



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 (first ever pre-tenure
awardee)
- 2013 Department of Geosciences Research Award
- 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

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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

Awarded Grants and Contracts

Federal

2020	<p>Title of Grant: CAREER: Climate-change vulnerability in the Marshall Islands: learning from the past & inspiring a new future</p> <p>Commitment (person-month) (Y1/Y2/Y3/Y4/Y5): 1/1/1/0.5/0.5</p> <p>Role: PI</p> <p>Other PIs/co-PIs: none</p> <p>Source of support: NSF-OCE (CAREER)</p> <p>Period covered: 6/1/2020 – 5/30/2025</p> <p>Total Award Amount: \$1,015,000 (Thompson: \$1,015,000)</p>
2020	<p>Title of Grant: Unravelling the Signals in Tropical Pacific Lake Archives: Towards Improved Holocene Hydroclimate Reconstructions</p> <p>Commitment (person-month) (Y1/Y2/Y3): 0.25/0.25/0.25</p> <p>Role: co-PI</p> <p>Other PIs/co-PIs: Marcus Lofverstrom (PI); Mark Bush (co-PI); Donald Rodbell (co-PI)</p> <p>Source of support: NSF-AGS-P2C2</p> <p>Period covered: 7/1/2020 – 6/30/2023</p> <p>Total Award Amount: \$751,462 (Lofverstrom/Thompson: \$547,191)</p>
2017-2020	<p>Title of Grant: Reconstructing Pacific Trade Wind Variability: Extending and Replicating a Promising New Coral Proxy</p> <p>Commitment (person-month) (Y1/Y2/Y3): 0.25/0.25/0.25</p>

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Role: PI

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: \$344,923 (Thompson: \$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 (Thompson: \$68,758)

2010-2013

Title of Grant: Maximizing the potential of tropical climate proxies through integrated climate-proxy forward modeling

Commitment (person-month) (Y1/Y2/Y3): 9

Role: co-PI

Other PIs/co-PIs: Michael Evans (PI), Julien Emile-Geay (co-PI)

Source of support: NOAA Climate Change Data and Detection (CCDD)

Period covered: 8/1/2010 – 7/31/2013

Total Award Amount: \$410,800 (Thompson: \$23,500)

Internal

2021

co-PI, Research, Innovation & Impact 2021 Research Advancement Grants - Production Grants, "Science in Motion: Scaling Broader Impacts of UArizona Resilience Science Through Student-Engaged Filmmaking, Animation, Data Visualization, and Motion Arts Science Pedagogy" (\$15,000)

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" (\$5000)

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Philanthropic

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 (<u>\$17,500</u>)
2018	Private donation to Biosphere 2 Ocean project (<u>\$22,000</u>)
2018	Donor sponsored, "Biosphere 2 Ocean Independent and Modular Experimental Reef Systems" (<u>\$23,594</u>)

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

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- In review Killam, D., **D.M. Thompson**, K. Morgan, M. Russell. (submitted) Giant clams as open-source, scalable reef environmental biomonitors. *PLOS ONE*
- †Reed, E.V., **D.M. Thompson**, K. Anchukaitis (submitted) Coral-based Sea Surface Salinity Reconstructions and the Role of Observational Uncertainties in Inferred Variability and Trends. *Paleoceanography and Paleoclimatology*
- 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*.
- 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*
- 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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- 2022 [†]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 (accepted) A Mechanistic Investigation of the Coral Mn/Ca-based Trade-wind Proxy at Kiritimati. *Geochimica et Cosmochimica Acta*.
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 press). Marginal reefs under stress: physiological limits render Galápagos corals susceptible to warming and acidification. *Science Advances*.
-
- 2021 Cheung, A., J.E. Cole, **D.M. Thompson**, L. Vetter, G. Jimenez, A. Tudhope. (2021) Fidelity of the coral Sr/Ca paleothermometer following heat stress in the northern Galápagos. *Paleoceanography and Paleoclimatology*, 36(12), e2021PA004323, doi: 10.1029/2021PA004323
Thompson, D.M. (2021) Climate records from corals: a decade of novel insights and innovation, *WIREs Climate Change*, doi: 10.1002/wcc.745
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. Ummenhofer, 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*

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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
- 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

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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
-

- 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. Mirnateghi, 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.

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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.

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 $\delta^{18}\text{O}$ 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.

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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*
- 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*
- 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*.

Conferences/Scholarly Presentations

Invited	American Geophysical Union, New Orleans, USA (Solicited Oral)	2020
Seminars &	Geoscience Advisory Board, Tucson, USA	2020

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Colloquia	University of Arizona Geosciences, Tucson, USA	2019
	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

Thompson, **D.M.**, J.L. Conroy, B. Williams, B.L. Konecky, S. Stevenson, K.L DeLong, N. McKay, E.P Dassie, M. Fischer, L. Jonkers, B. Martrat, Pages Iso2K Project Members. (2021) Salinity information from hydro-sensitive, biogenic marine carbonate $\delta^{18}\text{O}$ records. **Invited oral presentation**, AGU Fall Meeting.

