

## **Judson W. Partin**

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### **EDUCATION**

Ph.D. in Earth and Atmospheric Sciences, Georgia Institute of Technology, May 2008

M.A. in Physical Chemistry, University of Southern California, August 2000

B.S. *magna cum laude* in Chemistry, The Citadel, May 1997

### **PROFESSIONAL EXPERIENCE**

Research Scientist, The University of Texas at Austin, 2020 – present

Research Associate, The University of Texas at Austin, 2014 – 2020

Research Scientist Associate V, The University of Texas at Austin, 2011 – 2014

Post-doctoral Researcher, The University of Texas at Austin, 2008 – 2011

Teaching and Research Assistant, Georgia Institute of Technology, 2002 – 2007

Optical Engineer, Oplink Communications, San Jose, CA, 2000 – 2001

Teaching and Research Assistant, University of Southern California, 1997-2000

### **RESEARCH INTERESTS**

Understanding externally forced and internally driven climate changes using different paleoclimate archives to help evaluate current climate trends, and ultimately the climate models that are used to project future changes. Techniques include using speleothems, corals, and marine sediment core proxies to study tropical climate processes, quantifying uncertainty in paleoclimate proxies, and using climate model-proxy data comparisons to identify mechanisms of climate changes.

### **RESEARCH GRANTS**

Co-PI - Partin, J.W. "Collaborative Research: A Big Data Approach to Fundamental Paleoclimate Questions" Award Number 201903594. Past Perspectives on Climate Change (P2C2) Competition in the Paleoclimate Program of the US National Science Foundation. Sep. 2020 – Aug. 2023. Amount: \$54,449

PI - Partin, J.W. "Fossil Coral Records of ENSO during the Last Glacial Period" Award Number 1805874. Past Perspectives on Climate Change (P2C2) Competition in the Paleoclimate Program of the US National Science Foundation. Sep. 2018 – Aug. 2019. Amount: \$476,634

PI - Partin, J.W. "Orbital Forcing of South Indian Hydroclimate" Award Number 1703123. Past Perspectives on Climate Change (P2C2) Competition in the Paleoclimate Program of the US National Science Foundation. Aug. 2017 – Sep. 2019. Amount: \$483,256

PI - Partin, J.W. "Western Pacific Warm Pool Hydroclimate during the Last Glacial Maximum and the Deglaciation" Award Number 1404003. Past Perspectives on Climate Change (P2C2) Competition in the Paleoclimate Program of the US National Science Foundation. Jul. 2014 – Jun. 2017. Amount: \$530,005.

PI - Partin, J.W. "Collaborative Research: Holocene Hydrologic Variability across the Western Pacific Warm Pool" Award Number 1003700. Paleoclimate Program of the US National Science Foundation. Jan. 2011 – Dec. 2013. Amount: \$504,472.

## **TEACHING EXPERIENCE**

Course Instructor: Statistical Data Analysis (Hypothesis Testing in Climate Science) at the University of Texas at Austin, Spring 2018, 2020

Marine Geology at the University of Texas at Austin (4 semesters, Fall 2014, 2015, 2016, 2018).

Teaching Assistant: Honors General Chemistry at the University of Southern California (3 semesters); How to Build a Habitable Planet (4 semesters) and Introduction to Geology (1 semester) at the Georgia Institute of Technology.

