

Dr. Diane M. Thompson

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Chronology of Education

- 2008 – 2013 **Doctor of Philosophy in Geoscience**, Global Change minor (Awarded 12/2013).
University of Arizona (*Tucson, AZ, USA*)
Advisor: Julia Cole. *Dissertation:* Variability and trends in the tropical Pacific and
the El Niño-Southern Oscillation inferred from coral and lake archives
- 2006 – 2008 **Master of Science in Marine Biology** (Awarded 5/2008). Florida Institute of
Technology (*Melbourne, FL, USA*)
Advisor: Robert van Woesik. *Thesis:* Return periods of anomalous sea-surface
temperature events inferred from a meta-analysis of thermal proxy records in
corals: implications for bleaching
- 2002 – 2006 **Bachelor of Science in Marine Biology**, *summa cum laude* (GPA: 4.0). Florida
Institute of Technology (*Melbourne, FL, USA*)

Chronology of Employment

- 2018 – present **Director of Marine Research**, Biosphere 2, University of Arizona
- 2018 – present **Assistant Professor**, Department of Geosciences, University of Arizona
- 2016 – 2018 **Assistant Professor**, Department of Earth & Environment, Boston University
- 2014 – 2015 **Advanced Study Program Postdoctoral Fellow**, National Center for Atmospheric
Research (*Boulder, CO, USA*)

Honors and Awards

- 2020 Outstanding Faculty Award, Department of Geosciences
- 2020 Private donation to Biosphere 2 Ocean project (\$20,600)
- 2020 Private donation to Biosphere 2 Ocean project (\$20,000)
- 2019 Biosphere 2 Board, Funding Drive for Biosphere 2 Ocean (\$17,500)
- 2018 Private donation to Biosphere 2 Ocean project (\$22,000)
- 2018 Donor sponsored, “Biosphere 2 Ocean Independent and Modular Experimental
Reef Systems” (\$23,594)
- 2018-2019 PI, Assessment Mini Grant, Office of the Provost, Boston University, “Assessing
AGREED, a program to cultivate allies and facilitate diversity and inclusion in
STEM” (\$3500)
- 2018-2019 co-PI, Assessment Mini Grant, Office of the Provost, Boston University,
“Evaluation of best practices for in-class electronic assessments in introductory
Earth and Environment course(s)” (\$4162)
- 2017-2018 PI, NCAR ASP Faculty Fellowship Program, “The impact of changing temperature
and circulation on coral connectivity in the Coral Triangle” (\$5k)
- 2013 Department of Geosciences Research Award

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2013	Runner-up Best Oral Presentation in the EarthWeek Plenary Session
2012	PEO Scholar Award
2011	GPSC Travel Grant
2011	Paul S. Martin Scholarship
2011	GC-GIDP Dissertation Improvement Grant
2010 & 2011	Institute of the Environment Travel Grant
2011	Susan G. Earl Galileo Circle Endowed Scholar
2010	Wilson Thompson Scholarship
2010	Runner-up Best Overall GeoDaze Talk
2008 – present	Sigma Gamma Epsilon (SGE) National Honors Society for Earth Sciences
2008	Institute for the Study of Planet Earth (ISPE) Scholarship
2006	Marine Resource Management Fellowship
2006	Faculty's Honor Award
2006	FIT's Outstanding Senior of the year
2006	American Association of University Women Award for Academic Excellence
2005 & 2006	Distinguished Student Scholar
2006	Outstanding Senior in Marine Biology
2005	Outstanding Junior in Marine Biology
2004 – 2006	Beta Beta Beta Biological Honors Society
2004 – 2006	Phi Eta Sigma National Honors Society
2003 & 2004	Florida Tech Panthers Scholar Athlete Award
2003 & 2004	National Fastpitch Coaches' Association (NFCA) All-American Scholar Athlete
2002 – 2004	Softball scholarship
2002 – 2006	FL Tech Trustee scholarship

Service/Outreach

Local/State Outreach

Biosphere 2 Virtual Reality Experiences

Biosystems Engineering Club, University of Arizona (Faculty mentor)

Biosphere 2 Director's Tour (~1/month, on demand)

College of Science Café, Tucson Botanical Gardens

Lead Developer of a community of practice to promote diversity, equity and inclusion in STEM at Boston University and University of Arizona: UA/BU-AGREED (BU Allies for Gender/Sexuality, Racial & Ethnic Equity and Diversity)

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National/International Outreach

Biosphere 2 World Ocean Day 2020
Biosphere 2 Virtual EarthFest 2020
New England Aquarium Dive Club Presentation
Taste of Science, Boston

Departmental Committees

Doctoral or Masters Exam Committees (*Primary advisor, † Co-advisor, ‡ Committee member):

Hunter Hughes, University of North Carolina ‡	2020-
Tumaini Kamulali†, MS, University of Arizona	2019-
Pablo Martinez Sosa‡, PhD, University of Arizona	2019-
David Edge‡, PhD, University of Arizona	2019-
Alice Chapman*, PhD, University of Arizona	2018-
Derek Hoffman‡, MS, University of Arizona	2019
Garrison Loope*, PhD, University of Arizona	2018-2019
Sara Cannon, PhD, University of British Columbia	2018-
Emma Reed*, PhD, Boston University / University of Arizona	2016-
Alexey Shiklomanov‡, PhD, Boston University	2016-2018

Other mentoring (*Primary advisor, † Co-advisor)

