

Supplementary material

Table S1. Fossil pollen analogs for northeastern US sites.

Site	Latitude	Longitude	Reference
Allenberg Bog	42.25 N	78.88 W	Miller 1973
Barry Lake	44.30 N	77.92 W	McAndrews 1984
Brandreth Bog	43.92 N	74.68 W	Overpeck 1985b
Caribou Lake	45.93 N	68.77 W	Gajewski 1987
Edward Lake	44.37 N	80.25 W	McAndrews 1981
Found Lake	45.50 N	78.50 W	McAndrews 1981
Heart Lake	44.18 N	73.97 W	Whitehead and Jackson 1990
Inglesby Lake	44.48 N	77.05 W	Fritz et al. 1987
Lac a Tortue	45.55 N	73.32 W	Gauthier 1981
Lac des Atocas	45.54 N	73.31 W	Gauthier 1981
Little Round Lake	44.80 N	76.68 W	Lowdon and Blake 1968
Nutt Lake	45.22 N	79.45 W	Bennett 1987
Pink Lake	45.47 N	75.81 W	Mott and Farley-Gill 1981
Rose Lake	41.92 N	77.93 W	Cotter and Crowl 1981
Ross Pond	43.92 N	69.41 W	Kellogg 1991
Second Lake	44.85 N	79.98 W	Burden et al. 1986
Sinkhole Pond	43.97 N	70.35 W	Jacobson et al. unpubl.
Spring Lake	41.67 N	76.35 W	Nickmann unpubl.
Tonawa Lake	44.85 N	77.18 W	McAndrews and Campbell 1993
Tourbiere de Farnham	45.28 N	72.98 W	Richard unpubl.
Van Nostrand	44.00 N	79.38 W	McAndrews 1973
Wylde Bog	43.90 N	80.40 W	McAndrews unpubl.

Table S2. Fossil pollen analogs for GSMNP sites.

Site	Latitude	Longitude	Reference
Alderdale Bog	46.05 N	79.20 W	Terasmae 1969
Allenberg Bog	42.25 N	78.88 W	Miller 1973
Barry Lake	44.30 N	77.92 W	McAndrews 1984
Basswood Road	45.25 N	67.33 W	Mott 1975
Belmont Bog	42.25 N	77.92 W	Spear and Miller 1976
Brandreth Bog	43.92 N	74.68 W	Overpeck 1985b
Caribou Lake	45.93 N	68.77 W	Gajewski 1987
Cranberry Lake	44.10 N	78.10 W	McAndrews 1981
Edward Lake	44.37 N	80.25 W	McAndrews 1981
Found Lake	45.50 N	78.50 W	McAndrews 1981
Harrowsmith Bog	44.42 N	76.70 W	Terasmae 1969
Heart Lake	44.18 N	73.97 W	Whitehead and Jackson 1990
Inglesby	44.48 N	77.05 W	Fritz et al. 1987
Lac à la Tortue	45.55 N	73.32 W	Gauthier 1981
Lac des Atocas	45.54 N	73.31 W	Gauthier 1981
Little Round Lake	44.80 N	76.68 W	Lowdon and Blake 1968
Lost Lake	46.72 N	87.97 W	Brubaker 1975
Mer Bleue Peat Bog	45.40 N	75.51 W	Mott and Camfield 1969
Nutt Lake	45.22 N	79.45 W	Bennett 1987
Pink Lake	45.47 N	75.81 W	Mott and Farley-Gill 1981
Rose Lake	41.92 N	77.93 W	Cotter and Crowl 1981
Ross Pond	43.92 N	69.41 W	Kellogg 1991
Ryerse Lake	46.13 N	85.18 W	Futyma unpubl.
Second Lake	44.85 N	79.98 W	Burden et al. 1986
Sinkhole Pond	43.97 N	70.35 W	Jacobson et al. unpubl.
Spring Lake	41.67 N	76.35 W	Nickmann unpubl.
Tonawa Lake	44.85 N	77.18 W	McAndrews and Campbell 1993
Tourbière de Farnham	45.28 N	72.98 W	Richard unpubl.
Tourbière de Lanoraie St. Jean	46.00 N	73.22 W	Comtois 1979
Van Nostrand lake	44.00 N	79.38 W	McAndrews 1973
Wylde Bog	43.90 N	80.40 W	McAndrews unpubl.

