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previously published under S.E. Moffitt

EDUCATION

Ph.D. Ecology, June 2014 University of California, Davis
Dissertation Marine ecosystems and climate change: ecological and oceanographic lessons from the
recent deglaciation
Advisor Dr. Tessa Hill

B. S. Marine Biology, June 2006 Western Washington University

ACADEMIC APPOINTMENTS

Postdoctoral Scholar, *October 2015-Present* *Future of Ice Initiative*, University of Washington

Postdoctoral Scholar, *June 2014-October-2015* University of California, Davis

Doctoral Research, *2008-June 2014* University of California, Davis

NSF Integrative Graduate Research, *2008-2010* University of California, Davis

Graduate Student Researcher, *June-August 2008* EPA Environmental Education Program

AWARDS

2013 Switzer Environmental Leader Fellowship
2010-2013 Environmental Protection Agency Science to Achieve Results (STAR) Fellowship
2012 Outstanding Student Presentation, 2012 Ocean Science Meeting
2007 Honorable Mention, NSF Graduate Fellowship Research Program
2006 Honorable Mention, NSF Graduate Fellowship Research Program
2006 National Undergraduate Research Award, National Council for Undergraduate Research
2005 Undergraduate Research Accomplishment Award, Western Washington University
Department of Biology

PEER REVIEWED PUBLICATIONS

- 2016 Yasuhara, M., H. Doi, C.-L. Wei, R. Danovaro, **S. E. Myhre**. Biodiversity-ecosystem functioning relationships in long-term time series and palaeoecological records: deep sea as a test bed. *Philosophical Transactions of the Royal Society B* (submitted).
- 2016 Davis, C. V., **S. E. Moffitt**, T. M. Hill. Benthic foraminiferal shell weight: Deglacial species-specific responses recorded in the Santa Barbara Basin. *Marine Micropalontology* (accepted).
- 2015 **Moffitt, S. E.**, T. Hill, P. Roopnarine, J. P. Kennett. Response of seafloor ecosystems to abrupt global climate change. *PNAS*, 112, 4684-4689.
- 2015 **Moffitt, S. E.**, R. Moffitt, W. Sauthoff, C. V. Davis, K. Hewett, T. Hill. Paleooceanographic insights on recent Oxygen Minimum Zone Expansion: Lessons for Modern Oceanographic, PLOS ONE, 10, doi:10.1371/journal.pone.0115246.
- 2014 **Moffitt, S. E.**, T. Hill, J. Kennett, K. Ohkushi, R.J. Behl. Vertical oxygen minimum zone oscillation during the last 20 ka in Santa Barbara Basin: A benthic foraminiferal perspective. *Paleoceanography*, 29, 1-14.
- 2013 Abraham, J. P., M. Baringer, N. Bindoff, T. Boyer, L. J. Cheng, J. A. Church, J. L. Conroy, C. M. Domingues, J. T. Fasullo, J. Gilson, G. Goni, S. Good, J. M. Gorman, V. Gouretshki, M. Ishii, G. C. Johnson, S. Kizu, J. M. Lyman, A. MacDonald, W. J. Minkowycz, **S. E. Moffitt**, M. Palmer, A. Piola, F. Resegetti, K. E. Trenberth, I. Velicogna, S. E. Wijeffels, J. Willis. Monitoring systems of global ocean heat content and the implications for climate change, a review. *Reviews of Geophysics*, DOI: 10.1002/rog.20023.
- 2013 Ohkushi, K., J. P. Kennett, C. M. Zeleski, **S. E. Moffitt**, T. M. Hill, C. Robert, L. Beaufort, R. J. Behl. Late Quaternary intermediate water oxygenation history: Benthic foraminiferal assemblages from Santa Barbara Basin. *Paleoceanography*, 29, 1-15.
- 2012 Payne, J. L., J. R. Grootes, A. B. Jost, T. Nguyen, **S. E. Moffitt**, T. M. Hill, J. M. Skotheim. Late Paleozoic fusulinoidean gigantism driven by atmospheric hyperoxia. *Evolution*, 66: 2929-2939.
- 2012 Wetzel, W., I. Lacher, D. Swezy, **S. E. Moffitt**, D. Manning. Survey of rancher decisions and geospatial analysis reveal consequences of Williamson Act elimination for ecosystem conservation and ranching in California. *California Agriculture*, 66, 131-136
- 2007 **Myhre S.**, A. Acevedo-Gutiérrez. Effects of the sea urchin *Diadema antillarum* on coral recovery and benthic community structure, Caribbean, Costa Rica. *Marine Ecology Progress Series*, 329: 205-210.

