

Clay Tabor

Department of Earth Sciences
University of Connecticut
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[Research Website](#)
[Google Scholar](#)
[Paper Repository](#)

Appointments

Assistant Professor, Department of Earth Sciences, University of Connecticut	2018-present
Advanced Study Program Postdoc, National Center for Atmospheric Research	2016-2017
Research and Teaching Assistant, University of Michigan	2010-2015

Education

Ph.D. Earth and Environmental Sciences, University of Michigan	2015
B.S. Atmospheric Sciences / Mathematics Minor, University of North Carolina-Asheville	2009

In Review Publications

Oster, J., Macarewich, S., Lofverstrom, M., de Wet, C., Montanez, I., Lora, J., Skinner, C., **Tabor, C.R.** North Atlantic meltwater during Heinrich Events drives wetter climate with more atmospheric rivers in western North America. *Science Advances*. (in revision)

Liu, Z., Bao, Y., Thompson, L., Mosely-Thompson, E., **Tabor, C.R.**, Zhang, G., Lofverstrom, M., Montanez, I., Oster, J. Tropical Mountain Ice Core $\delta^{18}\text{O}$ Detecting Deglacial Temperature Variability in Upper Troposphere. *Science Advances*. (in revision)

Publications (37 peer reviewed works; h-index of 19 based on Google Scholar)

Wolf, A., Ersek, V., Braun, T., French, A., McGee, D., Bernasconi, S., Skiba, V., Griffiths, M., Johnson, K., Fohlmeister, J., Breitenbach, S., Paustata, F., **Tabor, C.R.**, Longman, J., Roberts, W., Chandan, D., Peltier, W., Salzmann, U., Limbert, D., Trinh, D. Drivers of Southeast Asian monsoon variability during the Holocene. *Nature Communications*. (accepted)

Tiwari, S., Ramos, R., Pausata, F., LeGrande, A., Griffiths, M., Beltrami, H., Wainer, I., de Vernal, A., Litchmore, D., Chandan, D., Peltier, R., **Tabor, C.R.** (2023). Influence of the mid-Holocene Green Sahara on South American hydroclimate. *Geophysical Research Letters*. <https://doi.org/10.1029/2022GL101974>

Lopez-Maldonado, R., Ellis, A., Bader, N., Ramirez, P., Bateman, J., Jesmok, G., Upadhyay, D., Mitsunaga, B., Elliott, B., Lora, J., **Tabor, C.R.**, Tripathi, A. (2023). Paleoclimate changes in the Pacific northwest over the past 36,000 years from clumped isotope measurements and isotope-enabled model analysis. *Paleoceanography and Paleoclimatology*. <https://doi.org/10.1029/2021PA004266>

Wright, K., Johnson, K., Marks, G.S., McGee, D., Bhattacharya, T., Goldsmith, G., **Tabor, C.R.**, Lacaille-Muzquiz, J-L., Lum, G., Bermendi-Orosco, L. (2023). Precipitation in Mexico dominated by

- changes in Atlantic Meridional Overturning Circulation. *Nature Communications*. <https://doi.org/10.1038/s41467-023-37700-9>
- Skinner, C., Lora J., **Tabor C.R.**, Zhu J. (2023). Atmospheric river contributions to ice sheet hydroclimate at the Last Glacial Maximum. *Geophysical Research Letters*. <https://doi.org/10.1029/2022GL101750>
- Chiang, J., Atwood, A., Nicknisch, P., Roberts, W., **Tabor, C.R.**, Broccoli, T. (2022). Two distinct annual cycles of the Pacific cold tongue under orbital precession. *Nature*. <https://doi.org/10.1038/s41586-022-05240-9>
- Yasuhara M., May Huang, H-HM., Reuter, M., Tian, S., Cybulski, J., O’Dea, A., Mamo, B., Cotton, L., Martino, E., Feng, R., **Tabor, C.R.** et al. (2022). Hotspots of Cenozoic tropical marine biodiversity. *Oceanography and Marine Biology-An Annual Review*. <https://doi.org/10.1201/9781003288602-5>
- Huang, X., Zhang, H., Griffiths, M., Zhao, B., Pausata, F., **Tabor, C.R.**, Shu, J., Zhao, H., Xie, S. (2022). Holocene forcing of East Asian hydroclimate recorded in a subtropical peatland from southeastern China. *Climate Dynamics*. <https://doi.org/10.1007/s00382-022-06333-x>
- Wortham, B., Montañez, I., Swart, P., Vonnhof, H., **Tabor, C.R.** (2022). A record of effective moisture using inclusion fluid $\delta^{18}\text{O}$ and $\delta^2\text{H}$ in a central Sierra Nevada stalagmite (CA). *Quaternary Science Reviews*. <https://doi.org/10.1016/j.quascirev.2022.107399>
- Tabor, C.R.**, Lofverstrom, M., Montanez, I., Oster, J., Wortham, B., de Wet, C. (2021). Drivers of $\delta^{18}\text{O}$ and hydroclimate change in the Western US at the LGM. *Quaternary Science Reviews*. <https://doi.org/10.1016/j.quascirev.2021.107255>
- *Goddard, P., **Tabor, C.R.**, Jones, T. (2021) Utilizing ice core and climate model data to understand West Antarctic variability. *Journal of Climate*. <https://doi.org/10.1175/JCLI-D-20-0822.1>
- Jepson, G., Carrapa, B., Gillespie, J., Feng, R., DeCelles, P., **Tabor, C.R.**, Zhu, J. (2021). Climate as the Great Equalizer of Continental-Scale Erosion. *Geophysical Research Letters*. <https://doi.org/10.1029/2021GL095008>
- Chang, Q., Hren, M., Lin, A.T., **Tabor, C.R.**, Yu, S., Yvette, E., Harris, G. (2021). The biomarker stable isotope record for the late Quaternary climate change in Southwestern Taiwan. *American Journal of Science*. <https://doi.org/10.2475/04.2021.01>
- Thompson, A., **Tabor, C.R.**, Poulsen, C., Skinner, C. (2021). Interpreting the leaf wax δD signal: A model-proxy case study in the mid-Holocene Green Sahara. *Earth and Planetary Science Letters*. <https://doi.org/10.1016/j.epsl.2020.116677>
- Tabor, C.R.**, Otto-Bliesner, B., Liu, Z. (2020). Speleothems of South American and Asian monsoons influenced by a Green Sahara. *Geophysical Research Letters*. <https://doi.org/10.1029/2020GL089695>
- Tierney, J., Poulsen, C., Montañez, I.P., Bhattacharya, T., Feng, R., Ford, H.L., Hönisch, B., Inglis, G.N., Petersen, S.V., Sagoo, N., **Tabor, C.R.** et al. (2020). Past climates inform our future. *Science*. <https://doi.org/10.1126/science.aay3701>
- Ladant, J., Poulsen, C., Fluteau, F., **Tabor, C.R.**, MacLeod, K., Martin, E., Haynes, S. (2020) Paleogeographic controls on the evolution of Late Cretaceous ocean circulation. *Climate of the Past*. <https://doi.org/10.5194/cp-16-973-2020>
- Yasuhara, M., Wei, C., Kucera, M., Costello, M., Tittensor, D., Kiessling, W., Bonebrake, T., **Tabor, C.R.**, Feng, R., Basalga, A., Kretschmer, K., Kusumoto, B., Kubota, Y. (2020). Past and future decline