Jeri Wilcox, Undergraduate Research, Biosphere 2, University of Arizona	2021
Cat McNamara, Undergraduate Research, Biosphere 2, University of Arizona	2021-
Dr. Daniel Killam*, Postdoctoral Fellow, Biosphere 2, University of Arizona	2020-
Brandon Widener, Research Technician, University of Arizona	2020-
Dr. Lael Vetter, Research Technician, University of Arizona	2020-
Briana Hoegler*, Undergraduate Research, University of Arizona	2019-
Sophia Bautista*, Undergraduate Research, University of Arizona	2019-
Zoe Benson*, Undergraduate Research, University of Arizona	2019-
Hannah Mandell, Undergraduate Research, Pomona College	2019-
Anne Cohen, Undergraduate Research, Scripps College	2019-
Katie Morgan, Manager of Marine Systems, Biosphere 2 University of Arizona	2018-
Franklin Lane, Research Technician, Biosphere 2, University of Arizona	2018-2020
Kara Lachapelle, Research Technician, Biosphere 2, University of Arizona	2019-2020
Dr. Ty Roach*, Postdoctoral Fellow, Biosphere 2, University of Arizona	2018-2019
Jake Trzybinski, REU Intern, Biosphere 2, University of Arizona	2019
Ashlyn Bauman, Honors Internship, Biosphere 2, University of Arizona	2019
Maria Snyder*, Undergraduate Research, University of Arizona	2018-2020
Amber Petrie, ASEMS program, University of Arizona	2018
Juliette Bateman*, Undergraduate Research, Boston University	2017-2018
Rachel Jiang*, Undergraduate Research, Boston University	2017-2018

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Michael Crowley†, Undergraduate Research, Claremont-McKenna	2016
Madeline Moulton†, Undergraduate Research, Claremont-McKenna	2015-2016
Jessica Ng†, Undergraduate Research, Claremont-McKenna	2014-2016
Mineralogy Search Committee	2020-2021
Geodaze, Poster Judge	2019, 2020
Diversity, Equity, and Inclusion Committee, Co-Chair for Student Opportunities	2019-present
Geoscience Board Field Trip, Planning Committee	2019
Geoscience Advisory Board Meeting, presentation	March 2019
Geodaze, Field Trip at the Biosphere 2	2019
Code of Conduct Committee	2019
Vision Committee	2018-2020
Earth & Environment Diversity & Inclusion Communications Committee	2017-2018
Dive Control Board, Boston University	2017-2018
College Committees	
College of Science Lecture Series Planning Committee	Fall 2020
College of Science Diversity, Equity, and Inclusion Committee	Summer 2020
College of Science Advisory Board Meeting, presentation	January 2019
University Committees	
Honors College, Faculty Mentor for Flinn Scholars Program	2019-present
Brown Foundation, Bi-Annual Report	2018-present
Biosphere 2 Board, Bi-Annual Meeting Reports & Presentations	2018-present
Director of Marine Research, Biosphere 2	2018-present
Other Committees	
American Quaternary Association Diversity, Equity, and Inclusion Committee	2020-present
American Quaternary Association Marine Geoprocesses Councilor	2018-2022
Session Co-chair, American Geophysical Union Fall Conference	2018
Contributor to the PAGES Ocean2k and Iso2k synthesis of Paleoclimate data spanning the past two millennia (http://www.pages-igbp.org/workinggroups/2knetwork/ intro). Leader of the coral archive Iso2k synthesis team	2015-present

Referee

Biogeoscience; Climate of the Past; Coral Reefs; Deutsche Forschungsgemeinschaft (German Funding Agency); French National Research Agency; Geology; Geophysical Research Letters; Global Change Biology; GSA Today; Journal of Biogeography; Nature; Natural Environment Research Council; Nature

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Geoscience; Nature Communications; NSF/P2C2; Paleoceanography and Paleoclimatology; Palaeogeography, Palaeoclimatology, Palaeoecology; Progress in Oceanography; Quaternary International; Reef Encounter; Science

Publications / Creative Activity

Peer-reviewed Manuscripts § Post-doctoral researcher advisee, † Graduate student advisee, ‡ Undergraduate Student Advisee, * Substantially based on work done as a graduate student

In review

Thompson, D.M., J.L. Conroy, B.L. Konecky, S. Stevenson, S., K.L. DeLong, K.L., N. McKay, N., L. Jonkers, M. Carré (in review), Salinity reconstruction from hydro-sensitive coral $\delta^{18}\text{O}$ records, *GRL*.

†Chapman, A.U., D.M. Thompson, S.R. Hlohowskyj, J.E. Carilli, G. Gordon, T. Goepfert, §H.R. Sayani, T. Marchitto, and K.M. Cobb (submitted) A Mechanistic Investigation of the Coral Mn/Ca-based Trade-wind Proxy at Kiritimati. *Geochimica et Cosmochimica Acta*.

Lofverstrom, M., **Thompson, D.M.**, B.L. Otto-Bliesner, E.C. Brady (in review). Closure of the Canadian Arctic Gateways as a key prerequisite for glacial inception in Scandinavia. *Nature Geoscience*

Thompson, D.M. (Invited Review, submitted) Climate records from corals: a decade of novel insights and innovation, *WIREs Climate Change*

Thompson, D.M., M. McCulloch, J.E. Cole, †E.V. Reed, J. D'Olivo, K. Dyez, M. Lofverstrom, J. Lough, N. Cantin, A.W. Tudhope, †A.H. Cheung, L. Vetter, R.L. Edwards (in review). Marginal reefs under stress: physiological limits render Galápagos corals susceptible to warming and acidification. *Science Advances*.

Konecky, B., N. McKay, G. Falster, S. Stevenson, M. Fischer, A. Atwood, **D.M.**

Thompson, M. Jones, K. DeLong, J. Tyler, B. Martrat, E. Thomas, J. Conroy, S. Dee, L. Jonkers, O. Churakova, Z. Kern, T. Opel, T. Porter, H. Sayani, G. Skrzypek, Iso2k Project Members. (in revision) Temperature-driven changes in the global water cycle during the Common Era. *TBD*

†Loope, G., **D.M. Thompson**, J. Overpeck (in revision). South Asian monsoon precipitation over the last 2600 years recorded in Pale Daha sediment, western Nepal, *Palaeogeography, Palaeoclimatology, Palaeoecology*

†Hlohowskyj, S. R., **D.M. Thompson**, A. Chappaz (in revision) A promising new El Niño proxy: molybdenum sedimentary record in Genovesa Lake, Galápagos, *Geophysics, Geochemistry, Geosystems*

