

LANDELLE M. BUNDE

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PRIMARY RESEARCH INTERESTS

Trace metal biogeochemistry, speciation, and bioavailability of trace metal organic compounds

EDUCATION

Scripps Institution of Oceanography, University of California San Diego	2014
Ph.D in Oceanography Ph.D advisor Professor Katherine Barbeau Dissertation title: Iron and copper organic complexation in marine systems: Detection of multiple ligand classes via electrochemistry	
Scripps Institution of Oceanography, University of California San Diego	2010
M.S. in Oceanography	
University of California San Diego	2008
B.S. in Environmental Systems, specialty in Earth Science and Chemistry	

EMPLOYMENT

Assistant Professor, University of Washington, School of Oceanography	2017-present
Postdoctoral Research Scholar, Woods Hole Oceanographic Institution	2014-2017
Co-advisors: Senior Scientists Daniel Repeta and Mak Saito	

HONORS AND AWARDS

School of Oceanography Faculty Instructor of the Year	2022
University of Washington School of Oceanography Graduation Speaker	2022
University of Washington School of Oceanography Graduation Speaker	2021
Simons Early Career Investigator in Marine Microbial Ecology and Evolution	2019

DIVERSITY, EQUITY AND INCLUSION AND OUTREACH

Climate Justice Institute	2022
<ul style="list-style-type: none">Workshop participant to develop climate and environmental science justice curricula for School of Oceanography courses	
DEI work in the School of Oceanography	2019-present
<ul style="list-style-type: none">Worked on developing the School of Oceanography DEI BlueprintLed a School of Oceanography Town Hall and Listening Session to confront racism in the geosciences and our schoolHelped restructure the graduate student recruitment process and apply for the AGU Bridge ProgramContributed to structuring best practices for equitable hiring	

- Contributed to the restructuring of the graduate student semi-annual review process
- Race Talk participant

Mentoring of under-represented students and postdocs **2019-present**

- Isa Osuna (undergraduate student)
- Patrick Monreal (NOAA Hollings Scholar)
- Jesus Espinoza (CICOES summer intern)
- Angel Ruacho (postdoc)

Partnerships **2019-present**

- Partnering with community members in Southeast Alaska to hold discussions about integrating Indigenous Intellectual Authority in Natural Science curricula
- Partnering with members of Seattle community colleges to develop a two-week marine pollution unit and bring community college students into UW labs

RESEARCH PROJECTS, GRANTS, AND CONTRACTS

Collaborative Research: U.S. GEOTRACES GP17-OCE and GP17-ANT: Characterizing iron-binding organic ligands in the Southern Ocean and Implications for iron cycling in the global ocean **June 2022**

National Science Foundation, Chemical Oceanography
 Lead PI: Kristen Buck, Oregon State University; Co-PI: Randelle Bundy, University of Washington
 Proposal Amount: \$394,996

Collaborative Research: Understanding the massive phytoplankton blooms over the Australian-Antarctic Ridge **April 2022**

National Science Foundation, Polar Programs
 Lead PI: Kevin Arrigo, Stanford; Co-PIs: Leif Thomas, Stanford; Randelle Bundy, University of Washington; Joseph Resing, NOAA-PMEL/CICOES, Tamara Baumbaugar, NOAA-PMEL
 Proposal Amount: \$305,932

Are strong ligands and dissolved iron tightly coupled in hydrothermal systems? **July 2021**

National Science Foundation, Chemical Oceanography
 Lead PI: Colleen Hoffman, UW/CICOES; Co-PI: Randelle Bundy, University of Washington
 Proposal Amount: \$317,268

Discovering natural organic compounds that buffer copper toxicity in Puget Sound Waters **June 2021**