## **FIELD EXPERIENCE**

Led expedition to drill corals using a prototype drill in Vanuatu, Sep-Oct. 2019

Participated in expedition to drill corals in Vanuatu, Feb. 2019

Led caving expedition to Karnataka/Andra Pradesh, India, Jan. 2019

Led caving expedition to Vanuatu, Aug. 2016

Led caving expedition to Karnataka/Andra Pradesh, India, Feb. 2015

Led caving expedition to Vanuatu, Sep. 2012  
Led caving expedition to Solomon Islands, Aug. 2012  
Led caving expedition to Samar, Philippines, Jul. 2012  
Participated in expedition to drill corals in Vanuatu, Aug. 2011  
Led caving expedition to Solomon Islands, Aug. 2010  
Led caving expedition to Vanuatu, Jul. 2010  
Led caving expedition to Mangilao, Guam, Mar. 2010  
Participated in caving expedition to Gunung Mulu National Park, Malaysia, Feb. 2010  
Led caving expedition to Mangilao, Guam, Jun. 2009  
Led caving expedition to Mangilao, Guam, Jan. 2009  
Participated in caving expedition to Palawan, Philippines, Dec. 2008  
Participated in caving expedition to Mangilao, Guam, Aug. 2008  
Participated in caving expedition to Gunung Mulu National Park, Malaysia, Aug. 2008  
Led caving expedition to Gunung Mulu National Park, Malaysia, Jun. 2006  
Participated in caving expedition to Gunung Mulu National Park, Malaysia, Mar. 2005

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

American Geophysical Union  
Geological Society of America

## **MENTORING of STUDENTS**

### **Graduate**

Robert Domeyko, Co-Supervisor, The University of Texas at Austin, PhD Degree, expected graduation date Fall 2023

Allison Lawman, Co-Supervisor, The University of Texas at Austin, PhD Degree, graduated Spring 2020

Natasha Sekhon, Co-Supervisor, The University of Texas at Austin, Master's Degree, graduated Spring 2016

CJ Sun, PhD Dissertation Committee Member, The University of Texas at Austin, expected graduation date Fall 2022

Natasha Piatrunia, PhD Dissertation Committee Member, The University of Texas at Austin, expected graduation date Fall 2021

Kaustubh Thirumalai, PhD Dissertation Committee Member, The University of Texas at Austin, graduated Spring 2016

## **Undergraduates**

Joseph Arias, Undergraduate Research at The University of Texas at Austin, 2018-2019

Brooke Kopecky, Undergraduate Research at The University of Texas at Austin, 2016

Anthony Krupa, Undergraduate Research at The University of Texas at Austin, 2016

April Trevino, Undergraduate Research at The University of Texas at Austin, 2015

Timothy Williams, Undergraduate Research at The University of Texas at Austin, 2015

Keith Young, Undergraduate Research at The University of Texas at Austin, 2015

Katherine Lindzey, Research Experience for Undergraduates Program at The University of Texas at Austin for summer 2012

Diana Zamora, Louis Stokes Minority scholarship program to study at The University of Texas at Austin for summer 2009

Selene Castillo, Research Experience for Undergraduates Program at The University of Texas at Austin for summer 2009

## **OUTREACH**

Interview with KXAN about the city of Austin climate emergency ordinance, 7 Aug. 2019

Co-leading a volunteer effort to compile a global database of paleoclimate records of rainfall isotopes (d18O, dD) called Iso2k, sponsored by PAGES2k, Apr. 2015 – present.

Interview for The History Channel special, “Deep Sea Disaster”, aired on 30 Dec. 2016.

Interview with MSNBC about abrupt climate change, 9 Sep. 2015

Interview with Washington Post about abrupt climate change, 7 Sep. 2015

Radio Interview by KUT, NPR station – Austin, TX about abrupt climate change, 2 Sep. 2015

Online Interview with the Generation Anthropocene Podcast of The Smithsonian (<http://www.smithsonianmag.com>) about abrupt climate change, 2 Sep. 2015

Radio Interview on KVRX (<http://www.kvr.org>), ‘They Blinded Me With Science’ Program, 30 Jun. 2014

Served as an instructor for the GEOFORCE Program of the University of Texas at Austin for the trip to Florida to study coastal processes. 6 Jun. – 11 Jun. 2014

Served as an instructor for the GEOFORCE Program of the University of Texas at Austin for the trip to Port Aransas, TX to study coastal processes. 31 Jul. – 5 Aug. 2013

## **HONORS**

Best oral presentation award at Georgia Tech EAS graduate student symposium, 2007

Georgia Tech EAS Chair Service Award, 2005

Presidential Fellowship at Georgia Tech, 2002

Harold and Lillian Moulton Chemistry Fellowship for research in chemistry at USC, 1999

Excellence in Teaching at USC (Awarded to one Teaching Assistant per discipline per semester), 1998