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- 2021 Cheung, A., J.E. Cole, **D.M. Thompson**, L. Vetter, G. Jimenez, A. Tudhope. (accepted) Fidelity of the coral Sr/Ca paleothermometer following heat stress in the northern Galápagos. *Paleoceanography and Paleoclimatology*
- Meehl, G.A., J.H. Richter, H. Teng, A. Capotondi, K. Cobb, F. Doblas-Reyes, M.G. Donat, M.H. England, J.C. Fyfe, W. Han, H. Kim, B.P. Kirtman, Y. Kushnir, N.S. Lovenduski, M.E. Mann, W.J. Merryfield, V. Nieves, K. Pegion, S. Sanchez, A. Scaife, D. Smith, A.C. Subramanian, L. Sun, **D.M. Thompson**, C. Ummerhofer, S.-P. Xie (2021), Initialized Earth system prediction from subseasonal to decadal timescales. *Nature Reviews Earth and Environment (Invited)*
- [†]Reed, E.V., **D.M. Thompson**, J. E. Cole, J. M. Lough, N. E. Cantin, [†]A. Cheung, A. Tudhope, L. Vetter, G. Jimenez, R.L. Edwards (2021) Impacts of Coral Growth on Geochemistry: Lessons from the Galapagos Islands. *Paleoceanography and Paleoclimatology*
- [§]Sayani, H.R., **D.M. Thompson**, J.E. Carilli, T.M. Marchitto, [†]A. Chapman, K.M. Cobb (2021). Reproducibility of coral Mn/Ca-based wind reconstructions at Kiritimati Island and Butaritari Atoll. *Geochemistry, Geophysics, Geosystems*
-
- 2020 [†]Loope, G., **D.M. Thompson**, J.E. Cole, J. Overpeck (2020), Is there a low-frequency bias in multiproxy reconstructions of Pacific SST variability? *Quaternary Science Reviews*
- [†]Loope, G., **D.M. Thompson**, J. Overpeck (2020), The spectrum of Asian Monsoon variability: a proxy system model approach to the hydroclimate scaling mismatch, *Quaternary Science Reviews*
- Konecky, B.L., N.P. McKay, O. Churakova (Sidorova), L. Comas-Bru, E. Dassié, K. DeLong, G. Falster, M. Fischer, M. D Jones, L. Jonkers, D.S. Kaufman, G. Leduc, S.R. Managave, B. Martrat, T. Opel, A.J. Orsi, J.W. Partin, H.R. Sayani, E.K. Thomas, **D.M. Thompson**, J.J. Tyler, N.J. Abram, A.R. Atwood, J.L. Conroy, Z. Kern, T.J. Porter, S.L. Stevenson, L. von Gunten, and the Iso2k Project Members (2020), The Iso2k Database: A global compilation of paleo- δ 18O and δ 2H records to aid understanding of Common Era climate. *Earth Syst. Sci. Data*
-
- 2019 [†]McManus, L.C., V.V. Vasconcelos, S.A. Levin, **D.M. Thompson**, J.A. Kleypas, F.S. Castruccio, E.N. Curchitser and J.R. Watson (2019). Extreme temperature events will drive coral decline in the Coral Triangle, *Global Change Biology*, 00, 1-14, doi: 10.1111/gcb.14972

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Grothe, P.R., K.M. Cobb, G. Liguori, E. Di Lorenzo, A. Capotondi, Y. Lu, H. Cheng, R.L. Edwards, J.R. Southon, G.M. Santos, D.M. Deocampo, J. Lynch-Stieglitz, T. Chen, H.R. Sayani, K. Townsend, M. Hagos, G. O'Connor, **D.M. Thompson**, L.T. Toth, A.L. Moore (2019) Enhanced El Niño-Southern Oscillation variability in recent decades. *Geophysical Research Letters*, doi: 10.1029/2019GL083906

[†]Reed, E.V., J.E. Cole, J.M. Lough, **D.M. Thompson** and N.E. Cantin (2019) Linking Climate Variability and Growth in Coral Skeletal Records from the Great Barrier Reef, *Coral Reefs*, 1-15, doi: 10.1007/s00338-018-01755-8

2018 **Thompson, D.M.**, J. Kleypas, F. Castruccio, E. Curchitser, M. Pinsky, B. Jönsson and J. Watson (2018) Variability in oceanographic barriers to coral larval dispersal: Do currents shape biodiversity?, *Progress in Oceanography*, 165, 110-122, doi: 10.1016/j.pocean.2018.05.007

Jimenez, G., J.E. Cole, **D.M. Thompson**, and A.W. Tudhope (2018) Northern Galápagos corals reveal twentieth century warming in the Eastern Pacific. *Geophysical Research Letters*. doi: 10.1002/2017GL075323

2017 ***Thompson D.M.**, J.L. Conroy, A. Collins, S. Hlohowskyj, J.T. Overpeck, M. Riedinger-Whitmore, J.E. Cole, M.B. Bush, H. Whitney, T.L. Corley, and M. Steinitz Kannan (2017) Tropical Pacific climate variability over the last 6000 years as recorded in Bainbridge Crater Lake, Galápagos. *Paleoceanography*. doi: 10.1002/2017PA003089

Conroy, J.L., **D.M. Thompson**, K.M. Cobb, D. Noone, S. Rea, A.N. LeGrande (2017) Spatiotemporal variability in the $\delta^{18}\text{O}$ -salinity relationship of seawater across the tropical Pacific Ocean. *Paleoceanography*, doi: 10.1002/2016PA003073

2016 [‡]Ng, J.Y., B. Williams, **D.M. Thompson**, C. Mayne, J. Halfar, E. Edinger, and K. Johnson (2016) Assessing multi-site $\delta^{18}\text{O}$ -climate calibrations of the coralline alga *Clathromorphum* across the high-latitude Northern Hemisphere, *Geochimica et Cosmochimica Acta*, 194, 279-290, doi: 10.1016/j.gca.2016.08.023.

