

ALL REFERENCES

- Bernabo JC and T Webb III (1977) Changing patterns in the Holocene pollen record of northeastern North America: a mapped summary. *Quat Res* 8: 64-96 [https://doi.org/10.1016/0033-5894\(77\)90057-6](https://doi.org/10.1016/0033-5894(77)90057-6)
- Boenisch, G et al. (2001) BIOME 6000 Data Release 1, IGBP PAGES/World Data Center for Paleoclimatology Data Contribution Series # 2001-046. NOAA/NGDC Paleoclimatology Program, Boulder CO, USA. <https://www.ncei.noaa.gov/pub/data/paleo/pollen/biome6000/>
- Braconnot, P et al. (2012) Evaluation of climate models using palaeoclimatic data. *Nat Clim Change* 2: 417-424 <https://doi.org/10.1038/nclimate1456>
- Brooks CEP (1949) *Climate Through the Ages*, Rev Ed. McGraw-Hill, 395 pp
- COHMAP Members (1988) Climatic changes of the last 18,000 years: observations and model simulations. *Science* 241: 1043-105 <https://doi.org/10.1126/science.241.4869.1043>
- Cleator SF et al. (2020) A new multivariable benchmark for Last Glacial Maximum climate simulations, *Clim Past* 16: 699–712 <https://doi.org/10.5194/cp-16-699-2020>, data available at <https://doi.org/10.17864/1947.244>
- Cline RM and JD Hays (1976) Investigation of Late Quaternary Paleoceanography and Paleolimnology. *Geol Soc Am Memoirs* 145 <https://doi.org/10.1130/MEM145>
- CLIMAP Project Members (1976) The surface of Ice-Age Earth. *Science* 191: 1131-1137 <https://doi.org/10.1126/science.191.4232.1131>
- CLIMAP Project Members (1981) Seasonal reconstruction of the Earth's surface at the last glacial maximum. *Geol Soc Am, Map and Chart Series*, p. 1-18. Digital data: <https://www.ncdc.noaa.gov/paleo-search/study/2516> .pdfs of the maps: <https://rock.geosociety.org/Store/detail.aspx?id=MCH036P>
- Comas-Bru L et al. (2020) SISALv2: a comprehensive speleothem isotope database with multiple age–depth models. *Earth Syst Sci Data* 12: 2579–2606 <https://doi.org/10.5194/essd-12-2579-2020> data available at: <https://doi.org/10.17864/1947.256>
- Dowsett H et al. (2016) The PRISM4 (mid-Piacenzian) paleoenvironmental reconstruction. *Clim Past* 12: 1519–1538 <https://doi.org/10.5194/cp-12-1519-2016>
- Flint RF (1947) *Glacial Geology and the Pleistocene Epoch*. Wiley, 589 pp
- Flint RF (1957) *Glacial and Pleistocene Geology*, Wiley, 553 pp
- Flint RF (1971) *Glacial and Quaternary Geology*, Wiley, 892 pp
- Frenzel B (1967) *Die Klimaschwankungen des Eiszeitalters*. 244 pp https://doi.org/10.1007/978-3-322-98739-6_6

Gates WL (1976) Modeling the Ice-Age climate. *Science* 191: 1138-1144 <https://doi.org/10.1126/science.191.4232.1138>.

Grimm EC et al. (2018) Constituent databases and data stewards in the Neotoma Paleoecology Database: History, growth, and new directions. *PAGES Magazine* 26: 64-65
<https://doi.org/10.22498/pages.26.2.64>

Grobe H et al. (2021) Paleoclimate data synthesis and analysis of associated uncertainty. Special issue jointly organized between Biogeosci, Clim Past, and Earth Syst Sci Data
https://essd.copernicus.org/articles/special_issue11_936.html

Harrison SP (1989) Lake levels and climatic change in eastern North America. *Clim Dyn* 3: 157-167 <https://doi.org/10.1007/BF01080366>

Harrison SP et al. (2014) Climate model benchmarking with glacial and mid-Holocene climates. *Clim Dyn* 43: 671-688.

Harrison SP (2015) Implications of evaluation of CMIP5 palaeosimulations for climate projections. *Nat Clim Change* 8: 735-743 <https://doi.org/10.1038/nclimate2649>

Hecht AD et al. (1979) Paleoclimatic research: status and opportunities. *Quat Res* 12: 6-17
[https://doi.org/10.1016/0033-5894\(79\)90089-9](https://doi.org/10.1016/0033-5894(79)90089-9)

Hollis C et al. (2019) The DeepMIP contribution to PMIP4: methodologies for selection, compilation and analysis of latest Paleocene and early Eocene climate proxy data, incorporating version 0.1 of the DeepMIP database. *Geosci Model Dev* 12: 3149–3206
<https://doi.org/10.5194/gmd-12-3149-2019>

Huntley B, Birks HJB (1983) *An Atlas of Past and Present Pollen Maps for Europe, 0-13,000 years ago*. Cambridge Univ. Press, 667 pp

Joussaume S et al. (1999) Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). *Geophys Res Lett* 27: 859-862
<https://doi.org/10.1029/1999GL900126>

Khider D et al. (2019) PaCTS 1.0: A crowdsourced reporting standard for paleoclimate data. *Paleoceanogr. Paleoclimatol.* 34: 1570-1596 <https://doi.org/10.1029/2019PA003632>