Lott Family Foundation
 PI: Randelle Bundy, University of Washington

- Proposal Amount: \$25,000
- The impact of trace metals on microbial communities in the Pacific Ocean** April 2020
 Simons Foundation, Life Sciences
 Lead PI: Randelle Bundy, University of Washington
 Proposal Amount: \$705,053
- The fundamental role of heterotrophic bacteria in the global iron cycle** April 2019
 Simons Early Career Investigator in Marine Microbial Ecology and Evolution Awards
 Simons Foundation, Life Sciences
 Lead PI: Randelle Bundy, University of Washington
 Proposal Amount: \$540,000
- Oceanographic solutions to human-induced environmental threats to seafood security in Southeast Alaska** March 2019
 National Science Foundation-ASPIRE
 Lead PIs: Randelle Bundy, University of Washington and Michael Navarro, University of Alaska Southeast
 Proposal Amount: \$14,400
- Model-driven Investigations of Ocean Transition Zones** February 2018
 Simons Foundation, Life Sciences
 Lead PI: Ginger Armbrust, University of Washington and David Karl, University of Hawaii; Co-PIs: Randelle Bundy, University of Washington; Zoe Finkel, Mount Allison University; Michael Follows, Massachusetts Institute of Technology; Anitra Ingalls, University of Washington; Seth John, University of Southern California; Laurie Juranek, Oregon State University
 Proposal Amount: \$487,529
- Are low temperature hydrothermal vents an important but overlooked source of stabilized dissolved iron to the ocean?** August 2017
 National Science Foundation, OCE Chemical Oceanography
 Lead PI: Joseph Resing, NOAA/CICOES; Co-PIs: Randelle Bundy, University of Washington; Pete Sedwick, Old Dominion University; Chris German, Woods Hole Oceanographic Institution; Edward Baker, NOAA/University of Washington
 Proposal Amount: \$109,238
- The role of organic iron-binding ligands in iron cycling in the North Pacific transition zone** March 2017
 Simons Foundation, Life Sciences
 Contract PI: Randelle Bundy, University of Washington
 Contract Amount: \$49,641

MENTORSHIP

Current Graduate Students

Jiwoon Park, Ph.D student, University of Washington 2018-present
Laura Moore, Ph.D student, University of Washington 2018-present
(co-advised by Joe Resing)

Undergraduate Students

Isa Osuna, University of Washington 2022
Dylan Hull, senior thesis, University of Washington 2022
Patrick Monreal, NOAA Hollings Scholar Summer 2021
Jesus Espinoza, CICOES summer intern Summer 2020
Shelby Gunnells, CICOES summer intern Summer 2019
Signe Bergman, senior thesis, University of Washington 2018
Emily Hammermeister, University of Washington 2018

Student Committees

Rachel Liu, Ph.D student, University of Washington 2022-present
Georges Kanaan, Ph.D student, University of Washington 2022-present
Marie Zahn, GSR, Ph.D student, University of Washington, SAFS 2021-present
Taylor Walton, Ph.D student, University of Washington 2021-present
Michelle Dvorak, Ph.D student, University of Washington 2020-present
Will Kumler, Ph.D student, University of Washington 2019-present
Zinka Bartolek, Ph.D student, University of Washington 2018-present
Jade Sauve, Ph.D student, University of Washington 2018-present
Susanna Michael, Ph.D student, University of Washington 2018-present
Ryan Groussman, Ph.D student, University of Washington 2017-present
Alexa Sterling, Ph.D student, University of Rhode Island 2017-2021
Theresa Whorley, Ph.D student, University of Washington 2018-2021
Travis Mellett, Ph.D student, University of South Florida 2017-2020

Postdoctoral Scholars and Fellows

Koko Kunde, Simons Postdoctoral Fellow 2021-2022
Travis Mellett 2020-present
Angel Ruacho, NSF Polar Programs Postdoctoral Fellow 2019-present
Katherine Heal, Simons Postdoctoral Fellow 2019-2021
Colleen Hoffman, CICOES Postdoctoral Fellow 2018-present
(co-advised by Joseph Resing)

PROFESSIONAL SERVICE

Associate Editor 2021-present
Frontiers in Marine Biogeochemistry, Marine Chemistry

Steering Committees
Ocean Carbon Biogeochemistry (OCB) Scientific Steering Committee 2021-present

