

Kristine L. DeLong

227 Howe-Russell Geoscience

Baton Rouge, LA 70803

work 225-578-5836 kdelong@lsu.edu

www.ga.lsu.edu/delongpastlab/pastlab.html

Education

University of South Florida, College of Marine Science, St. Petersburg FL	2008
Ph.D. in Marine Science with a concentration in Geological Oceanography	
University of South Florida, College of Marine Science, St. Petersburg FL	2006
M.S. in Marine Science with a concentration in Geological Oceanography	
University of South Florida, Tampa FL	
B.S. in Mechanical Engineering	1991

Appointments

Coastal Studies Institute Fellow, Louisiana State University	February 2018–Present
Associate Professor	August 2015–Present
Department of Geography and Anthropology, Louisiana State University, Baton Rouge, LA	
Assistant Professor	August 2009–August 2015
Department of Geography and Anthropology, Louisiana State University, Baton Rouge, LA	
Geologist	May 2008–August 2009
U.S. Geological Survey, Center for Coastal Studies, St. Petersburg FL	

Professional Recognition and Awards

Received an outstanding reviewer award from Paleooceanography and Paleoclimatology	2019
LSU Alumni Association Faculty Excellence Award	2017
Tiger Athletic Foundation Teaching Award	2016
Louisiana State University Alumni Association Rising Faculty Research Award	2014
Flagship Faculty Member for LSU Today	2013
Special Thanks for Achieving Results (STAR) award, U.S. Geological Survey	2009
Gulf Oceanographic Trust Fellowship, College of Marine Science	2007
Outstanding Student Presenter, 1 st International Sclerochronology Conference	2007
Carl Riggs Endowed Fellowship, College of Marine Science	2006
Exxon Scholarship, Bermuda Biological Station for Research	2004

Grants Awarded

Summary	Funded
Government Funding Agencies	\$3,415,448
Private Foundations	\$69,838
University Grants	\$61,727
Travel Grants	\$12,800
Total	\$3,559,813

- Bureau of Ocean Energy Management, Coastal Marine Institute FY 2019, “Investigation of an Ancient Bald Cypress Forest in the Northern Gulf of Mexico: Phase 2,” Lead PI Kristine DeLong and co-PIs Kehui Xu of the Department of Oceanography, Grant Harley of University of Idaho, and Andy Reese of the Department of Geography and Geology at University of Southern Mississippi. **Funded \$538,235** for three years starting December 2019.
- Department of the Interior, “A Proposal to Host the Department of the Interior’s South Central Climate Adaptation Science Center,” lead PI Renee A. McPherson, University of Oklahoma, LSU co-PIs, Chris D’Elia, Kristine DeLong, and Victor Rivera-Monroy. **Funded \$642,032** for five years for LSU starting September 2019.
- NOAA RISA program, “Building Resilience to Extreme Events and Water Hazard Planning in Remote, Rural Communities,” co-PI with Barry Keim, and Jean Renee Edwards, **funded for \$55,907** for August 2018–2019.
- National Science Foundation, NSF 13-576 Paleo Perspectives on Climate Change (P2C2) Program, Award #1805702, 8/1/18–7/31/2021, “New Perspectives on Paleo-ENSO Conditions in Coastal Peru as Seen Through Short-Lived Bivalves,” PIs DeLong and David Chicoine. **Funded \$411,493** for September 2018–2021.
- U.S. Department of the Interior (DOI), U.S. Geological Survey, Climate Science Centers, and the National Climate Change and Wildlife Science Center, Annual Funding Opportunity Fiscal Year 2017. Submitted a letter of intent titled, “Regional Graduate Student, Post-Doc, and Early Career Researcher Training III,” PI Derek Rosendahl, Co-PIs **Kristine DeLong**, and Victor H. Rivera-Monroy. **Funded for \$61,783, September 2017–2018.**
- Traditional and Undergraduate Enhancement, Louisiana State Board of Regents, for Fiscal Year 2016–2017. “High-Resolution Raman System for Multidisciplinary Research at LSU.” PI Manas Ranjan Gartia, co-PIs **Kristine L. DeLong**, Kerry M. Dooley, Martin Feldman, Louis H. Haber, Kevin Michael McPeak, Devireddy, Ramachandra, Earl Ward Plummer, Isiah M Warner, and Phillip Sprunger. **Funded for \$232,609**, July 2017–2018.
- Traditional and Undergraduate Enhancement, Louisiana State Board of Regents, for Fiscal Year 2015–2016. “Inductively Coupled Plasma Mass Spectrometer for Research in Geography and Anthropology,” PI **Kristine L. DeLong**, Heather McKillop, David Chicoine, Ginesse Listi, and Rebecca Saunders. **Funded for \$101,227 starting July 1, 2016–June 30, 2018.**
- Bureau of Ocean Energy Management (BOEM) FY 2015 Louisiana Coastal Marine Institute, Award #M15AC00016, 9/1/2015–8/31/2019 “Investigation of an Ancient Bald Cypress Forest in the Northern Gulf of Mexico, U.S.A.,” **Lead PI Kristine DeLong** and co-PIs Sam Bentley, Kehui Xu, Grant Harley and Andy Reese. **Funded \$261,077.**
- U.S. Department of the Interior, U.S. Geological Survey, Climate Science Centers, and the National Climate Change and Wildlife Science Center, 9/1/2015–8/31/2017, “Training for Native Tribes of Louisiana and New Mexico on Understanding Climate in a Changing World,” Lead PI **Kristine L. DeLong** and co-PIs Micha Rahder. **Funded for \$86,180.**
- Department of the Interior, U.S. Geological Survey, South Central Climate Science Center, awarded to University of Oklahoma with a subcontract to Louisiana State University 2013–2019, Co-PIs Chris D’Elia, Kevin Robbins, Victor H Rivera-Monroy, and **Kristine L. DeLong**, **funded \$642,032 for five years for LSU.**
- Pilot Funding for New Research (Pfund), Louisiana Experimental Program to Stimulate Competitive Research (EPSCoR), The National Science Foundation and the Louisiana Board of Regents. Submitted September 25, 2013 a proposal titled, “Development of Coral Microatolls for Environmental Reconstructions,” Lead PI Kristine DeLong, **funded for \$10,000** for February 1, 2014 to June 2015.

Wallace Research Foundation, December 2012, submitted a proposal “Recovery of Wood Samples from Ancient Cypress Forest in the Gulf of Mexico,” Kristine DeLong is a co-PI with Grant Harley of University of Southern Mississippi. **Funded \$25,000** in 2013 through University of Southern Mississippi.

Research Competitiveness Subprogram (RCS), Louisiana State Board of Regents, for Fiscal Year 2012–2013. June 1, 2013 to June 30, 2016, “Assessment of the Geochemical Signals in Corals from Veracruz Mexico for Reconstructing Environmental Conditions in the Southwest Gulf of Mexico,” **Funded for \$136,827**.

Pilot Funding for New Research (Pfund), Louisiana Experimental Program to Stimulate Competitive Research (EPSCoR), The National Science Foundation and the Louisiana Board of Regents. Submitted December 2010 a proposal titled “Reconstructions of Past Climate from Modern and Fossil Corals.” **Funded \$10,000**.

Graduate Students

Summary	Chair	Committee Member
Current Ph.D.	1	3
Current Master	0	0
Graduated Ph.D.	1	12
Graduated Master	2	16
Incomplete studies	5	8
Total	9	39

Undergraduate Students

Summary	# of students
Senior Thesis Committee	3
Undergraduate Research Programs	9
Work Study	25
Research Assistants	5
Independent Study	5
Total	45

Publications (*Student authors are underlined>*)

Summary	First author	Co-author	Student	Total
Book Chapters		1	1	
Journal Publications	9	12	7	28
Government Publications	1	2		3
Conference Proceedings	2	2		
Encyclopedia Entries	1 single author			1
Documentaries		1		1
Original Data Sets	5	5		10
Reports for Projects	15			15
Miscellaneous	1 single author	2 co-author	1	5
Totals 32 first author (2 single author)		25	8	66

Books and Book Chapters

Hopkinson, Charles S., Alan P. Covich, Chris B. Craft, **Kristine L. DeLong**, T. W. Doyle, Neal Flanagan, Mary C. Freeman, Ellen R. Herbert, Andrew Mehring, Jacqueline E. Mohan, Catherine M. Pringle, and Curtis J. Richardson, (2013), The Effects of Climate Change on Natural Ecosystems of the Southeast USA, in *Climate of the Southeast United States: Variability, Change, Impacts, and Vulnerability*, Ingram, Keith T., Kirstin Dow, Lynne Carter, and Julie Anderson, editors, Island Press, Washington, D.C., pp. 237–270.

Journal Publications

- Dee, Sylvia, Mark Torres, Rowan Martindale, Anna Weiss, **Kristine DeLong**, (2019), The future of reef ecosystems in the Gulf of Mexico: insights from coupled climate model simulations and ancient hot-house reefs. *Frontiers in Marine Science*, 6(691), [doi:10.3389/fmars.2019.00691](https://doi.org/10.3389/fmars.2019.00691), part of a special issue titled, “Gulf of Mexico Reefs: Past, Present and Future.”
- Sayani, Hussein R., Kim M. Cobb, **Kristine L. DeLong**, Nicholas T. Hitt, and Ellen R. M. Druffel, (2019), Intercolony $\delta_{18}\text{O}$ and Sr/Ca variability among *Porites* spp. corals at Palmyra Atoll: Towards more robust coral-based estimates of climate, *Geochemistry, Geophysics, Geosystems*, accepted October 14, 2019, [doi:10.1029/2019GC008420](https://doi.org/10.1029/2019GC008420).
- Khider, D., J. Emile-Geay, N.P. McKay, Y. Gil, D. Garijo, V. Ratnakar, M. Alonso-Garcia, B. Sebastian, O. Bothe, P. Brewer, A. Bunn, M. Chevalier, A. Csank, E. Dassié, **K. DeLong**, T. Felix, P. Francus A. Frappier, W. Gray, S. Goring, L. Jonkers1 M. Kahle, D. Kaufman, N. Kehrwald, B. Martrat H. McGregor, J. Richey, A. Schmittner, E. Sutherland K. Thirumalai, K. Allen, F. Arnaud, Y. Axford, Timothy T. Barrows, L. Bazin, S.E. Pilaar Birch, E. Bradley, J. Bregy, E. Capron, O. Cartapanis, H.-W. Chiang, K. Cobb, M. Debret, R. Dommain, J. Du, K. Dyez, S. Emerick, M. Erb, G. Falster, W. Finsinger, D. Fortier, Nicolas Gauthier, S. George, E. Grimm, J. Hertzberg, F. Hibbert, A. Hillman, W. Hobbs, M. Huber, A.L.C. Hughes, S. Jaccard, R. Jiaoyang, M. Kienast, B. Konecky, G. Leroux, V. Lyubchich, V.F. Novello, L. Olaka, J.W. Partin, C. Pearce, S. Phipps, C. Pigno, N. Piotrowska, M.-S. Poli, A. Prokopenko, F. Schwanck, C. Stepanek, G. Swann, R. Telford, E. Thomas, Z. Thomas, S. Truebe, L. von Gunten, A. Waite, N. Weitzel, B. Wilhelm, J. Williams, J.J. Williams, M. Winstrup, N. Zhao, Y. Zhou. (2019), PaCTS 1.0: A Crowdsourced Reporting Standard for Paleoclimate Data. *Paleoceanography and Paleoclimatology*, <https://doi.org/10.1029/2019PA003632>.
- Black, Bryan A., Carin Andersson, Paul G. Butler, Michael Carroll, **Kristine L. DeLong**, David J. Reynolds, Bernd R. Schöne, James Scourse, Peter van der Sleen, Alan D. Wanamaker, and Rob Witbaard, (2019), The revolution of crossdating in marine paleoecology and paleoclimatology, *Biology Letters* 15(1), 20180665, [doi:10.1098/rsbl.2018.0665](https://doi.org/10.1098/rsbl.2018.0665).
- Konecky, Bronwen, Laia Comas-Bru, Emilie P. Dassié, **Kristine L. DeLong**, and Judson W. Partin, (2018), Piecing Together the Big Picture on Water and Climate, *Eos*, 99, [doi:10.1029/2018EO095283](https://doi.org/10.1029/2018EO095283).
- Reese, Carl A., Grant L. Harley, **Kristine L. DeLong**, Samuel J. Bentley Sr., Kehui Xu, Suyapa Gonzalez, Jonathan T. Truong, Jeffrey Obelcz, and Alicia Caporaso, (2018), Stratigraphic pollen analysis performed on a Late-Pleistocene cypress forest preserved on the northern Gulf of Mexico continental shelf, *Journal of Quaternary Science*, 33(8), 865–870, [doi:10.1002/jqs.3074](https://doi.org/10.1002/jqs.3074).
- Gonzalez, Suyapa, Samuel J. Bentley Sr., **Kristine L. DeLong**, Kehui Xu, Jeffrey Obelcz, Jonathan Truong, Grant L. Harley, Carl A. Reese, Alicia Caporaso, (2017), Facies Reconstruction of a Late Pleistocene Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf, *Gulf Coast Association of Geological Societies Transactions*, 67, 133–146.
- Tucker, Clay S., Jill C. Trepanier, Grant L. Harley, and **Kristine L. DeLong**, (2017), Maritime Slash Pine Trees (*Pinus elliottii* var. *elliottii* Engelm.) Record Tropical Cyclone Activity along the Northern Gulf of Mexico from 1909–2014, *Journal of Coastal Research*, [doi:10.2112/JCOASTRES-D-16-00177.1](https://doi.org/10.2112/JCOASTRES-D-16-00177.1).