- of tropical pelagic biodiversity. *Proceedings of the National Academy of Science*. <https://doi.org/10.1073/pnas.1916923117>
- Tabor, C.R.**, Bardeen, C., Otto-Bliesner, B., Garcia, R., Toon, O. (2020). Causes and climatic consequences of the impact winter at the Cretaceous-Paleogene boundary. *Geophysical Research Letters*. <https://doi.org/10.1029/2019GL085572>
- Liu, Z., Horton, D., **Tabor, C.R.**, Sageman, B., Percival, L., Gill, B., Selby, D. (2019). Assessing the contributions of comet impact and volcanism towards the climate perturbations of the Paleocene-Eocene Thermal Maximum. *Geophysical Research Letters*. <https://doi.org/10.1029/2019GL084818>
- Hu, J., Emile-Geay, J., **Tabor, C.R.**, Nusbaumer, J., Partin, J., Adkins, J (2019). Deciphering Chinese speleothems with an isotope-enabled climate model. *Paleoceanography and Paleoclimatology*. <https://doi.org/10.1029/2019PA003741>
- Stevenson, S., Otto-Bliesner, B., Brady, E., Nusbaumer, J., **Tabor, C.R.**, Tomas, R., Noone, D., Liu, Z. (2019). Volcanic eruption signatures in the isotope-enabled last millennium ensemble. *Paleoceanography and Paleoclimatology*. <https://doi.org/10.1029/2019PA003625>
- Brady, E., Stevenson, S., Baily, D., Liu, Z., Noone, D., Nusbaumer, J., Otto-Bliesner, B., **Tabor, C.R.**, Tomas, R., Wong, T., Zhang, J., Zhu, J. (2019). The connected isotopic water cycle in the Community Earth System Model. *Journal of Advances in Modeling Earth Systems*. <https://doi.org/10.1029/2019MS001663>
- Tabor, C.R.**, Feng, R., Otto-Bliesner, B.L. (2019). Climate responses to the splitting of a supercontinent: Implications for the breakup of Pangea. *Geophysical Research Letters*. <https://doi.org/10.1029/2018GL081510>
- 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*. <https://doi.org/10.1029/2018GL080083>
- Tabor, C.R.**, Otto-Bliesner, B.L., Brady, E., Nusbaumer, J., Zhu, J., Erb, M., Wong, A., Liu, Z., Noone, D. (2018). Interpreting precession driven $\delta^{18}\text{O}$ variability in the South Asian monsoon region. *Journal of Geophysical Research: Atmospheres*. <https://doi.org/10.1029/2018JD028424>
- Super, J. R., Chin, K., Pagani, M., Li, H., **Tabor, C.R.**, Harwood, D., Hull, P. (2018). Late Cretaceous climate in the Canadian Arctic: multi-proxy constraints from Devon Island. *Palaeogeography, Palaeoclimatology, Palaeoecology*. <https://doi.org/10.1016/j.palaeo.2018.03.004>
- 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*. <https://doi.org/10.1002/2017GL073406>
- Feng, R., Otto-Bliesner, B., Fletcher, T., **Tabor, C.R.**, Ballantyne, A., Brady, E. (2017). Amplified Late Pliocene terrestrial warmth in northern high latitudes from greater radiative forcing and closed Arctic Ocean gateways. *Earth and Planetary Science Letters*. <https://doi.org/10.1016/j.epsl.2017.03.006>
- Lunt, D.J., Huber, M., Anagnostou, E., Baatsen, M., Caballero, R., DeConto, R., Dijkstra, H., Donnadiou, Y., Evans, D., Feng, R., Foster, G. et al. (2017). The DeepMIP contribution to PMIP4: experimental design for model simulations of the EECO, PETM, and pre-PETM. *Geoscientific Model Development*. <https://doi.org/10.5194/gmd-10-889-2017>

