

JENNIFER E. HERTZBERG, PH.D.

International Ocean Discovery Program
Texas A&M University

jennifer.hertzberg@gmail.com

EDUCATION

- 2015 Ph.D., Oceanography**
Texas A&M University, College Station, TX
Dissertation: *Paleotemperature Proxies: Validation and Applications in the Atlantic and Pacific Oceans*
- 2010 M.S., Marine and Atmospheric Science**
Stony Brook University, Stony Brook, NY
Thesis: *The Tropical Atlantic Response to Abrupt Climate Change during Interstadial 12*
- 2007 B.S., Geology**
B.S., Astronomy, Physics minor
University of Massachusetts, Amherst, MA

EMPLOYMENT

- 2020 – present XRF Lab Manager**, International Ocean Discovery Program, Gulf Coast Repository at Texas A&M University
- 2017 – 2020 Postdoctoral Research Associate**, Department of Ocean, Earth & Atmospheric Sciences, Old Dominion University
- 2015 – 2017 Postdoctoral Fellow**, Department of Marine Science, University of Connecticut Avery Point
- Spring 2015 Lecturer for Introductory Oceanography**, Texas A&M University
- 2010 – 2014 Research & Teaching Assistant**, Texas A&M University
- 2007 – 2010 Research & Teaching Assistant**, Stony Brook University

PUBLICATIONS

- (23) Watkins, C. S., M. W. Schmidt, **J. E. Hertzberg (2021)**. Calibrating *Trilobatus sacculifer* Na/Ca ratios from Atlantic core-tops as a proxy for sea surface salinity. *Paleoceanography and Paleoclimatology*, 36, e2021PA004277.
- (22) Horner, T. J., S. H. Little, T. M. Conway, J. R. Farmer, **J. E. Hertzberg**, D. J. Janssen, A. J. Lough, J. McKay, A. Tessin, S. Galer, S. Jaccard, F. Lacan, A. Paytan, K. Wuttig, and GEOTRACES-PAGES Biological Productivity Working Group Members. (2021). Bioactive trace metals and their isotopes as paleoproductivity proxies: An assessment using GEOTRACES data. *Global Biogeochemical Cycles*, 35, e2020GB006814.
- (21) Farmer, J.R.*, **J. E. Hertzberg***, D. Cardinal, S. Fietz, K. Hendry, S. Jaccard, A. Paytan, P. Rafter, H. A. Ren, C. J. Somes, J. Sutton, and GEOTRACES-PAGES Biological Productivity Working Group Members (2021). Assessment of C, N, and Si isotopes as tracers of past ocean nutrient and carbon cycling. *Global Biogeochemical Cycles*, 35, e2020GB006775.
*co-first authors/corresponding authors – contributed equally to this work
- (20) Glaubke, R., K. Thirumalai, M. W. Schmidt, **J.E. Hertzberg (2021)**. Deciphering changes in high-frequency climate variability using geochemical populations of individual foraminifera. *Paleoceanography and Paleoclimatology*, 36, e2020PA004065.
- (19) **Hertzberg, J. E. (2021)**. Palaeoclimate puzzle explained by seasonal variation. *Nature*, 589, 521-522.

