Clay Tabor

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Professional Positions

Assistant Professor, Center for Integrative Geosciences, University of Connecticut	2017-present
Postdoc, Advanced Study Program Fellow, National Center for Atmospheric Research	2016-2017

Education

PhD, Earth and Environmental Sciences - Paleoclimatology, University of Michigan	2015
BSci, Atmospheric Sciences with Minor in Mathematics, University of North Carolina at Asheville	2009

Drafted Manuscripts

Tabor, C.R., Bardeen, C.G., Otto-Bliesner, B.L., Garcia, R., and Toon, O.B. 2018. Drivers and consequences of the end-Cretaceous impact winter. (in prep)

Tabor, C.R., Feng, R., Otto-Bliesner, B.L., 2018. Climate change from an idealized opening of the Atlantic: implications for paleoclimate interpretation. (in prep)

Lopez-Maldonadoa, R., Ellis, A., Bader, N., Ramirez, P., **Tabor, C.R.**, Bateman, J., Jesmok, G., Upadhyay, D., Mitsunaga, B., Elliott, B, Lora, J., & Tripati, A., 2018. Paleoclimate changes in the Pacific Northwest over the past 36,000 years from clumped isotope measurements of paleosols from the palouse loess. (in prep)

Yasuhara, M., Wei, C., **Tabor, C.R.** et al., 2018. Equatorial marine diversity crisis in the warming world. (in prep)

Liu, Z., Selby, D., Horton, D., **Tabor, C.R.**, Sageman, B., and Percival, L., 2018. Twice the bang: Climate Perturbations of the Paleocene–Eocene Thermal Maximum by comet impact and volcanism. (in prep)

In Review Manuscripts

Chang, Q., Hren, M., Lin, A.T., **Tabor, C.R.**, Yu, S., Yvette, E., and Harris, G., 2018. The biomarker stable isotope record for the late Quaternary climate change in Southwestern Taiwan. *Palaeogeography, Palaeoclimatology, Palaeoecology*. (in review)

Thibodeau, B., Not, C., Zhu, J., Schmittner, A., Noone, D., **Tabor, C.R.**, Zhang, J., & Liu, Z. (2018). Last century warming over the Canadian Atlantic shelves linked to weak Atlantic Meridional Overturning circulation, *Geophysical Research Letters*. (in revision)

Published Manuscripts

Tabor, C.R., Otto-Bliesner, B.L., Brady, E., Nusbaumer, J., Zhu, J., Erb, M. Wong, A., Liu, Z., and Noone, D. (2018). Interpreting precession driven $\delta^{18}O$ variability in the South Asian monsoon region, *Journal of Geophysical Research: Atmospheres*.

Super, J. R., Chin, K., Pagani, M., Li, H., **Tabor, C. R.**, Harwood, D., & Hull, P. M. (2018). Late Cretaceous climate in the Canadian Arctic: multi-proxy constraints from Devon Island. *Palaeogeography, Palaeoclimatology, Palaeoecology*.

Zhu, J., Liu, Z., Brady, E., Otto-Bliesner, B., Zhang, J., Noone, D., ... & **Tabor, C. R.** (2017). Reduced ENSO Variability at the LGM Revealed by an Isotope-enabled Earth System Model. *Geophysical Research Letters*.

Feng, R., Otto-Bliesner, B. L., Fletcher, T. L., **Tabor, C. R.**, Ballantyne, A. P., & Brady, E. C. (2017). Amplified Late Pliocene terrestrial warmth in northern high latitudes from greater radiative forcing and closed Arctic Ocean gateways. *Earth and Planetary Science Letters*.

The DeepMIP Model and Data Community: DeepMIP (2017). The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM (version 1.0). *Geoscientific Model Development*.

Tabor, C. R., Poulsen, C. J., Lunt, D. J., Rosenbloom, N. A., Otto-Bliesner, B. L., Markwick, P. J., ... & Feng, R. (2016). The cause of Late Cretaceous cooling: A multimodel-proxy comparison. *Geology*.