MANUSCRIPTS IN PREPARATION

- Myhre, S. E.**, K. J. Kroeker, T. M. Hill, P. Roopnarine, J. P. Kennett. Community benthic paleoecology from high-resolution climate records: Mollusca and Foraminifera in post-glacial environments of the California Margin (in preparation).

- Myhre, S. E.**, M. Borreggine, A. C. Ravelo, C. Deutsch. Abrupt oceanographic and ecological change in the Bering Sea through the past 20,000 years: A synthesis of existing paleoceanographic records (*in preparation*).
- Myhre, S. E.**, A. C. Ravelo, M. Cook, C. Deutsch. Coupled millennial-scale transitions in sea ice, hypoxia and seafloor community ecology in the Bering Sea (*in preparation*).
- Myhre, S. E.**, S. M. White, T. M. Hill, J. P. Kennett. Millennial-scale differences in benthic and planktonic foraminiferal community ecology at ~735 ka, Santa Barbara Basin, CA, using multivariate community ecology analysis (*in preparation*).

REPORTS & OTHER PUBLICATIONS

- In prep* California Environmental Protection Agency, Indicator of Climate Change in California, 2015. Contracted appointment to produce chapters focused on climate change monitoring in coastal Californian waters.
- 2014 **Moffitt, S. E.** Fisheries ecosystems and hypoxia: A future informed by the past. *Fisheries*, 39, 199-200.
- 2010 Morgan L.E., W. Chandler, E. Douce, S. Brooke, J. Guinotte, **S. Myhre**. Research Priorities for the Pacific Remote Islands Marine National Monument. Marine Conservation Biology Institute Special Report.
- 2007 Brainard R., J. Helyer, J. Kenyon, F. Mancini, **S. Myhre**, M. Nadon, R. Schroder, B. Vargas-Angel, S. Vogt, P. Vroom. 2002-2006 American Samoa Coral Reef Monitoring Report. NOAA Special Report

EMPLOYMENT HISTORY

Indicators of Climate Change, Contractor, California Environmental Protection Agency, 6/2014-9/2015
 Climate Science Internship, Marine Conservation Institute, 6-8/2010
 Coral Reef Ecosystem Specialist, NOAA Coral Reef Ecosystem Division, 11/2006-5/2008
 Fieldwork and Laboratory Coordinator, Bermuda Institute for Ocean Science, 9-11/2006
 Scientific Diver and Technician, Bermuda Institute for Ocean Science, 6-9/2005

GRANTS

- 2010-2013 Environmental Protection Agency Science to Achieve Results (STAR) Fellowship
- 2010 Mia Tegner Memorial Research Grants in Marine Environmental History and Historical Ecology, Marine Conservation Institute
- 2010 Graduate Scholarship to Urbino Italy Summer School in Paleoclimatology, NSF
- 2008-2010 REACH Integrative Graduate Education Research and Traineeship, NSF
- 2006 Student Travel Grant, American Geophysical Union, Ocean Sciences Meeting
- 2006 Student Travel Grant, Western Washington University College of Science, Technology
- 2005 C.V. Star Scholarship, Bermuda Institute for Ocean Science
- 2005 Women in Science Scholarship, Western Washington University College of Science, Technology
- 2004 Research Grant, The PADI Foundation

2005 Biology Chair Research Funds, Western Washington University
2003 Research and Creative Opportunities Grants for Undergraduates, Western Washington University
2003 NASA Space Grant Undergraduate Research Award, University of Washington

INVITED PRESENTATIONS

Malibu Public Library Speaker Series, Malibu City California, 8/30/2016
Malibu Climate Change: Hopes and Fears

University of Washington, Biological Oceanography and Marine Geochemistry and Geophysics Seminar, 2/2/2016
Climate, oxygen and organisms: paleoecology as a tool to understand the past and present

American Geophysical Union, Effective Climate Communication Session, 12/16/2015
The Deep End of the Pool: Strategy, Skills and Priorities for Climate Communication

Union of Concerned Scientists, Climate Science Communication Workshop, 12/13/2015
Planning your dive and diving your plan: frontloading the work of communication planning

University of Washington, Chemical Oceanography Seminar, 12/4/2015
Climate, oxygen and organisms: using paleoecology to understand a no-analogue ocean

San Francisco State University, Department of Earth and Climate Sciences, 9/23/2014
Marine ecosystem and abrupt climate change: insights from the recent deglaciation

Western Washington University, Biology Department, 2/28/2012
Rapid environmental change on continental margins; using marine sediment records as paleoecological tools

Point Blue (Point Reyes Bird Observatory), 3/14/2010
Climate transitions, anoxic waters and the benthic ecology of Santa Barbara Basin.