- (18) Marcantonio, F., R. Hostak, **J. E. Hertzberg**, M. W. Schmidt (2020). Deep equatorial Pacific Ocean oxygenation and atmospheric CO₂ over the last ice age. *Scientific Reports*, 10, 6606.
- (17) Khider, D., and 92 co-authors including **J.E. Hertzberg** (2019). PaCTS v1.0: A crowdsourced reporting standard for paleoclimate data. *Paleoceanography and Paleoclimatology*, 34, 1570-1596
- (16) Lund, D. C., **J. E. Hertzberg**, M. Lacerra (2019). Surface ocean carbon isotope minima in the S. Atlantic: Evaluating the influence of air-sea exchange. *Environmental Research Letters* 14, 055004.
- (15) Marcantonio, F., M. Loveley, M. W. Schmidt, **J. E. Hertzberg** (2019). Reply to: No evidence for equatorial Pacific dust fertilization. *Nature Geoscience*, 12, 156.
- (14) Ford, H. L., C. McChesney, **J. E. Hertzberg**, J. McManus (2018). A deep Eastern Equatorial Pacific thermocline during the Last Glacial Maximum. *Geophysical Research Letters*, 45, 1-11.
- (13) **Hertzberg, J. E.** (2017) Ice-sheet history revealed by fossils. *Nature*, 547, 35-36.
- (12) **Hertzberg, J. E.** and M. W. Schmidt (2017). Paleotemperatures. In: *Encyclopedia of Geochemistry*, Earth Science Series. Ed. by W. White. Springer. Pages 1-8.
- (11) Loveley, M. R., F. Marcantonio, M. Wisler, **J. E. Hertzberg**, M. W. Schmidt, M. Lyle (2017). Millennial- scale iron fertilization of the Eastern Equatorial Pacific over the past 100,000 years. *Nature Geoscience*, 10, 760-764.
- (10) Loveley, M. R., F. Marcantonio, M. Lyle, R. Ibrahim, **J. E. Hertzberg**, M. W. Schmidt (2017). Sediment redistribution and grain size effects on ²³⁰Th-normalized mass accumulation rates and focusing factors in the Panama Basin. *Earth and Planetary Science Letters*, 480, 107-120.
- (9) **Hertzberg, J. E.**, D. Lund, A. Schmittner, A. Skrivanek (2016). Evidence for a biological pump driver of atmospheric CO₂ rise during Heinrich Stadial 1. *Geophysical Research Letters*, 43, 12242-12251.
- (8) Lyle, M., R. Pockalny, P. Polissar, J. Lynch-Stieglitz, S. Bova, H. Ford, **J. E. Hertzberg**, S. Hovan, A. Jacobel, A. Maloney, R. Murray, J. Wilson, K. Wejnert, R. Xie (2016). Dynamic carbonate sedimentation on the Northern Line Islands Ridge, Palmyra Basin. *Marine Geology*, 379, 194-207.
- (7) **Hertzberg, J. E.**, M. W. Schmidt, T. S. Bianchi, R. Smith, M. R. Shields, F. Marcantonio (2016). Comparison of eastern tropical Pacific TEX₈₆ and *G. ruber* Mg/Ca derived SSTs: Insights from the Holocene and Last Glacial Maximum. *Earth and Planetary Science Letters*, 434, 320-332.
- (6) Lynch-Stieglitz, J., P. J. Polissar, A. W. Jacobel, S. A. Hovan, R. A. Pockalny, M. Lyle, R. W. Murray, A. C. Ravelo, S. Bova, A. Dunlea, H. L. Ford, **J. E. Hertzberg**, C. Wertman, A. E. Maloney, J. Shackford, K. Wejnert, R. C. Xie (2015). Glacial-interglacial changes in central tropical Pacific surface seawater property gradients. *Paleoceanography*, 30, 423-438.
- (5) **Hertzberg, J. E.** and M. W. Schmidt (2013). Refining *Globigerinoides ruber* Mg/Ca paleothermometry in the Atlantic Ocean. *Earth & Planetary Science Letters*, 383, 123-133.
- (4) Schmidt, M. W., P. Chang, **J. E. Hertzberg**, T. R. Them, L. Ji, B. L. Otto-Bliesner (2012). Impact of abrupt deglacial climate change on tropical Atlantic subsurface temperatures. *Proceedings of the National Academy of Sciences*, 109(36), 14348-14352.
- (3) **Hertzberg, J. E.**, D. Black, L. C. Peterson, R. Thunell, G. Haug (2012). Decadal- to centennial- scale tropical Atlantic climate variability across a Dansgaard-Oeschger cycle. *Paleoceanography*, 27, PA3218.
- (2) Schmidt, M. W. and **J. E. Hertzberg** (2011). Abrupt climate change during the last Ice Age. *Nature Education Knowledge* (peer reviewed educational article), 2(12): 11.
- (1) McIntosh, D. H., Y. Guo, **J. E. Hertzberg**, N. Katz, H. Mo, F. van den Bosch, X. Yang (2008). Ongoing assembly of massive galaxies by major merging in large groups and clusters from the SDSS. *Monthly Notices of the Royal Astronomical Society*, 388, 1537- 1556.