- PAGES2K Consortium, Julien Emile-Geay, Nicholas McKay, Darrell Kaufman, Lucien von Gunten, Jianghao Wang, Kevin Anchukaitis, Nerilie Abram, Jason Addison, Mark Curran, Michael Evans, Benjamin Henley, Hao Zhixin, Belen Martrat, Helen McGregor, Raphael Neukom, Gregory Pederson, Barbara Stenni, Kaustubh Thirumalai, Johannes Werner, Chenxi Xu, Dmitry Divine, Bronwyn Dixon, Joelle Gergis, Ignacio Mundo, Takeshi Nakatsuka, Steven Phipps, Cody Routson, Eric Steig, Jessica Tierney, Jonathan Tyler, Kathryn Allen, Nancy Bertler, Jesper Björklund, Brian Chase, Min-Te Chen, Edward Cook, Rixt de Jong, **Kristine DeLong**, Daniel Dixon, Alexey Ekaykin, Vasile Ersek, Helena Filipsson, Pierre Francus, Mandy Freund, Massimo Frezzotti, Narayan Gaire, Konrad Gajewski, Quansheng Ge, Hugues Goosse, Anastasia Gornostaeva, Martin Grosjean, Kazuho Horiuchi, Anne Hormes, Katrine Husum, Elisabeth Isaksson, Selvaraj Kandasamy, Kenji Kawamura, Hali Kilbourne, Koc Nalan, Guillaume Leduc, Hans Linderholm, Andrew Lorrey, Vladimir Mikhalenko, P. Mortyn, Hideaki Motoyama, Andrew Moy, Robert Mulvaney, Philipp Munz, David Nash, Hans Oerter, Thomas Opel, Anais Orsi, Dmitriy Ovchinnikov, Trevor Porter, Heidi Roop, Casey Saenger, Masaki Sano, David Sauchyn, Krystyna Saunders, Marit-Solveig Seidenkrantz, Mirko Severi, Xuemei Shao, Marie-Alexandrine Sicre, Michael Sigl, Kate Sinclair, Scott St George, Jeannine St. Jacques, Meloth Thamban, Udyia Thapa, Elizabeth Thomas, Chris Turney, Ryu Uemura, Andre Viau, Diana Vladimirova, Eugene Wahl, James White, Zicheng Yu, and Jens Zinke, (2017), A Global Multiproxy Database for Temperature Reconstructions of the Common Era, *Scientific Data*, 4, 170088, [doi:10.1038/sdata.2017.88](https://doi.org/10.1038/sdata.2017.88).
- Jennifer A. Flannery, Julie N. Richey, Kaustubh Thirumalai, Richard Z. Poore, and **Kristine L. DeLong**, (2017), Multi-species Coral Sr/Ca Based Sea-Surface Temperature Reconstruction Using *Orbicella faveolata* and *Siderastrea siderea* from the Florida Straits, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 466, 100–109, [doi:10.1016/j.palaeo.2016.10.022](https://doi.org/10.1016/j.palaeo.2016.10.022).
- Pollack, Anna L., Philipp van Beyan, **Kristine L. DeLong**, Victor Polyak and Yemane Asmerom, (2017), A Speleothem-Based Mid-Holocene Precipitation Record for West-Central Florida, *The Holocene*, 27(7), 987–996, [doi:10.1177/0959683616678463](https://doi.org/10.1177/0959683616678463).
- Williams, Branwen, Jochen Halfar, **Kristine L. DeLong**, Ellie Smith, Robert S. Steneck, P. Lebednik, D.E. Jacob, J. Fietzke, and G.W.K. Morre, (2017), North Pacific Twentieth Century Decadal-Scale Variability is Unique for the Past 342 Years, *Geophysical Research Letters*, 44(8), 3761–3769, [doi:10.1002/2017GL073138](https://doi.org/10.1002/2017GL073138).
- Dassie, Emilie, **Kristine L. DeLong**, Hali Kilbourne, Branwen Williams, Nerilie Abram, Logan Brenner, Chloé Brahmi, Kim Cobb, Thierry Corrège, Delphine Dissard, Julien Emile-Geay, Heitor Evangelista, Michael Evans, Jesse Farmer, Thomas Felis, Michael Gagan, David Gillikin, Nathalie Goodkin, Myriam Khodri, Ana Carolina Lavagnino, Michèle LaVigne, Claire Lazareth, Braddock Linsley, Janice Lough, Helen McGregor, Intan Nurhati, Gilman Ouellette, Laura Perrin, Maureen Raymo, Brad Rosenheim, Michael Sanstrom, Bernd Schöne, Abdelfettah Sifeddine, Samantha Stevenson, Diane Thompson, Amanda Waite, Alan Wanamaker, and Henry Wu, (2017), Save our Marine Annually-Resolved Proxy Archives (MARPA)!, accepted September 2016, published online February 24, 2017, <https://eos.org/project-updates/saving-our-marine-archives>.
- DeLong, Kristine L.**, Jennifer A. Flannery, Richard Z. Poore, Terrence M. Quinn, Christopher R. Maupin, Ke Lin, and Chuan-Chou Shen, (2016), Refining Temperature Reconstructions with the Atlantic coral *Siderastrea siderea*, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 462, 1–15, [doi:10.1016/j.palaeo.2016.08.028](https://doi.org/10.1016/j.palaeo.2016.08.028).
- Pollack, Anna L., Philipp E. van Beyan, **Kristine L. DeLong**, Victor Polyak, Yemane Asmerom, and Philip P. Reeder, A Mid-Holocene Paleoprecipitation Record from Belize, (2016), *Palaeogeography, Palaeoclimatology, Palaeoecology*, 463, 103–111, <http://dx.doi.org/10.1016/j.palaeo.2016.09.021>.

- Pino, Jordan V., Robert V. Rohli, **Kristine L. DeLong**, Grant L. Harley, Jill C. Trepanier, (2016), Using Proxy Records to Document Gulf of Mexico Tropical Cyclones from 1820–1915, *PLoS ONE* 11(11): e0167482, [doi:10.1371/journal.pone.0167482](https://doi.org/10.1371/journal.pone.0167482).
- DeLong, Kristine L.**, (2015), Corals - Sclerochronology, in *Encyclopedia of Scientific Dating Methods*, Rink, W. Jack, Jeroen W. Thompson, editors, Springer, Netherlands, Chapter 154-3, pp 187-191, [doi:10.1007/978-94-007-6304-3_154](https://doi.org/10.1007/978-94-007-6304-3_154).
- Liu, Yi, Li Lo, Zhengguo Shi, Kuo-Yen Wei, Chien-Ju Chou, Yi-Chi Chen, Chih-Kai Chuang, Chung-Che Wu, Horng-Sheng Mii, Zicheng Peng, Hiroshi Amakawa, George S. Burr, Shih-Yu Lee, **Kristine L. DeLong**, Henry Elderfield, and Chuan-Chou Shen, (2015), Obliquity Pacing of Western Pacific Intertropical Convergence Zone Over the Past 282,000 Years, *Nature Communications*, [doi:10.1038/ncomms10018](https://doi.org/10.1038/ncomms10018).
- DeLong, Kristine L.**, Jennifer Flannery, Richard Z. Poore, Terrence M. Quinn, Christopher R. Maupin, Ke Lin, and Chuan-Chou Shen, (2014), A Reconstruction of Sea Surface Temperature Variability in the Southeastern Gulf of Mexico from 1734 to 2008 C.E. Using Cross-Dated Sr/Ca Records from the Coral *Siderastrea siderea*, *Paleoceanography*, 29(5), 403–422, [doi:10.1002/2013PA002524](https://doi.org/10.1002/2013PA002524).
- Williams, Branwen, Jochen Halfar, **Kristine L. DeLong**, Steffen Hetzinger, Robert S. Steneck, and Dorrit E. Jacob, (2014), Multi-Specimen and Multi-Site Calibration of Aleutian Coralline Algal Mg/Ca to Sea Surface Temperature, *Geochimica et Cosmochimica Acta*, 139, 190–204, <http://dx.doi.org/10.1016/j.gca.2014.04.006>.
- DeLong, Kristine L.**, Terrence M. Quinn, Frederick W. Taylor, Ke Lin, and Chuan-Chou Shen, (2013), Improving Coral-Base Paleoclimate Reconstructions by Replicating 350 Years of coral Sr/Ca Variations, *Palaeogeography, Palaeoclimatology, Palaeoecology*. 373, 6–24, [doi:10.1002/2013PA002524](https://doi.org/10.1002/2013PA002524).
- Liu, Yi, Zicheng Peng, Chuan-Chou Shen, Renjun Zhou, Shaohua Song, Zhengguo Shi, Tegu Chen, Gangjian Wei, **Kristine L. DeLong**, (2013), Recent 121-Year Variability of Western Boundary Upwelling in the Northern South China Sea, *Geophysical Research Letters*, 40(12), 3180–3183, [doi:10.1002/grl.50381](https://doi.org/10.1002/grl.50381).
- DeLong, Kristine L.**, Terrence M. Quinn, Frederick W. Taylor, Ke Lin, and Chuan-Chou Shen, (2012), Sea Surface Temperature Variability in the Southwest Tropical Pacific Since AD 1649, *Nature Climate Change*, 2, 799-804, [doi:10.1038/nclimate1583](https://doi.org/10.1038/nclimate1583).
- DeLong, Kristine L.**, Jennifer Flannery, Christopher R. Maupin, Richard Z. Poore, and Terrence M. Quinn, (2011), A Coral Sr/Ca Calibration and Replication Study of Two Massive Corals from the Gulf of Mexico, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 307, 117–128, [doi:10.1016/j.palaeo.2011.05.005](https://doi.org/10.1016/j.palaeo.2011.05.005).
- DeLong, Kristine L.**, Terrence M. Quinn, Chuan-Chou Shen, and Ke Lin (2011), Reply to Comment on “A Snapshot of Climate Variability at Tahiti 9.5 ka Using a Fossil Coral from IODP Expedition 310,” *Geochemistry, Geophysics, Geosystems*, 12, Q03013, [doi:10.1029/2010GC003461](https://doi.org/10.1029/2010GC003461).
- DeLong, Kristine L.**, Terrence M. Quinn, Chuan-Chou Shen, and Ke Lin, (2010), A Snapshot of Climate Variability at Tahiti 9.5 ka Using a Fossil Coral from IODP Expedition 310, *Geochemistry, Geophysics, Geosystems*, 11, Q06005, [doi:10.1029/2009GC002758](https://doi.org/10.1029/2009GC002758).
- DeLong, Kristine L.**, Terrence M. Quinn, Gary T. Mitchum, and Richard Z. Poore (2009), Evaluating Highly Resolved Paleoclimate Records in the Frequency Domain for Multidecadal-Scale Climate Variability, *Geophysical Research Letters*, 36, L20702, [doi:10.1029/2009GL039742](https://doi.org/10.1029/2009GL039742).
- Poore, Richard Z., **Kristine L. DeLong**, Julie N. Richey, and Terrence M. Quinn (2009), Evidence of Multidecadal Climate Variability and the Atlantic Multidecadal Oscillation from a Gulf of Mexico Sea-Surface Temperature-Proxy Record, *Geo-Marine Letters*, 29(6), 477–484, [doi:10.1007/s00367-009-0154-6](https://doi.org/10.1007/s00367-009-0154-6).

DeLong, Kristine L., Terrence M. Quinn, and Frederick W. Taylor, (2007), Reconstructing Twentieth-Century Sea Surface Variability in the Southwest Pacific: A Replication Study Using Multiple Coral Sr/Ca Records from New Caledonia, *Paleoceanography*, 22, PA4212, [doi:10.1029/2007PA001444](https://doi.org/10.1029/2007PA001444).

Government Reports

DeLong, Kristine L., Samuel J. Bentley Sr., Kehui Xu, Grant L. Harley, Carl Andy Reese, Jeff Obelcz, Suyapa Gonzalez, and Jonathan T. Truong. (in press). Investigation of an Ancient Bald Cypress Forest in the Northern Gulf of Mexico Final Report. U.S. Department of the Interior, Bureau of Ocean Energy Management. OCS Study BOEM M15AC00016. 110 pp.

Hickey, Todd D., Christopher D. Reich, **Kristine L. DeLong**, Richard Z. Poore, and John C. Brock (2013), Holocene Core Logs and Site Methods for Modern Reef and Head-Coral Cores: Dry Tortugas National Park, Florida, *U.S. Geological Survey Open-File Report 2012-1095*, 27 p., <http://pubs.usgs.gov/of/2012/1095/>.

Reich, Christopher D., T. Don Hickey, **Kristine L. DeLong**, Richard Z. Poore, and John Brock (2009), Holocene Core Logs and Site Statistics for Modern Patch-Reef Cores—Biscayne National Park, Florida: *U.S. Geological Survey Open-File Report 2009-1246*, 26 p. <http://pubs.usgs.gov/of/2009/1246/>.

Encyclopedia Entries – Peer Review

DeLong, Kristine L., (2015), Corals - Sclerochronology, in *Encyclopedia of Scientific Dating Methods*, Rink, W. Jack, Jeroen W. Thompson, editors, Springer, Netherlands, Chapter 154-3, pp 187-191, [doi:10.1007/978-94-007-6304-3_154](https://doi.org/10.1007/978-94-007-6304-3_154). Publication date April 12, 2015. **2016 winner of the GSIS* Mary B. Ansari Best Geoscience Reference Work Award.**

Conference Proceedings

Society for American Archaeology's annual meeting, April 11-15, 2018, Washington, DC. Oral presentation titled, "Submerged Cypress Forest and the Paleolandscape of the Gulf of Mexico Outer Continental Shelf" Alicia Caporaso, Mike Miner, **Kristine L. DeLong**, and Doug Jones.

American Association of Physical Anthropologists 2016 Annual Meeting, April 12-16, 2016, Atlanta, GA. Poster presentation titled, "Assessing Geographic Origins Using Isotope Analysis of Skeletal Remains from a Colonial Period Cemetery, New Orleans, Louisiana," Ginesse A. Listi, **Kristine L. DeLong**, and Mary H. Manhein.

Ourbak, Timothée, **Kristine L. DeLong**, Thierry Corrège, B. Malaizé, Kelly H. Kilbourne, S. Caquineau, and David J. Hollander, (2009), The Significance of Geochemical Proxies in Corals, Does Size (Age) Matter? *Proceedings of the 11th International Coral Reef Symposium*, Ft. Lauderdale, Florida, July 2008: 82-86.

Documentaries

The Underwater Forest, a documentary of the bald cypress forest offshore of Alabama by the Ben Raines where DeLong participated with interviews and consulting on scientific content. Released June 26, 2017 on Youtube (<https://www.youtube.com/watch?v=PKm0eRfFFfo>) and PBS Alabama on July 21, 2017. The film was screened at the 2017 American Geophysical Union meeting December 14, 2017 with a panel session following. DeLong has conducted several seminar talks at universities and multiple public talks on this project. She has been interviewed by CBS, NBC, Washington Post, BBC, and NPR on this project and participated in an "Ask Me Anything" on Reddit.