External Thesis Reviewer

Richard Nixon, Department of Fisheries and Oceans Canada	2020
Proposal Reviewer	2018-present
Prestige Postdoctoral Application, University of Southern California Sea Grant, NSERC, National Science Foundation, New York Sea Grant, German Research Foundation	
Journal Referee	2017-present
Geophysical Research Letters, Global Biogeochemical Cycles, Environmental Chemistry, Science of the Total Environment, Environmental Chemistry, Frontiers in Marine Science, Elementa: Science of the Anthropocene, Geochimica et Cosmochimica Acta, Limnology and Oceanography, Limnology and Oceanography: Letters, Marine and Freshwater Research, Marine Chemistry, Earth System Science, Nature Geoscience, Scientific Reports	
Workshop Participant	
Identifying and Characterizing the Processes Controlling Iron Speciation and Residence Time at the Atmosphere-Ocean Interface (Virtual)	2021
Simons Early Career Workshop (New York, NY)	2019-present
Line P Annual Meeting (Sydney, BC)	2018-present
Simons Foundation SCOPE Annual Workshop (New York, NY)	2017-present
Ocean Carbon Biogeochemistry Workshop	2017-present
Gradients Synthesis Workshop (Seattle, WA)	2019
Identifying and Characterizing the Processes Controlling Iron Speciation and Residence Time at the Atmosphere-Ocean Interface (Telluride, CO)	2018
Gradients 2.0 Simons Foundation Workshop (San Francisco, CA)	2017
Workshop Chair	
GEOTRACES Arctic Synthesis Workshop (Miami, FL)	2017
GEOTRACES Early Career Networking Event (Honolulu, HI)	2017
Convener or Co-convener of Conference Sessions	
Controls on Trace Metal Biogeochemistry and Physicochemical Speciation in Seawater (ASLO Ocean Sciences Meeting, San Diego, CA)	2020
Chemical Oceanography Gordon Research Conference Discussion Leader	2019
New Views on the Biological Transformation of Trace Metals (ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico)	2019
Emerging Models of Trace Metal Bioavailability to Aquatic Organisms (ASLO Summer Meeting, Victoria, BC)	2018

Working Group Lead

Simons Foundation Gradients Project Working Group Lead 2019-2021

Professional Memberships

The Oceanographic Society, Association for the Sciences of Limnology and Oceanography, American Geophysical Union

ACADEMIC SERVICE

University of Washington

Astrobiology Program Review Committee Chair 2022

CICOES Postdoctoral Lab Management Panel, panel member 2022

CICOES Postdoctoral Authorship Panel, panel member 2021

University of Washington College of the Environment

College of the Environment Academic Grievance Committee, member 2020-present

College of the Environment Mentoring Panel, panel member 2019

University of Washington Science Communication Workshop, participant 2018

University of Washington School of Oceanography

School of Oceanography Diversity, Equity, and Inclusion Committee, member 2019-present

School of Oceanography Scholarship Committee, member 2018-2020

Chemical Oceanography Graduate Recruitment Coordinator 2018

Chemical Oceanography Chem Lunch Seminar Organizer 2018

INVITED PRESENTATIONS AND CONFERENCE PROCEEDINGS

Invited Seminars and Lectures (underline denotes a current or former student or postdoc)

Bundy, R.M., Park, J., Moore, L.M., Mellett, T. The impact of microbial production of organic ligands on the cycling of iron in seawater. Moss Landing Marine Labs, Moss Landing, CA. 2022

Bundy, R.M., Park, J. The role of microbially-produced iron-binding ligands in solubilizing particulate iron. Identifying and Characterizing the Processes Controlling Iron Speciation and Residence Time at the Atmosphere-Ocean Interface Workshop, Virtual. 2021

Bundy, R.M., The impact of heterotrophic bacteria on the biogeochemical cycling of iron. Rutgers, New Brunswick, NJ. 2020

Bundy, R.M., The impact of organic compounds on the cycling of trace metals in the ocean. University of Southern California Seminar Series, Los Angeles, CA. 2019

- Bundy, R.M.**, The impact of organic compounds on the cycling of trace metals. University of Georgia Marine Seminar Series, Athens, GA. 2019
- Bundy, R.M.**, The impact of organic compounds on the cycling of trace metals in the ocean. University of Victoria Seminar Series, Victoria, BC. 2019
- Bundy, R.M.**, The cycling of siderophores in the surface ocean. Identifying and Characterizing the Processes Controlling Iron Speciation and Residence Time at the Atmosphere-Ocean Interface Workshop, Telluride, CO. 2018
- Bundy, R.M.**, Boiteau, R., Hawco, N., Babcock-Adams, L., McIlvin, M., Saito, M., Repeta, D.J. The role of siderophores in the uptake and cycling of iron. St. Petersburg, FL. 2017
- Bundy, R.M.**, Boiteau, R., Hawco, N., Babcock-Adams, L., McIlvin, M., Saito, M., Repeta, D.J. The role of organic metal-binding ligands in the uptake and cycling of trace metals. Goldschmidt, Paris, France. 2017
- Bundy, R.M.**, Repeta, D.J., Saito, M., McIlvin, M., Boiteau, R., Hawco, N. Fishing for iron: the role of siderophores in microbial iron uptake. Dalhousie University, Halifax, Canada. 2017