- Tabor, C.R.**, Poulsen, C., Lunt, D., Rosenbloom, N., Otto-Bliesner, B., Markwick, P., Feng, R. (2016). The cause of Late Cretaceous cooling: A multimodel-proxy comparison. *Geology*. <https://doi.org/10.1130/G38363.1>
- Petersen, S., **Tabor, C.R.**, Lohmann, K., Poulsen, C., Meyer, K., Carpenter, S., Sheldon, N. (2016). Temperature and salinity of the Late Cretaceous Western Interior Seaway. *Geology*. <https://doi.org/10.1130/G38311.1>
- Tabor, C.R.**, Poulsen, C. (2016). Simulating the mid-Pleistocene transition through regolith removal. *Earth and Planetary Science Letters*. <https://doi.org/10.1016/j.epsl.2015.11.034>
- Poulsen, C., **Tabor, C.R.**, White, J. (2015). Long-term climate forcing by atmospheric oxygen concentrations. *Science*. <https://doi.org/10.1126/science.1260670>
- Poulsen, C., **Tabor, C.R.**, White, J. (2016). Response to Comment on “Long-term climate forcing by atmospheric oxygen concentrations”. *Science*. <https://doi.org/10.1126/science.aad8550>
- Fiorella, R., Poulsen, C., Pillco Zolá, R., Barnes, J., **Tabor, C.R.**, Ehlers, T. (2015). 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*. <https://doi.org/10.1002/2014JD022893>
- Tabor, C.R.**, Poulsen, C., Pollard, D. (2015). How obliquity cycles powered early Pleistocene global ice-volume variability. *Geophysical Research Letters*. <https://doi.org/10.1002/2015GL063322>
- Tabor, C.R.**, Poulsen, C., Pollard, D. (2014). Mending Milankovitch's theory: obliquity amplification by surface feedbacks. *Climate of the Past*. <https://doi.org/10.5194/cp-10-41-2014>

Grants (\$1.82 million awarded to UConn as part of \$7.5 million in total funding)

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|---|------|
| NSF Defining CA's paleoclimate-fire relationship across temporal scales through integrated monitoring, stalagmite studies, and proxy system forward modeling - (co-I; \$18,280 to Tabor; \$2,277,350 total; EAR #2202881) | 2022 |
| NSF CAREER Deconvolution of marine oxygen isotopic variability with an Earth system model to constrain sea level across the Pliocene - (sole PI; \$659,173 to Tabor; OCE #2047525) | 2021 |
| NSF Peripheral East Antarctic ice as a unique recorder of climate variability during the Last Interglacial - (co-PI; \$289,433 to Tabor; \$652,694 total; OPP #2035637) | 2021 |
| NSF Evaluating climate change and kill mechanisms associated with the End-Cretaceous mass extinction: A model-data comparison approach - (lead PI; \$507,650 to Tabor; \$2,430,116 total; EAR #2021686) | 2020 |
| NSF Rapid climate change during the Miocene Climate Optimum: a proxy-model comparison - (co-PI; \$199,146 to Tabor; \$665,840 total; EAR #2002440) | 2020 |
| NSF Multi-time-scale climate dynamics in California: an integrated multi-proxy stalagmite, monitoring, and modeling approach - (co-PI; \$135,459 to Tabor; \$818,245 total; AGS #1804747) | 2018 |
| NCAR Advanced Study Program fellowship - (sole PI; \$124,000 to Tabor) | 2015 |

Unfunded Collaborations

NSF Biomarker perspectives on the sensitivity of western North American precipitation to climate change (OCE #2237502)	2022
NSF Postdoc Fellowship Hydroclimate response of the southwestern US to past and future AMOC weakening (AGS #2131749)	2021
NSF Unravelling the signals in Tropical Pacific lake archives: towards improved Holocene hydroclimate reconstructions (AGS #2002419)	2020
NSF Quantifying Holocene climate variations through data assimilation using proxies and general circulation models (GCMs) output (AGS #1903377)	2020
NERC Solar irradiance and vegetation dynamics at the K/Pg boundary	2019

Computing Grants (192 million CPU hours awarded)

NCAR Advanced Scientific Discovery: Extreme weather events under a wide range of climates in high-resolution coupled CESM (led by Bette Otto-Bliesner) - (39 million CPU hours)	2023
NCAR Large University Allocation: Antarctic ice sheet extent and regional Antarctic climate during the Penultimate Deglaciation and Last Interglacial (led by graduate student Joseph Schnaubelt) - (13 million CPU hours)	2022
NCAR Large University Allocation: Emulating the Pliocene (co-written with graduate student Taylor Deneau) - (45 million CPU hours)	2022
NCAR Large University Allocation: Simulating the end-Cretaceous mass extinction - (18 million CPU hours)	2021
NCAR Large University Allocation: Simulation of the South American monsoon during the Miocene Climate Optimum (co-written with graduate student Hamida Ngoma Nadoya) - (8.4 million CPU hours + 6.8 million CPU hours supplement)	2020
NCAR Large University Allocation: High resolution simulations of the last deglaciation for understanding abrupt hydroclimate change in Southwest North America - (16 million CPU hours)	2019
Blue Waters Dear Colleague Letter: Multi-time-scale climate dynamics in California: an integrated multi-proxy stalagmite, monitoring, and modeling approach - (21 million CPU hours)	2019
NCAR Large University Allocation: California megadroughts in context: integrating high resolution speleothem records with isotope-enabled climate models - (10 million CPU hours)	2018
NCAR Strategic Capability Allocation - (15 million CPU hours)	2016

First Author Invited Talks

Exploring changes in hydroclimate during Heinrich Stadial 1 with high resolution simulations. *American Geophysical Union Fall Meeting, 2023.* (upcoming)

Hydrologic changes in the Western United States during the deglaciation, *University of Tübingen*, 2023.