MANUSCRIPTS IN REVIEW AND REVISION

- (2) Close, B. J., M. W. Schmidt, **J. E. Hertzberg**, F. Marcantonio (**In Revision**). Constraining carbon storage in the deep eastern equatorial Pacific over the last 25 thousand years using benthic foraminiferal Boron/Calcium ratios. In revision for *Paleoceanography and Paleoclimatology*.
- (1) Schimmenti, D., F. Marcantonio, J. Sarao, C. Hayes, **J. E. Hertzberg**, M. W. Schmidt (**Submitted**). Deglacial variability in phytoplankton community structure and carbon export in the eastern equatorial Pacific Ocean. Submitted to *Nature Communications*.

MAJOR RESEARCH FUNDING

- 2017 – 2020 NSF Paleo Perspectives on Climate Change Program (P2C2), **\$355,000**
PI: M. W. Schmidt, Co-PI: T. S. Bianchi, **Post-Doc/Proposal author: J. E. Hertzberg**
Project: *Reconstructing Mean State and ENSO Variability in the Eastern Equatorial Pacific under Glacial Forcing: A Combined Geochemical and Organic Proxy Approach*
- 2014 – 2015 Cushman Foundation for Foraminiferal Research, **\$12,500**
Johanna M. Resig Foraminiferal Research Fellowship
- 2012 – 2013 ODASES (Ocean Drilling & Sustainable Earth Science) – Texas A&M-IODP Joint Program, **\$25,000**
Graduate Research Fellowship

AWARDS, FELLOWSHIPS, AND SCHOLARSHIPS

- 2021 **AGU Citation for Excellence in Refereeing for *Geochemistry, Geophysics, Geosystems***
- 2020 **AGU Citation for Excellence in Refereeing for *Paleoceanography & Paleoclimatology***
- 2015 **John Wormuth Memorial Award for Excellence in Undergraduate Teaching**
- 2013 – 2015 **James Sharp Graduate Fellowship**, Texas A&M University
- 2012 – 2014 **Unocal Graduate Fellowship in Geosciences**, Texas A&M University
- 2012 **David McGrail Memorial Scholarship in Oceanography**, Texas A&M University
- 2011 **Ralph Rayburn '69 Texas Sea Grant Scholarship**
- 2010 – 2013 **Lois & Elizabeth Scherk Graduate Fellowship in Oceanography**, Texas A&M
- 2010 – 2013 **NSF S-STEM Continental Margins Fellowship**, Texas A&M University
- 2010 **Lechner Graduate Scholarship**, Texas A&M University
- 2007 **Dean's Scholarship**, Stony Brook University

INVITED SEMINARS AND TALKS

- Brandeis University**, Department of Environmental Studies (March 2020)
- University of North Carolina Wilmington**, Department of Geology (February 2020)
- Worcester State University**, Department of Earth, Environment, and Physics (January 2020)
- Western Washington University**, Department of Geology (November 2019)
- Bowdoin College**, Department of Earth and Oceanographic Science (September 2019)
- University of Southern Mississippi**, Division of Marine Science (May 2019)
- Southeast Regional GSA Conference**, Invited Talk, Charleston SC (March 2019)
- Texas A&M University**, Department of Oceanography (February 2019)
- University of Hawaii**, School of Ocean and Earth Science and Technology (February 2019)

James Madison University, Department of Geology and Environmental Science (January 2019)
Coastal Carolina University, Department of Marine Sciences (January 2018)
Montclair State University, Department of Earth and Environmental Sciences (January 2018)
Ball State University, Geology Department (May 2017)
Columbia University, LDEO, Biology and Paleoenvironment Section (April 2017)
Wesleyan University, Department of Earth & Environmental Sciences (February 2016)
Old Dominion University, College of Ocean Earth & Atmospheric Sciences (September 2015)