First Author Conference Proceedings (underline denotes a current or former student or postdoc)

- Bundy, R.M.**, Jenkins, B.D., Chappell, P.D., Sterling, A.R., McDermith, E.J., Holland, L., Burns, S., Buck, K.N. The influence of siderophores on bacteria-diatom interactions in the iron-limited Southern Ocean. Ocean Sciences Meeting, Virtual, *Oral Presentation*. 2021
- Bundy, R.M.**, Park, J., Heal, K. Siderophore production in the mesopelagic ocean is an indicator of iron stress in heterotrophic bacteria. Ocean Sciences Meeting, San Diego, CA, *Poster Presentation*. 2020
- Bundy, R.M.**, Buck, K.N., Jenkins, B., Chappell, P.D. The impact of heterotrophic bacteria on the biogeochemical cycling of iron. Gordon Research Conference, Holderness, NH, *Poster Presentation*. 2019
- Bundy, R.M.**, Buck, K.N., Repeta, D.J. The role of siderophores in the regeneration of iron by heterotrophic bacteria. ASLO Aquatic Sciences Meeting, San Juan, Puerto Rico, *Oral Presentation*. 2019
- Bundy, R.M.**, Buck, K.N., Burns, Shannon, Sterling, A.R., Holland, L.Z., Repeta, D.J., Chappell, P.D., Jenkins, B.D. Dynamic cycling of siderophores during the growth and decline of an iron-limited phytoplankton assemblage in a Southern Ocean mesocosm experiment. ASLO Ocean Sciences, Portland, OR, *Oral Presentation*. 2018
- Bundy, R.M.**, Saito, M., Hawco, N., Tagliabue, A. Widespread distribution of elevated surface cobalt in the Arctic Ocean. ASLO Aquatic Sciences, 2017

Honolulu, HI, *Oral Presentation.*

TEACHING

University of Washington

OCEAN 220: Introduction to Field Oceanography	2018
OCEAN 402: Biogeochemical Processes (<i>formerly OCEAN 401</i>)	2018-present
OCEAN 409: Marine Pollution	2019-present
OCEAN 520: Chemical Oceanography	2018-present
OCEAN 529: The biogeochemistry of hydrothermal vents	2019
PolarTREC Lesson Plan Development	2017
<i>Lesson plan:</i> https://www.polar trec.com/resources/lesson/reeling-in-ctd-data---understanding-physical-and-chemical-parameters-of-ocean-water	

FIELD WORK

R/V *Thompson*; Gradients 4.0 cruise (28 days), Equatorial Pacific, November 2021
R/V *Revelle*; PLUME RAIDERS cruise (55 days), South Pacific, September 2021
R/V *Rachel Carson*; Metal Toxicity Cruise (2 days), Puget Sound, WA, August 2021
R/V *Kilo Moana*; Gradients 3.0 cruise (20 days), North Pacific, April 2019
R/V *Rachel Carson*; OCEAN 220 Cruise (2 days), Puget Sound, WA, April 2018
R/V *Marcus G. Langseth*; Gradients 2.0 cruise (17 days), North Pacific, May 2017
R/V *Nathaniel B. Palmer*; NBP1608 cruise (38 days), Antarctic Peninsula, September 2016
R/V *Kilo Moana*; SCOPE cruise (10 days), Hawaii, March 2016
R/V *Thompson*; Chief Scientist Training Cruise (7 days), CA Current, February 2016
R/V *Kilo Moana*; HOT cruise (4 days), Hawaii, November 2015
R/V *Ka'imikai-O-Kanaloa*; CMORE/SCOPE cruise (10 days), Hawaii, July 2015
R/V *Kilo Moana*; HOT cruise (4 days), Hawaii, December 2014
R/V *Kilo Moana*; CMORE cruise (5 days), Hawaii, December 2014
R/V *Aaron*; LARISSA: Larsen Ice Shelf System (35 days), Antarctic Peninsula, April 2013
R/V *Thompson*; GEOMICS Line-P (6 days), Coastal North Pacific, May 2012
R/V *Thompson*; ETNP Eastern Tropical North Pacific Cruise (28 days), March 2012
R/V *Knorr*; GEOTRACES Atlantic Transect (45 days), North Atlantic, November 2011
R/V *Point Sur*; CUTZ11: CA Upwelling Transition Zone (20 days), CA Current, August 2011