Kleypas, J. A., **Thompson, D. M.**, Castruccio, F. S., Curchitser, E. N., Pinsky, M. and Watson, J. R. (2016), Larval connectivity across temperature gradients and its potential effect on heat tolerance in coral populations. *Glob Change Biol*, 22: 3539–3549. doi:10.1111/gcb.13347

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- 2015 Dee, S., Emile-Geay, J., Evans, M. N., Allam, A., Steig, E. J., & **Thompson, D. M.** (2015). PRYSM: An open-source framework for proxy system modeling, with applications to oxygen-isotope systems. *Journal of Advances in Modeling Earth Systems*, doi: 10.1002/2015MS000447
- ***Thompson, D.M.**, J.E. Cole, G. Shen, A. Tudhope, and G. Meehl (2015) Early twentieth-century warming linked to tropical Pacific wind strength. *Nature Geoscience*, doi:10.1038/ngeo2321
-
- 2014 Conroy, J.L., ***D.M. Thompson**, A. Collins J.T. Overpeck, M.B. Bush, and J.E. Cole (2014) Climate influences on water and sediment properties of Genovesa Crater Lake, Galápagos. *J. of Paleolimnology* 52(4), 331-347, doi: 10.1007/s10933-014-9797-z.
-
- 2013 Comboul, M., J. Emile-Geay, M.N. Evans, N. Mirnategui, K.M. Cobb, and **D.M. Thompson** (2013) A probabilistic model of chronological errors in layer-counted climate proxies: applications to annually-banded coral archives, *Clim. Past*, 9, 6077-6123, doi:10.5194/cpd-9-6077-2013.
- Schmidt, G. A., Annan, J. D., Bartlein, P. J., Cook, B. I., Guilyardi, E., Hargreaves, J. C., Harrison, S. P., Kageyama, M., LeGrande, A. N., Konecky, B., Lovejoy, S., Mann, M. E., Masson-Delmotte, V., Risi, C., **Thompson, D.**, Timmermann, A., Tremblay, L.-B., and Yiou, P. (2013) Using paleo-climate comparisons to constrain future projections in CMIP5, *Clim. Past*, 9, 775-835, doi:10.5194/cpd-9-775-2013.
- Evans, M. N., S.E. Tolwinski-Ward, **D.M. Thompson**, and K.J. Anchukaitis (2013). Applications of proxy system modeling in high resolution paleoclimatology. *Quaternary Science Reviews*, 76, 16-28, doi:10.1016/j.quascirev.2013.05.024
-
- 2012 & earlier ***Thompson, D.M.**, T.R. Ault, M.N. Evans, J.E. Cole, and J. Emile-Geay, (2011). Comparison of observed and simulated tropical climate trends using a forward model of coral $\delta^{18}\text{O}$. *Geophys. Res. Lett.*, 38, L14706, doi:10.1029/2011GL048224.
- Thompson, D.M.** and R. van Woesik (2009). Corals escape bleaching in regions that recently and historically experienced frequent thermal stress. *Proc. R. Soc. B*, 276(1669), 2893-2901, doi: 10.1098/rspb.2009.0591.

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Other publications

- Thompson, D.M.**, Cole, J.E., and K. Morgan (2020). Building Resilient Reefs: Biosphere 2 & Beyond. *Reef Encounter*, pp 66-68. http://coralreefs.org/wpcontent/uploads/2020/02/REEF_ENCOUNTER_Dec_2019_hi-res_3.pdf
- Evans, M., **DAPS workshop participants** (2019). Toward community resources for paleoclimate data assimilation, reanalysis, and proxy system modeling. *Past Global Changes Magazine*, 27(2), 88
- Konecky, B., L. Comas-Bru, E. Dassié, K. DeLong, J. Partin, and **Iso2k Project Members** (2018). "Iso2k is investigating Common Era hydroclimate with a new water isotope compilation." *Eos, Transactions, American Geophysical Union*.
- Dassié, E., K. DeLong, H. Kilbourne, B. Williams, N. Abram, L. Brenner, C. Brahmi, K. Cobb, T. Corrège, D. Dissard, J. Emile-Geay, H. Evangelista, M. Evans, J. Farmer, T. Felis, M. Gagan, D. Gillikin, N. Goodkin, M. Khodri, A.C. Lavagnino, M. LaVigne, C. Lazareth, B. Linsley, J. Lough, H. McGregor, I. Nurhati, G. Ouellette, L. Perrin, M. Raymo, B. Rosenheim, M. Sanstrom, B. Schöne, A. Sifeddine, S. Stevenson, **D. Thompson**, A. Waite, A. Wanamaker, H. Wu (2017) Save our Marine Annually-Resolved Proxy Archives (MARPA)! *Eos, Transactions, American Geophysical Union*
- McGregor, H.V., B. Martrat, M.N. Evans, **D. Thompson**, D. Reynolds, J. Addison and Workshop Participants (2016) Data, age uncertainties and ocean $\delta^{18}O$ under the spotlight for Ocean2k Phase 2. *Past Global Changes Magazine*, 24(1), 44, 10.22498/pages.24.1.44
- Thompson, D.M.**, F. Castruccio, J. Kleypas, E. Curchitser, M. Pinsky, and J. Watson (2014) Variability in reef connectivity in the Coral Triangle. *Reef Encounter*, 29(2), 46-51
- Thompson, D. M.**, T. R. Ault, M. N. Evans, J. E. Cole, J. Emile-Geay, and A. N. LeGrande (2013), Coral-CGCM comparison highlights role of salinity in long-term trends. P. Braconnot, C. Brierley, S.P. Harrison, L. von Gunten (eds) El Niño Southern Oscillation: observation and modeling, PAGES news, 21(2), 60-61.
- Thompson, D.M.**, (2011). Are More Frequent or Intense La Niñas in Our Future? Southwest Climate Blog, Climate Assessment for the Southwest (CLIMAS). <http://www.southwestclimatechange.org/blog/12601>