Original Data Sets Made Publicly Available

Clay S. Tucker, Jill C. Trepanier, Grant L. Harley, **Kristine L. DeLong** (2018), Recording Tropical Cyclone Activity from 1909 to 2014 along the Northern Gulf of Mexico using Maritime Slash Pine Trees (*Pinus elliottii* var. *elliottii* Engelm.). NOAA/NCEI Paleoclimatology Program, Boulder CO, USA. NOAA NCEI paleoclimate contribution # noaa-tree-25730,

- <https://www.ncdc.noaa.gov/paleo-search/study/25730>.
- PAGES2K, (2017), A Global Multiproxy Database for Temperature Reconstructions of the Common Era. <https://www.ncdc.noaa.gov/paleo-search/study/21171>. NOAA/NCDC Paleoclimatology Program, Boulder CO, USA. NOAA NCEI paleoclimate contributions #noaa-recon-21171.
- Pollock, A.L., P.E. van Beynen, **K.L. DeLong**, V. Polyak and Y. Asmerom, (2017), A Speleothem-based mid-Holocene precipitation reconstruction for West-Central Florida. The Holocene. NOAA/NCDC Paleoclimatology Program, Boulder CO, USA. NOAA NCEI paleoclimate contributions # noaa-cave-20612, <https://www.ncdc.noaa.gov/paleo/study/20612>
- Pollock, A.L., P.E. van Beynen, **K.L. DeLong**, V. Polyak, Y. Asmerom, P.P. Reeder (2016), A mid-Holocene paleoprecipitation record from Belize. NOAA/NCEI Paleoclimatology Program, Boulder CO, USA. NOAA NCEI paleoclimate contributions # noaa-cave-20611, <https://www.ncdc.noaa.gov/paleo-search/study/20611>
- Jennifer A. Flannery, Julie N. Richey, Kaustubh Thirumalai, Richard Z. Poore, and **Kristine L. DeLong**, (2016), Multi-species Coral Sr/Ca Based Sea-Surface Temperature Reconstruction Using *Orbicella faveolata* and *Siderastrea siderea* from Dry Tortugas National Park, Florida, <http://dx.doi.org/10.5066/F7CC0XS9>. USGS data release, <http://coastal.er.usgs.gov/data-release/doi-F7CC0XS9/>.
- DeLong, Kristine L.**, Jennifer Flannery, Richard Z. Poore, Terrence M. Quinn, Christopher R. Maupin, Ke Lin, and Chuan-Chou Shen, (2014), Dry Tortugas coral Sr/Ca-SST reconstruction from 1734–2008 CE. IGBP PAGES/World Data Center for Paleoclimatology, Data Contribution Series # noaa-coral-16217, NOAA/NCDC Paleoclimatology Program, Boulder CO, USA. <ftp://ftp.ncdc.noaa.gov/pub/data/paleo/coral/atlantic/delong2014/>, and http://hurricane.ncdc.noaa.gov/pls/paleox/f?p=519:1:0:::PI_STUDY_ID:16217. This data set contains reconstructed monthly sea surface temperatures for Dry Tortugas (24.454°N, 81.877°W) from 1734 to 2008 with error estimates and supporting data.
- DeLong, Kristine L.**, Terrence M. Quinn, Frederick W. Taylor, Ke Lin, and Chuan-Chou Shen (2012), Amédée Island, New Caledonia 350 Year Coral Sr/Ca SST Reconstruction. IGBP PAGES/World Data Center for Paleoclimatology, Data Contribution Series # 2012-085, NOAA/NCDC Paleoclimatology Program, Boulder CO, USA. ftp://ftp.ncdc.noaa.gov/pub/data/paleo/coral/west_pacific/amedee2012.txt, ftp://ftp.ncdc.noaa.gov/pub/data/paleo/coral/west_pacific/amedee2012.xls, and http://hurricane.ncdc.noaa.gov/pls/paleox/f?p=519:1:0:::PI_STUDY_ID:13035. This data set contains reconstructed monthly sea surface temperatures for New Caledonia (22.48°S, 166.47°E) from 1649 to 1999 for three coral colonies with supporting data.
- DeLong, Kristine L.**, Terrence M. Quinn, and Frederick W. Taylor (2012), New Caledonia Coral Proxy Data Sampling Resolution Comparison on file with the World Data Center for Paleoclimatology, Boulder and NOAA Paleoclimatology Program, IGBP PAGES/WDCA Data Contribution Series # 2012-075, NOAA/NCDC Paleoclimatology Program, Boulder CO, USA ftp://ftp.ncdc.noaa.gov/pub/data/paleo/coral/west_pacific/amedee2007.txt and http://hurricane.ncdc.noaa.gov/pls/paleox/f?p=519:1:0:::PI_STUDY_ID:12973. This data set contains reconstructed monthly sea surface temperatures for New Caledonia (22.48°S, 166.47°E) from 1967 to 1999 for five coral colonies with supporting data.
- DeLong, Kristine L.**, Jennifer Flannery, Christopher R. Maupin, Richard Z. Poore, and Terrence M. Quinn (2011), Dry Tortugas Coral Sr/Ca Data on File with the World Data Center for Paleoclimatology, Boulder and NOAA Paleoclimatology Program, IGBP PAGES/WDCA Contribution Series Number: 2011-121, noaa-coral-11935 http://hurricane.ncdc.noaa.gov/pls/paleox/f?p=519:1:0:::PI_STUDY_ID:11935. This data set contains reconstructed monthly sea surface temperatures for Dry Tortugas (24.454°N, 81.877°W) from 1992 to 2008 with supporting data.
- DeLong, Kristine L.**, Terrence M. Quinn, Chuan-Chou Shen, and Ke Lin (2010), Tahiti 9.5ka

Fossil Coral Geochemical Data on file with the World Data Center for Paleoclimatology, Boulder and NOAA Paleoclimatology Program, IGBP PAGES/WDCa Contribution Series Number: 2010-054, noaa-coral-10424 <http://www.ncdc.noaa.gov/paleo/coral/tahiti.html>, http://hurricane.ncdc.noaa.gov/pls/paleox/f?p=519:1:::PI_STUDY_ID:10424. This data set contains reconstructed monthly sea surface temperatures for Tahiti (17.7658°S, 149.551°W) from the Early Holocene (9.5 ka) with supporting data.

Miscellaneous

- Kristine DeLong**, Gilman Quелlette, and Carrie Manfrino (2018) Little Cayman Fossil and Historic Corals as Recorders of Climate Variability, Field Report for Department of Energy, Cayman Islands, August 2018.
- Roger Fragua, **Kristine L. DeLong**, Micha Rahder, Jacob Warner, and Kim Merryman (2016), Water & Climate Change, Workshop Report and Executive Summary, October 5-7, 2016, Pueblo of Jemez Community Resource Center, Jemez Pueblo, NM.
- Quелlette, Gilman, Scarlette Hsia, **Kristine DeLong**, and Carrie Manfrino (2016) Karst and Diagenetic Processes in Little Cayman Carbonates & Fossil and Historic Corals as Recorders of Climate Variability, Field Report for Department of Energy, Cayman Islands, August 2016.
- DeLong, Kristine L.** (2015) "Imperiled Coral Reefs", a short focus box for *McKnight's Physical Geography: A Landscape Appreciation*, 12th Edition, by Darrel Hess.
- Emilie P. Dassié, **Kristine L. DeLong**, K. Halimeda Kilbourne, and Branwen Willams, (2014), Marine Annually-Resolved Proxy Archives (MARPA) - White paper for the Earth Cube Commons at <http://workspace.earthcube.org/marine-annually-resolved-proxy-archives>.

Presentations, Conferences, and Workshops

Summary	Convener	First Author	Co-author	Student	Total
Invited Speaker	7	1			8
Meetings/Conferences		29	19	45	94
Local Conferences and Symposia				10	10
Workshops	4	9 (15 attendee)	1	3	27
Guest Lectures		21			21
Total	4	76	21	58	158

Invited Speaker for Meetings and Conferences

- Science Boot Camp for Librarians Southeast, August 1-2, 2018, University of Southern Mississippi Gulf Coast Research Laboratory, Ocean Springs, MS. **Invited Keynote Speaker**, "The Underwater Forest: A Time Capsule from the Last Ice Age," **Kristine L. DeLong**.
- GeoBremen Workshop on tropical coral archives - Reconstructions of climate and environment beyond the instrumental record at society-relevant timescales, September 28, 2017, Bremen, Germany. **Invited speaker** presented, "Lessons learned from intra- and inter-colony replication-calibration studies," **Kristine L. DeLong**.
- Taiwan Geosciences Assembly, May 16-20, 2016, Nangang Exhibition Center, Taipei, Taiwan. **Invited Keynote Speaker**, oral presentation titled "Oceanic-Atmospheric Shifts in the Southwest Tropical Pacific since 1649 CE," **Kristine L. DeLong**.
- South Central Climate Science Center Fourth Annual Research Workshop, November 19-20, 2015, Fort Worth, TX. **Invited Keynote Speaker**, oral presentation titled "Coastal Impacts & Paleoclimate," **Kristine L. DeLong**. Participated in meeting and led LSU group at meeting.
- American Association of Geographers (AAG) Annual Meeting, April 23, 2015, Chicago, IL. **Invited Featured Speaker** for a one-day Physical Geography Symposium on "Environmental Reconstruction - A Nexus of Biogeography, Climatology and Geomorphology." Oral presentation titled, "Reconstructing Tropical Climate Variability from Massive Corals," **Kristine L. DeLong**.
- Goldschmidt Conference, June 9-13, 2014, Sacramento, CA. **Invited Keynote Speaker** for session titled "Seasonally-Resolved Archives of Environmental and Climate Change: Opportunities and Challenges," Oral presentation titled, "Intra-Annual Variations in Coral Skeletal Geochemistry," **Kristine L. DeLong**.
- American Association of Geographers (AAG) Annual Meeting, April 8-12, 2014, Tampa, FL. **Invited Panel Presenter** for "Dueling Teleconnections: Implications for Paleoenvironmental Reconstruction" sponsored by the Paleoenvironmental Change Specialty Group.

Professional Meetings and International Conferences (Student presenters are underlined)

- Ocean Sciences meeting, 16-21 February 2019, San Diego. Poster presented titled, "Temperature Calibration of *Siderastrea siderea* coral from the Flower Garden Banks National Marine Sanctuary," Alyssa Gorenflo, Amy J Wagner, **Kristine L DeLong**, and Niall C. Slowey.
- American Geophysical Union Fall Meeting, December 9-13, 2019, San Francisco, CA. Talk presentation titled, "Iso2k: New insights into spatial and temporal dynamics of the global water cycle from the Iso2k database," Georgy Falster, Bronwen Konecky, N. McKay, A. Atwood, J. Conroy, M. Fischer, M. Jones, L. Jonkers, S. Stevenson, E. Thomas, D. Thompson, J. Tyler, PAGES Iso2k Project Members (including **K. DeLong**).
- American Geophysical Union Fall Meeting, December 9-13, 2019, San Francisco, CA. Poster presentation titled, "Storm Deposit Corals from Little Cayman Reveal Shifts in Sea Surface Temperature and Upwelling in the Central Caribbean During the Holocene," **Kristine DeLong**, Gilman Ouellette, Xianfeng Wang, Tsai-Luen Yu, and Chuan-Chou SHEN
- American Geophysical Union Fall Meeting, December 9-13, 2019, San Francisco, CA. Poster presentation titled, "Detecting increasing El Niño-Southern Oscillation intensity in coastal

- Peru at ~ 400 BCE compared to the mid-Holocene using short-lived bivalves *Mesodesma donacium* and *Donax obesulus*,” Jacob Warner, **Kristine L. DeLong**, David Chicoine, C. Fred T. Andrus, Kaustubh Thirumalai, Alan D. Wanamaker, Jr.
- Geological Society of America Annual meeting, Phoenix, AZ, poster presented titled, “Environmental signals from *Donax obesulus* provide information on El Niño-Southern Oscillation (ENSO) variability,” Jacob Warner, **Kristine L. DeLong**, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus, Alan Wanamaker, jr.
- 13th International Conference on Paleoceanography 2019, 1–6 September 2019, Sydney Australia. Poster presented titled, “Tropical Atlantic Warm Pool Sea Surface Temperature Variability During the Last Interglacial: A Comparison of Coral-Based Reconstructions and Climate Models,” **Kristine L. DeLong**, Elinor Martin, Gilman Ouellette, Nathalie Goodkin, Frederick Taylor, Chuan-Chou Shen.
- 3rd International Congress on Stratigraphy STRATI 2019, 2–5 July 2019, Milano, Italy. Presentation titled, “Progress in the investigation for a potential Global Boundary Stratotype Section and Point (GSSP) for the Anthropocene Series,” Waters, C.N., Zalasiewicz, J., Head, M.J., McCarthy, F.M.G., Thomas E.R., Kaiser, J., Ivar do Sul, J.A., Shotyk, W., **DeLong, K.L.**, Barnosky, A.D., Hadley, E.A., Stegner, M.A., An, Z., Fairchild, IJ., Himson, S., Rose, N.L., Gauszka, A., Hajdas, I., Wagemich, M., Summerhayes, C., Williams M., and Zinke, J.
- Fifth International Sclerochronology Meeting, June 16–20, 2019, Split, Croatia. Oral presentation titled, “Corals are not thermometers – How to extract a geochemical time series from a complex skeleton,” **Kristine L. DeLong**, Gilman Ouellette, Jacob Warner, and Deborah Loke.
- Fifth International Sclerochronology Meeting, June 16–20, 2019, Split, Croatia. Oral presentation titled, “Local perspectives on ENSO mean states ~ 2300 B.P. and now: $\delta^{18}\text{O}$ reconstructions from the short-lived bivalves *Donax obesulus* and *Mesodesma donacium*,” Jacob Warner, **Kristine L. DeLong**, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus, Alan Wanamaker, Jr.
- 1st Conference on Pan-Pacific Anthropocene (ConPPA), May 13–17, 2019, Taipei, Taiwan. Oral presentation, “A New View of Glacial Age Coastal Wetlands from A Well-Preserved Underwater Baldcypress Forest In the Northern Gulf of Mexico,” **Kristine L. DeLong**, Grant Harley, Samuel J. Bentley, Kehui Xu, Andy Reese, Alicia Caporaso, Jeffrey Obelcz, Suyapa Gonzalez, Jonathan T. Truong, Zhixiong Shen, and Ben Raines.
- American Meteorological Society Annual meeting, January 6–10, 2019, presented “Last Interglacial Sea Surface Temperature Variability in the Tropical Atlantic Warm Pool: A Comparison of Model and Coral-Based Reconstructions,” **Kristine L. DeLong**, Gilman Ouellette, Nathalie Goodkin, Elinor Martin, Derek Rosenthal, Frederick Taylor, Chuan-Chou Shen. Session chair with Elinor Martin of University of Oklahoma titled, “Climate Extremes in the Tropical Americas: Past, Present, and Future.”
- American Meteorological Conference, Phoenix January 2019, poster presented titled, “Engaging Underrepresented Students in Climate Science: An Internship to Remember” Emma Kuster, Renee McPherson, **Kristine DeLong**, Victor Rivera-Monroy, Jim Ansley, and John Zak.
- American Geophysical Union Fall Meeting, December 10–14, 2018, Washington DC. Poster presentation titled, “Building a Cross-Dated Sea Surface Temperature Reconstruction for the Central Caribbean from Storm Deposit Corals,” **Kristine L. DeLong**, Gilman Ouellette, Othalia Richards, Xianfeng Wang, Ke Lin, and Chuan-Chou (River) Shen.
- American Geophysical Union Fall Meeting, December 10–14, 2018, Washington DC. Poster presentation titled, “Local Perspectives on ENSO Variability ~ 2300 BP and Now: Evidence from Two Short-Lived Intertidal Bivalves *Mesodesma donacium* and *Donax obesulus*,” Jacob Warner, **Kristine DeLong**, David Chicoine, Alan Wanamaker, and Kaustubh Thirumalai.
- IV International Conference on El Niño Southern Oscillation: ENSO in a warmer Climate. Guayaquil, Ecuador, October 15–18, 2018. Poster presented titled, “Insights into ENSO and Paleo-ENSO from Short-Lived Bivalves,” Jacob Warner, **Kristine L. DeLong**, David Chicoine, C. Fred T. Andrus, Alan D. Wanamaker, Jr., and Kaustubh Thirumalai.