References

- Bennett, K. D. 1987. Holocene history of forest trees in southern Ontario. – *Can. J. Bot.* 65: 1792–1801.
- Brubaker, L. B. 1975. Postglacial forest patterns associated with till and outwash in northcentral Upper Michigan. – *Quat. Res.* 5: 499–527.
- Burden, E. T. et al. 1986. Palynology of Indian and European forest clearance and farming in lake sediment cores from Awenda Provincial Park, Ontario. – *Can. J. Earth Sci.* 23: 43–54.
- Comtois, P. G. 1979. Histoire holocène du climat et de la végétation à Lanoraie. – *Mémoire de M.Sc., Dépt de Géographie, Univ. de Montréal.*
- Cotter, J. F. P. and Crowl, G. H. 1981. The paleolimnology of Rose Lake, Potter Co., Pennsylvania: a comparison of palynologic and paleopigment studies. – In: Romans, R. C. (ed.), *Geobotany II*. Plenum Press, pp. 91–116.
- Fritz, P. et al. 1987. Stable isotope, fossil coleoptera and pollen stratigraphy in late Quaternary sediments from Ontario and New York State. – *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 58: 183–202.
- Gajewski, K. 1987. Environmental history of Caribou Bog, Penobscot Co., Maine. – *Nat. Can.* 114: 133–140.
- Gauthier, R. 1981. Histoire de la colonisation végétale postglaciaire des Montérégiennes: deux sites du mont Saint-Bruno. – Graduate thesis, Univ. de Montréal, Montréal, QC, Canada.
- Kellogg, D. C. 1991. Prehistoric landscapes, paleoenvironments, and archaeology of Western Muscongus Bay, Maine. – Graduate thesis, Univ. of Maine, Orono.
- Lowdon, J. A. and Blake, Jr, W. 1968. Geological survey of Canada radiocarbon dates VII. – *Radiocarbon* 10: 207–245.
- McAndrews, J. H. 1973. Pollen analysis of the sediments of the Great Lakes of North America. – In: *Palynology: Holocene and marine palynology*. Proceedings of the III International Palynological Conference, pp. 76–80.
- McAndrews, J. H. 1981. Late Quaternary climate of Ontario: temperature trends from the fossil pollen record. – In: Mahaney, W. C. (ed.), *Quaternary Paleoclimate*. Geo Abstracts, pp. 319–333.
- McAndrews, J. H. 1984. Late Quaternary vegetation history of Rice Lake, Ontario, and the McIntyre Archaeological Site. – *Archaeol. Surv. Can. Pap.* 126: 161–189.
- McAndrews, J. H. and Campbell, I. D. 1993. 6 ka mean July temperature in eastern Canada from Bartlein and Webb's pollen transfer functions: comments and illustrations. – In: Telka, A. (ed.), *Proxy climate data and models of the six thousand years before present time interval: the Canadian perspective*. The Royal Society of Canada, pp. 22–25.
- Miller, N. G. 1973. Late-glacial and postglacial vegetation change in southwestern New York State. – Bulletin 420, New York State Museum and Science Service, The State Education Dept, New York.
- Mott, R. J. 1975. Palynological studies of lake sediment profiles from southwestern New Brunswick. – *Can. J. Earth Sci.* 12: 273–288.
- Mott, R. J. and Camfield, M. 1969. Palynological studies in the Ottawa area. – *Geological Survey of Canada Paper* 69-38.
- Mott, R. J. and Farley-Gill, L. D. 1981. Two late Quaternary pollen profiles from Gatineau Park, Quebec. – *Geological Survey of Canada Paper* 80-31.
- Overpeck, J. T. 1985. A pollen study of a late Quaternary peat bog, south-central Adirondack Mountains, New York. – *Geol. Soc. Am. Bull.* 96: 145–154.
- Spear, R. W. and Miller, N. G. 1976. A radiocarbon dated pollen diagram from the Allegheny Plateau of New York State. – *J. Arnold Arboretum* 57: 369–403.
- Terasmae, J. 1969. A discussion of deglaciation and the boreal forest in the northern Great Lakes region. – *Proc. Entomol. Soc. Ontario* 99: 31–43.
- Whitehead, D. R. and Jackson, S. T. 1990. The regional vegetational history of the High Peaks (Adirondack Mountains). – *New York Bulletin* 478, New York State Museum.