TEACHING EXPERIENCE

Spring 2018 **Guest Lecturer**, Physical Geology, 3 lectures on volcanoes
Department of Ocean, Earth, & Atmospheric Sciences, Old Dominion University

Feb. 2018 Developed and led an *Introduction to Ocean Data View* workshop for 20 students
Department of Ocean, Earth, & Atmospheric Sciences, Old Dominion University

Spring 2015 **Lecturer**, *Introductory Oceanography*
Department of Oceanography, Texas A&M University
Enrollment: 68 students; **Full Instructor of Record.**

Fall 2014 **Teaching Assistant**, *Introductory Oceanography Laboratory*
Department of Oceanography, Texas A&M University
3 2-hour weekly lab sections, 20 students/section.

Spring 2013 **Guest Lecturer**, *Global Change*, 2 lectures on ocean acidification
College of Geosciences, Texas A&M University

Fall 2012 **Guest Lecturer**, *Introductory Oceanography*, 3 lectures on marine geology
Department of Oceanography, Texas A&M University

Fall 2008 **Teaching Practicum**, *Introductory Oceanography*
School of Marine and Atmospheric Science, Stony Brook

2007 – 2009 **Teaching Assistant**, Courses: (1) *Current Topics in World Climate and Atmosphere*;
(2) *Waves, Tides, Beaches*; (3) *Introductory Oceanography*
School of Marine and Atmospheric Science, Stony Brook

STUDENT MENTORING AND ADVISING

Old Dominion University: **Lenzie Ward** (B.S. Ocean and Earth Sciences, M.S. Oceanography)
 Ryan Glaubke (M.S. Oceanography)
 Brian Close (M.S. Oceanography)
 Colton Watkins (M. S. Oceanography)
 Megan Agee (NSF REU student from Virginia Wesleyan Univ.)

University of Connecticut: **Matthew Lacerra** (B.S./M.S. Marine Sciences)
 Melissa Cote (M.S. Marine Sciences)
 Sarah McCart (B.S. Marine Sciences)

Texas A&M University: **Paulina de los Santos** (B.S. Environmental Geosciences)
 Jessica Wang (B.S. Meteorology)

PROFESSIONAL DEVELOPMENT

Preparing for an Academic Career in the Geosciences: workshop through On the Cutting Edge (SERC), University of Colorado, Boulder, 2013

STEM Teaching Professional Development: Semester course through the Center for Teaching Excellence, Texas A&M University, 2013

WORKSHOP PARTICIPATION

GEOTRACES/PAGES workshop on Trace Element and Isotope Proxies in Paleoceanography: A synthesis workshop, Aix-Marseille, France, 2018

Demystifying the IODP Proposal Process for Early Career Scientists: Northern Atlantic and Gulf of Mexico, University of Texas, Austin, Texas, 2017

Short Course on Shipboard Sedimentology: Data Collection, Interpretation, and Integration, IODP Gulf Coast Repository, College Station, Texas, 2016

Individual Foraminifera Analyses for Paleoceanographic Reconstructions, Utrecht University, Utrecht, Netherlands, 2016

COMPARE 2012 Comparing Ocean Models with Paleo-Archives, University of Bremen, Germany, 2012

SERVICE TO THE COMMUNITY

Ad-Hoc Proposal Reviewer

*NSF: Geology and Geophysics Core Program, Paleo Perspectives on Climate Change (P2C2),
Major Research Instrumentation
Netherlands Organisation for Scientific Research (NWO)*

Manuscript Reviewer

Nature, Nature Geoscience, Nature Communications, Nature Communications Earth & Environment, Paleoceanography and Paleoclimatology, Earth and Planetary Science Letters, Geochimica et Cosmochimica Acta, Geophysical Research Letters, Scientific Reports, Geochemistry Geophysics Geosystems, Quaternary Science Reviews, Marine Micropaleontology, Biogeosciences, Journal of Geophysical Research – Oceans, Boreas, Palaeo³, Journal of Climate, Climate Dynamics

2021: **AGU Citation for Excellence in Refereeing for Geochemistry, Geophysics, Geosystems**

2020: **AGU Citation for Excellence in Refereeing for Paleoceanography & Paleoclimatology**