Simulating changes in tropical cyclone activity during the deglaciation, *European Geosciences Union General Assembly*, 2023.

Investigating the End-Cretaceous mass extinction with an Earth system model, *Central Connecticut State University*, 2023.

Using an Earth system model to explore kill mechanisms associated with the end-Cretaceous mass extinction, *Stony Brook University*, 2022.

Hydrologic and isotopic changes in the Western United States at the Last Glacial Maximum, *PMIP 30th Anniversary Meeting*, 2021.

Speleothems of South American and Asian monsoons influenced by a Green Sahara, *Woods Hole Oceanographic Institution*, 2021.

Climate change and kill mechanisms associated with the End-Cretaceous mass extinction: a model-data comparison approach, *National Center for Atmospheric Research*, 2021.

Earth system responses to the asteroid impact at the end of the Cretaceous, *Department of Geology, University of Puerto Rico*, 2020.

Far field isotopic signatures of a Green Sahara, *Department of Geosciences, UConn*, 2020.

Earth system responses to the Chicxulub impact, *Department of Earth and Planetary Sciences, Northwestern University*, 2020. (Cancelled due to COVID)

The global significance of a vegetated Sahara in the mid-Holocene, *Department of Earth and Environmental Sciences, Vanderbilt University*, 2020. (Cancelled due to COVID)

Abrupt climate change at the end-Cretaceous, *Department of Earth and Environmental Sciences, Wesleyan University*, 2019.

Regional paleoclimate, *The Future of Past Climate, Aspen Global Change Institute*, 2019.

Mechanisms for an impact winter, *Department of Environmental Sciences, Rutgers University*, 2019.

Drivers and consequences of the end-Cretaceous impact winter, *Institute of Atmospheric Physics, Chinese Academy of Sciences*, 2018.

Changes in the South Asian monsoon region on orbital timescales, *Department of Geography, UConn*, 2018.

Understanding orbitally driven $\delta^{18}\text{O}$ variability in the South Asian monsoon region, *Department of Physics, UConn*, 2018.

Paleoclimate at NCAR, *NSF Geosciences Division Review of the National Center for Atmospheric Research*, 2017.

Reconstructing Late Cretaceous climate evolution with Earth system models, *Department of Earth Sciences, University of Hong Kong*, 2017.

Reconstructing Late Cretaceous climate evolution with Earth system models, *Center for Integrative Geosciences, UConn*, 2017.

Reconstructing Late Cretaceous climate evolution with Earth system models, *Center for Climate Physics, Institute for Basic Science*, 2017.

Exploring the K-Pg with CESM, *Deep Time Workshop*, 2016.

Using an Earth system model to better understand ice sheet variability through the Pleistocene, *American Geophysical Union Fall Meeting*, 2015.

Modeling the Pleistocene glacial cycles, *Department of Earth and Planetary Sciences, Johns Hopkins University*, 2015.

Implementation of GIS for the NWS and other regional decision makers, 30th Anniversary Symposium, *Department of Atmospheric Sciences, University of North Carolina at Asheville*, 2009.

GIS and atmospheric sciences: bridging the gap, *National Environmental Modeling and Analysis Center*, 2008.

Presentations (* denotes advisee)

*Schnaubelt, J., **Tabor, C.R.**: Constraining Last Interglacial Antarctic proxy signals through Earth System Modeling, *Annual CESM Workshop*, 2023.

Tiwari, S., Pausata, F.S., LeGrande, A.N., Griffiths, M.L., Beltrami, H., de Vernal, A., **Tabor, C.R.**, Litchmore, D., Chandan, D., Peltier, W.R.: Reduction in ENSO variability during the mid-Holocene: a multi-model perspective, *European Geosciences Union General Assembly*, 2023.

Griffiths, M., Zhang, H., **Tabor, C.R.**, Xue, S., Huang, J., Cheng, H., Ning, Y., Xie, S.: Orbital controls on East Asian hydroclimate during the Pleistocene, *American Geophysical Union Fall Meeting*, 2022.

*Hu, S., **Tabor, C.R.**, Bardeen, C.: Emission uncertainties of soot from an asteroid impact at Cretaceous-Paleogene mass extinction event, *American Geophysical Union Fall Meeting*, 2022.

*Nadoya, H., **Tabor, C.R.**: Investigation of the South American Monsoon during the Miocene Climate Optimum, *American Geophysical Union Fall Meeting*, 2022.

*Deneau, T., **Tabor, C.R.**: Emulating climate and $\delta^{18}\text{O}$ of precipitation over the Antarctic ice sheet during the Pliocene, *American Geophysical Union Fall Meeting*, 2022.

*Schnaubelt, J., **Tabor, C.R.**, Zhu, J., Otto-Bliesner, B.: Investigating Last Interglacial Antarctic proxy signals through Earth system modeling, *American Geophysical Union Fall Meeting*, 2022.

Tiwari, S., Ramos, R., Pausata, F., LeGrande, A., Michael L., Beltrami, H., Wainer, I., Litchmore, D., de Vernal, A., Chandan, D., **Tabor, C.R.**: Influence of the mid-Holocene Green Sahara on South American climate, *American Geophysical Union Fall Meeting*, 2022.

Oster, J., Macarawich, S., **Tabor, C.R.**, Lofverstrom, M., Montanez, I.: North Atlantic freshwater flux during Heinrich Events drives wetter climate in Western US, *Geological Society of America Annual Meeting*, 2022.