Williams, B. D. Thompson, A. Cohen, H. Mandell (2021). Evaluating the proxy system modeling approach to high-resolution marine calcifiers across Phyla and environments. **Poster presentation**, AGU Fall Meeting

†Reed, E.V., D.M. Thompson, K. Anchukaitis (2021). Coral-based Sea Surface Salinity Reconstructions and the Role of Observational Uncertainties in Inferred Variability and Trends. **Poster presentation**, AGU Fall Meeting

†Chapman, A., G. Farfan, D.M Thompson, E. Bullock (2021). Mineralogical insights into the coral Mn/Ca-based trade-wind proxy. **Oral presentation**, AGU Fall Meeting.

‡Hoegler, B., D.M. Thompson, S. Hlohowskyj, ‡J. Bateman, X. Zhang, R. Michener, A. Collins. (2021) Reconstructing primary to secondary paleo-productivity using nitrogen isotopes: a case study from Bainbridge Lake, Galápagos. **Poster presentation**, AGU Fall Meeting.

‡Hoegler, B., D.M. Thompson, S. Hlohowskyj, ‡J. Bateman, X. Zhang, R. Michener, A. Collins (2021). Reconstructing primary to secondary paleo-productivity using nitrogen isotopes: a case study from Bainbridge Lake, Galápagos. **Virtual oral presentation**, GeoDaze Symposium, University of Arizona.

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- [†]Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., [§]Sayani, H.R., Cobb, K.M. (2021) 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.**
- [‡]Bautista, S.R., [†]Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., [§]Sayani, H.R., Cobb, K.M. (2021) Diving Deeper: Replication of Mn/Ca Anomalies Across Abaiang Atoll. **Virtual poster presentation at UA Geosciences GeoDaze Symposium.**
- [‡]Benson, Z.E., [†]Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., [§]Sayani, H.R., Cobb, K.M. (2021) Reconstructing Westerly Wind Bursts From Abaiang Coral Using a Mn/Ca Proxy. **Virtual poster presentation at UA Geosciences GeoDaze Symposium.**
- [†]Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., [§]Sayani, H.R., Cobb, K.M. (2021) Lagoon Morphology: A Key Component of the Coral Mn/Ca-based Trade-wind Proxy. **Virtual oral presentation at UA Geosciences GeoDaze Symposium.**
- [‡]Hoegler, B., Diane Thompson, S. Hlohowskyj, [‡]J. Bateman, X. Zhang, R. Michener, A. Collins (2020). Nitrogen Isotopic Variability of Bainbridge Crater Lake: a Record of Paleo-Productivity? **Virtual poster presentation, oSTEM Annual Conference.**
- [‡]Hoegler, B., Diane Thompson, S. Hlohowskyj, [‡]J. Bateman, X. Zhang, R. Michener, A. Collins (2020) Reconstructing primary to secondary paleo-productivity using nitrogen isotopes: a case study from Bainbridge Lake, Galápagos. **Poster presentation, AGU Fall Meeting.**
- [‡]Hoegler, B., Diane Thompson, S. Hlohowskyj, [‡]J. Bateman, X. Zhang, R. Michener, A. Collins (2020) Replication and dating of nitrogen isotopic record from Bainbridge Lake, Galápagos. Poster presentation, GeoDaze Symposium, University of Arizona, 2020.
- [‡]Bautista, S.R., [†]Chapman A.U., Thompson, D.M., Carilli, J. E., Hlohowskyj, S. R., Gordon, G., Goepfert, T. (2020) Reinforcing the Mn/Ca Trade-wind Proxy: A Closer Look at Manganese Redox in Kiritimati's Lagoon. **Virtual poster at AGU Fall Meeting.**
- [†]Chapman A.U., Thompson, D.M., Carilli, J. E., Hlohowskyj, S. R., Gordon, G., Goepfert, T. (2020) Lagoon Morphology: A Key Component of the Coral Mn/Ca-based Trade-wind Proxy. **Invited virtual poster and lightning talk at AGU Fall Meeting.**
- [†]Chapman A.U., Thompson, D.M., Carilli, J. E., Marchitto, T.M., [§]Sayani, H.R., Cobb, K.M. (2020) Assessing the Reliability of the Coral Mn/Ca-based Trade-wind Proxy: Interpreting the Mn Signal Lag. **Virtual poster at AGU Fall Meeting.**
- [†]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**

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- [‡]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-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*

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- 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*
- 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*



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Kleyvas, 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**

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 (UA/BU Allies for Gender/Sexuality, Racial & Ethnic Equity and Diversity)

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):

Hailey Bowers, MS, Ecology and Evolutionary Biology, University of Arizona	2021-
Asiya Badarunnisa Sainudeen [‡] , PhD, University of Arizona	2021-
Mudith Weerabaddanage*, PhD, University of Arizona	2021-
Samantha King [‡] , PhD, Ecology and Evolutionary Biology, University of Arizona	2021-
Maya Prabhakar [‡] , MS, University of Arizona	2020-
Valerie Rubalcava, MS, University of Arizona	2020-
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	2016-2021
Alexey Shiklomanov [‡] , PhD, Boston University	2016-2018



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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	2020-2021
Dr. Lael Vetter	Research Technician, University of Arizona	2020-
Briana Hoegler*	Undergraduate Research, University of Arizona	2019-
Sophia Bautista*	Undergraduate Research, University of Arizona	2019-2021
Zoe Benson*	Undergraduate Research, University of Arizona	2019-
Hannah Mandell†	Undergraduate Research, Pomona College	2019-
Anne Cohen†	Undergraduate Research, Scripps College	2019-2021
Katie Morgan	Manager of Marine Systems, Biosphere 2 University of Arizona	2018-2021
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
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



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

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"