ACS Section Outstanding Achievement Award in Organic Chemistry, 1997

Phi Kappa Phi Honor Society, 1996

Citadel Scholar Full Scholarship, 1993 – 1997

## **SERVICE**

Member UTIG Post-doc Committee 2019-2021

Member UTIG Technical Staff Committee 2018-2019

Member UTIG Building Committee 2016-2019

Member UTIG Post-doc Committee 2015-2016

Member JSG Equipment Committee 2014-2016

## **PUBLICATIONS (in prep)**

**Partin, J.W.**, K. Thirumalai, M. Erb, T. M. Quinn, C-C. Shen, P. DiNezio, M. B. Cardenas, C. J. Jackson, F. P. Sirigan, M. Puy, J. L. Banner, K. Lin, Y. Okumura, C-C. Wu, H.-M. Hu, F. W. Taylor, Indirect Forcing of the Oceanic Subsystem of the Asian Monsoon. *Nature Geoscience*, to submit Feb. 2021.

**Partin, J.W.**, K. Thirumalai, M. Erb, T. M. Quinn, C-C. Shen, P. DiNezio, M. B. Cardenas, C. J. Jackson, F. P. Sirigan, M. Puy, J. L. Banner, K. Lin, Y. Okumura, C-C. Wu, H.-M. Hu, F. W. Taylor, Continental and Local-Scale Responses of Tropical Rainfall to Precessional Forcing, *Paleoceanography and Paleoclimatology*, to submit summer 2021.

Thirumalai, K., **Partin, J.W.**, Clemens, S. Indian Monsoon Variability recorded in South Indian Stalagmites during MIS 9. *Geology*, to submit summer 2021.

## **PUBLICATIONS (accepted)**

Maupin, C. R., E. B. Roark, K. Thirumalai, C-C. Shen, S. Schumacher, S. Van Kampen-Lewis, A. L. Housson, C. L. McChesney, O. Baykara,

J. Chou, K. White **J. W. Partin**, Abrupt glacial variability of Southern Great Plains storms. *Nature Geoscience*, accepted 14 Jan. 2021.

Konecky, B. L. et al. (2020) The Iso2k database: a global compilation of paleo- $\delta^{18}\text{O}$  and  $\delta\text{H}$  records to aid understanding of Common Era climate. *Earth Syst. Sci. Data*, **12**, 2261–2288.

Carlson P.E., A.L. Noronha, J.L. Banner, J.W. Jenson, M.W. Moore, **J. W. Partin**, M. Deininger, D.O. Breecker, K.K. Bautista, (2020) Constraining speleothem oxygen isotope disequilibrium driven by rapid  $\text{CO}_2$  degassing and calcite precipitation: Insights from monitoring and modeling. *Geochim Cosmochim Acta*, **284**, 222–238

Thirumalai, K., S. Clemens, **J. W. Partin**, (2020), Methane, Monsoons, and Modulation of Millennial-scale Climate. *Geophysical Research Letters*, **47**(9)

Lawman, A.\*†, **J. W. Partin**, S. G. Dee, C. A. Casadio, P. DiNezio, T. M. Quinn, (2020), Developing a coral proxy system model to compare coral and climate model estimates of changes in paleo-ENSO variability. *Paleoceanography and Paleoclimatology*, **35**(7).

Lawman, A.\*†, T. M. Quinn, **J. W. Partin**, K. Thirumalai, F. W. Taylor, C-C. Wu., T-L. Yu, M. Gorman, C-C. Shen, (2020), A century of reduced ENSO variability during the Medieval Climate Anomaly. *Paleoceanography and Paleoclimatology*, **35**(4).

Ellis, S.\*, K. M. Cobb, J. Moerman, **J. W. Partin**, A. Bennett, J. Malang, H. Gerstner, A. Tuen, (2019), Cave dripwaters capture the 2015 - 2016 El Niño event in N. Borneo. *Geophysical Research Letters*, **47**(5).

Beal, L. K.\*, C. I. Wong, K. K. Bautista, J. W. Jenson, J. L. Banner, M. A. Lander, S. B. Gingerich, **J. W. Partin**, B. Hardt, N. H. van Oort, (2019), Isotopic and geochemical assessment of the sensitivity of groundwater resources of Guam, Mariana Islands, to intra-and inter-annual variations in hydroclimate. *Journal of Hydrology* **568**, 174-183.