Work in Progress

- Collins, A.F., M.B. Bush, J.L. Conroy, **D.M. Thompson**, J.T. Overpeck (in prep.) Droughts, finches, and the Galápagos Islands: a paleoecological perspective. *PNAS*
- Hitt, N.T., H.R. Sayani, K.M. Cobb, P.R. Grothe, A.R. Atwood, S. Ellis, **D.M. Thompson**, J.L. Conroy, E. Wiggins, Y. Lu, M. Pythoud, P. Xhang, H. Cheng, R.L. Edwards (in prep.). Evaluating 20th century central tropical Pacific SST trends using young fossil corals
- Jimenez, G., J.E. Cole, K. Anchukaitis, L. Vetter, **D.M. Thompson**, A.W. Tudhope (in prep.) Insights on Pacific Climate Variability from a Preindustrial to Present Coral SST Reconstruction from Darwin Island, Galapagos. *Paleoceanography and Paleoclimatology*

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- McManus, L.C., V.V. Vasconcelos, F.P. Santos, S.A. Levin, **D.M. Thompson**, J.A. Kleypas, F.S. Castruccio, E.N. Curchitser and J.R. Watson (in prep). Larval dispersal facilitates coral adaptive response on a spatially realistic network, *PLoS Computation Biology*
- [†]Reed, E.V., **D.M. Thompson** (in prep.) Reconstructing the Pacific Intertropical Convergence Zone during the 20th Century, *Geophysical Research Letters*
- [§]Roach T.N.F., E. Santoro, K. Morgan, F. Lane, K. Lachapelle, R. Peixoto, D.M. Thompson (in prep.) Multi-scale microbial dynamics across time and space in the Biosphere 2 Ocean. *Ecological Engineering*
- *Thompson, D.M.**, J.E. Cole, and A.W. Tudhope (in prep.) Enhanced E-W temperature gradient across the date line inferred from central Pacific coral records. *Paleoceanography*
- Thompson, D.M.**, J.E. Cole, and K.L. DeLong (in prep.) Impact of calibration methodology on temperature and $\delta^{18}\text{O}_{\text{sw}}$ trends inferred from coral Sr/Ca and $\delta^{18}\text{O}$: towards a unified calibration. *Paleoceanography*
- Thompson, D.M.**, B. Williams (in prep). Proxy System Model Intercomparison Project: A test of $\delta^{18}\text{O}$ across latitudes & kingdoms of marine calcifying organisms ($\delta^{18}\text{O}_{\text{carb}}$ -PSM-MIP). *Journal of Advances in Modeling Earth Systems*.
- Thompson, D.M.**, M.N. Evans, DAPS Working Group (in prep.) A framework for assessing the utility of proxy system models. *Climate of the Past*
- Thompson, D.M.**, J. Kleypas, R. van Woesik (in prep.) The “calm before the spawn”: the ultimate cue of coral spawning across the Coral Triangle? *Coral Reefs*
- [‡]Trzybinski, J., **D.M. Thompson**, K. Morgan, D. Dettman, [†]L. Crocker, T. Roach, F. Lane, E. Santoro (in prep.) Trophic Dynamics on Degraded Coral Reefs: Analyses of Nutrients and Isotope Fractionation in the Biosphere 2 Ocean. *Ecological Engineering*.

Media

Interview for Documentary Film “An Inupiaq Life”
Bill Buckmaster Radio Show, Interview
Chris DeSimone Live Radio, Interview
Biosphere 2 Podcast, episode 006: “Ocean in a bottle”
National Public Radio, Filming / Interview
BBC Media Works, Filming / Interview
Nature, Interview
Al Roker Discovery Show, Filming / Interview
Podcast guest: “Plucky Ladies: Exploring female curiosity, perseverance, and feats of excellence”

Conferences/Scholarly Presentations

Invited University of Arizona Geosciences, Tucson, USA

2020

Dr. Diane M. Thompson

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Seminars & Colloquia	Geoscience Advisory Board, Tucson, USA	2019
	College of Science Advisory Board, Tucson, USA	2019
	PaleoENSO workshop, Belitung, Indonesia (Invited Keynote)	2019
	European Geophysical Union, Vienna, Austria (Solicited Oral)	2019
	Vanderbilt University, TN, USA	2018
	University of Illinois Urbana-Champaign, IL, USA	2017
	Colby College, Maine, USA	2017
	Speleothem Isotopes Synthesis & Analysis (SISAL) meeting, Stockholm, Sweden	2017
	Australian Institute of Marine Science, Townsville, Australia	2016
	Department of Meteorology, Stockholm University	2016
	Baltic Seminar Series, Baltic Sea Centre, Stockholm University	2016
	Jr. Faculty Colloquium, Boston University	2016

Conference: § Post-doctoral researcher advisee, † Graduate student advisee, ‡ Undergraduate Student Advisee

Add Brianna's geodaze and AGU talks 2020/2021

- †Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., §Sayani, H.R., Cobb, K.M. Behind-the-scenes of the Coral Mn/Ca-based Trade-wind Proxy: Interpreting the Mn Signal Lag. Virtual oral presentation at the 14th International Coral Reef Symposium, 2021.
- ‡Bautista, S.R., †Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., §Sayani, H.R., Cobb, K.M. Diving Deeper: Replication of Mn/Ca Anomalies Across Abaiang Atoll. Virtual poster presentation at UA Geosciences GeoDaze Symposium, 2021.
- ‡Benson, Z.E., †Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., §Sayani, H.R., Cobb, K.M. Reconstructing Westerly Wind Bursts From Abaiang Coral Using a Mn/Ca Proxy. Virtual poster presentation at UA Geosciences GeoDaze Symposium, 2021.
- †Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., §Sayani, H.R., Cobb, K.M. Lagoon Morphology: A Key Component of the Coral Mn/Ca-based Trade-wind Proxy. Virtual oral presentation at UA Geosciences GeoDaze Symposium, 2021.
- ‡Bautista, S.R., †Chapman A.U., Thompson, D.M., Carilli, J. E., Hlohowskyj, S. R., Gordon, G., Goepfert, T. Reinforcing the Mn/Ca Trade-wind Proxy: A Closer Look at Manganese Redox in Kiritimati's Lagoon. Virtual poster at AGU Fall Meeting, 2020.
- †Chapman A.U., Thompson, D.M., Carilli, J. E., Hlohowskyj, S. R., Gordon, G., Goepfert, T. Lagoon Morphology: A Key Component of the Coral Mn/Ca-based Trade-wind Proxy. Invited virtual poster and lightning talk at AGU Fall Meeting, 2020.
- †Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., §Sayani, H.R., Cobb, K.M. Assessing the Reliability of the Coral Mn/Ca-based Trade-wind Proxy: Interpreting the Mn Signal Lag. Virtual poster at AGU Fall Meeting, 2020.