Science in the River City Workshop for Teachers, Sacramento State University, 2/20/2010
Climate change and coastal California

TEACHING EXPERIENCE

Instructor, Summer 2013

Bodega Marine Laboratory, Biological Oceanography (GEL/ESP 150C)

Teaching Assistant, Summer 2012

Bodega Marine Laboratory, Independent Undergraduate Research (BIS 124)

Supervisor: Dr. Tessa Hill and Dr. John Largier

Teaching Assistant, Summer 2011

Bodega Marine Laboratory, Biological Oceanography (GEL/ESP 150C)

Supervisor: Dr. Tessa Hill

Guest Lecturer, 2009-2011

University of California at Davis, The Oceans (GEL 16)

Guest Lecturer, 2009

University of California at Davis, Biological Conservation (ECL 291)

Teaching Assistant, Summer 2008

Bodega Marine Laboratory, Biological Oceanography (GEL/ESP 150C)

Supervisor: Dr. Tessa Hill

Mentor, Summer 2008

Bodega Marine Laboratory, National Science Foundation Research Experience for Undergraduates

Teaching Assistant, Fall 2006

Bermuda Institute of Ocean Science, Coral Reef Ecology

Supervisor: Dr. Samantha DePutron

Teaching Assistant, Spring 2005

Western Washington University, Marine Ecology (BIO 356)

Supervisor: Dr. Alejandro Acevedo

UNDERGRADUATE RESEARCH MENTORSHIP

Marisa Borreggine, 2016. Abrupt oceanographic and ecological change in the Bering Sea through the past 20,000 years: A synthesis of existing paleoceanographic records (*in preparation*).

Miranda Stripe, 2014. Invertebrate fossil correlation to climate trends in sediment core MD02-2504 from Santa Barbara Basin in the past 24 kyr. *Explorations*, the UC Davis Undergraduate Research Journal, Vol. 16.

Adam Rueckert, 2014. A paleoecological study of predation on mollusks in the Santa Barbara Basin. BML Summer Session II: Research Symposium.

Alison Fisher, 2012. The effects of ocean acidification on the community structure of sessile benthic invertebrates in the rock intertidal zone. Bodega Bay, CA, BML Summer Session II: Research Symposium.

Greg Merrill, 2012. The effects of upwelling on the predation of mussels by whelks, proxied by abundance. BML Summer Session II: Research Symposium.

Lian Rother, 2012. Shell morphology of the California mussel (*Mysilus californianus*) compared to patterns in pH and temperature in Bodega Bay, Ca. BML Summer Session II: Research Symposium.

Miranda Stripe, 2012. Correlation of invertebrate fossils with climate trends in Santa Barbara Basin for the past 25,000 years. BML Summer Session II: Research Symposium.

Isabella Hines, 2012. The size class distribution of *Anthopleura xanthogrammica* and tide pool seawater variability in Horseshoe Cove. BML Summer Session II: Research Symposium.

Wilson Sathoff, 2011. Biotic evidence of historic climate change events in the Santa Barbara Basin over the past 16,000 years. BML Summer Session II: Research Symposium.

Jamie Rich, 2009. Distribution and abundance of foraminifera in Bodega Harbor with respect to sediment grain size. BML Summer Session II: Research Symposium.

Will Fennie, 2008. The effects of wave energy and sediment composition on beach profiles. BML Summer Session II: Research Symposium.

Frank Sousa, 2008. Dunes on the Bodega Marine Reserve: *Ammophila arenaria*, native vegetation and bare sand. BML Summer Session II: Research Symposium.

Danny West, 2008. The longshore transport of sediment: Russian River to the Bodega Bay area. BML Summer Session II: Research Symposium.