Bell, T.\*, M. A., Lander, J. W. Jenson, R. H. Randall, **J. W. Partin**, N. G. Prouty, (2019), A 50-Year Sr/Ca Time Series from an Enclosed, Shallow- Water Guam Coral: In situ Monitoring and Extraction of a Temperature Trend, Annual Cycle, and ENSO and PDO Signals. *Journal of Coastal Research* **35**(2), 269-286.

Hu, J.\* , J. Emile-Geay, C. Tabor, J. Nusbaumer, and **J. Partin** (2019), Deciphering oxygen isotope records from Chinese speleothems with an isotope-enabled climate model. *Paleoceanography and Paleoclimatology*. Accepted Author Manuscript.

Richey, J.N., K. Thirumalai, D. Khider, K. E. Reynolds, **J. W. Partin**, T. M. Quinn, (2019) Considerations for *Globigerinoides ruber*(White and Pink) Paleooceanography: Comprehensive Insights From a Long-Running Sediment Trap. *Paleoceanography and Paleoclimatology* **34**, 353–373.

Sun, C.\*†, T. M. Shanahan, & **J. Partin**, (2019) Controls on the Isotopic Composition of Precipitation in the South-Central United States. *J. Geophys. Res. Atmos.* **77**, 24–16.

Tan, L., C-C. Shen, L. Löwemark, S. Chawchai, R. L. Edwards, Y. Cai, S. F. M., Breitenbach, H. Cheng, Y-C. Chou, H. Duerrast, **J. W. Partin**, W. Cai, A. Chabangborn, Y. Gao, O. Kwiecien, C-C. Wu, Z. Shi, H-H. Hsu, B. Wohlfarth (2019) Rainfall variations in central Indo-Pacific over the past 2,700 y. **116**(35), *Proceedings of the National Academy of Sciences of the USA* 17201-17206.

Thirumalai, K.\* , T. M. Quinn, Y. Okumura, J. N. Richey, **J. W. Partin**, R. Z. Poore, E. Moreno-Chamarro (2018), Pronounced centennial-scale Atlantic Ocean climate variability correlated with Western Hemisphere hydroclimate. *Nature Communications* **9**(392).

Hu, J.\* , J. Emile-Geay, **J.W. Partin** (2017) Correlation-based interpretations of paleoclimate data – where statistics meet past climates, *Earth and Planetary Science Letters* Volume **459**(1 Feb 2017), 362-371.

Noronha, A. L., B. F. Hardt, J. L. Banner, J. W. Jenson, **J. W. Partin**, E. W. James, M. A. Lander, and K.K. Bautista (2017), Trade winds drive pronounced seasonality in carbonate chemistry in a tropical Western Pacific island cave – Implications for speleothem paleoclimatology, *Geochem. Geophys. Geosyst.* **18**.

PAGES Hydro2k Consortium, Comparing proxy and model estimates of hydroclimate variability and change over the Common Era (2017), *Clim. Past*, **13**, 1851-1900.

Carolin, S. A.\* , K. M. Cobb, J. Lynch-Stieglitz, J. W. Moerman, **J. W. Partin**, S. Lejau, J. Malang, B. Clark, A. A. Tuen, J. F. Adkins (2016). Northern Borneo stalagmite records reveal West Pacific hydroclimate across MIS 5 and 6. *Earth and Planetary Science Letters* **439**(1 Apr 2016), 182–193.

**Partin, J. W.**, T. M. Quinn, C.-C. Shen, M. B. Cardenas, Y. Okumura, F. P. Sirigan, J. L. Banner, K. Lin, F. W. Taylor (2015), Gradual onset and recovery of the Younger Dryas abrupt climate event in the tropics. *Nature Communications* **6**(8061).

**Partin, J. W.** (2015), News and Views: Aerosols and Rainfall. *Nature Geoscience* **8**(3), 174-175.

Maupin, C. R.\*, **J. W. Partin**, C.-C. Shen, T. M. Quinn, K. Lin, F. W. Taylor, J. L. Banner, K. Thirumalai, D. J. Sinclair (2014), Persistent decadal-scale rainfall variability in the tropical South Pacific Convergence Zone through the past six centuries. *Climate of the Past* **10**(4), 1319-1332.