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- [†]Reed E.V., D.M. Thompson, J.E. Cole, L. Vetter, D. Dettman, D. McGee, [‡]M. Snyder, [§]H. Sayani, A. Tudhope (2020) Shifts in the Pacific rain belt recorded in a network of coral paleoclimate records. *Virtual Talk, UArizona GeoDaze Symposium*.
- [‡]Snyder, M., D.M. Thompson, [†]E.V. Reed, L. Vetter, D.L. Dettman, D. McGee, [§]H. Sayani (2020), Western Pacific Fossil Coral Records Reveal Change in Tropical Climate During the Past Millennium, *Poster Presentation, UArizona GeoDaze Symposium, University of Arizona*
- Thompson, D.M.**, J.E. Cole, M.T. McCulloch, J.P. D’Olivo, G. Jimenez, [†]E.V. Reed, N.E. Cantin, J. Lough (2019), Changing coral pH regulation & calcification in marginal environments: new insights from the Galapagos Islands, *Oral Presentation, American Geophysical Union Fall Meeting*
- [‡]Snyder, M., **D.M. Thompson**, [†]E.V. Reed, L. Vetter, D.L. Dettman, D. McGee, [§]H. Sayani (2019), Western Pacific Fossil Coral Records Reveal Change in Tropical Climate During the Past Millennium, *Poster Presentation, American Geophysical Union Fall Meeting*
- [‡]Trzybinski, J.B., **D.M. Thompson**, K. Morgan, D.L. Dettman, [‡]L. Crocker, [§]T.N.F. Roach, F. Lane, and [†]E. Santoro (2019), Trophic Dynamics on Degraded Coral Reefs: Analyses of Nutrients and Isotope Fractionation in the Biosphere 2 Ocean, *Poster Presentation, American Geophysical Union Fall Meeting*
- [†]Chapman, A., **D.M. Thompson**, S. Hlohowskyj, J. Carilli, T.M. Marchitto, [§]H. Sayani, K.M. Cobb (2019), From Wind to Coral: Assessing the Mechanism Behind the Coral Mn/Ca-based Trade-wind Proxy, *Poster Presentation, American Geophysical Union Fall Meeting*
- [†]Reed, E.V., **D.M. Thompson**, J.E. Cole, L. Vetter, D.L. Dettman, D. McGee, [‡]M. Snyder, [§]H. Sayani, A.W. Tudhope (2019), ENSO’s Impact on the Pacific Intertropical Convergence Zone: New Insights from a Network of Pacific Coral Records, *Poster Presentation, American Geophysical Union Fall Meeting*
- [†]Reed E.V., D.M. Thompson, J.E. Cole, L. Vetter, D. Dettman, D. McGee, [‡]M. Snyder, [§]H. Sayani, A. Tudhope. The Pacific Intertropical Convergence Zone reconstructed from coral paleoclimate records. US CLIVAR Workshop on Water Isotopes and Climate, October 2019. Poster.
- Falster, G., B.L. Konecky, N. McKay, A.R. Atwood, J.L. Conroy, M. Fischer, M. Jones, L. Jonkers, S. Stevenson, **D.M. Thompson**, J.J. Tyler, and Pages Iso2K Project Members (2019), New insights into spatial and temporal dynamics of the global water cycle from the Iso2k database, *Oral Presentation, American Geophysical Union Fall Meeting*
- D.M. Thompson**, et al. (2018) The “calm before the spawn”: the ultimate cue of coral spawning across the Coral Triangle?, *Oral Presentation, Ocean Sciences Meeting*
- [§]Sayani, H.R., **D.M. Thompson**, et al. (2018) Constraining 20th Century Pacific Trade-Wind Variability Using Coral Mn/Ca, *Oral Presentation, American Geophysical Union Fall Meeting*
- [†]Reed, E.V., **D.M. Thompson**, J.E. Cole, J. Lough, L. Vetter, M. Snyder, G. Jimenez, A.W. Tudhope, R.L. Edwards, N.E. Cantin (2018) Paired Density and Geochemistry Records Demonstrate the Combined Impact of Skeletal Density and Architecture on the Geochemistry of Modern and Sub-

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Fossil Corals from the Galápagos Islands, **Poster Presentation**, *American Geophysical Union Fall Meeting*

Thompson, D.M., J. Conroy, B. Konecky, N. McKay, S. Stevenson, Iso2k Project Members (2018) Indo-Pacific hydroclimate change over the past 200 years: new insights from the Iso2k synthesis, **Oral Presentation**, *Goldschmidt*

[†]Reed, E.V., D.M. Thompson, J.E. Cole, J. Lough, L. Vetter, M. Snyder, G. Jimenez, N.E. Cantin (2018) Paired Geochemistry and Density Records from Fossil Corals: A Case Study from the Galápagos Islands, **Oral Presentation**, *Goldschmidt*

[†]Cheung, A.H., J.E. Cole, L. Vetter, G. Jimenez, **D.M. Thompson**, A.W. Tudhope (2018) Multi-proxy reconstructions of the Eastern Equatorial Pacific: measuring Sr/Ca, Ba/Ca, and Li/Mg in modern corals using ICP-OES, **Oral Presentation**, *Goldschmidt*

Thompson, D.M., Jessica L. Conroy, A. Wyman, and D. Read (2017). Spatial $\delta^{18}\text{O}_{\text{sw}}$ -SSS relationship across the western tropical Pacific Ocean, **Poster Presentation**, *American Geophysical Union Fall Meeting*