Allison Philips, 2008. Distribution of wind blown, marine, and freshwater sediment in Tomales Bay, California. BML Summer Session II: Research Symposium.

RESEARCH PRESENTATIONS (LAST 6 YEARS)

- Myhre, S. E.**, T. M. Hill, C. Frieder, B. Grupe, 2016. Decadal to centennial oscillations in the upper and lower boundaries of the San Diego, California margin Oxygen Minimum Zone. Ocean Science Meeting, New Orleans, LA (poster).
- Myhre, S. E.**, S. M. White, T. M. Hill, J. P. Kennett, 2015. Earth-system scales of biodiversity variability in shallow continental margin seafloor ecosystems. American Geophysical Union, Fall Meeting, San Francisco, CA (poster).
- Moffitt, S. E.**, T. Hill, K. Kroeker, P. Roopnarine, J. P. Kennett, 2014. Molluscan and foraminiferan paleoecological reconstructions of extreme post-glacial seafloor environments of the California Borderland. American Geophysical Union, Fall Meeting, San Francisco, CA (poster).
- Moffitt, S. E.**, R. Moffitt, W. Sauthoff, C. V. Davis, K. Hewett, T. M. Hill, 2013. Paleoceanographic insights on oxygen minimum zone expansion: Lessons from the most recent deglaciation. American Geophysical Union, Fall Meeting, San Francisco, CA (oral).
- Moffitt, S. E.**, T. Hill. 2012. Deglacial forcing of rapid deoxygenation and seafloor ecological change, Santa Barbara Basin, CA. 22nd V.M. Goldschmidt Conference, Montreal, Canada (oral).
- Moffitt, S. E.**, T. Hill. 2012. Deglacial forcing of eastern-boundary current oxygenation and benthic ecology. Ocean Sciences Meeting, Salt Lake City, Ut (oral).
- Moffitt, S. E.**, T. M. Hill, 2012, Hypoxia in high-resolution sediment records: reconstructing the California Current Oxygen Minimum Zone on multi-decadal timescales. American Geophysical Union Fall Meeting, San Francisco, CA (poster).
- Conroy, J., S. Mandia, J. Abraham, **S. E. Moffitt**, G. Tootle, 2012. Environmental litigation and the role of climate scientists. American Geophysical Union Fall Meeting. San Francisco, CA (poster).
- Myhre, S. E.**, T. Hill, J. P. Kennett, K. Ohkushi, R. Behl. 2011. Spatial Scales of deglacial hypoxia in the Santa Barbara Basin: Using rank-abundance curves and kurtosis to understand paleoecological community stress. American Geophysical Union Fall Meeting. San Francisco, CA (poster).
- Myhre, S.**, T. Hill, J. Kennett, K. Ohkushi, R. Behl. 2011. Constraining the vertical movement of OMZ waters in Santa Barbara Basin for the past 15 ka. Pacific Climate Workshop. Monterey, CA (poster).
- Myhre, S.**, T. Hill, J. Kennett, K. Ohkushi, R. Behl. 2010. Constraining the vertical movement of low oxygen waters in Santa Barbara Basin for the past 15 ka. American Geophysical Union Fall Meeting. San Francisco, CA (poster).
- Myhre, S.**, T. T. Hill, J. Kennett, K. Okushi, R. Behl. 2009. Anoxic waters in the Santa Barbara Basin during the past 15 ka. Bodega Marine Laboratory Research Seminar, Bodega Bay, CA (oral).
- Myhre, S.**, T. T. Hill, J. Kennett, K. Okushi, R. Behl. 2009. Investigating a transect of anoxic waters in the Santa Barbara Basin during the past 15 ka. American Geophysical Union Fall Meeting. San Francisco, CA (poster).

