

Publications

(See the .pdf tab for reprints of some of these.)

Bartlein, P.J., and S.L. Shafer, 2018, Paleo calendar-effect adjustments in time-slice and transient climate-model simulations (PaleoCalAdjust v1.0): impact and strategies for data analysis. *Geoscientific Model Development Discussions*, 1-36. <https://doi.org/10.5194/gmd-2018-283>

Harrison, S. P., Bartlein, P. J., Brovkin, V., Houweling, S., Kloster, S., & Prentice, I. C. (2018). The biomass burning contribution to climate–carbon-cycle feedback. *Earth Syst. Dynam.*, 9(2), 663-677. <https://doi.org/10.5194/esd-9-663-2018>

Hostetler, S.W., P.J. Bartlein and J.R. Alder, 2018, Atmospheric and surface climate associated with 1986–2013 wildfires in North America. *Journal of Geophysical Research: Biogeosciences*, 123(5), 1588-1609. <https://doi.org/10.1029/2017JG004195>

Marsicek, J., B.N. Shuman, P.J. Bartlein, S.L. Shafer & S. Brewer, 2018, Reconciling divergent trends and millennial variations in Holocene temperatures. *Nature* 554:92. <https://dx.doi.org/10.1038/nature25464> News & Views: <http://dx.doi.org/10.1038/d41586-018-00943-4>

Kageyama, M., P. Braconnot, S.P. Harrison, A.M. Haywood, J. Jungclaus, B.L. Otto-Bliesner, J.Y. Peterschmitt, A. Abe-Ouchi, S. Albani, P.J. Bartlein, C. Brierley, M. Crucifix, A. Dolan, L. Fernandez-Donado, H. Fischer, P.O. Hopcroft, R.F. Ivanovic, F. Lambert, D.J. Lunt, N.M. Mahowald, W.R. Peltier, S.J. Phipps, D.M. Roche, G.A. Schmidt, L. Tarasov, P.J. Valdes, Q. Zhang & T. Zhou, 2018, PMIP4-CMIP6: the contribution of the Paleoclimate Modelling Intercomparison Project to CMIP6. *Geosci. Model Dev.* 11:1033-1057. <https://dx.doi.org/doi:10.5194/gmd-11-1033-2018>

Otto-Bliesner, B.L., P. Braconnot, S.P. Harrison, D.J. Lunt, A. Abe-Ouchi, S. Albani, P.J. Bartlein, E. Capron, A.E. Carlson, A. Dutton, H. Fischer, H. Goelzer, A. Govin, A. Haywood, F. Joos, A.N. Legrande, W.H. Lipscomb, G. Lohmann, N. Mahowald, C. Nehrbass-Ahles, F.S.R. Pausata, J.Y. Peterschmitt, S. Phipps & H. Renssen, 2017, The PMIP4 contribution to CMIP6 - Part 2: Two Interglacials, Scientific Objective and Experimental Design for Holocene and Last Interglacial Simulations. *Geosci. Model Dev.* 10:39-403. <https://dx.doi.org/10.5194/gmd-10-3979-2017>

Marlon, J.R., N. Pederson, C. Nolan, S. Goring, B. Shuman, A. Robertson, R. Booth, P.J. Bartlein, M.A. Berke, M. Clifford, E. Cook, A. Dieffenbacher-Krall, M.C. Dietze, A. Hessler, J.B. Hubeny, S.T. Jackson, J. Marsicek, J. McLachlan, C.J. Mock, D.J.P. Moore, J. Nichols, D. Peteet, K. Schaefer, V. Trouet, C. Umbanhowar, J.W. Williams & Z. Yu, 2017, Climatic history of the northeastern United States during the past 3000 years. *Clim. Past* 13:1355-1379. <https://doi.org/10.5194/cp-13-1355-2017>

Bartlein, P.J., S.P. Harrison and K. Izumi, 2017, Underlying causes of Eurasian mid-continental aridity in simulations of mid-Holocene climate, *Geophysical Research Letters*. 44:1-9, <http://dx.doi.org/10.1002/2017GL074476>

Carter, V. A., M. J. Power, Z. J. Lundeen, J. L. Morris, K. L. Petersen, A. Brunelle, R. S. Anderson, J. J. Shinker, L. Turney, R. Koll & P. J. Bartlein, 2017, A 1,500-year synthesis of wildfire activity stratified by elevation from the U.S. Rocky Mountains. *Quaternary International*. <http://dx.doi.org/10.1016/j.quaint.2017.06.051>