Petersen, S. V., **Tabor, C. R.**, Lohmann, K. C., Poulsen, C. J., Meyer, K. W., Carpenter, S. J., ... & Sheldon, N. D. (2016). Temperature and salinity of the Late Cretaceous Western Interior Seaway. *Geology*.

Tabor, C. R., & Poulsen, C. J. (2016). Simulating the mid-Pleistocene transition through regolith removal. *Earth and Planetary Science Letters*.

Poulsen, C. J., **Tabor, C. R.**, & White, J. D. (2015). Long-term climate forcing by atmospheric oxygen concentrations. *Science*.

-Poulsen, C. J., **Tabor, C. R.**, & White, J. (2016). Response to Comment on "Long-term climate forcing by atmospheric oxygen concentrations". *Science*.

Fiorella, R. P., Poulsen, C. J., Pillco Zolá, R. S., Barnes, J. B., **Tabor, C. R.**, & Ehlers, T. A. (2015). Spatiotemporal variability of modern precipitation δ18O in the central Andes and implications for paleoclimate and paleoaltimetry estimates. *Journal of Geophysical Research: Atmospheres*.

Tabor, C. R., Poulsen, C. J., & Pollard, D. (2015). How obliquity cycles powered early Pleistocene global ice-volume variability. *Geophysical Research Letters*.

Tabor, C. R., Poulsen, C. J., & Pollard, D. (2014). Mending Milankovitch's theory: obliquity amplification by surface feedbacks. *Climate of the Past*.

Grants

Multi-Time-Scale Climate Dynamics in California: An Integrated Multi-Proxy Stalagmite, Monitoring, and Modeling Approach - **$133,319 over 3 years**	2018
PAGES Young Scientists Meeting Travel Grant	2017
NCAR Strategic Capability Allocation	2016 / 2017
NCAR Advanced Study Program Fellowship - **$124,000 over 2 years**	2015
GSA Travel Grant	2014
Rackham Graduate Student Travel Grant	2012-2015
Community Earth System Model Tutorial Travel Grant	2012

Invited Talks

Tabor, C.R. and the Paleoclimate Working Group at NCAR: Paleoclimate at NCAR, *NSF Geosciences Division Review of the National Center for Atmospheric Research*, 2017.

Tabor, C.R., Bardeen, C., Otto-Bliesner, B.L., Garcia, R., Toon, B., and Poulsen, C.J.: Exploring the K-Pg with CESM, Deep Time Workshop, Santa Cruz, CA, 2016.

Tabor, C.R., Poulsen, C.J., and Pollard, D.: Using an Earth system model to better understand ice sheet variability through the Pleistocene, American Geophysical Union Fall Meeting, 2015.

Tabor, C.R., Poulsen, C.J., and Pollard, D.: Modeling the Pleistocene glacial cycles, Department of Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD, 2015.

Tabor, C.R. and Dobson, G.: Implementation of GIS for the NWS and other regional decision makers, 30th Anniversary Symposium, Department of Atmospheric Sciences, University of North Carolina at Asheville, Asheville, NC, 2009.

Tabor, C.R.: GIS and atmospheric sciences: bridging the gap, National Environmental Modeling and Analysis Center, Asheville, NC, 2008.

Department Seminars

Tabor, C.R., Understanding orbitally driven $\delta^{18}O$ variability in the South Asian monsoon region, University of Connecticut: Department of Physics, 2018.

Tabor, C.R., Reconstructing Late Cretaceous climate evolution with Earth system models, University of Hong Kong: Department of Earth Sciences, 2017.

Tabor, C.R., Reconstructing Late Cretaceous climate evolution with Earth system models, University of Connecticut: Center for Integrative Geosciences, 2017.

Tabor, C.R., Reconstructing Late Cretaceous climate evolution with Earth system models, Institute for Basic Science: Center for Climate Physics, 2017.