- Goldschmidt Annual Meeting August 12–17, 2018, Boston, MA, Oral presentation titled, “Corals are not thermometers – How to extract a geochemical time series from a complex skeleton,” **Kristine L. DeLong**, Gilman Ouellette, and Marissa Vara.
- Goldschmidt Annual Meeting August 12–17, 2018, Boston, MA, Oral presentation titled, “Indo-Pacific hydroclimate change over the past 200 years: New insights from the Iso2k synthesis,” Diane Thompson, Jessica Conroy, Bronwen Konecky, Nicholas McKay, Sam Stevenson, and ISO2K members including **Kristine L. DeLong**.
- Louisiana Coastal Geology Symposium, July 10–11, 2018, poster presentation titled, “Stratigraphic Reconstruction of a Late Pleistocene Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf,” Suyapa Gonzalez, Samuel J. Bentley Sr., Jeffrey Obelcz, Jonathan T. Truong, **Kristine L. DeLong**, Kehui Xu, Grant L. Harley, Carl Andy Reese, Alicia Caporaso, and Zhixiong Shen.
- American Association of Geographers (AAG) Annual Meeting, April 10–April 14, 2018, New Orleans, LA. Oral presentation titled, “Last Interglacial Variability in the Tropical Atlantic Warm Pool,” **Kristine L. DeLong**, Gilman Ouellette, Elinor Martin Derek Rosenthal, Frederick Taylor, and Chuan-Chou Shen.
- American Association of Geographers (AAG) Annual Meeting, April 10–April 14, 2018, New Orleans, LA. Oral presentation titled, “Coral Temperature Proxies for *Orbicella faveolata* in Southwestern Gulf of Mexico,” Marissa A. Vara, **Kristine L. DeLong**, Achim Herrmann, Gilman Ouellette, and Julie N. Richey.
- American Association of Geographers (AAG) Annual Meeting, April 10–April 14, 2018, New Orleans, LA. Oral presentation titled, “Modern and Prehistoric El Niño-Southern Oscillation (ENSO) Variability: Perspectives from two Short-Lived Bivalve Species, *Donax obesulus* and *Mesodesma donacium*,” Jacob Warner, **Kristine DeLong**, David Chicoine, Alan Wanamaker, and Kaustubh Thirumalai.
- American Association of Geographers (AAG) Annual Meeting, April 10–April 14, 2018, New Orleans, LA. Oral presentation titled, “Investigations of a recently uncovered bald cypress forest in the northern Gulf of Mexico,” Grant L Harley (Invited speaker), **Kristine DeLong**, Samuel J Bentley Sr., Jeffrey B Obelcz, Carl A Reese, Kehui Xu, Suyapa Gonzalez, Jonathan T Truong, and Alicia Caporaso.
- Gulf of Mexico Alliance Graduate Student Symposium, March 1–2, 2018, Dauphin Island Marine lab, oral presentation titled, “Micropaleontological Record of a Preserved, Late Pleistocene Bald Cypress Forest on the Northern Gulf of Mexico Inner Shelf, USA,” Jonathan T. Truong, **Kristine DeLong**, Samuel J Bentley Sr., Grant L Harley, Jeffrey B Obelcz, Carl A Reese, Kehui Xu, Suyapa Gonzalez, Jonathan T Truong, and Alicia Caporaso.
- American Geophysical Union (AGU) Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “A New View of Glacial Age Coastal Wetlands from A Well-Preserved Underwater Baldcypress Forest in the Gulf of Mexico,” **Kristine L. DeLong**, Grant Harley, Samuel J. Bentley, Kehui Xu, Andy Reese, Alicia Caporaso, Jeffrey Obelcz, Suyapa Gonzalez, Jonathan T. Truong, and Zhixiong Shen.
- American Geophysical Union (AGU) Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “Records of African Dust Transport Captured by Rare Earth Elemental Concentrations in Coral Microatolls,” Gilman Ouellette, **Kristine DeLong**, Achim Herrmann, Chun-Yuan Huang, Chuan-Chou SHEN.
- American Geophysical Union (AGU) Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “Preliminary Micropaleontological Investigation of a Preserved, Late Pleistocene Cypress Forest on the Northern Gulf of Mexico Inner Shelf,” Jonathan T. Truong, **Kristine L. DeLong**, Samuel J. Bentley Sr., Kehui Xu, Grant L. Harley, Carl Andy Reese, Suyapa Gonzalez, Jeffrey Obelcz, and Alicia Caporaso.
- American Geophysical Union (AGU) Fall Meeting, December 11–15, 2017, New Orleans, LA. Invited keynote oral presentation titled, “A Stratigraphic Pollen Record from a Late

- Pleistocene Cypress Forest, Northern Gulf of Mexico Continental Shelf,” Carl A. Reese, Grant L. Harley, **Kristine L. DeLong**, Samuel J. Bentley Sr., Kehui Xu, Suyapa Gonzalez, Jonathan T. Truong, Jeffrey Obelcz, and Alicia Caporaso.
- American Geophysical Union (AGU) Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “Stratigraphic Reconstruction of a Late Pleistocene Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf,” Suyapa Gonzalez, Samuel J. Bentley Sr., Jeffrey Obelcz, Jonathan T. Truong, **Kristine L. DeLong**, Kehui Xu, Grant L. Harley, Carl Andy Reese, Alicia Caporaso, and Zhixiong Shen.
- American Geophysical Union (AGU) Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “Assessment of the Coral Temperature Proxies for *Orbicella faveolata* in the Southwestern Gulf of Mexico”, Marissa A. Vara, **Kristine L. DeLong**, Achim Herrmann, Gilman Ouellette, and Julie N. Richey. Awarded the Outstanding Student Presentation in Paleoceanography.
- American Geophysical Union Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “Maritime Coastlines: A New Ecosystem for Dendrochronological Analysis,” Clay S. Tucker, Jill C. Trepanier, Grant L. Harley, and **Kristine L. DeLong**.
- American Geophysical Union Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “Global synthesis of Common Era hydroclimate using water isotope proxies from multiple archives: First results from the PAGES Iso2k Project,” Bronwen Konecky, Jonathan Tyler, Olga Churakova (Sidorova), Matthew D. Jones, Samantha Stevenson, Jessica L. Conroy, Diane M. Thompson, Lukas Jonkers, Laia Comas-Bru, Judson W. Partin, Belen Martrat, Nicholas McKay, and **Iso2k Project Members**.
- American Geophysical Union Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “Salinity information in coral $\delta_{18}\text{O}$ archives,” Jessica L. Conroy, Diane M. Thompson, Sam Stevenson, Emilie P. Dassié, Bronwen Konecky, **Kristine DeLong**, and Iso2K Project members.
- American Geophysical Union Fall Meeting, December 11–15, 2017, New Orleans, LA. Poster presentation titled, “Modern Analogues for Prehistoric El Niño Variability: Evidence from two Short-Lived Bivalve Species, *Donax obesulus* and *Mesodesma donacium*,” Jacob Warner, **Kristine DeLong**, David Chicoine, Alan Wanamaker, and Kaustubh Thirumalai.
- Southeastern Division of the American Association of Geographers, November 19–20, 2017, Starkville, MS. Oral presentation titled, “A Stratigraphic Pollen Record from a Late Pleistocene Cypress Forest, Northern Gulf of Mexico Continental Shelf,” Carl A. Reese, Grant L. Harley, **Kristine L. DeLong**, Samuel J. Bentley Sr., Kehui Xu, Suyapa Gonzalez, Jonathan T. Truong, Jeffrey Obelcz, and Alicia Caporaso.
- 2017 Gulf Coast Association of Geological Societies Annual meeting, November 2–3, 2017. Oral presentation titled, “Facies Reconstruction of a Late Pleistocene Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf,” Suyapa Gonzalez, Samuel J. Bentley, Sr., **Kristine L. DeLong**, Kehui Xu, Jeffrey Obelcz, Jonathan Truong, Grant L. Harley, Carl A. Reese, and Alicia Caporaso.
- GeoBremen Workshop on Tropical Coral Archives – Reconstructions of Climate and Environment Beyond the Instrumental Record at Society-Relevant Timescales, September 28, 2017, Bremen, Germany, Talk presented titled, “Lessons learned from intra- and inter-colony replication-calibration studies,” **Kristine L. DeLong**.
- GeoBremen Conference, September 24–29, 2017, Bremen, Germany, Talk presented titled, “A 75-Year Long Absolute SST Reconstruction Reveals Last Interglacial Variability in the Tropical Atlantic Warm Pool: Comparison of Model and Coral-Based Reconstructions,” **Kristine L. DeLong**, Gilman Ouellette, Elinor Martin, Derek Rosenthal, Frederick Taylor, and Chuan-Chou Shen.
- PMIP4 2017 Conference, September 25–29, 2017, Stockholm, Sweden, Poster presented titled, “A 75-Year Long Absolute SST Reconstruction Reveals Last Interglacial Variability in the Tropical

- Atlantic Warm Pool: Comparison of Model and Coral-Based Reconstructions,” **Kristine L. DeLong**, Gilman Ouellette, Elinor Martin Derek Rosenthal, Frederick Taylor, and Chuan-Chou Shen.
- PMIP4 2017 Conference, September 25-29, 2017, Stockholm, Sweden, Poster presented titled, “Iso2k: A global synthesis of Common Era hydroclimate using water isotope proxies from multiple archives,” Bronwen Konecky, Olga Churakova (Sidorova), Laia Comas-Bru, Kristine L. DeLong, Lukas Jonkers, Jud Partin, Samantha Stevenson, Diane M. Thompson, Jonathan J. Tyler, and Iso2k Project Members.
- Bureau of Ocean Energy Management Information Transfer Meeting, August 22, 2017. Oral presentation titled, “An Ancient Baldcypress Forest in the Northern Gulf of Mexico,” Kristine L. DeLong, Grant Harley, Samuel J. Bentley, Kehui Xu, Andy Reese, Alicia Caporaso, Jeffrey Obelcz, Suyapa Gonzalez, and Jonathan T. Truong.
- 5th PAGES Open Science Meeting, May 9–13, 2017, Zaragoza, Spain. Poster presented titled, “Last Interglacial Decadal to Seasonal Temperature Variability in the Tropical Atlantic Warm Pool: Comparison of Model and Coral-Based Reconstructions,” **Kristine L. DeLong**, Gilman Ouellette, Elinor Martin Derek Rosenthal, Frederick Taylor, and Chuan-Chou Shen.
- 5th PAGES Open Science Meeting, May 9–13, 2017, Zaragoza, Spain. Poster presented titled, “Save our Marine Annually-resolved Proxy Archives,” Emilie P. Dassié, **Kristine L. DeLong**, K. Halimeda Kilbourne, and Branwen Williams.
- 5th PAGES Open Science Meeting, May 9–13, 2017, Zaragoza, Spain. Poster presented titled, “A New Coral Proxy for Temperature in the Southern Gulf of Mexico,” Marissa A. Vara, **Kristine L. DeLong**, Achim Herrmann, Gilman Ouellette, and Julie N. Richey.
- American Association of Geographers (AAG) Annual Meeting, April 5–April 9, 2017, Boston, MA. Oral presentation titled, “An Ancient Baldcypress Forest in the Northern Gulf of Mexico,” **Kristine L. DeLong**, Grant Harley, Samuel J. Bentley, Kehui Xu, Andy Reese, Alicia Caporaso, Jeffrey Obelcz, and Suyapa Gonzalez.
- American Association of Geographers (AAG) Annual Meeting, April 5–April 9, 2017, Boston, MA. Oral presentation titled, “African Dust Plumes Recorded as Rare Earth Elemental Concentrations in Coral Microatolls,” Gilman Ouellette, **Kristine L. DeLong**, Achim Herrmann, and Chuan-Chou “River” Shen.
- American Association of Geographers (AAG) Annual Meeting, April 5–April 9, 2017, Boston, MA. Oral presentation titled, “A New Coral Proxy for Temperature in the Southern Gulf of Mexico,” Marissa A. Vara, **Kristine L. DeLong**, Achim Herrmann, Gilman Ouellette, and Julie N. Richey.
- American Association of Geographers (AAG) Annual Meeting, April 5–April 9, 2017, Boston, MA. Oral presentation titled, “Climate Training with Pueblos and Tribes in New Mexico and Louisiana,” Jacob P. Warner, **Kristine L. DeLong**, Micha Rahder, April Taylor, Kimberly Merryman, and Roger Fragua.
- American Association of Geographers (AAG) Annual Meeting, April 5–9, 2017, Boston, MA. Poster presentation titled, “Investigations of a Pleistocene *Taxodium distichum* forest in the northern Gulf of Mexico,” Grant L. Harley, **Kristine L. DeLong**, Samuel J. Bentley Sr., Kehui Xu, Jeffrey Obelcz, Carl Andy Reese, Suyapa Gonzalez, and Jonathan T. Truong.
- South-Central Section of the Geological Society of America Annual Meeting, March 13–14, 2017, San Antonio, TX. Poster presented titled, “A 40,000 Year Old Baldcypress Forest in the middle of the Gulf of Mexico: How it Exists, How We Found it, and What it Can Tell Us.” Jeffrey Obelcz, Kehui Xu, Samuel J. Bentley, **Kristine L. DeLong**, Grant Harley, Andy Reese, Alicia Caporaso, Suyapa Gonzalez, and Jonathan T. Truong.
- American Geophysical Union (AGU) Fall Meeting, December 12–16, 2016, San Francisco, CA. Oral presentation titled, “A 80-Year Long Coral-Based Temperature Reconstruction for the Last Interglacial from Northern Hispaniola,” **Kristine L. DeLong**, Gilman Ouellette, Elinor Martin Derek Rosenthal, Frederick Taylor, and Chuan-Chou Shen.