Otto-Bliesner, B., Zhu, J., Tierney, J., Feng, R., **Tabor, C.R.**, Nusbaumer, J., Walters, A., Brady, E., Sun, C.: Modeling the mid-Pliocene at high resolution, *Copernicus Meetings*, 2022.

Wolf, A., Ersek, V., Braun, T., French, A., McGee, D., Bernasconi, S., Skiba, V., Griffiths, M., Johnson, K., Fohlmeister, J., Breitenbach, S., Pausata, F., **Tabor, C.R.**, Longman, J., Roberts, W., Chandan, D., Peltier, W., Salzmann, U., Limbert, D., Trinh, D.: Drivers of Southeast Asian monsoon variability during the Holocene, *KR9*, 2022.

Griffiths, M., Zhang, H., **Tabor, C.R.**, Xue, S., Huang, J., Cheng, H., Xie, S.: Orbital controls on East Asian hydroclimate during Marine Isotope Stage 6, *KR9*, 2022.

- Tiwari, S., Ramos, R., Pausata, F., LeGrande, A., Griffiths, M., Chandan, D., de Vernal, A., Litchmore, D., Peltier, R., **Tabor, C.R.**: Model performance in simulating the mid-Holocene Green Sahara, *ICP*, 2022.
- Tiwari, S., Ramos, R., Pausata, F., LeGrande, A., Griffiths, M., Chandan, D., de Vernal, A., Litchmore, D., Peltier, R., Tabor, C.R.: Model performance in simulating the mid-Holocene Green Sahara, *European Geosciences Union General Assembly*, 2022.
- Wortham, B., **Tabor, C.R.**: Predicting drip-water $\delta^{18}O$ using machine learning methods, *Goldschmidt*, 2022.
- Tabor, C.R.**, Lofverstrom, M., Montanez, I., Oster, J., Zarzycki, C.: Simulation of tropical cyclone Activity at the LGM, *American Geophysical Union Fall Meeting*, 2021.
- Wolf, A., Ersek, V., Bernasconi, S., Braun, T., Breitenbach, S., French, A., Griffiths, M., Johnson, K., Limbert, D., Longman, J., McGee, D., Pausata, F., Roberts, W., Salzmann, U., **Tabor, C.R.**, Trinh, D.: Varying drivers of Holocene Southeast Asian summer and winter monsoon variability, *American Geophysical Union Fall Meeting*, 2021.
- Terrazas, A., Kowler, A., Arnold, A.J., Marshall, K.R., Santi, L., Goeman-Shulsky, S., Lee, H.I., Ajoku, O., **Tabor, C.R.**, Tripathi, A.E.: Clumped isotope constraints on changes in hydroclimate since the Last Glacial Maximum in Willcox Basin: Lake Cochise, Arizona. *American Geophysical Union Fall Meeting*, 2021
- Tabor, C.R.**, Bardeen, C., Coupe, J., Garza, V., Harrison, C., Krumhardt, K., Levy, M., Lovenduski, N., MacLeod, K., Mitra, S., Sepúlveda, J.: Insights into K-Pg extinction mechanisms using an Earth system model, *Geological Society of America Annual Meeting*, 2021.
- Wortham, B., Montañez, I., Swart, P., Vonhof, H., **Tabor, C.R.**: An integrated approach to understand disequilibrium effects in a stalagmite record from a central Sierra Nevada cave, *Geological Society of America Annual Meeting*, 2021.
- Tabor, C.R.**, Lofverstrom, M., Oster, J., Wortham, B., de Wet, C., Montanez, I.: Storminess and isotopic changes in the Western United States at the Last Glacial Maximum, *Annual CESM Workshop*, 2021.
- Jepson, G., Carrapa, B., Gillespie, J., Feng, R., DeCelles, P., **Tabor, C.R.**, Zhu, J. Climate as the great equalizer of continental-scale erosion, *European Geosciences Union General Assembly*, 2021.
- Tabor, C.R.**, Otto-Bliesner, B., Liu, Z.: Speleothems of South American and Asian monsoons influenced by a Green Sahara, *European Geosciences Union General Assembly*, 2021.
- Oster, J., **Tabor, C.R.**, Lofverstrom, M., Wortham, B., de Wet, C., Montanez, I.: Estimating deglacial precipitation change in western North America from speleothem records and isotope-enabled model simulations, *KROnline*, 2021.
- Chang, Q., Hren, M., Lin, A.T., **Tabor, C.R.**, Yu, S., Yvette, E., Harris, G.: Climatic and geomorphic controls on isotope geochemical signatures of fluvial sedimentary archives in gaoping source-to-sink system, Southwest Taiwan, *Northeast Geological Society of America*, 2021.
- Tabor, C.R.**, Lofverstrom, M., Montanez, I., Oster, J., Wortham, B., de Wet, C.: Using iCESM to understand hydroclimate in southwest North America at the LGM, *CESM Paleoclimate Working Group Winter Workshop*, 2020.
- De Wet, C., **Tabor, C.R.**, Lofverstrom, M., Wortham, B., Montanez, B., He, C., Liu, Z., Oster, J.: Towards a mechanistic understanding of precipitation isotopic changes in the Western US since the LGM, *SISAL 4th workshop*, 2019.

