass, composition and HPLC diagnostic pigments in the Costa Rica upwelling dome. *J. Plankton Res.* 38:183-198.

CURRENT RESEARCH SUPPORT

2019: NSF-OCE, K. Selph (PI), Collaborative Research: Mesoscale variability in nitrogen sources and food-web dynamics supporting larval southern bluefin tuna in the eastern Indian ocean (with M. Landry, SIO/UCSD; M. Stukel/M. Kranz, FSU & D. Die, RSMAS), \$117,102, 5/1/18-4/30/21.

2017: NSF-OCE, K. Selph (PI), Collaborative Research: Quantifying trophic roles and food web ecology of salp blooms of the Chatham Rise (with M. Stukel, FSU), \$345,985, 5/1/18 – 4/30/21.

2017: NSF-OCE, K. Selph (PI), CI Measures (co-PI), Dissertations Symposium in Chemical Oceanography XXVI and XXVII, \$320,750, 9/1/17 – 8/31/20.

2017: NSF-OCE, K. Selph (PI), CI Measures (co-PI), Physical Oceanography Dissertations Symposium X and XI, \$320,698, 09/01/17 – 8/31/20.

2017: NOAA – K. Selph (PI), Effects of Nitrogen Sources and Plankton Food-Web Dynamics on Habitat Quality for the Larvae of Atlantic Bluefin Tuna in the Gulf of Mexico (with UCSD-SIO, Florida State Univ., U. Miami-RSMAS), \$121,122, 04/10/17-4/09/20.

2015: NSF-OCE, G. Steward (PI), K. Edwards and K.E. Selph (co-PIs). Eating themselves sick? Ecological interactions among a mixotrophic flagellate, its prokaryotic prey, and an ingestible giant virus. \$774,532, 4/1/16 – 3/31/19.

FIELD WORK

R/V Kilo Moana, HOT 312 (KM 19-09), 10-14 June 2019, Honolulu, HI and return, sampling for open ocean *Prochlorococcus*, Chief Scientist: Dan Sadler.

R/V Tangaroa, Wellington, NZ and return, 23 October – 21 November, 2018, 30 day cruise, studying salp biology in the Chatham Rise area, Chief Scientist: Moira Decima.

NOAA Ship Nancy Foster, Jacksonville, FL to Pascagoula, MS (Gulf of Mexico), 27 April – 20 May 2018, 24 day cruise, Chief Scientist: Estrella Malca.

NOAA Ship Nancy Foster, Key West, FL to Miami, FL (Gulf of Mexico), 7 May – 2 June, 2017, 28 day cruise, Chief Scientist: Estrella Malca.

Falkor Student Cruise, HNL-HNL (Station Aloha), June 12-19, 2014, 8 day cruise, Chief Scientist: Erica Goetze.