- American Geophysical Union (AGU) Fall Meeting, December 12–16, 2016, San Francisco, CA. Poster presentation titled, “Variability in Bias of Gridded Sea Surface Temperature Data Products: Implications for Seasonally-Resolved Marine Proxy Reconstructions,” Gilman Ouellette and **Kristine L. DeLong**.
- American Geophysical Union (AGU) Fall Meeting, December 12–16, 2016, San Francisco, CA. Poster presentation titled, “Using Coral Ba/Ca Records to Investigate Seasonal to Decadal Scale Biogeochemical Cycling in the Surface and Intermediate Ocean,” Michele LaVigne, Kim. M. Cobb, **Kristine L. DeLong**, M. Freiberger, Andrea G. Grottoli, Tessa. M. Hill, H. Miller, Intan Nurhati, Julie Richey, G. Serrato Marks, and Robert M. Sherrell.
- American Geophysical Union (AGU) Fall Meeting, December 12–16, 2016, San Francisco, CA. Oral presentation titled, “Preliminary Facies Reconstruction of a Late Pleistocene Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf,” Suyapa Gonzalez, Samuel J. Bentley Sr., **Kristine L. DeLong**, Kehui Xu, Jeffrey Obelcz, Grant L. Harley, Carl Andy Reese, and Jonathan T. Truong. Suyapa is an undergraduate presenting her work.
- American Geophysical Union (AGU) Fall Meeting, December 12–16, 2016, San Francisco, CA. Oral presentation titled, “Placing a Late Pleistocene Drowned Forest Within the Geological Context of the Northern Gulf of Mexico Via Seafloor and Shallow Subsurface Mapping,” Jeffrey Obelcz, Kehui Xu, Samuel J. Bentley, Alicia Caporaso, **Kristine L. DeLong**, Grant Harley, Andy Reese, Suyapa Gonzalez, and Jonathan T. Truong.
- American Geophysical Union (AGU) Fall Meeting, December 12–16, 2016, San Francisco, CA. Poster presentation titled, “Development of Sr/Ca- $\delta_{18}\text{O}$ Temperature Calibrations of a *Siderastrea siderea* Coral from the Gulf of Mexico,” Amy Wagner, **Kristine L. DeLong**, K. Halimeda Kilbourne, and Niall Slowey.
- Fourth International Sclerochronology Meeting, June 5–9, 2016, Portland Maine. Oral presentation titled, “Salinity Shifts in the Southwest Tropical Pacific from the Little Ice Age to the 20th century,” **Kristine L. DeLong**, Terrence M. Quinn, Frederick W. Taylor, and Chuan-Chou Shen. Served on the organizing committee.
- Fourth International Sclerochronology Meeting, June 5–9, 2016, Portland Maine. Oral presentation titled, “Assessing Seasonal Variability and Archaeological Season of Harvest in North-Central Coastal Peru Using the Short-Lived Bivalves *Donax obesulus* and *Mesodesma donacium*,” Jacob Warner, **Kristine L. DeLong**, David Chicoine, Alan D. Wanamaker Jr., and Kaustubh Thirumalai.
- Fourth International Sclerochronology Meeting, June 5–9, 2016, Portland Maine. Oral presentation titled, “Southeast Gulf of Mexico Corals Reveal Annual Barium Cycles,” Michele LaVigne and **Kristine L. DeLong**.
- Fourth International Sclerochronology Meeting, June 5–9, 2016, Portland Maine. Poster presentation titled, “Save our Marine Annually-Resolved Proxy Archives (MARPA)!” **Kristine L. DeLong**, Emilie Dassie, Hali Kilbourne, and Branwen Williams.
- American Association of Geographers (AAG) Annual Meeting, March 29–April 2, 2016, San Francisco, CA. Oral presentation titled, “Dendrochronology Reveals Response of Coastal Pine Trees to Various Climate Parameters in Grand Bay National Estuarine Research Reserve, Mississippi, U.S.A.,” Clay S. Tucker, Grant L. Harley, Jill C. Trepanier, and **Kristine L. DeLong**.
- South Central, Geological Society of America (GSA) Meeting, March 19–20, 2016, Baton Rouge, LA. Poster presentation titled, “Geologic Setting and Preservation of a Late Pleistocene Bald Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf,” Suyapa Gonzalez, Samuel J. Bentley Sr., **Kristine L. DeLong**, Kehui Xu, Grant L. Harley, Carl Andy Reese, and Jeffrey Obelcz.
- South Central, Geological Society of America (GSA) Meeting, March March 19–20, 2016, Baton Rouge, LA. Poster presentation titled, “Dendrochronology Reveals Response of Coastal Pine

- Trees to Various Climate Parameters in Grand Bay National Estuarine Research Reserve, Mississippi,” Clay S. Tucker, Grant L. Harley, Jill C. Trepanier, and **Kristine L. DeLong**. Ocean Sciences Meeting, February 21–26, 2016, New Orleans, LA. Oral presentation titled, “Assessment of Coral Sr/Ca Variations in *Orbicella faveolata* Colonies in Veracruz, Mexico,” **Kristine L. DeLong**, Robin M. Cobb, Amy Wagner, and J. Harold Hudson.
- Ocean Sciences Meeting, February 21–26, 2016, New Orleans, LA. Poster presented titled, “Suitability of Satellite Derived and Gridded Sea Surface Temperature Data Sets for Calibrating High-Resolution Marine Proxy Records,” Gilman R. Ouellette and **Kristine L. DeLong**.
- Ocean Sciences Meeting, February 21–26, 2016, New Orleans, LA. Poster presentation titled, “Do Skeletal Density Changes Within the Tissue Layer of Corals Affect Paleoclimate Reconstructions?,” Joanna S. Griffiths, **Kristine L. DeLong**, Terrance M. Quinn, Frederick W. Taylor, Kelly Hali Kilbourne, and Amy Wagner.
- Ocean Sciences Meeting, February 21–26, 2016, New Orleans, LA. Poster presentation titled, “Quality Assessment of Simulated and Aquarius-Observed Sea Surface Salinity Using Buoy Salinity Measurements in Dry Tortugas National Park, Florida, U.S.A.: Application for Pseudocoral $\delta_{18}\text{O}$,” Nazanin Chaichitehrani and **Kristine L. DeLong**.
- Ocean Sciences Meeting, February 21–26, 2016, New Orleans, LA. Poster presentation titled, “New Evidence of an Ancient Bald Cypress Forest on the Inner Shelf of Northern Gulf of Mexico,” Junghyung (Johnny) Ryu, **Kristine L. DeLong**, Samuel J. Bentley Sr., Kehui Xu, Grant L. Harley, Carl Andy Reese, Jeffrey Obelcz and Tom Guilderson.
- Ocean Sciences Meeting, February 21–26, 2016, New Orleans, LA. Poster presentation titled, “Geologic Setting and Preservation of a Late Pleistocene Bald Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf,” Suyapa Gonzalez, Samuel J. Bentley Sr., **Kristine L. DeLong**, Kehui Xu, Grant L. Harley, Carl Andy Reese, and Jeffrey Obelcz.
- Ocean Sciences Meeting, February 21–26, 2016, New Orleans, LA. Poster presentation titled, “Assessing El Niño Variability on the Coast of Peru Using Two Short-Lived Bivalve Species, *Donax obesulus* and *Mesodesma donacium*, from Archaeological and Modern Contexts,” Jacob Warner, **Kristine L. DeLong**, David Chicoine, Alan Wanamaker, and Kaustubh Thirumalai.
- American Geophysical Union (AGU) Fall Meeting, December 14–18, 2015, San Francisco, CA. Poster presentation titled, “Validation of Coral $\delta_{18}\text{O}$ Using Pseudocorals with Simulated and Remotely Sensed Sea Surface Salinity Versus Buoy Data in Dry Tortugas National Park, Florida, U.S.A.,” **Kristine L. DeLong**, Christopher R. Maupin, Jennifer A. Flannery, Richard Z. Poore, Julie N. Richey, and Terrence M. Quinn. Served as a co-chair for a Session titled, “Multiproxy Records for Climatic and Oceanic Reconstructions.”
- American Geophysical Union (AGU) Fall Meeting, December 14–18, 2015, San Francisco, CA. Poster presentation titled, “Temperature Calibration of a Northern Gulf of Mexico *Siderastrea siderea* Coral,” Amy Wagner, **Kristine L. DeLong**, K. Halimeda Kilbourne, Julie N. Richey, Emma Hickerson, Kathryn Jelinek, and Niall Slowey.
- American Geophysical Union (AGU) Fall Meeting, December 14–18, 2015, San Francisco, CA. Invited talk presentation titled, “Multi-Centennial Reconstruction of Aleutian Climate from Coralline Algae,” Branwen Williams, Jochen Halfar, **Kristine L. DeLong**, E. Smith, Robert S. Steneck, P. Lebednik, Dorrit E. Jacob, J. Fietz, and K. Moore.
- American Geophysical Union (AGU) Fall Meeting, December 14–18, 2015, San Francisco, CA. Poster presentation titled, “Retaining Underrepresented Minority Undergraduates in STEM through Hands-on Internship Experiences,” Aparna Bamzai, Renee McPherson, **Kristine L. DeLong**, Julia Earl, Keith Owens, Victor Rivera-Monroy, Duncan Wilson, and John Zak.
- American Geophysical Union (AGU) Fall Meeting, December 14–18, 2015, San Francisco, CA. presentation titled, “Combined Obliquity and Precession Pacing of Western Pacific Intertropical Convergence Zone Over the Past 282,000 years,” Liu, Yi, Li Lo, Zhengguo Shi,

- Kuo-Yen Wei, Chien-Ju Chou, Yi-Chi Chen, Chih-Kai Chuang, Chung-Che Wu, Horng-Sheng Mii, Zicheng Peng, Hiroshi Amakawa, George S. Burr, Shih-Yu Lee, **Kristine L. DeLong**, Henry Elderfield, and Chuan-Chou Shen.
- American Geophysical Union (AGU) Fall Meeting, December 14–18, 2015, San Francisco, CA. Poster presentation titled, “Iso2k: A Community-Driven Effort to Develop a Global Database of Paleo-Water Isotopes Covering the Past Two Millennia,” Judson W. Partin, Bronwen L. Konecky, and Iso2k Project Members (including **K. L. DeLong**).
- Geological Society of Maine, May 10, 2015, Colby College, Waterville MA. Poster presentation titled, “A Proxy Calibration of Floridian Surface Coral Ba/Ca Ratios”, Isaiah Bolden, Michèle Lavigne, **Kristine DeLong**, and Christopher Reich.
- American Association of Geographers (AAG) Annual Meeting, April 23, 2015, Chicago, IL. Oral presentation titled, “Analyzing the Spread of Black Willows in the Atchafalaya River Basin Through Terrestrial Lidar Surveys,” Xuelian Meng, Xukai Zhang, Azure E. Bevington, **Kristine L. DeLong**, Weiqi Chen, and Yirui Deng.
- American Association of Geographers (AAG) Annual Meeting, April 23, 2015, Chicago, IL. Poster presentation titled, “A Multicore Approach to Coral Sr/Ca-Temperature Reconstructions Using *Montastraea faveolata* Colonies in Veracruz, Mexico,” Robin M. Cobb, **Kristine L. DeLong**, Julie N. Richey, and J. Harold Hudson.
- American Association of Geographers (AAG) Annual Meeting, April 23, 2015, Chicago, IL. Poster presentation titled, “Sea Surface Temperature Variability Inferred from Coral Sr/Ca Values Extracted from Microatolls from the Haitian Coast,” Gilman R. Ouellette, **Kristine L. DeLong**, K. Halimeda Kilbourne, and Frederick W. Taylor.
- American Geophysical Union (AGU) Fall Meeting, December 15–19, 2014, San Francisco, CA. Poster presentation titled, “Hydrological Shifts in Seawater $\delta_{18}\text{O}$ in Southwest Tropical Pacific Since 1649 CE,” **Kristine L. DeLong**, Terrence M. Quinn, Frederick W. Taylor, Ke Lin and Chuan-Chou Shen. Served as a co-chair for a Session titled, “Multiproxy Records for Climatic and Oceanic Reconstructions.”
- American Geophysical Union (AGU) Fall Meeting, December 15–19, 2014, San Francisco, CA. Poster presentation titled, “Replicating and Calibrating Haitian Microatoll Coral Sr/Ca Variations to Build Confidence in Sea Surface Temperature Reconstructions,” Gilman R. Ouellette, **Kristine L. DeLong**, K. Halimeda Kilbourne, and Frederick W. Taylor.
- American Association of Geographers (AAG) Annual Meeting, April 8–12, 2014, Tampa, FL. Oral presentation titled, “A Reconstruction of Sea Surface Temperature Variability in the Southeastern Gulf of Mexico from 1734–2008 CE Using Cross-Dated Sr/Ca Records from the Coral *Siderastrea siderea*,” **Kristine L. DeLong**, Jennifer A. Flannery, Richard Z. Poore, Terrence M. Quinn, Christopher R. Maupin, Ke Lin, and Chuan-Chou Shen.
- American Association of Geographers (AAG) Annual Meeting, April 8–12, 2014, Tampa, FL. Oral presentation titled, “Variability in Precipitation During the Mid-Holocene for the Mayan Lowlands of Northern Central America,” Anna Pollock, Philip E. van Beyan, **Kristine L. DeLong**, Victor Polyak, and Yemane Asmerom.
- Ocean Sciences Meeting 2014, February 23–28, 2014, Honolulu HI. Poster presentation titled, “Insights from Coral Isotopic and Strontium-Calcium Ratio Records from the Southwest Tropical Pacific Since 1649 CE,” **Kristine L. DeLong**, Terrence M. Quinn, Frederick W. Taylor, Ke Lin, and Chuan-Chou Shen. Served as a mentor for the Multicultural Program.
- Ocean Sciences Meeting 2014, February 23–28, 2014, Honolulu HI. Poster presentation titled, “Assessing Millimeter-Scale Sr/Ca Variability Within the Corallite Fan Structure of *Porites lutea* for Improving Coral-Based Paleoclimate Reconstructions,” Alison Bojarski, **Kristine L. DeLong**, Terrence M. Quinn, and Frederick W. Taylor.
- Ocean Sciences Meeting 2014, February 23–28, 2014, Honolulu HI. Poster presentation titled, “Calibration of Coral Sr/Ca Variations and Growth Rates in *Montastraea faveolata* Colonies in