AGU Paleoceanography & Paleoclimatology Section Executive Committee

2019 – present	Social Media Coordinator
2017 – present	Committee Chair, selection for Harry Elderfield Student Paper Award
2015 – present	Early Career Representative
2016 – 2019	AGU Fall Meeting Program Committee member
2016 – 2018	Assistant Secretary
2015	Program Committee Member, AGU/CGU Joint Assembly
2013 – 2015	Student Representative

Service for the American Geophysical Union

Session Convener – AGU Fall Meeting:

- 2019: The 100s of CO₂ Centennial Session
- 2019: The Climate/Ocean Time Machine: Unconstrained Exploration of Earth's Climate
- 2019: Development and Application of Proxies for Paleoceanography and Paleoclimatology
- 2018: Paleoceanography and Paleoclimatology General Contributions
- 2017: Climate, Carbon Cycle, and Biogeochemical Reconstructions from the Eastern Pacific
- 2017: Paleoceanography and Paleoclimatology General Contributions

Outstanding Student Presentation Award (OSPA) Judge: 2015, 2016, 2017, 2018, 2019

OUTREACH, SERVICE, AND VOLUNTEER EXPERIENCE

IODP Diversity Equity and Inclusion Working Group, active member, 2020 – present
Figure Friday! Weekly virtual group meeting for ECR Paleoclimatologists, co-organizer, 2020 – 2021
Women in Paleoceanography - AGU Fall Meeting Mentor Program, co-organizer, 2018 – 2020
Post-Doctoral Advisory Board, founding member, Old Dominion University, 2017 – 2019
Virginia Aquarium & Marine Science Center, Career Day Volunteer, 2018, 2019
Blue Crab Bowl volunteer (National Ocean Sciences Bowl competition), 2018, 2019
Paleo-Nutrients bi-weekly paper discussion seminar organizer, UConn Avery Point, 2015 – 2016
Oceanography Graduate Council, Texas A&M University, 2010 – 2015; **President** 2013 to 2015
Bay Scallop Bowl judge (National Ocean Sciences Bowl competition), 2009, 2010
Graduate Programs Committee, Student Representative, Stony Brook University, 2009 – 2010
SoMAS Graduate Student Council, Stony Brook University, 2007 – 2010
Science Outreach Club, University of Massachusetts Amherst, 2003-2007; **Secretary** 2004-2007

FIELD EXPERIENCE

- 2013 NOAA Ship *Ron Brown* (22 days)** – North Atlantic (Reykjavik, Iceland to Funchal, Portugal), Cruise RB1304: A16N GO-SHIP/ Repeat Hydrography Cruise; Duties: CFC, SF₆, N₂O analyst.
- 2012 R/V *Marcus Langseth* (27 days)** – Line Islands Ridge (Honolulu, HI to Honolulu, HI), Cruise MGL1208: Line Islands geophysical survey and sediment coring cruise; Duties: planktonic foraminifera biostratigraphy and sediment core curating.
- 2010 R/V *Melville* (27 days)** – Eastern Tropical Pacific (Puntarenas, Costa Rica to Arica, Chile), Cruise MV1014: ²³⁰Th dynamics in the Eastern Equatorial Pacific Ocean; Duties: CTD sampling, sediment coring, core descriptions, core curating, geophysical watch.
- 2010 R/V *Hermano Ginés* (2 days)** – Cariaco Basin, Venezuela (Margarita Island to Margarita Island); Duties: sediment trap recovery and deployment, sediment coring.
- 2009 R/V *Seawolf* (2 days)** – Hudson Canyon, New York Bight (Atlantic City, NJ to Staten Island, NY); Duties: sediment trap deployment.