Kageyama, M., S. Albani, P. Braconnot, S.P. Harrison, P.O. Hopcroft, R.F. Ivanovic, F. Lambert, O. Marti, W.R. Peltier, J.Y. Peterschmitt, D.M. Roche, L. Tarasov, X. Zhang, E.C. Brady, A.M. Haywood, A.N. LeGrande, D.J. Lunt, N.M. Mahowald, U. Mikolajewicz, K.H. Nisancioglu, B.L. Otto-Bliesner, H. Renssen, R.A. Tomas, Q. Zhang, A. Abe-Ouchi, P.J. Bartlein, J. Cao, G. Lohmann, R. Ohgaito, X. Shi, E. Volodin, K. Yoshida, X. Zhang & W. Zheng, 2017, The PMIP4 contribution to CMIP6 – Part 4: Scientific objectives and experimental design of the

- PMIP4-CMIP6 Last Glacial Maximum experiments and PMIP4 sensitivity experiments. *Geosci. Model Dev. Discuss.* 2017:1-33. <https://doi.org/10.5194/gmd-2016-106>
- Daniels, S. & P.J. Bartlein, 2016, Charting time. *Annals of the American Association of Geographers* 107:28-32. <https://doi.org/10.1080/24694452.2016.1230420>
- Izumi, K. and P.J. Bartlein, 2016, North American paleoclimate reconstructions for the last glacial maximum using an inverse-modeling through iterative-forward-modeling (IMIFM) approach applied to pollen data. *Geophysical Research Letters*. 43:1-8, <http://dx.doi.org/10.1002/2016GL070152>
- Schwörer, C., D.M. Fisher, D.G. Gavin, C. Temperli & P.J. Bartlein, 2016, Modeling postglacial vegetation dynamics of temperate forests on the Olympic Peninsula (WA, USA) with special regard to snowpack. *Climatic Change* 137:379-394. <https://doi.org/10.1007/s10584-016-1696-z>
- Harrison, S.P., P.J. Bartlein & I.C. Prentice, 2016, What have we learnt from palaeoclimate simulations? *Journal of Quaternary Science* 31:363-385. <https://doi.org/10.1002/jqs.2842>
- Marlon, J.R., R. Kelly, A.L. Daniau, B. Vannière, M.J. Power, P. Bartlein, P. Higuera, O. Blarquez, S. Brewer, T. Brucher, A. Feurdean, G.G. Romera, V. Iglesias, S.Y. Maezumi, B. Magi, C.J. Courtney Mustaphi & T. Zhihai, 2016, Reconstructions of biomass burning from sediment-charcoal records to improve data-model comparisons. *Biogeosciences* 13:3225-3244. <https://doi.org/10.5194/bg-13-3225-2016>
- Marshall, J.A., J.J. Roering, P.J. Bartlein, D.G. Gavin, D.E. Granger, A.W. Rempell, S. Praskievicz, T.C. Hales, 2015, Frost for the trees: Did climate increase erosion in unglaciated landscapes during the Late Pleistocene? *Science Advances*. e1500715, <http://dx.doi.org/10.1126/sciadv.1500715>
- Boslough, M., K. Nicoll, T.L. Daulton, A.C. Scott, P. Claeys, J.L. Gill, J.R. Marlon & P.J. Bartlein, 2015, Incomplete Bayesian model rejects contradictory radiocarbon data for being contradictory. *Proceedings of the National Academy of Sciences of the United States of America* 112:E6722-E6722. <https://doi.org/10.1073/pnas.1519917112>
- Shafer, S.L., P.J. Bartlein, E.M. Gray & R.T. Peltier, 2015, Projected future vegetation changes for the northwest United States and southwest Canada at a fine spatial resolution using a dynamic global vegetation model. *PLOS ONE* 1-21, <https://doi.org/10.1371/journal.pone.0138759>
- Bartlein, P.J., M.E. Edwards, S.W. Hostetler, S.L. Shafer, P.M. Anderson, L.B. Brubaker, and A.V. Lozhkin, 2015, Early-Holocene warming in Beringia and its mediation by sea-level and vegetation changes. *Climate of the Past*, 11:1197-1222. <https://doi.org/10.5194/cp-11-1197-2015>
- Harrison, S.P., P.J. Bartlein, K. Izumi, G. Li, J. Annan, J. Hargreaves, P. Braconnot and M. Kageyama, 2015, Implications of evaluation of CMIP5 palaeosimulations for climate projections. *Nature Climate Change* 8:735-743. <https://doi.org/10.1038/nclimate2649>
- Izumi, K., Bartlein, P.J., Harrison, S.P., 2015. Energy-balance mechanisms underlying consistent large-scale temperature responses in warm and cold climates. *Climate Dynamics*. 44:3111-3127. <https://doi.org/10.1007/s00382-014-2189-2>
- Thompson, R.S., K.H. Anderson, R.T. Peltier, L.E. Strickland, S.L. Shafer, P.J. Bartlein and A.K. McFadden, 2015, Atlas of relations between climatic parameters and distributions of important trees and shrubs in North America—revisions for all taxa from the United States and Canada and new taxa from the western United States. *U.S. Geological Survey Professional Paper 1650-G*. (<https://pubs.usgs.gov/pp/p1650-g/>)
- Blarquez, O., Vannière, B., Marlon, J.R., Daniau, A.-L., Power, M.J., Brewer, S., Bartlein, P.J., 2014. paleofire: An R package to analyse sedimentary charcoal records from the Global Charcoal Database to reconstruct past biomass burning. *Computers & Geosciences*. 72, 255-261. <https://doi.org/10.1016/j.cageo.2014.07.020>