Conroy, J.L., **D.M. Thompson**, *et al.* (2017) Salinity information in coral $\delta^{18}\text{O}$ records, **Poster Presentation**, *American Geophysical Union Fall Meeting*

Konecky, B.L., *et al.* Global Synthesis of Common Era Hydroclimate using Water Isotope Proxies from Multiple Archives: First Results from the PAGES Iso2k Project, **Oral Presentation**, *American Geophysical Union Fall Meeting*

Jimenez, G., J.E. Cole, L. Vetter, **D.M. Thompson**, A. Tudhope (2017) A preindustrial to present record of ENSO from Darwin Island, Galápagos: constraining Eastern Pacific decadal variability, **Oral Presentation**, *American Geophysical Union Fall Meeting*

[†]Cheung, A., J. Cole, L. Vetter, G. Jimenez, **D.M. Thompson**, A. Tudhope (2017). Multi-proxy Reconstructions of the Eastern Equatorial Pacific: Measuring Sr/Ca, Ba/Ca, and Li/Mg in Modern Corals Using ICP-OES, **Poster Presentation**, *American Geophysical Union Fall Meeting*

Konecky, B., **D.M. Thompson**, *et al.* (2017). Iso2k: A global synthesis of Common Era hydroclimate using water isotope proxies from multiple archives, **Poster Presentation**, Paleoclimate Modeling Intercomparison Project (PMIP) meeting, Stockholm, Sweden.

Thompson, D.M., H. Goosse, M. Evans, S. Khatiwala (2017). Proxy System modelling and data assimilation in paleoclimatology, **Oral Presentation**, Paleoclimate Modeling Intercomparison Project (PMIP) meeting, Stockholm, Sweden.

Thompson, D.M. (2017) Towards improved coral proxy system models (PSMs), **Oral Presentation**, *Proxy System modelling and data assimilation in paleosciences*, Louvain-la-Neuve, Belgium.

Williams, B., **D.M. Thompson**, [‡]M. Crowley, [‡]M. Moulton, [‡]J. Ng, J. Halfar (2016) A Simple Proxy System Model of High-Latitude Encrusting Algal Oxygen Isotope Composition ($\delta^{18}\text{O}$), **Poster Presentation**, *American Geophysical Union Fall Meeting*

Curchitser, E., Kleypas, J.A., F.S. Castruccio, E. Drenkard, **D.M. Thompson**, and M.L. Pinsky (2016), Climate, bleaching and connectivity in the Coral Triangle, **Invited Presentation**, *American Geophysical Union Fall Meeting*

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- Sayani, H.R., *et al.* (2016) Coral Ensemble Estimates of Central Pacific Mean Climate During the Little Ice Age, **Poster Presentation**, *American Geophysical Union Fall Meeting*
- Grothe, P.R., *et al.* (2016) Robust evidence for forced changes in ENSO: from the mid-Holocene to the 21st century, **Oral Presentation**, *American Geophysical Union Fall Meeting*
- Hitt, N.T., *et al.* (2016) An ensemble approach to reconstructing 20th century climate trends in data-sparse regions of the tropical Pacific using young fossil corals, **Oral Presentation**, *American Geophysical Union Fall Meeting*
- Thompson, D.M.**, J. Kleypas, F. Castruccio, J. Watson, E. Curchitser and M. Pinsky (2016) Variability in reef connectivity in the Coral Triangle. **Oral Presentation**, *International Coral Reef Symposium*
- Kleypas, J., D.M. Thompson, F.S. Castruccio, E. Curchitser, M. Pinsky, and J. Watson (2016) Potential Role of Larval Connectivity in Coral Temperature Thresholds. **Oral Presentation**, *International Coral Reef Symposium*

Awarded Grants and Contracts

Federal

- 2020 **Title of Grant:** CAREER: Climate-change vulnerability in the Marshall Islands: learning from the past & inspiring a new future
Commitment (person-month) (Y1/Y2/Y3/Y4/Y5): 1/1/1/0.5/0.5
Role: PI
Other PIs/co-PIs: none
Source of support: NSF-OCE (CAREER)
Period covered: 6/1/2020 – 5/30/2025
Total Award Amount: \$891,119 (UA: \$891,119)
- 2020 **Title of Grant:** Unravelling the Signals in Tropical Pacific Lake Archives: Towards Improved Holocene Hydroclimate Reconstructions
Commitment (person-month) (Y1/Y2/Y3): 0.25/0.25/0.25
Role: co-PI
Other PIs/co-PIs: Marcus Lofverstrom (PI); Mark Bush (co-PI); Donald Rodbell (co-PI)
Source of support: NSF-AGS-P2C2
Period covered: 7/1/2020 – 6/30/2023
Total Award Amount: \$751,462 (UA: \$547,191)
- 2017-2020 **Title of Grant:** Reconstructing Pacific Trade Wind Variability: Extending and Replicating a Promising New Coral Proxy
Commitment (person-month) (Y1/Y2/Y3): 0.25/0.25/0.25
Role: PI

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Other PIs/co-PIs: Jessica Carilli (co-PI)

Source of support: NSF-OCE-P2C2

Period covered: 7/15/2017 – 12/31/20

Total Award Amount: \$342,652 (UA: \$300,018 + \$44,905 supplement)

2015-2016

Title of Grant: RAPID: Capturing the Signature of a Strong El Nino Event in Galapagos Lake Sediment Records: the 2015/16 El Nino Opportunity

Commitment (person-month) (Y1): 1

Role: PI

Other PIs/co-PIs: none

Source of support: NSF-AGS

Period covered: 7/15/2015 – 10/31/2016

Total Award Amount: \$68,758 (UA: none; Awarded to PI Thompson at Boston University)

List of Collaborators and their Organizational Affiliations

Collaborators (last 5 years)