- Ladant, J., Poulsen, C., **Tabor, C.R.**, Ocean circulation sensitivity to tectonic gateways changes during the latest Cretaceous, *American Geophysical Union Fall Meeting*, 2019.
- Thompson, A., **Tabor, C.R.**, Poulsen, C.J.: Investigating a model-proxy discrepancy between precipitation and hydrogen stable isotopes in mid-Holocene northern Africa, *American Geophysical Union Fall Meeting*, 2019.
- Stevenson, S., Otto-Bliesner, B., Brady, E., Nusbaumer, J., **Tabor, C.R.**, Tomas, R., Noone, D., Liu, Z. Isotopic fingerprints of last millennium volcanic eruptions, *American Geophysical Union Fall Meeting*, 2019.
- Oster, J., **Tabor, C.R.**, Lofverstrom, M., Montanez, I., Wortham, B., de Wet, C.: Comparing precipitation seasonality during the last deglaciation from speleothem records and isotope-enabled model simulations, *American Geophysical Union Fall Meeting*, 2019.
- Tabor, C.R.**, Lofverstrom, M., Montanez, I., Oster, J., Wortham, B., de Wet, C.: High-resolution simulations for understanding the climate of Southwest North America at the Last Glacial Maximum, *American Geophysical Union Fall Meeting*, 2019.
- Tabor, C.R.**, Lofverstrom, M., Montanez, I., Oster, J., Wortham, B., de Wet, C.: Using iCESM to explore climate change in Southwest North America during the last deglaciation, *Water Isotopes and Climate Workshop*, 2019.
- Tabor, C.R.**, Lofverstrom, M., Montanez, I., Oster, J., Wortham, B., de Wet, C.: Simulating hydrological changes in the Western US at the LGM with CESM, *Annual CESM Workshop*, 2019.
- Thompson, A., **Tabor, C.R.**, Poulsen, C.J.: Model-proxy comparison of precipitation and hydrogen stable isotopes in the global tropics: A case study in mid-Holocene Northern Africa with iCESM, *Annual CESM Workshop*, 2019.
- Tabor, C.R.**, Lofverstrom, M., Montanez, I., Oster, J., Wortham, B., de Wet, C.: High resolution modeling of the last glacial maximum, *NCSA Blue Waters Symposium*, 2019.
- Bardeen, C., Garcia, R., **Tabor, C.R.**, Toon, B.: What killed the dinosaurs? Modeling mass extinction and cataclysmic climate change, *NCAR Science and Discovery Day*, 2019.
- Tabor, C.R.**, Lofverstrom, M., Montanez, I., Oster, J., Wortham, B., de Wet, C.: A mechanistic understanding of precipitation isotopic changes in the Western United States since the LGM, *European Geosciences Union General Assembly*, 2019.
- Tabor, C.R.**, Bardeen, C., Otto-Bliesner, B.L., Garcia, R., Toon, B.: Comparing the causes of end-Cretaceous impact winter with an Earth system model, *American Geophysical Union Fall Meeting*, 2018.
- Atwood, A., Cobb, K., Chiang, J., Grothe, P., **Tabor, C.R.**, Otto-Bliesner, B., Sayani, H., Jones, A., Hitt, N.: Tropical Pacific climate over the last 6,500 years - insights from a coral ensemble approach and an isotope enabled GCM, *American Geophysical Union Fall Meeting*, 2018.
- Batemam, J., Jesmok, G., Elliot, B., Lora, J., Mitsunaga, B., Lopez-Maldonado, R., Ellis, A., **Tabor, C.R.**, Bader, N., Upadhyay, D., Ramirez, P., Tripathi, A.: Analysis of clumped isotopes in loess-derived calcareous paleosols: The Pacific Northwest climate from LGM to today, *American Geophysical Union Fall Meeting*, 2018.
- *Goddard, P., **Tabor, C.R.**: The atmospheric drivers of the Amundsen Sea Low variability and the resultant influence on stable water isotopic records in West Antarctic: a study of observations and simulations, *American Geophysical Union Fall Meeting*, 2018.

- Hu, J., Emile-Geay, J., **Tabor, C.R.**, Nusbaumer, J.: The interpretation of speleothem $\delta^{18}\text{O}$ in the Asian Monsoon regions: insights from an isotope-enabled model, *American Geophysical Union Fall Meeting*, 2018.
- Wortham, B., Montanez, I., Swart, P., **Tabor, C.R.**: Fossilized drip-water from a Sierra Nevada cave reveals variability in precipitation sources and atmospheric dynamics over the last deglaciation, *American Geophysical Union Fall Meeting*, 2018.
- Tabor, C.R.**, CESM isotope tracer development group: far field isotopic signatures of a Green Sahara, *Goldschmidt*, 2018.
- Wortham, B., Montanez, I., Swart, P., Mukhopadhyay, S., **Tabor, C.R.**: A multi-proxy approach to understanding hydroclimate in the American Southwest, *Goldschmidt*, 2018.
- Tabor, C.R.**: Variability of the South Asian Monsoon on orbital timescales. *Avery Point Modeling Workshop*, 2018.
- Wortham, B., Montanez, I., Swart, P., **Tabor, C.R.**: Fossilized drip-water from a Sierra Nevada Cave, USA reveals changing conditions over the North Pacific during the last deglaciation, *European Geosciences Union General Assembly*, 2018.
- Bardeen, C., **Tabor, C.R.**, Otto-Bliesner, B.L., Garcia, R., Toon, B.: Soot deposition following the Chicxulub impact: comparing to data from 66 million years ago, *Whole Atmosphere Working Group Meeting*, 2018.
- Atwood, A., Cobb, K., Chiang, J., Grothe, P., **Tabor, C.R.**, Otto-Bliesner, B., Sayani, H., Jones, A., Hitt, N.: The influence of mean state changes on ENSO during the mid-Holocene: insights from coral records and an isotope-enabled GCM, *Ocean Sciences Meeting*, 2018.
- Tabor, C.R.**, Otto-Bliesner, B.L., Brady, E.C., Feng, R., Nusbaumer, J., Zhu, J., the iCESM Project Members: 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., the iCESM Project Members: Interpreting Speleothem Records from the Asian Monsoon Region with iCESM, *Annual CESM Workshop*, 2017.
- Tabor, C.R.**, Otto-Bliesner, B.L., Brady, E.C., Feng, R., Nusbaumer, J., Zhu, J., the iCESM Project Members: Understanding $\delta^{18}\text{O}$ 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., the iCESM Project Members: 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., 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.** the iCESM Project Members: Oxygen-18 and deuterium isotopes in CESM, *Deep Time Workshop*, 2016.
- Poulsen C.J. and **Tabor, C.R.**: Late Cretaceous climate evolution from a modeling perspective, *Geological Society of America Annual Meeting*, 2016.
- Tabor, C.R.**, Bardeen, C., Otto-Bliesner, B.L., Garcia, R., Toon, B., Poulsen, C.J.: Simulating the K-Pg with an Earth system model, *Geological Society of America Annual Meeting*, 2016.