OUTREACH AND COMMUNICATION

- Reddit AMA**, PLOS ONE, Ocean oxygen loss in a future of climate warming, 2/17/2016
- Women in Science Lunch**, University Preparatory Academy, Seattle, 1/27/2016
- Reddit AMA**, We are the people behind "The Point of No Return" climate change article in Rolling Stone, and here to talk about solutions. Ask Us Anything, 8/13/2015
- Jenner Solar Summit (public talk)**, City of Jenner, 2/21/2015
- Why are climate scientists so bad at talking about climate change?** (public talk), Science Uncorked at Gourmet au Bay, Bodega Bay, 2/17/2015
- New research reveals extreme oxygen loss in oceans during past climate change** (blog), The Guardian, 1/29/2015

Ocean Science (educational talk), Summerfield Waldorf School and Farm, 5/2013
What's climate scientist James Hansen's legacy? (interview), The Guardian, 4/2013
How do we learn about Earth's climate history? (educational talk), Technology Access Foundation Academy, Seattle WA, 3/2013
San Diego Coastal Expedition (blog), Scripps Institution of Oceanography, San Diego, CA, 12/2012
Climate Change Blog-O-Thon (blog), Daily Kos, 9/2012

SELECT PRESS

Huffington Post, Ocean acidification is bad, and it's getting worse, 1/11/2016
http://www.huffingtonpost.com/pierce-nahigyan/ocean-acidification-is-ba_b_8952240.html

The Guardian, The best of climate science and humanity come together at AGU, 12/21/2015
http://www.theguardian.com/environment/climate-consensus-97-per-cent/2015/dec/21/the-best-of-climate-science-and-humanity-come-together-at-agu?CMP=share_btn_tw

Climate Cast, Minnesota Public Radio, 12/17/2015

Rolling Stone, The Point of No Return: Climate Change Nightmares are Already Here, 8/5/2015
<http://www.rollingstone.com/politics/news/the-point-of-no-return-climate-change-nightmares-are-already-here-20150805>

Blue Streak Science (podcast interview), 8/26/2015
<http://www.bluestreakscience.com/014-interview-with-dr-sarah-moffitt-of-the-bodega-marine-lab/>

Big Picture Science at the SETI Institute (podcast interview), The Fix is In, 8/2/2015
http://blog.bigpicture-science.org/2015/08/big-picture-science-the-fix-is-in-sarah-moffitt-marine-biodiversity/?utm_content=buffer9a10&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

Climate Action USA (radio interview), 6/1/2015
<http://www.blogtalkradio.com/climateactionusa/2015/06/02/interview-sarah-moffitt-postdoctoral-scholar-uc-davis-bodega-marine-laboratory-1>

Yale Climate Connection (radio interview), Depleted oxygen zones in the ocean may increase in a warmer climate, 5/5/2015
<http://www.yaleclimateconnections.org/2015/05/lessons-from-an-ancient-climate-shift/>

The Guardian, New paper shows how sensitive the ocean biosphere is to climate change, 4/10/2015
<http://www.theguardian.com/environment/climate-consensus-97-per-cent/2015/apr/10/new-paper-shows-how-sensitive-ocean-biosystem-is-to-climate-change>

LA Times, Oceans might take 1,000 years to recover from climate change, study suggests, 4/1/2015
<http://www.latimes.com/science/sciencenow/la-sci-sn-oceans-climate-change-20150331-story.html>

Christian Science Monitor, Oceans could take thousands of years to recover from climate change, study says, 3/31/2015
<http://www.csmonitor.com/Science/2015/0331/Oceans-could-take-thousands-of-years-to-recover-from-climate-change-study-says>

Conservation Magazine, Seafloor hits bottom fast, bounces back slowly after climate change, 3/31/2015
<http://conservationmagazine.org/2015/03/seafloor-hits-bottom-fast-bounces-back-slowly-after-climate-change/>

Discovery Channel, Climate change could harm marine life for millennia, 3/30/2015
<http://news.discovery.com/earth/global-warming/climate-change-could-harm-marine-life-for-millennia-150330.htm>

CBS SF Bay Area, Climate change may impact oceans for thousands of years, UC Davis study finds, 3/30/2015
<http://sanfrancisco.cbslocal.com/2015/03/30/climate-change-today-may-impact-oceans-for-thousands-of-years-uc-davis-study-finds/>