First Author Presentations

Tabor, C.R., Bardeen, C., Otto-Bliesner, B.L., Garcia, R., and Toon, B.: Comparing the causes of end-Cretaceous impact winter with an Earth system model, American Geophysical Union Fall Meeting, 2018.

Tabor, C.R., and CESM Isotope Tracer Development Group: Far Field Isotopic Signatures of a Green Sahara, Goldschmidt, 2018.

Tabor, C.R., Variability of the South Asian Monsoon on Orbital Timescales. Presentation for the Avery Point Modeling Workshop, 2018.

Tabor, C.R., Otto-Bliesner, B.L., Brady, E.C., Feng, R., Nusbaumer, J., Zhu, J., and CESM Isotope Tracer Development Group: Understanding the d18O Response to Precession in the South Asian Monsoon Region, American Geophysical Union Fall Meeting, 2017.

Tabor, C.R., Otto-Bliesner, B.L., Brady, E.C., Feng, R., Nusbaumer, J., Zhu, J., and CESM Isotope Tracer Development Group: Interpreting Speleothem Records from the Asian Monsoon Region with iCESM, CESM Workshop, 2017.

Tabor, C.R., Otto-Bliesner, B.L., Brady, E.C., Feng, R., Nusbaumer, J., Zhu, J., and CESM Isotope Tracer Development Group: Understanding d18O variability in monsoon regions using an earth system model, 5th PAGES Open Science Meeting, 2017.

Tabor, C.R., Otto-Bliesner, B.L., Brady, E.C., Feng, R., Nusbaumer, J., Zhu, J., and CESM Isotope Tracer Development Group: The large scale responses of water isotopes to changes in earth's orbit, 3rd PAGES Young Scientists Meeting, 2017.

Tabor, C.R., Otto-Bliesner, B.L., Brady, E.C., and Erb, M.P.: The role of orbital variability on the distribution of water isotopes in the Quaternary, American Geophysical Union Fall Meeting, 2016.

Tabor, C.R. et al.: Oxygen-18 and Deuterium Isotopes in CESM, Deep Time Workshop, Santa Cruz, CA, 2016.

Tabor, C.R., Bardeen, C., Otto-Bliesner, B.L., Garcia, R., Toon, B., and Poulsen, C.J.: Simulating the K-Pg with an Earth system model, The Geological Society of America Annual Meeting, 2016.

-Press: Sumner, T. Devastation detectives try to solve dinosaur disappearance. Science News, 2017.

Tabor, C.R., Bardeen, C., Otto-Bliesner, B.L., Garcia, R., Toon, B., and Poulsen, C.J.: The large scale climate responses to the Chicxulub impact, CESM Workshop, 2016.

Tabor, C.R., and Poulsen, C.J.: The Role of Paleogeography and CO_2 in Late Cretaceous Ocean Circulation, American Geophysical Union Fall Meeting, 2015.

Tabor, C.R., Poulsen, C.J., Lunt, D.J., Otto-Bliesner, B.L., Rosenbloom, N., and Markwick, P.J.: Simulating climate response to changes in paleogeography through the Cretaceous, CESM Workshop, 2015.

Tabor, C.R., Poulsen, C.J., and Pollard, D.: Regolith as a mechanism for the mid-Pleistocene transition, Michigan Geophysical Union, 2015.

Tabor, C.R., Poulsen, C.J., and Pollard, D.: The potential role of regolith in the mid-Pleistocene transition, American Geophysical Union Fall Meeting, 2014.

Tabor, C.R., Poulsen, C.J., Lunt, D.J., Otto-Bliesner, B.L., Rosenbloom, N., and Markwick, P.J.: Simulating Cenomanian climate with the Community Earth System Model, The Geological Society of America Annual Meeting, 2014.

Tabor, C.R., Poulsen, C.J., and Pollard, D.: Surface feedbacks mend Milankovitch theory, Michigan Geophysical Union, 2013.