- Tabor, C.R.**, Bardeen, C., Otto-Bliesner, B.L., Garcia, R., Toon, B., Poulsen, C.J.: The large scale climate responses to the Chicxulub impact, *Annual CESM Workshop*, 2016.
- Peterson, S.V., **Tabor, C.R.**, Meyer, K.W., Lohmann, K.C., Poulsen, C.J.: Equator to pole in the Cretaceous: a comparison of clumped isotope data with CESM model runs, *American Geophysical Union Fall Meeting*, 2015
- Tabor, C.R.**, Poulsen, C.J.: The role of paleogeography and CO₂ in Late Cretaceous ocean circulation, *American Geophysical Union Fall Meeting*, 2015.
- Peterson, S.V., **Tabor, C.R.**, Carpenter, S.J., Meyer, K.W., Lohmann, K.C., Poulsen, C.J.: A fresh look: salinity and temperature of the Western Interior Seaway using the clumped isotope paleothermometer, *Geological Society of America Annual Meeting*, 2015
- Tabor, C.R.**, Poulsen, C.J., Lunt, D.J., Otto-Bliesner, B.L., Rosenbloom, N., Markwick, P.J.: Simulating climate response to changes in paleogeography through the Cretaceous, *Annual CESM Workshop*, 2015.
- Tabor, C.R.**, Poulsen, C.J., Pollard, D.: Regolith as a mechanism for the mid-Pleistocene transition, *Michigan Geophysical Union*, 2015.
- Tabor, C.R.**, Poulsen, C.J., 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., Markwick, P.J.: Simulating Cenomanian climate with the Community Earth System Model, *Geological Society of America Annual Meeting*, 2014.
- Tabor, C.R.**, Poulsen, C.J., Pollard, D.: Surface feedbacks mend Milankovitch theory, *Michigan Geophysical Union*, 2013.
- Lunt, D.J., Otto-Bliesner, B.L., Poulsen, C.J., Rosenbloom, N., **Tabor, C.R.**: Pre-Pliocene PMIP working group: results so far, and questions for discussion, *Paleoclimate Modeling Intercomparison Project: Second General Meeting*, 2014.
- Rosenbloom, N., Otto-Bliesner, B.L., Brady, E.C., Lunt, D.J., Poulsen, C.J., **Tabor, C.R.**: CESM for deep time paleoclimate, *Paleoclimate Modeling Intercomparison Project: Second General Meeting*, 2014.
- Tabor, C.R.**, Poulsen, C.J., 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., Pollard, D.: Modeling the North American ice sheet response to changes in precession and obliquity, *American Geophysical Union Fall Meeting*, 2012.
- Squires, M.F., Baldwin, R., Reid, G., **Tabor, C.R.**, Wilson, A.: Development a GIS snowstorm database, *American Meteorological Society Annual Meeting*, 2009.
- Tabor, C.R.** Dobson, G.: Creating geospatial decision support tools for regional decision makers, *North Carolina Geographic Information Systems Conference*, 2009.
- Squires, M.F., Lawrimore, J.H., Heim, R.R., Robinson, D.A., Gerbush, M., Estilow, T., **Tabor, C.R.** Wilson, A.: Development of new snowstorm indices and databases at the National Climatic Data Center, *Annual Climate Diagnostics and Prediction Workshop*, 2009.
- Miller, D., Perry, B., Yuter, S., Lee, L., Keighton, S., **Tabor, C.R.**: Snowfall accumulation forecasting challenges for the southern Appalachians, *National Weather Association Annual Meeting*, 2008.

Advisees

Postdoctoral Scholars

Sophia Macarewich (UC-Davis)	2022
Paul Goddard (UConn)	2018-2019

Graduate Students: Primary Advisor

Joseph Schnaubelt (UConn) - PhD primary advisor	2022-present
Shixiong Hu (UConn) - PhD primary advisor	2021-present
Hamida Ngoma Nadoya (UConn) - PhD primary advisor	2021-present
Taylor Deneau (UConn) - PhD primary advisor	2021-present
Sean Jones (UConn) - MS primary advisor	2020-2021

Graduate Students: Committee Member

Sarah Brisson (UConn) - PhD external member	2023
Laura Lapham (UConn) - MS associate advisor	2023-present
Dylan Jones (UConn) - PhD associate advisor	2023-present
Chris Sparacio (UConn) - PhD associate advisor	2022-present
Mary Grace Albright (UConn) - PhD associate advisor	2022-present
Theodor Mayer (UConn; graduated) - MS associate advisor	2022-2023
Monica Garity (UConn Marine Sciences) - PhD associate advisor	2020-present
Alec Shub (UConn Marine Sciences; graduated) - MS associate advisor	2020
Cameron de Wet (Vanderbilt; graduated) - PhD associate advisor	2019-2023
Rebecca Vanderleest (UConn; graduated) - PhD associate advisor	2018