- Veracruz, Mexico,” [Robin M. Cobb](http://www.sgmeet.com/osm2014/viewabstract.asp?AbstractID=15572), **Kristine L. DeLong**, Julie N. Richey, and Jennifer A. Flannery, <http://www.sgmeet.com/osm2014/viewabstract.asp?AbstractID=15572>.
- American Geophysical Union (AGU) Fall Meeting, December 9–13, 2013, San Francisco, CA. Oral presentation titled, “Sea Surface Temperature Variability in the Gulf of Mexico from 1734–2008 CE: A Reconstruction Using Cross-Dated Sr/Ca Records from the Coral *Siderastrea siderea*,” **Kristine L. DeLong**, Jennifer Flannery, Richard Z. Poore, Terrence M. Quinn, Christopher R. Maupin, Ke Lin, and Chuan-Chou Shen. Additionally, co-chaired session titled, “Climate Variability from Multiproxy Reconstructions,” served as a judge for student presentations, and served as a mentor for the Bright Stars Program.
- American Geophysical Union (AGU) Fall Meeting, December 9–13, 2013, San Francisco, CA. Poster presentation titled, “A Spatial and Vertical Comparison of Coral Sr/Ca Variations and Growth Rates in *Montastraea faveolata* Colonies in Veracruz, Mexico,” [Robin M. Cobb](#), **Kristine L. DeLong**, Julie N. Richey, Jennifer A. Flannery, K. Halimeda Kilbourne, Jennifer M. Smith, Terrence M. Quinn, and J. Harold Hudson.
- Third International Sclerochronology Conference, May 18–22, 2013, Caernarfon, Wales, UK. Oral presentation titled, “Sea Surface Temperature Variability in the Gulf of Mexico from 1734–2008 CE: A Reconstruction Using Cross Dated Sr/Ca Records from the Coral *Siderastrea siderea*,” **Kristine L. DeLong**, Christopher R. Maupin, Jennifer A. Flannery, Terrence M. Quinn, Ke Lin, and Chuan-Chou Shen. Additionally chaired session titled, Palaeoclimate & Palaeoceanography.
- Third International Sclerochronology Conference, May 18–22, 2013, Caernarfon, Wales, UK. Poster presentation titled, “Temperature Variability Reconstructed from Sr/Ca and $\delta_{18}\text{O}$ Variations in a Brain Coral (*Diploria strigosa*) from the Northern Gulf of Mexico,” [Robin M. Cobb](#), **Kristine L. DeLong**, Jennifer A. Flannery, Alan D. Wanamaker, Jr., Christopher D. Reich, and J. Harold Hudson.
- Third International Sclerochronology Conference, May 18–22, 2013, Caernarfon, Wales, UK. Poster presentation titled, “Methodological Insights into the Sequential Banding of Modern and Archaeological *Donax* sp. from the North Coast of Peru,” [Jacob P. Warner](#), **Kristine L. DeLong**, and David Chicoine.
- Third International Sclerochronology Conference, May 18–22, 2013, Caernarfon, Wales, UK. Poster presentation titled, “Age and Season of Harvest for *Mesodesma donacium* from the Nepeña Valley, Coastal Peru,” [Rebecca Hood](#), **Kristine L. DeLong**, and David Chicoine.
- PAGES (Past Global Changes) Open Science Meeting, February 3–16, 2013, Goa, India. Oral presentation titled, “Shifts in Sea Surface Temperature on Centennial to Interannual Timescales in the Gulf of Mexico Since 1734 CE,” **Kristine L. DeLong**, Christopher R. Maupin, Jennifer A. Flannery, Terrence M. Quinn, Ke Lin, and Chuan-Chou Shen.
- American Geophysical Union (AGU) Fall Meeting, December 3–7, 2012, San Francisco, CA. Oral presentation titled “Decadal Variability in Gulf of Mexico Sea Surface Temperatures Since 1734 CE,” **Kristine L. DeLong**, Christopher R. Maupin, Jennifer A. Flannery, Terrence M. Quinn, Ke Lin, and Chuan-Chou Shen. Eos Trans. AGU, Fall Meeting Supplement, Abstract PP24A-08. Co-Chaired a session was titled, “High-Resolution Climate Proxies,” served as a mentor for Minorities Striving and Pursuing Higher Degrees of Success Professional Development Program (MS PHDs), and served as a judge for outstanding student presentations.
- American Geophysical Union (AGU) Fall Meeting, December 3–7, 2012, San Francisco, CA. Poster presentation titled “Investigation of a Northern Gulf of Mexico Brain Coral, *Diploria strigosa*, for Climate Reconstructions,” [Robin M. Cobb](#), **Kristine L. DeLong**, Jennifer A. Flannery, Alan D. Wanamaker, Jr., Christopher D. Reich and J. Harold Hudson. Eos Trans. AGU, Fall Meeting Supplement, Abstract PP33A-2099.
- American Geophysical Union (AGU) Fall Meeting, December 3–7, 2012, San Francisco, CA. Poster presentation titled “Development of High-Latitude Coralline Algae as Proxy Archives: A

- Mg/Ca Replication and Calibration Study," Williams, Branwen, Jochen Halfar, **Kristine L. DeLong**, Steffen Hetzinger, Robert S. Steneck, and Dorrit Jacob, Eos Trans. AGU, Fall Meeting Supplement, Abstract PP33A-2072.
- American Association of Geographers (AAG) Annual Meeting, February 24–28, 2012, New York, NY. Oral presentation titled, "Improvements to Coral Base Paleoclimate Reconstructions from Reproducing Coral Sr/Ca Variations" **Kristine L. DeLong**, Terrence M. Quinn, Frederick W. Taylor, Chuan-Chou Shen, and Ke Lin.
- 2012 Ocean Sciences Meeting, February 20–24, 2012, Salt Lake City, UT. Oral presentation titled, "Assessing Sources of Error in Coral Based Paleoclimate Reconstructions from Reproducing Coral Sr/Ca Variations" **Kristine L. DeLong**, Terrence M. Quinn, Frederick W. Taylor, Chuan-Chou Shen, and Ke Lin, Abstract ID: 10067. Served as a mentor for the Multicultural Program and served as a judge for student presentations.
- American Geophysical Union (AGU) Fall Meeting, December 5–9, 2011, San Francisco, CA. Oral presentation titled "Surface Ocean Temperature Variability in the Southwest Tropical Pacific Since 1649 CE," **Kristine L. DeLong**, Terrence M. Quinn, Frederick W. Taylor, Chuan-Chou Shen, and Ke Lin. Eos Trans. AGU, Fall Meeting Supplement, Abstract PP34A-01. Served as a mentor for the MS PHDs Professional Development Program and served as a judge for student presentations.
- American Association of Geographers (AAG) Annual Meeting, April 12–16, 2011, Seattle, WA. Poster presentation titled "A Coral Sr/Ca Calibration and Replication Study of Two Massive Corals from the Gulf of Mexico," **Kristine L. DeLong**, Jennifer Flannery, Christopher R. Maupin, Richard Z. Poore, and Terrence M. Quinn. Served as a judge for the Paleoenvironmental Change Specialty Group student presentation competition.
- American Geophysical Union Fall Meeting, December 13–17, 2010, San Francisco, CA. Presented "A Snapshot of Climate Variability at Tahiti 9.5 ka Using a Fossil Coral from IODP Expedition 310," **Kristine L. DeLong**, Terrence M. Quinn, Chuan-Chou Shen, and Ke Lin, Abstract U43A-0013. Served as a judge for student presentations.
- American Geophysical Union - Meeting of the Americas, August 8–13, 2010, Foz do Iguassu Brazil. Presented "Do Three Massive Coral Species from the Same Reef Record the Same SST Signal? A Test from the Dry Tortugas, Florida Keys," **Kristine L. DeLong**, Richard Z. Poore, Christopher D. Reich, Jennifer A. Flannery, Christopher R. Maupin, and Terrence M. Quinn, Eos Trans. AGU, 91(26), Meeting of the Americas Supplement, Abstract PP31A-05. Co-chaired session "Climate of the Americas Over the Past 2000 Years from High-Resolution Climate Proxies, Instrumental Records, and Modeling Studies."
- Second International Sclerochronology Conference, July 24–28, 2010, Mainz Germany. Presented "A Snapshot of Climate Variability at Tahiti 9.5 ka Using a Fossil Coral from IODP Expedition 310," **Kristine L. DeLong**, Terrence M. Quinn, Chuan-Chou Shen, and Ke Lin, <http://www.paleontology.uni-mainz.de/ISC2010/>.
- American Geophysical Union (AGU) Fall Meeting, December 14–18, 2009, San Francisco CA. Presented "Do Different Massive Corals from the Same Reef Record the Same Climate Signal? A Test from the Dry Tortugas, Florida Keys," **Kristine L. DeLong**, Richard Z. Poore, Christopher D. Reich, Christopher R. Maupin, and Terrence M. Quinn. Eos Trans. AGU, 90(52), Fall Meeting Supplement, Abstract PP31B-1337. Served as a mentor for the MS PHDs Professional Development Program for three students attending their first science conference.
- American Geophysical Union (AGU) Fall Meeting, December 14–18, 2009, San Francisco CA. Co-author on presented paper "Reconstructing the Seawater Nutrient History of Biscayne National Park, FL, Using Phosphorus Recorded in Coral Skeleton," Harazin, Katerine M., Michele LaVigne, Robert M. Sherrell, **Kristine L. DeLong**, and Christopher D. Reich, Eos Trans. AGU, 90(52), Fall Meeting Supplement, Abstract PP11A-1296. Served as a mentor for the MS PHDs Professional Development Program for three students attending their first science conference

American Geophysical Union Fall Meeting, December 2008, San Francisco CA. Oral presentation titled “Inter-Decadal to Multi-Decadal Sea Surface Temperature Variability in the Southwest Tropical Pacific since AD 1648,” **Kristine L. DeLong** Terrence M. Quinn, Frederick W. Taylor, Ke Lin, and Chuan-C. Shen, *Eos Trans. AGU*, 89(53), Fall Meeting Supplement, Abstract PP21D-03.

11th International Coral Reef Symposium, July 2008, Ft. Lauderdale FL. Oral presentation titled “Reconstructing Sea Surface Temperature Variability in the Southwest Pacific: A Replication Study Using Multiple Coral Sr/Ca records from New Caledonia,” **Kristine L. DeLong** Terrence M. Quinn, Frederick W. Taylor, Ke Lin, and Chuan-C. Shen <http://www.nova.edu/ncri/11icrs/>.

American Geophysical Union Fall Meeting, 10–14 December 2007, San Francisco CA. Poster presentation titled “Investigating the Forcing and Response in Proxy Records of Multi-Decadal Scale Climate Variability,” **Kristine L. DeLong** Terrence M. Quinn, Richard Z. Poore, and Gary T. Mitchum, *Eos Trans. AGU*, 88(52), Fall Meeting Supplement, Abstract PP33A-1003 and co-chaired session titled “Past Climate Forcings: A New PAGES Focus II Posters.”

First International Sclerochronology Conference, July 2007, St. Petersburg FL. Oral presentation titled “Reconstructing 20th Century SST Variability in the Southwest Pacific: A Replication Study Using Multiple Coral Sr/Ca Records from New Caledonia,” **Kristine L. DeLong** Terrence M. Quinn, Frederick W. Taylor, Ke Lin, and Chuan-C. Shen, Awarded Best Student Oral Presentation, <http://conference.ifas.ufl.edu/sclerochronology/>.

First International Sclerochronology Conference, 17–21 July 2007, St. Petersburg FL. Poster presentation titled “Sclerochronology in Massive Corals: Advantages and Disadvantages,” Timothée Ourbak and **Kristine L. DeLong**.

American Geophysical Union Fall Meeting, 11–15 December 2006, San Francisco CA. Poster presentation titled “Reconstructing 20th Century SST Variability in the Southwest Pacific: A Replication Study Using Multiple Coral Sr/Ca Records from New Caledonia,” **Kristine L. DeLong** Terrence M. Quinn, and Frederick W. Taylor, *Eos Trans. AGU*, 87(52), Fall Meeting Supplement, Abstract OS11A-1472.

American Geophysical Union Fall Meeting, 5–9 December 2005, San Francisco CA. Poster presentation titled “Sea Surface Temperature Variability in the Southwest Tropical Pacific Since 1679 AD Derived from Coral Skeletal Geochemistry,” **Kristine L. DeLong**, Terrence M. Quinn, and Frederick W. Taylor, *Eos Trans. AGU*, 86(52), Fall Meeting Supplement, Abstract PP21C-1569.

American Geophysical Union Fall Meeting, December 13–17, 2004, San Francisco CA. Poster presentation titled “Sea Surface Temperature Variability in the Southwest Pacific as Reconstructed from the Skeletal Geochemistry of a Tricentennial Coral from New Caledonia,” **Kristine L. DeLong**, Terrence M. Quinn, and Frederick W. Taylor.

Workshops

South Central Climate Adaptation Science Center Annual meeting, November 13-15, 2019, Dallas TX, Teleconnections working group.

International Union of Geological Sciences International Commission on Stratigraphy, Subcommission on Quaternary Stratigraphy, Anthropocene Working Group New Orleans meeting 8–9 November 2019 hosted by Tulane University and the Haus der Kulturen der Welt Museum. Presented talk on “Tropical corals as potential GSSP archives Little Cayman Island and Great Barrier Reef” **Kristine DeLong**, Jens Zinke, Nicolas Duprey, Janice M. Lough, and Steffen Hetzinger. Met with team members on progress of the project.

Anthropocene River Campus: The Human Delta meeting November 11–16, 2019 hosted by Tulane University and the Haus der Kulturen der Welt Musuem. Served as a local science expert during field trips on Monday November 11, 2019.