Lamb HH (1971) *Climate: Present, Past and Future*, v. 1, Fundamentals and Climate Now. Methuen/Routledge, 613 pp <https://doi.org/10.4324/9780203804315>

Lamb HH (1977) *Climate: Present, Past and Future*, v. 2, Climatic History and the Future. Methuen/Routledge, 870 pp <https://doi.org/10.4324/9780203804308>

Marlon JR et al. (2016) Reconstructions of biomass burning from sediment-charcoal records to improve data–model comparisons. *Biogeosci* 13: 3225–3244 <https://doi.org/10.5194/bg-13-3225-2016>; data available at: <https://paleofire.org>

Nairn AEM (1961) Descriptive Paleoclimatology. Interscience, NY, 380 pp

PAGES2k Consortium (2013) Continental-scale temperature variability during the past two millennia. Nat Geosci 6:339-346 <https://doi.org/10.1038/NGEO1797>

PAGES2k Consortium (2017) A global multiproxy database for temperature reconstructions of the Common Era. Sci Data 4: 170088 <https://doi.org/10.1038/sdata.2017.88>

Palmer J (2021) Cores 3.0, future-proofing Earth science's historical records. Eos 102: 22-29 <https://doi.org/>

Peterson GM et al (1979) The continental record of environmental conditions at 18,000 yr B.P.: an initial evaluation. Quat Res 12: 47-82 [https://doi.org/10.1016/0033-5894\(79\)90091-7](https://doi.org/10.1016/0033-5894(79)90091-7)

Prentice IC, Webb T III (1998) BIOME 6000: reconstructing global mid-Holocene vegetation patterns from palaeoecological records. J. Biogeogr 25: 997-1005 <https://doi.org/10.1046/j.1365-2699.1998.00235.x>

Street FA and AT Grove (1979) Global maps of lake-level fluctuations since 30,000 yr B.P. Quat Res 12:83-118. [https://doi.org/10.1016/0033-5894\(79\)90092-9](https://doi.org/10.1016/0033-5894(79)90092-9)

Street-Perrott FA, Harrison SP (1985) In: Hecht AD (Ed.) Paleoclimate Analysis and Modeling. J. Wiley and Sons, Inc., New York 291-340.

Street-Perrott, FA et al. (1989) Global Lake-Level Variations from 18,000 to 0 Years Ago: A Paleoclimatic Analysis. U.S. Department of Energy Technical Report 46, Washington, D.C. 20545. Available from the National Oceanic and Atmospheric Administration, National Center for Environmental Information ("NOAA Paleo") <https://www.ncdc.noaa.gov/paleo/study/5495>

USCGARP (United States Committee for the Global Atmospheric Research Program) (1975) Understanding Climatic Change.

Webb T III (1985a) A Global Paleoclimatic Data Base for 6000 yr B.P. U.S. Department of Energy Technical Report 18, Washington, D.C. 20545. Available from the U.S. Department of Energy, Office of Scientific and Technical Information: <https://www.osti.gov/search/semantic:10.3334/CDIAC/cli.ndp011>

Webb T III (1985b). In: Hecht AD (Ed.) Paleoclimate Analysis and Modeling. J. Wiley and Sons, Inc., New York 163-195.

Webb T III and JE Kutzbach (1998) An introduction to 'Late Quaternary Climates': Data syntheses and model experiments. Quat Sci Rev 17: 465-471 [https://doi.org/10.1016/S0277-3791\(98\)00008-0](https://doi.org/10.1016/S0277-3791(98)00008-0)

Williams JW et al. (2018) Building and harnessing open paleodata. PAGES Magazine 26: 49. <https://doi.org/10.22498/pages.26.2.49>

Williams JW et al. (2018) The Neotoma paleoecology database, a multiproxy, international, community-curated data resource. *Quat Res* 89: 156-177 <https://doi.org/10.1017/qua.2017.105>

Wright HE Jr and DG Frey Eds (1965) *The Quaternary of the United States*. Princeton Univ. Press 922 pp

Wright HE Jr. et al. Eds (1993) *Global Climates since the Last Glacial Maximum*. Univ. Minnesota Press, 569 pp (see Preface and Introduction)
<https://www.jstor.org/stable/10.5749/j.ctttsqhb>

Wright, HE Jr, Bartlein PJ (1993) Reflections on COHMAP. *Holocene* 3: 89-92.

Yu G, Harrison SP (1995a) Holocene changes in atmospheric circulation patterns as shown by lake status changes in northern Europe. *Boreas* 24: 260-268 <https://doi.org/10.1111/j.1502-3885.1995.tb00778.x>

Yu G, Harrison SP (1995b) Lake status records from Europe: Data base documentation IGBP PAGES/World Data Center-A for Paleoclimatology Data Contribution Series # 95-009 NOAA/NGDC Paleoclimatology Program, Boulder CO, USA.
<https://www.ncdc.noaa.gov/paleo/study/5493>

Zeuner FE (1959). *The Pleistocene Period: Its Climate, Chronology and Faunal Successions*. Hutchinson Scientific & Technical 447 pp

Zhao S et al. (2018) The International Tree-Ring Data Bank (ITRDB) revisited: data availability and global ecological representativity. *J. Biogeog* 46: 355-368 <https://doi.org/10.1111/jbi.13488>; data available at: <https://www.ncdc.noaa.gov/data-access/paleoclimatology-data/datasets/tree-ring>