Tabor, C.R., Poulsen, C.J., and Pollard, D.: Using a complex earth system model to replicate the ice volume signal of the early Pleistocene, American Geophysical Union Fall Meeting, 2013.

Tabor, C.R., Poulsen, C.J., and Pollard, D.: Modeling the North American ice sheet response to changes in precession and obliquity, American Geophysical Union Fall Meeting, 2012.

Tabor, C.R. and Dobson, G.; Creating geospatial decision support tools for regional decision makers, North Carolina Geographic Information Systems Conference, 2009.

Chaired Sessions

AGU 2018: *Water Isotopes Systematics* 2018

Goldschmidt 2018: *Understanding Past and Present Climate with Water Isotopes* 2018

Advisees

Paul Goddard – Postdoc 2018-Current

Mackenzie Blanusa – Undergrad Committee 2018-Current

Adrian Tasistro-Hart (Princeton) - Undergrad Mentoring 2016

Honors and Awards

NCAR Advanced Study Program Fellowship 2015

Summa Cum Laude 2009

Undergraduate Research Scholar at the University of North Carolina at Asheville 2009

Academic Excellence in the Department of Atmospheric Sciences at the University of North Carolina at Asheville 2009

Excellence in Research in the Department of Atmospheric Sciences at the University of North Carolina at Asheville 2009

G. Herbert Stout Award for Innovative Student Papers 2009

Professional Experience

Grant Writing Workshop, UConn 2018

Evidence-Based Introduction to Teaching, Boulder, CO 2017

3rd PAGES Young Scientists Meeting, Morillo de Tou, Spain 2017

Graduate Student Research Assistant, University of Michigan, Ann Arbor, MI 2010-2015

Visiting Researcher, National Center for Atmospheric Research, Boulder, CO 2013

Community Earth System Model Tutorial, Boulder, CO 2012

National Climatic Data Center Internship, Asheville, NC 2009- 2010

National Environmental Modeling and Analysis Center Intern, Asheville, NC 2008-2009

Undergraduate Research Assistant, University of North Carolina at Asheville, Asheville, NC 2008-2009

Teaching Experience

Paleoclimatology Fall/Spring 2018

Physical Oceanography, University of Michigan Fall 2014

Introductory Environmental Science in the Rockies at the University of Michigan Camp Davis Field Station in Jackson, WY Summer 2014

Introductory Environmental Science in the Rockies at the University of Michigan Camp Davis Field Station in Jackson, WY Summer 2012

Global Change 1, University of Michigan Fall 2011

Geology of National Parks, University of Michigan Fall 2010

Service

UConn Open House: Center for Integrative Geosciences Rep 2018

UConn Environmental Sciences Advisory Board 2018

CISL High Performance Computing Allocation Panel member 2017-current

Climate of the Past: Guest editor 2017-2018

Arctic Climate Game Jam: Organizer 2017

CESM Tutorial: Student mentor 2017

AGU OSPA Judge 2016/2017

CESM Tutorial: Presented on CESM deep-time capability 2016

Advised for NCAR's public climate exhibit 2016

Undergraduate Leadership Workshop: Careers in Atmospheric Sciences panel 2016

NCAR Advanced Study Program: Member of the Postdocs Networking Committee 2016-2017

Michigan Geophysical Union: Member of the Planning Committee 2015

University of Michigan Research Symposium for Graduate Recruiting: Presented 2014

Made a kiosk on ice ages for the University of Michigan's Natural History Museum 2014

Reviewer: *Nature Scientific Data, Nature Communications*, *Geophysical Research Letters, Geology, Paleoceanography, Journal of Geophysical Research-Earth Surfaces, Global and Planetary Change, Journal of Geophysical Research-Atmospheres, Nature Scientific Reports, Climate of the Past*

Memberships

Geological Society of America 2013-present

American Geophysical Union 2012-present