- CoralHydro2K Workshop, presented talk titled, “Oceanic-atmospheric shifts in the southwest tropical Pacific since 1649 CE,” **Kristine L. DeLong**, Terrence M. Quinn, Frederick W. Taylor, Ke Lin, and Chuan-Chou “River” Shen.
- Paleo ENSO Workshop, Belitung Indonesia, 26–30 August 2019. Presented talk titled, “Local perspectives on ENSO mean states ~2300 BP and now: $\delta^{18}\text{O}$ reconstructions from the short-lived bivalves *Donax obesulus* and *Mesodesma donacium*,” Jacob Warner, **Kristine L. DeLong**, David Chicoine, Kaustubh Thirumalai, C. Fred T. Andrus, Alan Wanamaker, Jr.
- 2nd Pan-Pacific Anthropocene Workshop, October 27–28, 2018, Taipei, Taiwan, presented “Hydroclimate Change from Corals and Other Paleoclimate Archives: Insights from the CoralHydro2K and Iso2K Synthesis Projects.”
- Gulf of Mexico Reefs: Past, Present, and Future Workshop at Rice University, October 10–11, 2018. Participated in Paleo Gulf group in developing a project and paper.
- South Central Climate Adaptation Science Center Early Career Workshop, August 5–11, 2018, Baton Rouge, LA. Co-Convener with Victor Rivera-Monroy. Presented “Paleoclimate & Coastal Impacts.”
- Perkin Elmer ICP-OES and ICP-MS workshop, Baton Rouge, May 31, 2018.
- Perkin Elmer ICP-OES training, Atlanta GA, January 23–25, 2018.
- PAGES Iso2k Workshop, May 14–15, 2017, CSIC the Spanish National Research Council offices, Zaragoza, Spain. Presented and lead group for the Atlantic subgroup.
- Workshop on Paleoclimate Data Standards: logistics and updates, June 21–23, 2016, Boulder CO. Present, “Save our Marine Annually-Resolved Proxy Archives (MARPA)” Emilie P. Dassié, Kristine L. DeLong, K. Halimeda Kilbourne, and Branwen Williams. Presented and participated in workshop.
- South Central Climate Science Center Early Career Workshop, June 19–21, 2016, Texas Tech University, Lubbock, TX. Invited to give presentation titled, “Coastal Impacts and Paleoclimate,” Kristine DeLong. Participated in workshop as an instructor.
- Physical Samples Forum at 2016 Ocean Sciences Meeting, February 22, 2016, New Orleans, LA. Co-author on presentation, “MARPA Marine Annually-Resolved Proxy Archives,” Emilie P. Dassié, Kristine L. DeLong, K. Halimeda Kilbourne, and Branwen Williams.
- South Central Climate Science Center Research Workshop, November 19–20, 2015, Ft. Worth, TX. Participated in meeting and led LSU group at meeting.
- South Central Climate Science Center Research Workshop, November 19–20, 2015, Ft. Worth, TX. Poster presented titled, “Using Tree Rings to Find Evidence of Hurricanes,” Clay Tucker, Jill Trepanier, Grant Harley, and Kristine DeLong.
- South Central Climate Science Center Research Workshop, November 19–20, 2015, Ft. Worth, TX. Poster presented titled, “Training for Native Tribes of Louisiana and New Mexico on Understanding Climate in a Changing World,” Jacob Warner, Kristine L. DeLong, and Micha Rahder.
- LCC SC CSC LSU Partners Workshop, National Wetland Research Center, Lafayette, Louisiana, October 20, 2015, Presented “LSU Climate, Social/Human Dimensions & Coastal Studies” with Dr. Rivera-Monroy.
- South Central Climate Science Center Research Workshop, November 20–21, 2014, Dallas, TX. Participated in meeting and led LSU group at meeting.
- US-China International Forum on Processes and Services of Wetland Ecosystems Workshop, November 10–12, 2014, Louisiana State University, Baton Rouge, LA. Oral presentation titled, “Insights on Sea Level Rise and Environmental Change From a Glacial Age Submerged Bald Cypress Forest,” **Kristine DeLong** and Grant Harley. Served as a member of the organizing committee with Aixin Hou of the School of the Coast and the Environment at Louisiana State University.

- Coral and High Resolution Marine Carbonate Research Community Cyberinfrastructure Workshop, October 16–17, 2014, Palisades, NY. Co-convenor with Emilie Dassié of Lamont Doherty Earth Observatory. A workshop to discuss the next generation of data sharing in the marine carbonate paleoclimate community.
- Land Conservation Cooperative and LSU South Central Climate Science Center Partners Workshop, National Wetland Research Center, Lafayette, Louisiana, August 21, 2014, Oral presentation titled “LSU Climate & Coastal Studies Intern & Human Dimensions” **Kristine L. DeLong** and Victor Rivera-Monroy.
- South Central Climate Science Center Early Career Workshop, June 15–20, 2014, National Weather Center on the Research Campus of the University of Oklahoma, Norman, OK. Invited to give presentation titled, “Coastal Impacts and Paleoclimate,” **Kristine L. DeLong**. Participated in workshop as an instructor.
- Optimizing the Coral and High Resolution Marine Carbonate Research Community Cyberinfrastructure, February 26, 2014, Honolulu HI. Co-convenor with Emilie Dassié of Lamont Doherty Earth Observatory. An open forum workshop to discuss the next generation of data sharing in the marine carbonate paleoclimate community.
- University of Texas at Austin Coral Processing Workshop at Analytical Laboratory of Paleoclimate Studies (ALPS), August 4–9, 2013, University of Texas at Austin. Lead workshop on coral sampling and micro-milling.
- Integrated Ocean Drilling Program (IODP) - Engaging Early Career Scientists in Future Scientific Ocean Drilling Workshop, March 30–April 1, 2011, College Station, TX. Oral presentation titled, “Cenozoic Evolution of Indian Monsoon and Ocean Circulation,” **Kristine L. DeLong**.
- Integrated Ocean Drilling Program - Engaging Early Career Scientists in Future Scientific Ocean Drilling Workshop, 30 March–1 April 2011, College Station, TX. Poster presented "A Snapshot of Climate Variability at Tahiti 9.5 ka using a Fossil Coral from IODP Expedition 310," **DeLong, Kristine L.**, Terrence M. Quinn, Chuan-Chou Shen, and Ke Lin.
- Workshop on Pliocene Climate, 23–25 October 2009, Bordeaux France. Oral presentation titled “Pliocene Corals, Rainfall, and El Niño Teleconnections,” Jennifer Sliko, Gregory Herbert, **Kristine DeLong**, and Michèle LaVigne.
- United States Geological Survey, Coral Reef Ecosystem Studies (CREST) Workshop, March 10, 2009, St. Petersburg FL. Oral presentation titled “Climate and Sea Level,” **Kristine L. DeLong**.
- United States Geological Survey Gulf Coast Science Conference and Florida Integrated Science Center Meeting, October 20–23, 2008, Orlando FL. Oral presentation titled “Natural Climate Variability in the Northern Gulf of Mexico: Implications for the future,” Poore, Richard Z., **Kristine L. DeLong**, Kathy Tedesco, Lisa Osterman, Julie Richey, and Terrence Quinn.

Local Conferences and Symposia (Student presenters are underlined)

- LSU Undergraduate Research Conference, October 25, 2018, LSU Union Royal Cotillion Ballroom, poster presentation titled, “Seed Analysis of a Preserved Cypress Forest Site Off the Coast of Alabama on the Northern Gulf of Mexico Continental Shelf,” Kalab Robertson and **Kristine L. DeLong**.
- University of Louisiana at Lafayette Graduate Symposium October 12, 2018, Clay Tucker, Jill Trepanier, and Kristine DeLong, presented, “Tree Rings Record Hurricane Events of the Past.”
- Gulf of Mexico Graduate Student Symposium, March 17–19, 2017, Cocodrie, LA. Oral presentation titled, “A 40,000 Year Old Forest in the Middle of the Gulf of Mexico: How it Survived and What it Can Tell Us,” Jeffrey Obelcz, Kehui Xu, Suyapa Gonzalez, Samuel J. Bentley, Alicia Caporaso, and **Kristine L. DeLong**. Won first place-people’s choice.
- LSU Discover Day, April 7, 2016, LSU Union Royal Cotillion Ballroom, poster presentation titled, “An Oceanic Thermometer: Using Sr/Ca in *Siderastrea siderea* to Measure Sea-Surface

Temperature Variability,” Ashley Pomes, **Kristine L. DeLong**, Gilman Ouellette, and Amy Wagner.

LSU Undergraduate Research Conference, November 6, 2015, LSU Union Royal Cotillion Ballroom, poster presentation titled, “Geologic Setting and Preservation of a Late Pleistocene Bald Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf,” Suyapa Gonzalez, Samuel J. Bentley Sr., **Kristine L. DeLong**, Kehui Xu, Grant L. Harley, Carl Andy Reese, and Jeffrey Obelcz. Won first place.

School of the Coast and the Environment Undergraduate Student Poster Symposium, March 31, 2014, Louisiana State University, Baton Rouge, LA. Undergraduate student, Alison Bojarski, presented a poster titled “Assessing Millimeter-Scale Sr/Ca Variability Within the Corallite Fan Structure of *Porites lutea* for Improving Coral-Based Paleoclimate Reconstructions,” Alison Bojarski, **Kristine L. DeLong**, Terrence M. Quinn, and Frederick W. Taylor.

LSU Undergraduate Research Day, March 10, 2014, Louisiana State University, Baton Rouge, LA. Poster presentation titled, “Age and Season of Harvest for *Mesodesma donacium* from the Nepeña Valley, Coastal Peru,” Rebecca Hood, **Kristine L. DeLong**, and David Chicoine.

LSU Undergraduate Research Day, March 10, 2014, Louisiana State University, Baton Rouge, LA. Poster presentation titled, “Assessing millimeter-scale Sr/Ca variability within the corallite fan structure of *Porites lutea* for improving coral-based paleoclimate reconstructions,” Alison Bojarski, **Kristine L. DeLong**, Terrence M. Quinn, and Frederick W. Taylor.

LSU Undergraduate Research Conference, November 1, 2013, LSU Union Cotillion Ballroom, Poster presentation titled, “Sclerochronological Analysis of a Large Ancient Oyster Shell (*Crassostrea gigantissima*),” Andrew Trahan, **Kristine L. DeLong**, and Robin M. Cobb.

LSU Undergraduate Research Conference, October 26, 2012, Louisiana State University, Baton Rouge, LA. Undergraduate student giving oral presentation on work completed in the Summer ASPIRE program titled, “Age and Season of Growth for *Mesodesma donacium* from the Nepeña Valley, Coastal Peru,” Rebecca Hood, **Kristine L. DeLong**, and David Chicoine. Rebecca won first place in the oral presentations for the Social Sciences category.

Invited Guest Lecturer

Department of Geology and Geophysics LJ Wilbert Endowment Seminar speaker, Louisiana State University, Baton Rouge, LA, March 6, 2020. Presented “The Alabama Underwater Forest: A Time Capsule from the Last Ice Age.”

Summer seminar series at Stennis Space Center, MS, June 12, 2019. Presented “The Underwater Forest: A Time Capsule from the Last Ice Age” for the U.S. Naval Research Laboratory STEM Education and Workforce Development.

Department of Geography Colloquium Series, University of Georgia, Athens, GA, September 21, 2018. Presented “The Underwater Forest: A Time Capsule from the Last Ice Age”.

Department of Geography and Anthropology Seminar series, Screening of The Underwater Forest, October 13, 2017, and DeLong held Question and Answer session afterwards.

School of Earth and Atmospheric Sciences Seminar Series, Georgia Institute of Technology, Atlanta, GA, July 25, 2017. Presented “An Ancient Baldcypress Forest in the Northern Gulf of Mexico”.

Woods Hole Oceanographic Institution, Climate Seminar series, April 6, 2017. Presented “Oceanic-atmospheric shifts in the southwest tropical Pacific since 1649 CE.”

Society of American Foresters meeting, Baton Rouge, LA, October 27, 2016. Guest lecture on “Discovery of a Pleistocene Forest in the Northern Gulf of Mexico.”

National Taiwan University, Department of Geosciences Seminar series, Taipei, Taiwan, May 13, 2016. Presented “New insights of past climate variability in the Gulf of Mexico from corals and trees.”

- Nanyang Technical University, Earth Observatory of Singapore Seminar series, Singapore, March 8, 2016. Presented “Oceanic-atmospheric shifts in the southwest tropical Pacific since 1649 CE.”
- School of the Coast and The Environment Seminar Series, Louisiana State University, Baton Rouge, LA, September 20, 2013. Presented “Sea Surface Temperature Variability in the Gulf of Mexico from 1734–2008 CE: A Reconstruction Using Cross-Dated Sr/Ca Records from the Coral *Siderastrea siderea*.”
- University of Southern Mississippi, Department of Geography and Geology, Geoforum Seminar Series, Hattiesburg, MS, April 19, 2013. Presented “Variability in Gulf of Mexico Sea Surface Temperatures Since 1734 CE: Reconstructing Temperature from Massive Corals.”
- Iowa State University, Department of Geological and Atmospheric Sciences. ISU Geological and Atmospheric Sciences Spring 2013 Seminar Series, Ames, IA, April 5, 2013. Presented “Reconstructing Tropical Climate Variability from Massive Corals.”
- College of Marine Science, University of South Florida and U.S. Geological Survey Seminar Series, St. Petersburg, FL, March 7, 2013. Presented “Reconstructing Tropical Climate Variability from Massive Corals.”
- Nanyang Technical University, Earth Observatory of Singapore Seminar series, Singapore, February 19, 2013. Presented “A Tropical Perspective on Reconstructing Climate Variability from Paleoclimate Archives.”
- Nanyang Technical University, Paleoclimate Research Group seminar speaker, Singapore, February 20, 2013. Presented “Reconstruction Past Climate Variability from Corals.”
- NOAA Lunch and Learn at Flower Gardens Banks National Marine Sanctuary Headquarters, Galveston TX, July 12, 2012. Guest speaker presented, “Reconstructing Tropical Climate Variability from Massive Corals.”
- School of Earth and Atmospheric Sciences Seminar Series, Georgia Institute of Technology, Atlanta, GA. October 14, 2011. Presented “Reconstructing Tropical Climate Variability from Massive Corals.”
- Department of Geology and Geophysics Seminar speaker, Louisiana State University, Baton Rouge, LA, March 3, 2011. Presented “Reconstructing Tropical Climate Variability from Massive Corals.”
- Department of Geological Science Seminar Series, University of Alabama, Tuscaloosa, AL, February 9, 2011. Presented “Reconstructing Tropical Climate Variability from Massive Corals.”
- School of the Coast and The Environment Seminar Series, Louisiana State University, Baton Rouge, LA, October 15, 2010. Presented “Reconstructing Tropical Climate Variability from Massive Corals.”
- College of Marine Science, University of South Florida, St. Petersburg, FL, September 17, 2010. Guest speaker for Surviving Academia Seminar series taught by Mya Breitbart.
- Atlantic Studies Brown Bag Seminar, Louisiana State University, Baton Rouge, LA, October 28, 2009. Presented “An Update on Paleoclimate Research in the Gulf of Mexico and the Caribbean.”

Service

University

Graduate Committee member, Department of Geography and Anthropology, 2010–2019.

Distance Learning Committee Chair, Department of Geography and Anthropology, 2012–present.

University Council for Gender Equity formerly University Council on Women, Fall 2013–Spring 2016.

Search Committee for Learning Management System (LMS)/Moodle Administrator for the Faculty Technology Help Desk part of the LSU Information Technology Services. Appointed Fall 2014.

Chair committee for faculty awards for the College, April 2017.

Reviewing

Received an outstanding reviewer award from Paleogeography and Paleoclimatology in 2019, <https://eos.org/agu-news/in-appreciation-of-agus-outstanding-reviewers-of-2018>.

Received an award for Outstanding Contributions in Reviewing from Palaeogeography, Palaeoclimatology, Palaeoecology 2015 and Outstanding Reviewer in 2016.

Editorial Board Palaeogeography, Palaeoclimatology, Palaeoecology, appointed April 2014.