R/V *Melville*; CCE-LTER: CA Current Long Term Ecological Research (32 days), June 2011

R/V *Polaris*; USGS San Francisco Bay (1 day), April 2011

R/V *Point Sur*; CUTZ10: CA Upwelling Transition Zone (24 days), Northern CA Current, May 2010

R/V *Knorr*; GEOTRACES: Intercalibration Cruise (30 days), North Pacific, May 2009

R/V *New Horizon*; DCM08: Deep Chlorophyll Maxima and Fe (31 days), Baja CA, June 2008

R/V *New Horizon*; DCM07: Deep Chlorophyll Maxima and Fe, San Diego (32 days), CA, July 2007

PUBLICATIONS

Peer-reviewed publications (7 first author, 35 total):

Names that are underlined are current or former postdocs and graduate students.

35. **Bundy, R.M.**, Manck, L.E., Boiteau, R.M., Park, J., Delong, E.F., Hawco, N.J., Church, M.J., Saito, M.A., Repeta, D.J. (Preprint). Seasonal siderophore uptake and biosynthesis associated with carbon flux at Station ALOHA. *Limnology and Oceanography: Letters*.

34. Ruacho, A., Richon, C., Whitby, H., **Bundy, R.M.** (Accepted). A review of dissolved organic copper-binding ligand sources, sinks, and internal cycling in the ocean. *Nature Research: Communications Earth and Environment*.

33. Park, J.P., Durham, B.P., Key, R.S., Groussman, R.D., Pinedo-Gonzalez, P., Hawco, N.J., John, S.G., Carlson, M.C.G., Lindell, D., Juranek, L., Ferrón, S., Ribalet, F., Armbrust, E.V., Ingalls, A.E., **Bundy, R.M.** (Accepted with major revisions). Siderophore production and utilization by marine bacteria in the North Pacific Ocean. *Limnology and Oceanography*.

32. Hogle, S., Hackl, T., **Bundy, R.M.**, Park, J.P., Satinsky, B., Hiltunen, T., Biller, S., Berube, P., Chisholm, S. (2022). Siderophores as an iron source for picocyanobacteria in deep chlorophyll maximum layers of the oligotrophic ocean. *The ISME Journal*, 1-11.

31. Manck, L.E., Park, J.P., Tully, B.J., Poire, A.M., **Bundy, R.M.**, Dupont, C.L., Barbeau, K.A. (2021). Petrobactin, a siderophore produced by *Alteromonas*, mediates community iron acquisition in the global ocean. *The ISME Journal*, 1-12.

30. Heal, K.R., Maloney, A.E., Ingalls, A.E., **Bundy, R.M.** (2021). Diverse arsenic-containing lipids in the surface ocean. *Limnology and Oceanography Letters*, 7(1), 43-51.

29. Bhatia, M.P., Waterman, S., Burgess, D.O., Williams, P.L., **Bundy, R.M.**, Mellett, T., Roberts, M., Bertrand, E.M. (2021). Glaciers and Nutrients in the Canadian Arctic Archipelago Marine System. *Global Biogeochemical Cycles*, 35(8), e2021GB006976.

28. Heal, K., Durham, B., Boysen, A., Carlson, L., Qin, W., Ribalet, F., White, A., **Bundy, R.M.**, Armbrust, E.V., Ingalls, A. (2021). Marine community metabolomes carry fingerprints of phytoplankton community composition. *mSystems*, 6(3), e01334-20.

