TILclimate: Hasn't there been climate change before? Sources

- 1. "Laurentide Ice Sheet," Encyclopaedia Britannica.
- 2. "Ice Sheet," National Geographic.
- 3. "Glaciers in the Northeastern U.S.," Paleontological Research Institution.
- 4. "About the Lakes," Great Lakes Commission.
- 5. Sandy Eldredge and Bob Biek, "Glad You Asked: Ice Ages—What Are They and What Causes Them," Survey Notes: Utah Geological Survey, September 2010.
- "Glacial Cape Cod," Geologic History of Cape Code, U.S. Geological Survey.
- 7. "Geology of the Western Interior Seaway," Digital Atlas of Ancient Life.
- 8. Jaelyn J. Eberle, et al., "Seasonal variability in Arctic temperatures during early Eocene time," Earth and Planetary Science Letters, August 1, 2010.
- 9. Bob Silberg, "Clouds, Arctic Crocodiles and a New Climate Model," NASA, January 7, 2020.
- 10. Johann P. Klages, et al., "Temperate rainforests near the South Pole during peak Cretaceous warmth," Nature, April 1, 2020.
- 11. Emily J. Judd, et al., "A 485-million-year history of Earth's surface temperature," <u>Science</u>, September 20, 2024.
- 12. P. Worsley, "Jens Esmark, Vassryggen and early glacial theory in Britain," Mercian Geologist, January 2006.
- 13. Bjorn G. Andersen, "Jens Esmark a pioneer in glacial geology," Boreas, March 1992.
- 14. "Willard F. Libby: Biographical," Nobel Prize Outreach.
- 15. W. Hilton Johnson, "Pleistocene events and environments," <u>Encyclopaedia Britannica</u>, January 23, 2025.
- 16. "How does present glacier extent and sea level compare to the extent of glaciers and global sea level during the Last Glacial Maximum (LGM)?," Frequently Asked Questions: Climate, U.S. Geological Survey.
- 17. "World of Change: Global Temperatures," NASA: Earth Observatory.
- 18. "Solar System Temperatures," NASA.
- 19. "Foraminifera," British Geological Survey.

- 20. "What are forams? How are they studied?" Burke Museum.
- 21. Oscar Branson, et al., "The coordination of Mg in foraminiferal calcite," <u>Earth and Planetary Science Letters</u>, December 2013.
- 22. David Herring and Rebecca Lindsey, "Hasn't Earth warmed and cooled naturally throughout history?," Climate.gov, October 29, 2020.
- 23. "Glacial-Interglacial Cycles," NOAA.
- 24. Zeke Hausfather, "Explainer: How the rise and fall of CO2 levels influenced the ice ages," Carbon Brief, July 2, 2020.
- 25. "Greenhouse Gas concentrations hit record high. Again.," <u>World Meteorological</u> Association, November 15, 2023.
- 26. Adolf Stips, et al., "On the causal structure between CO₂ and global temperature," Scientific Reports, February 22, 2016
- 27. "Ice cores and climate change," British Antarctic Survey.
- 28. "Scientists solve long-standing mystery: Why atmospheric carbon dioxide was lower during ice ages," <u>U.S. National Science Foundation</u>, June 17, 2019.
- 29. Michon Scott, "What's the coldest the Earth's ever been?" Climate.gov, February 18, 2021.
- Jessica E. Tierney, et al., "Glacial cooling and climate sensitivity revisited," <u>Nature</u>, August 26, 2020.
- 31. Allie Balter-Kennedy, et al., "The Laurentide Ice Sheet in southern New England and New York during and at the end of the Last Glacial Maximum: a cosmogenic-nuclide chronology," Climate of the Past, September 26, 2024.
- 32. "Carbon Dioxide: Direct Measurements 1958-Present," NASA.
- 33. Anuradha Varanasi, "You Asked: Dinosaurs Survived When CO2 Was Extremely High. Why Can't Humans?" Columbia: Climate School, September 20, 2022.
- 34. "Climate Change: Evidence," NASA.
- 35. Juan M. Lora, "Abrupt reorganization of North Pacific and western North American climate during the last deglaciation," <u>Geophysical Research Letters</u>, November 2, 2016.
- 36. Ilham Bouimetarhan, et al., "Sahel megadrought during Heinrich Stadial 1: evidence for a three-phase evolution of the low- and mid-level West African wind system, "

 Quaternary Science Reviews, December 14, 2012.
- 37. Jasper A. Wassenburg, et al., "Penultimate deglaciation Asian monsoon response to North Atlantic circulation collapse," <u>Nature: Geoscience</u>, November 18, 2021.

- 38. Leo C.P. Martin, et al., "Lake Tauca highstand (Heinrich Stadial 1a) driven by a southward shift of the Bolivian High," <u>Science Advances</u>, August 29, 2018.
- 39. Jessica L. Oster, et al., "North Atlantic meltwater during Heinrich Stadial 1 drives wetter climate with more atmospheric rivers in western North America," <u>Science Advances</u>, November 17, 2023.
- 40. David Colgan, "Chilling climate revelations from the last ice age," <u>UCLA Newsroom</u>, November 28, 2016.
- 41. Matthew B. Osman, et al. "Globally resolved surface temperatures since the Last Glacial Maximum," Nature, November 10, 2021.