Moerman, J. W.\*, K. M. Cobb, **J. W. Partin**, A. N. Meckler, S. A. Carolin, J. F. Adkins, et al. (2014). Transformation of ENSO-related rainwater to dripwater  $\delta^{18}\text{O}$  variability by vadose water mixing. *Geophysical Research Letters* **41**(22), 7907–7915.

**Partin, J. W.**, T. M. Quinn, C.-C. Shen, F. W. Taylor, C. R. Maupin, K. Lin, C. S. Jackson, J. Emile-Geay, J.L. Banner, D.J. Sinclair, C.-A. Huh (2013). Multidecadal rainfall variability in South Pacific Convergence Zone as revealed by stalagmite geochemistry. *Geology* **41**(11), 1143-1146.

**Partin, J. W.**, K. M. Cobb, J. F. Adkins, A. A. Tuen, B. Clark (2013). Trace metal and carbon isotopic variations in cave dripwater and stalagmite geochemistry from northern Borneo. *Geochemistry Geophysics Geosystems* **13**(3), 3567-3583.

Shen, C-C, M. Tan, K. Lin, W. Duan, X. Jiang, **J. W. Partin**, R. L. Edwards, H. Cheng (2013) Testing the annual nature of speleothem banding. *Scientific Reports* **3**(2633).

Thirumalai, K. R.\*, **J. W. Partin**, C. S. Jackson, T. M. Quinn (2013), Statistical constraints on El Niño Southern Oscillation reconstructions using individual foraminiferal analyses: an uncertainty quantification experiment. *Paleoceanography* **28**(3), 401-412.

Gorman, M. K.\*, T. M. Quinn, F. W. Taylor, **J. W. Partin**, G. Cabioch, J. A. Austin Jr., B. Pelletier, V. Ballu, C. Maes, and S. Saustруп, (2012), A coral-based reconstruction of sea surface salinity at Sabine Bank, Vanuatu from 1842 to 2007 CE. *Paleoceanography* **27**(3), PA3226.



**Partin, J. W.**, J. W. Jenson, J. L. Banner, T. M. Quinn, F. W. Taylor, D. Sinclair, B. Hardt, M. A. Lander, T. Bell, B. Miklavic, J. M. U. Jocson, and D. Taborosi (2012). Relationship between modern rainfall variability, cave dripwater, and stalagmite geochemistry in Guam, USA. *Geochemistry Geophysics Geosystems* **13**(3), Q03013.

Sinclair, D. J., J. L. Banner, F. W. Taylor, **J. Partin**, J. Jenson, J. Mylroie, E. Goddard, T. Quinn, J. Jocson and B. Miklavic (2012). Magnesium and strontium systematics in tropical speleothems from the Western Pacific. *Chemical Geology* **294-295**, 1-17.

Lu, J., **J. W. Partin**, S. D. Hovorka, C. Wong (2009), Potential risks to freshwater resources as a result of leakage from CO<sub>2</sub> geological storage: a batch-reaction experiment. *Environmental Earth Sciences* **60**(2), 335-348.

Smyth, R. C., S. D. Hovorka, J. Lu, K. D. Romanak, **J. W. Partin**, C. Wong, and C. Yang (2009), Assessing risk to fresh water resources from long term CO<sub>2</sub> injection – laboratory and field studies. *Energy Procedia* **1**(1), 1957-1964.

**Partin, J. W.**, K. M. Cobb, J. L. Banner (2008) Climate variability recorded in tropical and sub-tropical speleothems. In: Fleitmann, D., Spotl, C., Newman, L., Kiefer, T. Eds., *PAGES News*. **16**(3), PAGES International Project Office, Bern, Switzerland.

Cobb, K. M., B. Clark, **J. W. Partin**, J. F. Adkins (2007). Regional-scale climatic influences on rainwater and cave dripwater oxygen isotopes in northern Borneo. *Earth and Planetary Science Letters* **263**(3-4): 207-220.