PROFESSIONAL AFFILIATIONS

American Geophysical Union, Earth Science Women's Network, Society for Women in Marine Sciences, PAGES Past Global Changes

MEDIA INTERVIEWS

- Jan 2020 **AGU Eos: 2020 Hindsight: A website for all paleo-CO₂ data**
<https://eos.org/articles/2020-hindsight-a-website-for-all-paleo-co2-data>
- July 2019 **NBC News: Climate scientists drive stake through heart of skeptics' argument.**
<https://www.nbcnews.com/mach/amp/ncna1033646>
- June 2018 **Nature: How a hobby can boost researchers' productivity and creativity.**
<https://www.nature.com/articles/d41586-018-05449-7>
- Nov 2017 **Mongabay: Should I stay, or should I go: is U.S. facing a climate scientist brain drain?**
<https://news.mongabay.com/2017/11/should-i-stay-or-should-i-go-is-u-s-facing-a-climate-scientist-brain-drain/>
- Jan 2017 **AGU Eos: Data Illuminate a Mountain of Molehills Facing Women Scientists.**
<https://eos.org/features/data-illuminate-mountain-molehills-facing-women-scientists>

CONFERENCE PRESENTATIONS & CONTRIBUTED ABSTRACTS

♦ denotes first author abstracts given as oral presentation at meeting/conference

† denotes graduate student mentee # denotes undergraduate student mentee

- (37) Schimmenti, D., F. Marcantonio, C. T. Hayes, **J. E. Hertzberg**, M. W. Schmidt. *Dynamics of biological productivity and carbon export in the easternmost Equatorial Pacific Ocean across Marine Isotope Stages 2-5*. AGU Fall Meeting, New Orleans, LA, 2021.
- (36) F. Marcantonio, C. T. Hayes, **J. E. Hertzberg**, M. W. Schmidt. *Dynamics of biological productivity and carbon export in the easternmost Equatorial Pacific Ocean over the last 25,000 years*. Goldschmidt, Virtual, 2021.
- (35) †Ward, L., M. W. Schmidt, **J. E. Hertzberg**, H. Spero, F. Marcantonio. *Reconstructing surface water carbonate ion concentration changes in the Eastern Equatorial Pacific across two Glacial-Interglacial climate transitions*. AGU Fall Meeting, Virtual, 2020.
- (34) **Hertzberg, J. E.**, M. Schmidt, †R. Glaubke, D. Vaughn, T. Bianchi, F. Marcantonio. *Reduced ENSO Variability during Marine Isotope Stage 3*. AGU Fall Meeting, San Francisco, CA, 2019.
- (33) †Close, B., M. W. Schmidt, **J. E. Hertzberg**, F. Marcantonio. *Refining the depth and location of the respired carbon pool in the tropical Pacific over the last 25 kyr using benthic B/Ca*. AGU Fall Meeting, San Francisco, CA, 2019.
- (32) †Ward, L., M. W. Schmidt, **J. E. Hertzberg**, H. Spero, F. Marcantonio. *Reconstructing surface water carbonate ion concentration in the Eastern Equatorial Pacific over the past 25 kyr using $\delta^{13}\text{C}$ and B/Ca in planktic foraminifera*. AGU Fall Meeting, San Francisco, CA, 2019.
- (31) †Watkins, C., **J. E. Hertzberg**, M. W. Schmidt. *Using Atlantic Sediment Cores to Evaluate Na/Ca ratios in *T. sacculifer* as a Paleosalinity Proxy*. AGU Fall Meeting, San Francisco, CA 2019.
- (30) Mekik, F., **J. E. Hertzberg**, M. Schmidt, J. Patten. *A multi basin calibration of the Mg/Ca paleothermometer corrected for habitat depth and test dissolution*. AGU Fall Meeting, San Francisco, CA, 2019.
- (29) Marcantonio, F., R. Hostak, **J. E. Hertzberg**, M. W. Schmidt. *Deep Pacific Oxygenation and Atmospheric CO₂ Over the Past 180 kyr*. AGU Fall Meeting, San Francisco, CA, 2019.
- (28) Schimmenti, D., F. Marcantonio, C. T. Hayes, **J. E. Hertzberg**, M. W. Schmidt. *Assessing export production on millennial timescales in the eastern equatorial Pacific Ocean*. AGU Fall Meeting, San Francisco, CA, 2019.

