

## Clay Tabor

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### Professional Positions

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

### Education

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

### Publications

**Tabor, C.R.**, and Feng, R.: Climate change from an idealized opening of the Atlantic: implications for paleoclimate interpretation, *Geophysical Research Letters*, 2018. (in prep)

**Tabor, C.R.**, Otto-Bliesner, B.L., Brady, E., Nusbaumer, J., Zhu, J., Erb, M. Wong, A., Liu, Z., and Noone, D.: The d18O response in the South Asian Monsoon to precession, *Journal of Geophysical Research: Atmospheres*, 2018. (in review)

Thibodeau, B., Not, C., Zhu, J., Schmittner, A., Noone, D., **Tabor, C.R.**, Zhang, J., and Liu, Z.: Last century warming over the Canadian Atlantic shelves linked to weak Atlantic Meridional Overturning circulation. (in review)

Super, J.R., Chin, K., Pagani, M., Li, H., **Tabor, C.R.**, Hull, P.M. Harwood, D.: Late Cretaceous climate in the Canadian Arctic: multiproxy constraints from the Devon Island, *Paleogeography, Paleoclimatology, Paleoecology*, 2017. (in revision)

Zhu, J., Liu, Z., Brady, E.C., Otto-Bliesner, B.L., Noone, D., Zhang, J., Tomas, R., Nusbaumer, J., Wong, T., Janh, A., **Tabor, C.R.**: Reduced ENSO variability at the LGM revealed by an isotope-enabled earth system model. *Geophysical Research Letters*, 2017. doi: 10.1002/2017GL073406

Feng, R., Otto-Bliesner, B.L., Fletcher, T., **Tabor, C.R.**, Ballantyne, A., and Brady, E.C.: Contributions to Pliocene Arctic terrestrial warmth from radiative forcing and Arctic Ocean gateway closure. *Earth and Planetary Science Letters*, 2017. doi:10.1016/j.epsl.2017.03.006

The DeepMIP Model and Data Community: DeepMIP: experimental design for model simulations of the EECO, PETM, and pre-PETM. *Geoscientific Model Development*, 2017. doi:10.5194/gmd-2016-127

**Tabor, C.R.**, Poulsen, C.J., Lunt, D.J., Otto-Bliesner, B.L., Rosenbloom, N., Brady, E.C., Markwick, P., Farnsworth, A., and Feng, R.: The cause of the Late Cretaceous cooling: a multi-model / proxy comparison, *Geology*, 2016. doi:10.1130/G38363.1

Peterson, S.V., **Tabor, C.R.**, Lohmann, K.C., Poulsen, C.J., Meyer, K.W., Carpenter, S.J., Matsunaga, K., Smith, S.Y., and Sheldon, N.D.: Temperature and salinity of the Late Cretaceous Western Interior Seaway, *Geology*, 2016. doi:10.1130/G38311.1

**Tabor, C.R.**, and Poulsen, C.J.: Simulating the mid-Pleistocene transition through regolith removal, *Earth and Planetary Science Letters*, 2016. doi:10.1016/j.epsl.2015.11.034

Poulsen, C.J., **Tabor, C.R.**, and White, J.D.: Long-term climate forcing by atmospheric oxygen concentrations, *Science*, 2015. doi:10.1126/science.1260670

-Poulsen, C.J., **Tabor, C.R.**, and White, J.D.: Response to comment on “Long-term climate forcing by atmospheric oxygen concentrations”, *Science*, 2016. doi:10.1126/science.aad8550

Fiorella, R.P., Poulsen, C.J., Pilco-Zolá R., Barnes, J., **Tabor, C.R.**, and Ehlers, T.: Spatiotemporal variability of modern Precipitation  $\delta^{18}\text{O}$  in the Central Andes and implications for paleoclimate and paleoaltimetry estimates, *Journal of Geophysical Research-Atmospheres*, 2015. doi:10.1002/2014JD022893

**Tabor, C.R.**, Poulsen, C.J., and Pollard, D.: How obliquity cycles powered early Pleistocene global ice-volume variability, *Geophysical Research Letters*, 2015. doi:10.1002/2015GL063322

**Tabor, C.R.**, Poulsen, C.J., and Pollard, D.: Mending Milankovitch’s theory: obliquity amplification by surface feedbacks, *Climate of the Past*, 2014. doi:10.5194/cp-10-41-2014

### **Invited Talks**

**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.**, 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.**, Otto-Bliesner, B.L., Brady, E.C., Feng, R., Nusbaumer, J., Zhu, J., and CESM Isotope Tracer Development Group: Understanding the  $\delta^{18}\text{O}$  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  $\delta^{18}\text{O}$  variability in monsoon regions using an earth system model, 5<sup>th</sup> 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, 3<sup>rd</sup> 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<sub>2</sub> 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.

### **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**

Evidence-Based Introduction to Teaching, Boulder, CO	2017
3 <sup>rd</sup> 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	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

### **Grants**

PAGES Young Scientists Meeting Travel Grant	2017
NCAR Strategic Capability Allocation	2016 / 2017
NCAR Advanced Study Program Fellowship	2015
GSA Travel Grant	2014
Rackham Graduate Student Travel Grant	2012-2015
Community Earth System Model Tutorial Travel Grant	2012

### **Service**

Goldschmidt 2018 session organizer	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 Mentoring: Adrian Tasistro-Hart (Princeton)	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: <i>Nature Communications</i> , <i>Geophysical Research Letters</i> , <i>Geology</i> , <i>Paleoceanography</i> , <i>Journal of Geophysical Research-Earth Surfaces</i> , <i>Global and Planetary Change</i> , <i>Journal of Geophysical Research-Atmospheres</i> , <i>Nature Scientific Reports</i>	

### **Memberships**

Geological Society of America	2013-present
American Geophysical Union	2012-present