**Partin, J. W.\***, K. M. Cobb, J. F. Adkins, B. Clark, D. P. Fernandez (2007). Millennial-scale trends in Warm Pool hydrology since the Last Glacial Maximum. *Nature* **449**(7161), 452-455.

K. Liu, A. Kolessov, **J. W. Partin**, I. Bezel and C. Wittig, (1999). Probing the Cl-HCl complex via bond-specific photodissociation of (HCl)<sub>2</sub>, *Chemical Physics Letters* **299**(5) pp. 374-380

\* indicates student first-author

† indicates a student that I am serving on their PhD committee

## INVITED TALKS

Partin, J. W. "Performance Huddle 2020: A Symposium on building performance simulation and design practice " Guest Lecture at University of Houston, Department of Architecture. Houston, TX. 12 Nov 2020.

Partin, J. W. "Climate Change: Past, Present, Future: How It Will Affect Building Design and Resiliency" Guest Lecture at University of Houston, Department of Architecture. Houston, TX. 21 Nov 2019.

Partin, J. W. "Western North Pacific Monsoon Variability since the Last Glacial Maximum" Guest Lecture at Oregon State University, College of Earth, Ocean, and Atmospheric Sciences. Corvallis, OR. 25 Oct 2018.

Partin, J. W. "Climate Change: Past, Present, Future: How It Will Affect Building Design and Resiliency" Guest Lecture at University of Houston, Department of Architecture. Houston, TX. 26 Oct 2016.

Partin, J. W. "Climate Change: Past, Present, Future: How It Will Affect Building Design and Resiliency" International Building Performance Simulation Association (IBPSA - Houston), the USGBC TX Gulf Coast Chapter and the Green Building Resource Center. Houston, TX. 23 Mar 2016.

Partin, J. W. "Reconstructing Rainfall Variability in the Tropical Pacific using Stalagmites" Department of Oceanography, Texas A&M University, College Station, TX. 22 Apr 2013.

Partin, J. W. "Reconstructing Rainfall Variability in the Tropical Pacific using Stalagmites" The Institute for Geophysics, University of Texas at Austin, Austin, TX. 9 Nov 2012

Partin, J. W. "Reconstructing Past Rainfall in the Western Tropical Pacific: Cave Proxies" Water and Environmental Institute of the Western Pacific and the Marine Laboratory, University of Guam, Mangilao, Guam. 19 Mar 2010

Partin, J. W. "Reconstructing Paleo-Rainfall in the Western Tropical Pacific: Speleothem Proxies" The Institute for Geophysics, University of Texas at Austin, Austin, TX. 1 May 2009

Partin, J. W. "Caves on Guam: Mother Nature's Climate Stash" The Marine Laboratory, University of Guam, Mangilao, Guam. 16 Jan 2009

Partin, J. W. "Stalagmite Reconstructions of Western Tropical Pacific Climate from the Last Glacial Maximum to Present" Department of Geological Sciences, University of Florida, Gainesville, FL. 24 Jan 2008

Partin, J. W. "Stalagmite reconstructions of tropical Pacific climate from Borneo during the last deglaciation" Faculty of Resource Science and Technology, Universiti Malaysia Sarawak, Kuching, Malaysia. 12 Jul 2006

## **CONFERENCES AND EXTENDED ABSTRACTS**

Partin, J. W., T. M. Quinn, C.-C. Shen, P. D. DiNezio, M. Erb, Y. Okumura, M. B. Cardenas, F. P. Sirigan, K. Thirumalai, M. P. Hori, J. L. Banner, C. S. Jackson, K. Lin, C.-C. Wu, H.-M. Hu, F. W. Taylor (2018), "Continental and Local-Scale Responses of Tropical Rainfall to Precessional Forcing" Abstract presented at 2018, Fall Meeting, AGU, Washington DC, 10-14 Dec.

Partin, J. W., F. W. Taylor, C.-C. Shen, R.L. Edwards, T. M. Quinn, P. D. DiNezio (2017), "Fossil Coral Records of ENSO during the Last Glacial Period" Abstract presented at 2017, Fall Meeting, AGU, New Orleans, LA, 11-15 Dec.

Partin, J. W. Attended the Expert Witness Training Academy, sponsored by the U.S. National Science Foundation at the Mitchell-Hamline Law School, Minnesota, MN. 31 Jul - 4 Aug 2017.