Undergraduate Students: Research Advisor

Nicholas Danese (UConn) - undergraduate research	Summer 2023
Bridget Smith Epaul (UConn) - undergraduate research	Fall 2022-Summer 2023
Morphy Kuffour (UConn) - honors thesis	Fall 2022-Summer 2023
Yuanqing Li (UConn) - summer internship	summer 2022
Benjamin Arora (UConn) - undergraduate research	Spring 2019

Undergraduate Students: Major Advisor

Emily Roberge (UConn) – Earth Sciences	2022-present
Bella McGrath (UConn) – Environmental Sciences	2021
Mackenzie Blanusa (UConn) – Individualized	2018-2021

Honors and Awards

NSF CAREER Award	2021
NCAR Advanced Study Program Fellowship	2015
Undergraduate Research Scholar at the University of North Carolina-Asheville	2009
Academic Excellence in the Department of Atmospheric Sciences at the University of North Carolina-Asheville	2009
Excellence in Research in the Department of Atmospheric Sciences at the University of North Carolina-Asheville	2009
G. Herbert Stout Award for Innovative Student Papers	2009

Chaired Conference Sessions

American Geophysical Union: <i>Water Isotopes Systematics</i>	2018
Goldschmidt: <i>Understanding Past and Present Climate with Water Isotopes</i>	2018

Professional Experience

Geosciences DEI Workshop (UConn)	2022
Visiting Professorship (NCAR)	Summer 2019
Grant Writing Workshop (UConn)	2018
Evidence-Based Introduction to Teaching (University of Colorado)	2017
3 rd PAGES Young Scientists Meeting (Morillo de Tou, Spain)	2017
Graduate Student Research Assistant (University of Michigan)	2010-2015
Visiting Researcher (NCAR)	2013
Community Earth System Model Tutorial (NCAR)	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-Asheville)	2008-2009

Courses at UConn

Paleoclimate Reading Group (ERTH 5050; Created and taught)	Fall 2023 / Spring 2022-2023
Our Evolving Atmosphere (ERTH 2800; Created and taught)	Fall 2020-2022
Dinosaurs, Extinctions, Environmental Catastrophes (ERTH 1010; Taught)	Fall 2019
Paleoclimatology (ERTH 4850 / 5850; Created and taught)	Fall 2018/ Spring 2018-2022

University Service

NSF CAREER Panel Q&A	2023
Earth Sciences Undergraduate Committee	2022-present
Development and Coordination of Climate Minor	2022-present
McNair STEM seminar	2021
Research Connections - Shared STEM projects with undergraduates	2021-2022
CLAS Research Advisory Committee	2021-2023
NSF CAREER Proposal Advising	2021
McNair Mentor	2021-present
Climate Change 1 Credit Course Contributor	2021
Department of Earth Sciences Website Design and Maintenance	2020-present
Ad-hoc SET+ Earth Sciences Committee	2020-2021
CLAS Data Science MS program	2020-2021
CLAS Data Science Initiative	2020-2022
Earth Sciences Course and Curriculum Committee	2018-2022
Earth Sciences Course and Curriculum Committee (Chair)	2020
Environmental Sciences Advisory Board	2020-present
Institute of the Environment Affiliate Member	2019-present
Center for Environmental Science and Engineering Affiliate Member	2018-present
Atmospheric Sciences Group member	2018-present
UCAR Representative (Guest)	2019
Geography Course and Curriculum Committee	2018-2019
Geography Visiting Assistant Professor Search Committee	2019
Big Data Task Force Committee Member	2019
Open House: Earth Sciences Rep	2018 / 2020-2022
Geography Undergraduate Committee	2018

External Service and Outreach

Development of an Early College Experience Course	2023
BBC Studios Research Enquiry - Chicxulub Impact Winter	2023
Member of the Paleoclimate Advances Webinar Series (PAWS) Steering Committee	2022-present
CISL High Performance Computing Allocation Panel Member	2017-2023
National Academy of Sciences Paleoclimate Panel Discussion Leader	2021

Earth Science Fair Contributor	2018-2022
Climate of the Past: Guest editor	2017-2018
Arctic Climate Game Jam: Organizer	2017
CESM Tutorial: Student Mentor	2017
NCAR Advanced Study Program: Member of the Postdocs Networking Committee	2016-2017
CESM Tutorial: Presented on CESM Deep-Time Capability	2016
Advised for NCAR's Public Climate Exhibit	2016
American Geophysical Union Fall Meeting OSPA Judge	2016-2019
Undergraduate Leadership Workshop: Careers in Atmospheric Sciences Panel	2016
Michigan Geophysical Union: Member of the Planning Committee	2015
University of Michigan Research Symposium for Graduate Recruiting	2014
Made a Kiosk on Ice Ages for the University of Michigan's Natural History Museum	2014
Reviewer: NSF, NERC, PaleoMod, Nature, Nature Geosciences, PNAS, Science Advances, Nature Communications, Earth Science Reviews, Nature Scientific Data, Scientific Reports, Geophysical Research Letters, Geology, Paleoceanography and Paleoclimatology, Quaternary Science Reviews, Journal of Geophysical Research-Earth Surfaces, Journal of Geophysical Research-Atmospheres, Climate Dynamics, Journal of Climate, Climate of the Past, Global and Planetary Change, Advances in Space Research +	

Memberships

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