Reviewer for Peer Review Journals

Journal of Geophysical Research - Oceans

Nature Geoscience

USGS Open File Reports

Bulletin of Marine Science

Geochimica et Cosmochimica Acta

Geochemistry, Geophysics, and Geosystems

Palaeogeography, Palaeoclimatology,

Palaeoecology

Quaternary Science Reviews,

Climate of the Past

Paleoceanography

Paleoceanography and Paleoclimatology

Nature Communications

Nature

Coral Reefs

Geochemical Journal

Scientific Reports

Cartography and Geographic Information Science

Marine and Freshwater Research

Continental Shelf Research

Journal of Climate

Chemical Geology

Biogeosciences

PLOS ONE

Limnology and Oceanography

Journal of Marine Systems

Journal of Coastal Research

Geoscience Letters

Sedimentary Geology

Geophysical Research Letters

Frontiers Earth Science

Oceanography

Reviewer for Grant Proposals

National Science Foundation, Directorate for Geosciences, Paleo Perspectives on Climate Change (P2C2) program

National Science Foundation, Directorate for Geosciences, Marine Geology and Geophysics

National Science Foundation (NSF), Geography and Spatial Sciences (GSS) Program

National Science Foundation, Directorate for Geosciences, Ocean Sciences Research Initiation Grant (OCE-RIG) program.

Natural Environment Research Council for the United Kingdom

Deutsche Forschungsgemeinschaft (DFG)

LSU Faculty Research Grants

Austrian Science Fund (FWF), Proposal review

National Aeronautics and Space Administration (NASA), 2014 NASA Earth and Space Science Fellowship (NESSF) Program

National Oceanic Atmospheric Administration (NOAA) Climate Program's Climate Observations and Monitoring (COM) component

Nanyang Technical University, Earth Observatory of Singapore

Research Corporation for Science Advancement

NOAA Hawai'i Laboratory (HURL) and Office of Ocean Exploration and Research (OER)

Outreach

Summer seminar series at Stennis Space Center, MS, June 12, 2019. Presented “The Underwater Forest: A Time Capsule from the Last Ice Age” for the U.S. Naval Research Laboratory STEM Education and Workforce Development.

Speaker at the Science Café LSU April 30, 2019. The Underwater Ancient Forest.

One Book One Pass program speaker at Pass Christian, MS Library October 4, 2018.

Guest speaker for the March for Science in Mobile, Alabama, April 14, 2018.

Presented at the Physics and Astronomy department’s Saturday Science, January 27, 2018, “The Underwater Forest - A Time Capsule from the Last Ice Age,” to high school and middle school students and teachers.

Interviews with Media

1/8/2020 interviewed by Andrea Moreau of LBP for Louisiana: The State We're In that will be airing on Friday Jan 10, 2020 at 7:30 PM on the recent paper published by Frontiers Marine Science on Climate change and Gulf of Mexico coral reefs.

1/3/2020 interviewed by JoAnna Klein of the New York Times in the Underwater Forest work and the shipworms Dan Distal conducted in December.

1/3/2020 interviewed by Deanna B. Narveson, Online News Editor for the Baton Rouge Business Report on the recent paper published by Frontiers Marine Science on Climate change and Gulf of Mexico coral reefs.

11/22/19 interviewed by Elsa Hahne of LSU ORED on the recent paper published by Frontiers Marine Science on Climate change and Gulf of Mexico coral reefs.

11/4/2019 Emailed by Lakshmi Supriya reporting for EOS magazine for comments on a recent paper on the Blue Hole in Bahama reconstructing past hurricanes occurrences there, <https://eos.org/articles/sea-caves-hold-clues-to-ancient-storms>.

1/24/2019 Interviewed by Ben Raines of Al.com and Alabama media Group on the preserving and protecting the Underwater Forest from underwater salvagers and the impact of the shutdown on universities.

3/6/18 Interviewed by Fran Morley for Covey Media Group on the underwater forest.

3/6/18 Interviewed by Amy Martin for Threshold podcast on the underwater forest and axial tilt.

3/2/18 interviewed by Steve Hardy of the Advocate “Louisiana coral reef feeling the heat as warmer water permeates the Gulf.”

https://www.theadvocate.com/baton_rouge/news/article_5b9cd42c-1e5e-11e8-9d01-ff36bdaa6807.html

3/2/2018 Panelist at the Corals in Crisis conference in the College of the Coast and the Environment, LSU.

2/15/18 Interviewed by Christine Wendling, Communications Specialist, College of the Coast and Environment, Louisiana State University for Corals in Crisis article for the upcoming Chasing Corals screening at the College of the Coast and the Environment on March 1, 2018.

DeLong was interviewed by Debbie Elliott from NPR News January 29, 2018 on the underwater forest. <https://www.npr.org/2018/02/09/584116280/scientists-long-buried-ice-age-forest-offers-climate-change-clues>.

DeLong was interviewed by Jennifer Leman for EOS at the AGU fall meeting, December 13-14, 2017 on the underwater forest.

DeLong interview by the Catherine Caruso, who is a science writer for the Boston University Research site covering Dr. Diane Thompson’s research on climate change and tradewinds she is presenting at the upcoming AGU conference on November 17, 2017.

DeLong interview by the LSU Student newspaper, Reveille, October 6, 2017, http://www.lsunow.com/daily/lsu-professor-among-scientists-studying-underwater-forest-dating-back-to/article_fd6627f2-ad27-11e7-b02b-d39b0fce463c.html

Interview by CBS Nightly News about The Underwater Forest on August 16, 2017, aired September 24, 2017, <http://www.cbsnews.com/news/underwater-forest-preserved-since-ice-age-alabama-gulf-coast/>.

Attended the premiere of The Underwater Forest on August 10, 2017 at the Gulf Coast Exploreum Science Center and participated in Question and Answers session afterwards.

Participated in the Ask Me Anything on Reddit forum on July 16, 2017 about The Underwater Forest, https://www.reddit.com/r/science/comments/6nsp26/science_ama_series_were_professor_kristine_delong/, archived at <https://doi.org/10.15200/winn.150029.95866>.

Interviewed by WAFF June 27, 2017 on the documentary “The Underwater Forest” about the ancient forest off the coast of Alabama, <http://www.wafb.com/story/35820306/scientists-study-60000-year-old-underwater-cypress-forest-off-coast-of-alabama>.
http://www.nola.com/environment/index.ssf/2017/06/gulfs_60000-year-old_underwater.html
<https://www.livescience.com/59568-images-underwater-forest-alabama.html>
<http://www.bbc.com/news/av/world-us-canada-40575049/ancient-underwater-forest-found-in-us>

Interviewed by The Washington Post June 27, 2017 on the documentary “The Underwater Forest” about the ancient forest off the coast of Alabama, <https://www.washingtonpost.com/news/speaking-of-science/wp/2017/06/29/a-mysterious-underwater-forest-warns-of-earths-rapidly-changing-climate/>

Interviewed for the filming of a documentary “The Underwater Forest” off the coast of Alabama with produced by the Weeks Bay Foundation, Ben Raines, President, June 17 and July 11, 2016.

Interviewed by Alison Satake of the LSU Office of Communications & University Relations on December 2, 2015 on the recent Nature Communications paper and my research program.

Interviewed and conducted laboratory visit for Brenda Macon of the Office of Research & Economic Development Magazine on November 18, 2014.

Conducted a radio interview on May 16, 2014 with Don Dubec for The Think Tank show of WWL New Orleans on the ancient bald cypress forest off the coast of Alabama.

Interviewed for the filming of a documentary on the Ancient Forest off the coast of Alabama with produced by the Weeks Bay Foundation, Ben Raines, President, February 5, 2014.

Interviewed and participated in the filming of a documentary on the Ancient Forest off the coast of Alabama with produced by the Weeks Bay Foundation, Ben Raines, President, October 16–17, 2013.

Interviewed by Ben Raines from Alabama.com about radiocarbon dates of the ancient trees located off the coast of Alabama in January 2013. Article entitled “Ancient Underwater Forest off Alabama is Much Older than Scientists Thought.”

Interviewed July 24, 2013 NBC Nightly News regarding the ancient cypress trees located off the coast of Alabama.

Workshop Service

Early Career Workshop at LSU August 5–11, 2018. Organize workshop speakers, logistics, field trips, schedule, meals, and selected attendees. Send out advertisements to recruit participants in the workshop. Managed budgets and coordinated travel and workshop schedule. The workshop had 35 attendees, 12 speakers, and 8 guests from the South Central Climate Adaptation Science Center. Attendees included doctoral students, post docs, and early career professionals from Texas, Oklahoma, Louisiana, and New Mexico.

Undergraduate Summer Internship for Underrepresented Minorities Sponsored by the South Central Climate Science Center, July 22–28, 2018, Louisiana State University, Baton Rouge, LA. K. DeLong co-lead the program with Victor Rivera-Monroy of the Department of Oceanography and Coastal Sciences, College of the Coast and Environment, Louisiana State University. The internship sponsored ten students who visited three universities for one week

each to learn about climate change science. The LSU week of the program including a visit to the Louisiana Universities Marine Consortium (LUMCON) in Chauvin, LA to kayak salt marsh locations, visit to Atchafalaya Basin to learn about wetlands and climate change, and tour New Orleans to see Hurricane Katrina damage and to learn about flood protection.

Undergraduate Summer Internship for Underrepresented Minorities Sponsored by the South Central Climate Science Center, July 9–16, 2017, Louisiana State University, Baton Rouge, LA. K. DeLong co-lead the program with Victor Rivera-Monroy of the Department of Oceanography and Coastal Sciences, College of the Coast and Environment, Louisiana State University. The internship sponsored ten students who visited three universities for one week each to learn about climate change science. The LSU week of the program including a visit to the Louisiana Universities Marine Consortium (LUMCON) in Chauvin, LA to kayak salt marsh locations, visit to Atchafalaya Basin with the Nature Conservatory to learn about wetlands and climate change, and tour New Orleans to see Hurricane Katrina damage and to learn about flood protection.

Organized and led Climate literacy training for Native American tribes in Louisiana, May 1–2, 2017 at the Climate Center at Louisiana State University. DeLong was the lead PI with Micha Rahder and the SC CSC grant supporting the workshop. The training meeting had 14 representatives from four Louisiana tribes (Pointe-au-Chien, Tunica-Biloxi, Coushatta, and United Houma Nation). This second meeting was held at LSU since several participants at the first meeting suggested we provide computer hands-on training with different climate data sets. We prepared several exercises where they downloaded climate information and we had them prepare one-page climate information sheets for their tribal locations (Figure 2). Overall response was good for this meeting but tribal attendance was lower than the first yet several stakeholder who with tribes attended.

Organized and led Climate literacy training for Native American tribes in New Mexico, October 5–7, 2016 at Pueblo of Jemez Community Resource Center, Jemez Pueblo, NM. DeLong was the lead PI with Micha Rahder and the SC CSC grant supporting the workshop. The training meeting had 35 participants representing 77 tribes in the New Mexico and the United States. DeLong presented several talks on Climate basics, Paleoclimatology, Climate Variability, and Data Resources.

Fourth International Sclerochronology Meeting in Portland Maine in June 2016. Serving on the organizing committee. Attended and participated in organizing committee planning meeting September 28, 2015 in Minneapolis, MN and meeting in Portland MA June 5–10, 2016.

Undergraduate Summer Internship for Underrepresented Minorities Sponsored by the South Central Climate Science Center, May 22–29, 2016, Louisiana State University, Baton Rouge, LA. K. DeLong co-lead the program with Victor Rivera-Monroy of the Department of Oceanography and Coastal Sciences, College of the Coast and Environment, Louisiana State University. The internship sponsored ten students who visited three universities for one week each to learn about climate change science. The LSU week of the program including a visit to the Louisiana Universities Marine Consortium (LUMCON) in Chauvin, LA to kayak salt marsh locations, visit to Atchafalaya Basin with the Nature Conservatory to learn about wetlands and climate change, and tour New Orleans to see Hurricane Katrina damage and to learn about flood protection.

Organized and led Climate literacy training for Native American tribes in Louisiana, May 3–4, 2016 at the Coushatta Heritage Building in Elton, Louisiana. DeLong was the lead PI with Micha Rahder and the SC CSC grant supporting the workshop. The training meeting had 14 representatives from four Louisiana tribes (Pointe-au-Chien, Tunica-Biloxi, Coushatta, and United Houma Nation). DeLong presented several talks on Climate basics, Paleoclimatology, Climate Variability, and Data Resources.

Undergraduate Summer Internship for Underrepresented Minorities Sponsored by the South Central Climate Science Center, June 14–20, 2015, Louisiana State University, Baton Rouge,

LA. K. DeLong co-lead the program with Victor Rivera-Monroy of the Department of Oceanography and Coastal Sciences, School of the Coast and Environment, Louisiana State University. The internship sponsored nine students who visited three universities for one week each to learn about climate change science. The LSU week of the program including a visit to Poverty Point National Monument, the Louisiana Universities Marine Consortium (LUMCON) in Chauvin, LA to kayak salt marsh locations, visit a Grand Isle barrier island to discuss coastal change due to sea level rise, and tour New Orleans to see Hurricane Katrina damage and to learn about flood protection.

US-China International Workshop on Key Processes and Regulation of Wetland Ecosystems, November 10–12, 2014 at The Dalton J. Woods Auditorium, Louisiana State University, Baton Rouge, LA. On the organizing committee and lead two field trips for Chinese delegates to the LSU Rural Life Museum on November 10, 2014 and to the Mississippi River Control Structures on November 13, 2014.

Undergraduate Summer Internship for Underrepresented Minorities Sponsored by the South Central Climate Science Center, July 26–August 2, 2014, Louisiana State University, Baton Rouge, LA. K. DeLong co-lead the program with Victor Rivera-Monroy of the Department of Oceanography and Coastal Sciences, School of the Coast and Environment, Louisiana State University. The internship sponsored ten students who visited three universities for one week each to learn about climate change science. The LSU week of the program including a visit to Poverty Point National Monument, the Louisiana Universities Marine Consortium (LUMCON) in Chauvin, LA to visit a barrier island and salt marsh locations, and tour New Orleans to see Hurricane Katrina damage and to learn about flood protection.

Professional Memberships

American Geophysical Union (AGU), 2003–present
American Academy of Underwater Sciences (AAUS), 2005–present
Earth Science Woman’s Network (ESWN), 2005–present
Association of America Geographers (AAG), 2009–present
National Association of Geoscience Teachers (NAGT), 2009–present
Geochemical Society, member from 2014–present
International Society for Reef Studies (ISRS), member from 2015–present

Social Media

PAST lab <http://ga.lsu.edu/blog/pastlab/>
LSU South Central Climate Science Center <http://www.LSU-SCCSC.org>
MARPA <https://marpsite.wordpress.com/>
Twitter: @aquablusee <https://twitter.com/aquablusee>
Facebook: PAST Lab <www.facebook.com/PASTLab>
Research Gate: Kristine L. DeLong
Earth Cube: MARPA working group
ORCID: Kristine L. DeLong, [0000-0001-6320-421X](https://orcid.org/0000-0001-6320-421X)
Goggle Scholar: Kristine L. DeLong
Linkedin: <http://www.linkedin.com/pub/kristine-delong/40/690/8a0/en>
Academia.edu: <https://lsu.academia.edu/kristinedelong>
Loop: <http://loop.frontiersin.org/people/290133/overview>