Partin, J. W., T. M. Quinn, C.-C. Shen, Y. Okumura, M. B. Cardenas, F. P. Sirigan, M. P. Erb, M. Hori, P. D. DiNezio, K. Thirumalai, J. L. Banner, C. S. Jackson, K. Lin, C.-C. Wu, H.-M. Hu, F. W. Taylor (2016), "Western North Pacific Monsoon Variability since the Last Glacial Maximum" Abstract presented at 2016, Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.

Partin, J. W., B. L. Konecky, and Iso2k Project Members (2015), "Iso2k: A community-driven effort to develop a global database of paleo-water isotopes covering the past two millennia" Abstract presented at 2015, Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.

Partin, J. W., Y. Okumura, T. M. Quinn, J. Emile-Geay, K. Thirumalai (2014), "Varied Spatial Response of the SPCZ on Multi-decadal Timescales over the past 500 Years" Abstract A11B-3023 presented at 2014, Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

Partin, J. W., T. M. Quinn, C.-C. Shen, M. B. Cardenas, F. P. Sirigan, J. L. Banner, F. W. Taylor (2013), "Insolation and Abrupt Climate Change Effects on the Western Pacific Maritime Monsoon" Abstract PP31C-2044 presented at 2013, Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

Partin, J. W., T. M. Quinn, C.-C. Shen, M. B. Cardenas, Okumura, Y., F.P. Sirigan, J. L. Banner, K. Lin, F. W. Taylor (2013), "Insolation and Abrupt Climate Change Effects on the Western Pacific Maritime Monsoon" Abstract P-471 presented at the 11th International Conference on Paleoclimatology, Sitges, Spain, 1-6 Sep. 2013.

Partin, J. W., T. M. Quinn, C.-C. Shen, M. B. Cardenas, F.P. Sirigan, J. L. Banner, F. W. Taylor (2012), "Insolation and Abrupt Climate Change Effects on the Western Pacific Maritime Monsoon" Abstract PP31C-2044 presented at 2012, Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.

Partin, J. W., T. M. Quinn, C.-C. Shen, F. W. Taylor, J. L. Banner, C.R. Maupin, K., Lin, D. Sinclair, C. Huh, (2011), "Multi-Decadal Rainfall Variability of the South Pacific Convergence Zone from 1562 to 2005 CE" Abstract PP51A-1823 presented at 2011, Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

Partin, J. W., T. M. Quinn, C.-C. Shen, C. R. Maupin, K., Lin, F. W. Taylor, D. Sinclair, J. L. Banner, (2010), "Rainfall Variability under the South Pacific Convergence Zone as Reconstructed from a Speleothem Record (1670-2005) from Vanuatu" Abstract PP51B-07 presented at 2010, Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

Partin, J. W., J. L. Banner, J. W. Jenson, F. W. Taylor, T. M. Quinn, C.-C. Shen, C. R. Maupin, D. J. Sinclair, B. Hardt, M. B. Cardenas, J.E. Mylroie (2009), "Reconstructing Paleo-Rainfall in the Western Tropical Pacific: Developing Speleothem Proxies", *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract PP31D-1431

Partin, J.W., Banner, J. L., Taylor, F. W., Quinn, T. M., Cardenas, M. B., Jenson, J. W., "Speleothems: Ancient Tropical Rain Gauges", *15th International Congress of Speleology*, Kerrville, Texas USA, 19-26 July 2009.

Invited Participant, May 2007, "Future Directions in Karst Research", Karst Waters Institute USA, San Antonio, TX

Partin, J. W., Cobb, K. M., Adkins, J. A., Clark, B. (2006), "Stalagmite Reconstructions of Western Tropical Pacific Climate From the LGM to Present", *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract PP53A-03

Partin, J. W., Cobb, K. M., Adkins, J. A., Clark, B. (2006), "Stalagmite reconstructions of tropical Pacific climate from Borneo during the last deglaciation" In: *Archives of Climate Change in Karst* (B.P. Onac, T. Tamas, S. Constantin & A. Persoiu, Eds.), Karst Waters Institute USA, Special Publication 10, pp 182.