Abram, Nerilie J.	Australian National University
Atwood, Alyssa R.	Florida State University
Bush, Mark B.	Florida Institute of Technology
Cantin, Neal E.	Australian Institute of Marine Science
Capotondi, Antonietta	NOAA Earth System Research Laboratory
Carilli, Jessica	SPAWAR Systems Center-Pacific
Castruccio, Frederic	National Center for Atmospheric Research
Chapman, Alice	University of Arizona
Chappez, Anthony	Central Michigan University
Chen, Tianran	Chinese Academy of Sciences
Cheng, Hai	University of Minnesota
Cheung, Anson	Brown University
Churakova, Olga V.	Siberian Federal University
Cobb, Kim	Georgia Tech
Cole, Julia E.	University of Michigan
Collins, Aaron	Florida Institute of Technology
Comas-Bru, Laia	University College Dublin
Conroy, Jessica L.	University of Illinois

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Corley, Timothy L.	University of Arizona
Curchitser, Enrique	Rutgers University
D'Olivo, Juan	Freie Universität Berlin
Dassié, Emilie P.	University of Bordeaux
Dee, Sylvia	Rice University
DeLong, Kristine	Louisiana State University
Deocampo, Daniel M.	Georgia State University
Dettman, David	University of Arizona
Di Lorenzo, Emanuele	Georgia Tech
Doblas-Reyes, Francisco	Barcelona Supercomputing Center and ICREA
Donat, Markus G.	Barcelona Supercomputing Center and ICREA
Donner, Simon	University of British Columbia
Dyez, Kelsey	University of Michigan
Edwards, R. Lawrence	University of Minnesota
Emile-Geay, Julien	University of Southern California
England, Matthew H.	University of New South Wales
Evans, Michael N.	University of Maryland
Falster, Georgina M.	Washington University in St Louis
Fischer, Matt J.	ANSTO
Fyfe, John C.	Canadian Centre for Climate Modeling and Analysis
Hagos, Melat	Georgia Tech
Han, Weiqing	University of Colorado, Boulder
Hlohowskyj, Stephan	Central Michigan University
Jimenez, Gloria	University of Arizona
Jones, Matthew D.	University of Nottingham
Jonkers, Lukas	MARUM Center for Marine Environmental Sciences
Jönsson, Bror	University of New Hampshire
Kaufman, Darrell S.	Northern Arizona University
Kern, Zoltán	Research Centre for Astronomy and Earth Sciences
Kim, Hyemi	Stony Brook University
Kirtman, Ben P.	University of Miami
Kleypas, Joan	National Center for Atmospheric Research
Konecky, Bronwen L.	Washington University in St Louis
Kushnir, Yochanan	Columbia University
Leduc, Guillaume	Aix Marseille University
LeGrande, Allegra N.	NASA GISS
Levin, Simon A.	Princeton University

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Liguori, Giovanni	Georgia Tech
Lofverstrom, Marcus	University of Arizona
Lough, Janice M.	Australian Institute of Marine Science
Lovenduski, Nicole S.	University of Colorado, Boulder
Lu, Yanbin	University of Minnesota
Lynch-Stieglitz, Jean	Georgia Tech
Managave, Shreyas R.	Indian Institute of Science Education and Research
Mann, Michael E.	Pennsylvania State University
Marchitto, Tom M.	University of Colorado, Boulder
Martrat, Belen	Spanish Council for Scientific Research (CSIC)
McCulloch, Malcolm	University of Western Australia
McGregor, Helen	University of Wollongong
McKay, Nicholas	Northern Arizona University
McManus, Lisa C.	University of Hawai'i-Manoa
Meehl, G.A.	National Center for Atmospheric Research
Merryfield, William J.	Canadian Centre for Climate Modeling and Analysis
Moore, Andrea L.	University of Mary Washington
Nieves, Veronica	University of Valencia
Noone, David	Oregon State University
O'Connor, Gemma	Georgia Tech
Opel, Thomas	Alfred Wegener Institute Helmholtz Centre
Orsi, Anais J.	CEA-CNRS-UVSQ-Université Paris Saclay
Overpeck, Jonathan T.	University of Michigan
Partin, Jud	The University of Texas at Austin
Pegion, K.	George Mason University
Pinsky, Malin	Rutgers University
Porter, Trevor J.	University of Toronto - Mississauga
Reed, Emma V.	University of Arizona
Richter, Jadwiga H.	National Center for Atmospheric Research
Riedinger-Whitmore, Melanie	University of South Florida, St. Petersburg
Rodbell, Donald	Union College
Sanchez, Sara C.	University of Washington
Sandin, Stuart	Scripps Institution of Oceanography
Santos, Guaciara M.	University of California Irvine
Sayani, Hussein	Georgia Tech
Scaife, Adam A.	Hadley Centre; University of Exeter
Smith, Doug	Hadley Centre

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Southon, John R.	University of California Irvine
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Stevenson, Sam	University of California, Santa Barbara
Subramanian, Aneesh C.	University of Colorado, Boulder
Sun, Lantao	Colorado State University
Teng, Haiyan	NOAA Physical Sciences Laboratory
Thomas, Elizabeth K.	University at Buffalo
Thompson, Moses	Tucson Unified School District
Toth, Lauren T.	USGS
Townsend, Kayla	Georgia Tech
Tudhope, Alexander W.	The University of Edinburgh
Tyler, Jonathan J.	The University of Adelaide
Ummenhofer, Caroline C.	Woods Hole Oceanographic Institution
Vanballenberghe, Jonathan	Open Lens Productions
Vasconcelos, Vítor V.	Princeton University
Vetter, Lael	University of Arizona
von Gunten, Lucien	PAGES International Project Office
Watson, James	Oregon State University
Whitney, H.	Florida Institute of Technology
Williams, Branwen	Claremont McKenna College
Xie, Shang-Ping	Scripps Institution of Oceanography

Graduate, Postdoctoral, Thesis Advisors or Sponsors

Dr. Joan Kleypas, National Center for Atmospheric Research
Dr. Julia Cole, University of Michigan
Dr. Robert van Woesik, Florida Institute of Technology