- (27) †**Hertzberg, J. E.**, †R. Glaubke, M. W. Schmidt, †L. Ward, F. Marcantonio. *Reconstructing tropical Pacific mean state and El-Niño-Southern Oscillation Variability over the last 60 kyr*. AGU Fall Meeting, Washington DC, 2018.
- (26) Hostak, R., F. Marcantonio, **J. E. Hertzberg**, M. W. Schmidt. *Authigenic uranium evidence for deep-ocean respired carbon storage in the Eastern Equatorial Pacific over the past 180 kyr*. AGU Fall Meeting, Washington DC, 2018.
- (25) Schmidt, M. W., **J. E. Hertzberg**, †M. Agee, T. S. Bianchi, F. Marcantonio, M. R. Shields. *Temporal evolution of the TEX₈₆ export depth in the Eastern Equatorial Pacific across the last deglaciation*. AGU Fall Meeting, Washington DC, 2018.
- (24) †Ward, L., M. W. Schmidt, **J. E. Hertzberg**, F. Marcantonio. *Reconstructing surface water carbonate ion concentrations in the Eastern Equatorial Pacific using B/Ca ratios in Globigerina bulloides over the past 25 kyr*. AGU Fall Meeting, Washington DC, 2018.
- (23) **Hertzberg, J. E.**, M. W. Schmidt, F. Marcantonio, T. S. Bianchi. *Tropical Pacific mean state and ENSO variability across MIS 3*. AGU Fall Meeting, New Orleans, LA, 2017.
- (22) Marcantonio, F., M. Loveley, M. Wisler, R. Hostak, **J. E. Hertzberg**, M. W. Schmidt, M. Lyle. *Millennial Variability of Eastern Equatorial Bottom Water Oxygenation and Atmospheric CO₂ over the past 100 kyr*. AGU Fall Meeting, New Orleans, LA, 2017.
- (21) †Glaubke, R., M. W. Schmidt, †L. Warner, **J. E. Hertzberg**, F. Marcantonio, T. Bianchi. *Changes in Eastern Equatorial Pacific thermocline structure across the last Deglaciation: evidence from the Carnegie Ridge*. AGU Fall Meeting, New Orleans, LA, 2017.
- (20) McCourty, M., M. W. Schmidt, †R. Glaubke, **J. E. Hertzberg**, F. Marcantonio, T. S. Bianchi. *Reconstructing Eastern Tropical Pacific productivity across Marine Isotope Stage 3 using foraminiferal faunal counts*. AGU Fall Meeting, New Orleans, LA, 2017.
- (19) Collins, M. S., **J. E. Hertzberg**, F. Mekik, M. W. Schmidt. *A new multi-basin calibration for estimating paleo-temperature using Mg/Ca from tests of Neogloboquadrina dutertrei*. AGU Fall Meeting, New Orleans, LA, 2017.
- (18) †**Hertzberg, J. E.**, D. C. Lund, A. Schmittner, A. Skrivanek. *Evidence for a biological pump driver of atmospheric CO₂ rise during Heinrich Stadial 1 and the Younger Dryas*. AGU Fall Meeting, San Francisco, CA, 2016.
- (17) Loveley, M. R., F. Marcantonio, M. W. Lyle, **J. E. Hertzberg**. *Iron Fertilization and Productivity in the Panama Basin*. AGU Fall Meeting, San Francisco, CA, 2016.
- (16) **Hertzberg, J. E.**, D. C. Lund, A. Schmittner, A. Skrivanek. *Evidence for a biological pump driver of atmospheric CO₂ rise during Heinrich Stadial 1*. 12th International Conference on Paleooceanography, Utrecht, Netherlands, 2016.
- (15) †**Hertzberg, J. E.** and M. Schmidt. *Multi-species temperature and proxy reconstructions of the tropical Pacific mean state across MIS 3*. AGU Fall Meeting, San Francisco, CA, 2015.
- (14) Lyle, M, T. C. Moore Jr., A. C. Ravelo, J. Baldauf, J. Backman, H. Ford, A. Stepanova, **J. E. Hertzberg**. *Paradoxical high productivity in the Eastern Equatorial Pacific during the Miocene El Padre, ODP 849, IODP U1337, U1338*. AGU Fall Meeting, 2015.
- (13) †**Hertzberg, J. E.** and M. W. Schmidt. *Thermocline temperature variability reveals shifts in the tropical Pacific mean state across MIS 3*. AGU Fall Meeting, San Francisco, CA, 2014.
- (12) Lovely, M. R., F. Marcantonio, M. Lyle, R. Ibrahim, †J. Wang, **J. E. Hertzberg**. *Grain size biasing of ²³⁰Th-driven focusing factors in the Panama Basin*. AGU Fall Meeting, 2014.