27. Moore, L.E., Heller, M.I., Barbeau, K.A., Moffett, J.W., and **Bundy, R.M.** (2021). Organic Complexation of Iron by Siderophores in the Eastern Tropical North Pacific Oxygen Deficient Zone Impacts the Longevity of Dissolved Iron. *Marine Chemistry*, 236, 104021.
26. Ruacho, A., **Bundy, R.M.**, Till, C.P., Roshan, S., Wu, J. and Barbeau, K.A., 2020. Organic dissolved copper speciation across the US GEOTRACES equatorial Pacific zonal transect GP16. *Marine Chemistry*, 225, 103841.
25. **Bundy, R.M.**, Tagliabue, A., Hawco, N.J., Morton, P.L., Twining, B.S., Hatta, M., Noble, A., Cape, M.R., John, S.G., Cullen, J.T., Saito, M.A. (2020). Elevated sources of cobalt in the Arctic Ocean. *Biogeosciences*, 17(19), 4745-4767.
24. Charette, M.A., Kipp, L.E., Jensen, L., Dabrowski, J.S., Whitmore, L.M., Fitzsimmons, J., Williford, T., Ulfso, A., Jones, E., **Bundy, R.M.**, et al. (2020). The Transpolar Drift as a Source of Riverine and Shelf-Derived Trace Elements to the Central Arctic Ocean. *Journal of Geophysical Research-Oceans*, 125(5), e2019JC015920.
23. Hawco, N.J., McIlvin, M.M., **Bundy, R.M.**, Tagliabue, A., Goepfert, T.J., Moran, D.M., Valentin-Alvarado, L. DiTullio, G.R., Saito, M.A. (2020). Minimum cobalt metabolism in the marine cyanobacterium *Prochlorococcus*. *Proceedings of the National Academy of Sciences*, 117(27), 15740-15747.
22. Pinedo-González, P., Hawco, N.J., **Bundy, R.M.**, Armbrust, E.V., Follows, M.J., Cael, B.B., White, A.E., Ferrón, S., Karl, D.M. and John, S.G., (2020). Anthropogenic Asian aerosols provide Fe to the North Pacific Ocean. *Proceedings of the National Academy of Sciences*, 117(45), 27862-27868.
21. Meskhidze, N., Voelker, C., Al-Abadleh, H., Barbeau, K.A., Bressac, M., Buck, C. **Bundy, R.M.**, Croot, P., Feng, Y., Ito, A., Johansen, A.M., Landing, W., Mao, J., Myriokefalitakis, S., Ohnemus, D., Pasquier, B., Ye, Y. (2019). Perspective on identifying and characterizing the processes controlling iron speciation and residence time at the atmosphere-ocean interface. *Marine Chemistry*, 217, 103704.
20. Chappell, P.D., Armbrust, E.V., Barbeau, K.A., **Bundy, R.M.**, Moffett, J.W., Vetamati, J., Jenkins, B.D. (2019). Patterns of diatom diversity correlate with dissolved trace metal concentrations and longitudinal position in the NE Pacific coastal-HNLC transition zone. *Marine Ecology Progress Series*, 609, 69-86.
19. Cape, M.R., Straneo, F., Beaird, N., **Bundy, R.M.**, Charette, M.A. (2019). Nutrient release to oceans from buoyancy-driven upwelling at Greenland tidewater glaciers. *Nature Geoscience*, 12(1), 34.
18. **Bundy, R.M.**, Boiteau, R.M., McLean, C., Turk-Kubo, K.A., McIlvin, M.R., Saito, M.A., Van Mooy, B.A.S., Repeta, D.J. (2018). Distinct siderophores contribute to iron cycling in the mesopelagic at Station ALOHA. *Frontiers in Marine Science*, 5(61).
17. Tagliabue, A., Hawco, N., **Bundy, R.M.**, Landing, W., Milne, A., Morton, P., Saito, M. (2018). The role of external inputs and internal cycling in shaping the global ocean cobalt distribution: insights from the first cobalt biogeochemical model. *Global Biogeochemical Cycles*, 32(4), 594-616.