- NBC News**, Climate change could damage oceans for millennia, 3/30/2015
<http://www.nbcnews.com/science/environment/climate-change-could-wreak-millennia-havoc-oceans-n332781>
- SF Gate**, Ancient global warming a warning for modern era, researchers say, 3/30/2015
<http://www.sfgate.com/science/article/Ancient-global-warming-a-warning-for-modern-era-6169077.php>
- Yale e360**, How long can oceans continue to absorb Earth's excess heat? 3/30/2015
http://e360.yale.edu/feature/how_long_can_oceans_continue_to_absorb_earths_excess_heat/2860
- National Geographic**, Oceans are losing oxygen – and becoming more hostile to life, 3/13/2015
<http://news.nationalgeographic.com/2015/03/150313-oceans-marine-life-climate-change-acidification-oxygen-fish/>
- KPCC, Southern California NPR-Affiliate** (radio interview), Study looks at Ice Age, predicts alarming trend in ocean oxygen loss, 2/4/2015
<http://www.scpr.org/programs/take-two/2015/02/04/41408/study-looks-at-ice-age-predicts-alarming-trend-in/>
- ABC7News (TV interview)**, deteriorating ocean oxygen levels affecting marine life, 2/3/2015
<http://abc7news.com/science/deteriorating-ocean-oxygen-levels-affecting-marine-life/503237/>
- Press Democrat**, New ocean study shows alarming pattern in ice age oxygen loss, 1/30/15
http://www.pressdemocrat.com/news/3457047-181/new-ocean-study-shows-alarming#.VM0EtEheD_g.facebook?page=2
- Vice Magazine**, What happens when the oceans can't breathe, 1/28/2015
<http://motherboard.vice.com/read/heres-what-happens-when-oceans-cant-breathe>
- MSN News**, Climate change could mean massive ocean dead zones, 1/28/2015
<http://www.msn.com/en-my/news/techandscience/climate-change-could-mean-massive-ocean-dead-zones/ar-AA8H6XM?srcref=rss>
- The Verge**, Climate change could mean massive ocean dead zones, 1/28/2015
<http://www.theverge.com/2015/1/28/7930047/climate-change-could-mean-massive-ocean-dead-zones>
- Nature World News**, Heightened Temperatures Robbed Our Seas of Oxygen, and Could do it Again, 1/28/15
<http://www.natureworldnews.com/articles/12353/20150128/heightened-temperatures-robbed-seas-oxygen-again.htm>
- Science Daily**, Smothered Ocean: Extreme oxygen loss in oceans accompanied past global climate change, 1/28/2015
<http://www.sciencedaily.com/releases/2015/01/150128152155.htm>
- Science Codex**, Smothered oceans: Extreme oxygen loss accompanied past climate change, 1/28/2015
http://www.sciencecodex.com/smothered_oceans-149760
- Science World Report**, Melting ice and warmer temperatures linked to massive oxygen loss in the world's ocean, 1/29/2015
<http://www.scienceworldreport.com/articles/21773/20150129/melting-ice-warmer-temperatures-linked-massive-oxygen-loss-worlds-oceans.htm>
- Morning Wave, Busan, South Korea** (radio interview), Modern Climate Change, 9/2012

SHORT COURSE EXPERIENCE

- Expert Witness Training Academy**, 7/2012
 William Mitchell College of Law and the National Science Foundation
- Ecological Institute at the Heinz Center**, 9/2010
 Science Communication and Policy Development Workshop
- The Urbino Summer School in Paleoclimatology**, 7/2010

University of Urbino, Italy
Stable Isotopes in Ecology, 6/2009
University of Utah
Coral Reef Ecology, 6-7/2006
Bermuda Institute of Ocean Science

SCIENTIFIC SOCIETY MEMBERSHIP

American Geophysical Union, Member
American Fisheries Society, Member
Bodega Marine Laboratory Seminar Committee, Financial Advisor
University of California at Davis, Graduate Group in Ecology Diversity Committee, Member

SERVICE

Adjunct Scholar, **Niskanen Center for Climate Science**

Facilitator, **Mt Baker Ski Area** and University of Washington Future of Ice Initiative, Community
Lecture Series

2016-2018 Advisor to the Board, **Nooksack Salmon Enhancement Association**

PROFESSIONAL REFERENCES

Tessa M. Hill, Ph.D.

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Dept. of Earth & Planetary Sciences
Bodega Marine Laboratory
University of California at Davis
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tmhill@ucdavis.edu

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Bodega Bay, CA 94923

Curtis Deutsch, Ph.D.

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School of Oceanography
University of Washington
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RM 105 Ocean Teaching Building
Seattle, WA 98105

Peter Roopnarine, Ph.D.

Curator of Geology
Chair, Dept. of Invertebrate Zoo. and Geol.
California Academy of Science
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55 Music Concourse Dr.
Golden Gate Park
San Francisco, CA 94118

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Dept. Earth and Space Science
University of Washington
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