- (11) Randle, N. J., M. W. Schmidt, T. S. Bianchi, **J. E. Hertzberg**, M. R. Shields. *Understanding TEX_{86}^H temperature estimates in the Eastern Pacific Ocean over the last deglacial*. AGU Fall Meeting, 2014.
- (10) **Hertzberg, J. E.**, M. W. Schmidt, T. S. Bianchi, R. W. Smith, M. R. Shields, N. J. Randle. *TEX_{86} temperatures and multi-species foraminiferal Mg/Ca temperatures and $\delta^{13}C$ reflect changes in the glacial nutrient dynamics and upper water column hydrography of the Eastern Equatorial Pacific*. AGU Fall Meeting, San Francisco, CA, 2013.
- (9) **Hertzberg, J. E.**, M. W. Schmidt, T. Bianchi, R. W. Smith, M. R. Shields. *Comparison of TEX_{86} and Mg/Ca SSTs reflects changes in glacial nutrient dynamics of the Eastern Equatorial Pacific*. 11th International Conference on Paleoceanography, Sitges, Spain, 2013.
- (8) Schmidt, M. W., **J. E. Hertzberg**, T. R. Them. *Foraminiferal Ba/Ca ratios and $\delta^{18}O_{SW}$ values from the southern Caribbean reflect hydrologic cycle variability over the past 21 kyr*. 11th International Conference on Paleoceanography, Sitges, Spain, 2013.
- (7) **Hertzberg, J. E.** and M. W. Schmidt. *Reinvestigating the “salinity effect” on Atlantic *Globigerinoides ruber* Mg/Ca ratios*. AGU Fall Meeting, San Francisco, CA, 2012.
- (6) Schmidt, M. W., **J. E. Hertzberg**, T. S. Bianchi, R. Smith, M. Shields. *Holocene and Last Glacial Maximum TEX_{86} and *Globigerinoides ruber* Mg/Ca sea surface temperatures from the Eastern Equatorial Pacific*. AGU Fall Meeting, San Francisco, CA, 2012.
- (5) **Hertzberg, J. E.**, M. W. Schmidt, P. Chang. *Impact of abrupt deglacial climate change on tropical Atlantic subsurface temperatures*. COMPARE Workshop on Comparing Ocean Models with Paleo-Archives, University of Bremen, Bremen, Germany, 2012.
- (4) **Hertzberg, J. E.**, P. Chang, M. W. Schmidt, L. Ji, B. L. Otto-Bliesner. *Modeling the response of tropical North Atlantic subsurface temperatures to AMOC variability under LGM boundary conditions*. AGU Fall Meeting, San Francisco, CA, 2011.
- (3) Schmidt, M. W., **J. E. Hertzberg**, T. R. Them, A. O. Parker, P. Chang. *Deglacial subsurface temperature change in the tropical North Atlantic linked to Atlantic meridional overturning circulation variability*. AGU Fall Meeting, San Francisco, CA, 2011.
- (2) **Hertzberg, J. E.** and M. W. Schmidt. *Quantifying the $[Ba^{2+}]$: $\delta^{18}O_{SEAWATER}$: surface salinity relationship in the Eastern Equatorial Pacific*. V. M. Goldschmidt Conference, Prague, Czech Republic, 2011.
- (1) **Hertzberg, J. E.**, D. E. Black, L. C. Peterson, R. C. Thunell, G. H. Haug. *The tropical Atlantic response to abrupt climate change during Interstadial 12*. AGU Fall Meeting, San Francisco, CA, 2010.