16. Stuart, R.K., **Bundy, R.M.**, Buck, K.N., Ghassemian, M., Barbeau, K.A., Palenik, B. (2017). Copper toxicity response influences mesotrophic *Synechococcus* community structure. *Environmental Microbiology*, 19(2), 756-769.
15. Boiteau, R.M., Till, C.P., Ruacho, A., **Bundy, R.M.**, Hawco, N.J., Barbeau, K.A., Bruland, K.W., Saito, M.A., Repeta, D.J. (2016). Characterization of nickel and copper binding by natural ligands along the US GEOTRACES Eastern Pacific Zonal transect. *Frontiers in Marine Science*, 3, 243.
14. Hogle, S.L., **Bundy, R.M.**, Blanton, J.M., Allen, E.E., Barbeau, K.A. (2016). Copiotrophic marine bacteria are associated with strong iron-binding ligand production during phytoplankton blooms. *Limnology and Oceanography Letters*, 1(1), 36-43.
13. **Bundy, R.M.**, Carter, M., Jiang, M., Barbeau, K.A. (2016). Iron-binding ligands in the southern California Current System: Mechanistic studies. *Frontiers in Marine Science*, 3, 27.
12. Semeniuk, D.M., **Bundy, R.M.**, Posacka, A.M., Robert, M., Barbeau, K.A., Maldonado, M.T. (2016). Using ⁶⁷Cu to study the biogeochemical cycling of copper in the northeast subarctic Pacific Ocean. *Frontiers in Marine Science*, 3, 78.
11. Semeniuk, D.M., Taylor, R.L., **Bundy, R.M.**, Johnson, W.K., Cullen, J.T., Robert, M., Barbeau, K.A., Maldonado, M.T. (2015). Iron-copper interactions in iron-limited phytoplankton in the northeast subarctic Pacific Ocean. *Limnology and Oceanography*, 61, 279-297.
10. Brzezinski, M. A., Krause, J. W., **Bundy, R. M.**, Barbeau, K. A., Franks, P., Goericke, R., Landry, M.R., Stukel, M. R. (2015). Enhanced silica ballasting from iron stress sustains carbon export in a frontal zone within the California Current. *Journal of Geophysical Research: Oceans*, 120, 4654-4669.
9. Semeniuk, D.M., **Bundy, R.M.**, Payne, C.D., Barbeau, K.A., Maldonado, M.T. (2015). Acquisition of organically complexed copper by marine phytoplankton and bacteria in the northeast subarctic Pacific Ocean. *Marine Chemistry*, 173, 222-233.
8. **Bundy, R.M.**, Abdulla, H.A, Hatcher, P., Biller, D.V., Buck, K.N., Barbeau, K.A. (2015). Iron-binding ligands and humic substances in the San Francisco Bay estuary and estuarine-influenced shelf regions of coastal California. *Marine Chemistry*, 173, 183-194.
7. Pižeta, I., Sander, S.G, Hudson, R.J.M., Baars, O., Buck, K.N., **Bundy, R.M.**, Carrasco, G., Croot, P., Garnier, C., Gerringa, L.J.A., Gledhill, M., Hirose, K., Kondo, Y., Laglera, L.M., Nuester, J., Omanović, D., Rijkenberg, M.J.A., Takeda, S., Twining, B.S., Wells, M. (2015). Quantitative analysis of complexometric titration data: An intercomparison of methods for estimating models of metal complexation by mixtures of natural ligands. *Marine Chemistry*, 173, 3-24.
6. Fitzsimmons, J., **Bundy, R.M.**, Carrasco, G., Boyle, E., Conway, T. (2015). The composition of dissolved iron in the dusty surface ocean: An exploration using size-fractionated iron-binding ligands. *Marine Chemistry*, 173, 125-135.
5. **Bundy, R.M.**, Barbeau, K.A., Biller, D.V., Buck, K.N., Bruland, K.W. (2014). Distinct pools of dissolved iron-binding ligands in the surface and benthic boundary layer of the California

Current. *Limnology and Oceanography*, 59(3), 769-787.

4. **Bundy, R.M.**, Barbeau, K.A., Buck, K.N. (2013). Sources of strong copper-binding ligands in Antarctic Peninsula surface waters. *Deep Sea Research Part II: Topical Studies in Oceanography*, 90, 134-146.

3. Earley, P.J., Swope, B.L., Barbeau, K.A., **Bundy, R.M.**, Rivera-Duarte, I., McDonald, J.A. (2013). Life cycle contributions of copper from vessel painting and maintenance activities. *Biofouling*, 30(1), 51-68.

2. Landry, M.R., Ohman, M.D., Goericke, R., Stukel, M.R., Barbeau, K., **Bundy, R.M.**, Kahru, M. (2012). Pelagic community responses to a deep-water front in the California Current Ecosystem: Overview of the A-Front Study. *Journal of Plankton Research*, 34(9), 739-748.

1. Buck, K.N., Moffett, J., Barbeau, K., **Bundy, R.M.**, Kondo, Y., Wu, J. (2012). Intercal: The organic complexation of iron and copper: an intercomparison of competitive ligand exchange-adsorptive cathodic stripping voltammetry (CLE-ACSV) techniques. *Limnology and Oceanography: Methods*, 10, 496-515.

Non-peer reviewed publications (1 total):

1. Buck, K.N, **Bundy, R.M.**, Barbeau, K.A., Bonain, C. Biogeochemical cycling of organic iron-binding ligands: Insights from GEOTRACES data in the Atlantic Ocean. *OCB Newsletter*. 2016.