Gavin, D.G., Fitzpatrick, M.C., Guggen, P.F., Heath, K.D., Rodriguez-Sanchez, F., Dobrowski, S.Z., Hampe, A., Hu, F.S., Ashcroft, M.B., Bartlein, P.J., Blois, J.L., Carstens, B.C., Davis, E.B., de Lafontaine, G., Edwards, M.E., Fernandez, M., Henne, P.D., Herring, E.M., Holden, Z.A., Kong, W.-s., Liu, J., Magri, D., Matzke, N.J., McGlone, M.S., Salter, F., Stigall, A.L., Tsai, Y.-H.E., Williams, J.W., 2014. Climate refugia: joint inference from fossil records, species distribution models and phylogeography. *New Phytologist* 204, 37-54.

<https://doi.org/10.1111/nph.12929>

Harrison, S.P., Bartlein, P.J., Brewer, S., Prentice, I.C., Boyd, M., Hessler, I., Holmgren, K., Izumi, K., Willis, K., 2014. Climate model benchmarking with glacial and mid-Holocene climates. *Climate Dynamics* 43, 671-688.

<https://doi.org/10.1007/s00382-013-1922-6>

Praskiewicz, S., Bartlein, P., 2014. Hydrologic modeling using elevationally adjusted NARR and NARCCAP regional climate-model simulations: Tucannon River, Washington. *Journal of Hydrology* 517, 803-814.

<https://doi.org/10.1016/j.jhydrol.2014.06.017>

Bartlein, P.J., S.W. Hostetler, J.R. Alder, 2014, Paleoclimate, Ch. 1 in G. Oehring (ed.), *Climate Change in North America*, Regional Climate Studies, Springer. https://doi.org/10.1007/978-3-319-03768-4_1

Schmidt, G.A., J.D. Annan, P.J. Bartlein, B.I. Cook, E. Guilyardi, J.C. Hargreaves, S.P. Harrison, M. Kageyama, A.N. LeGrande, B. Konecky, S. Lovejoy, M.E. Mann, V. Masson-Delmotte, C. Risi, D. Thompson, A.

Timmermann, L.B. Tremblay & P. Yiou, 2014, Using palaeo-climate comparisons to constrain future projections in CMIP5. *Clim. Past* 10:221-250. <https://doi.org/10.5194/cp-10-221-2014>

Foley, A.M., D. Dalmonech, A.D. Friend, F. Aires, A.T. Archibald, P. Bartlein, L. Bopp, J. Chappellaz, P. Cox, N.R. Edwards, G. Feulner, P. Friedlingstein, S.P. Harrison, P.O. Hopcroft, C.D. Jones, J. Kolassa, J.G. Levine, I.C. Prentice, J. Pyle, N.V. Riveiros, E.W. Wolff & S. Zaehle, 2013, Evaluation of biospheric components in Earth system models using modern and palaeo-observations: the state-of-the-art. *Biogeosciences* 10:8305-8328.

<https://doi.org/10.5194/bg-10-8305-2013>

Li, G., S.P. Harrison, P.J. Bartlein, K. Izumi & I.C. Prentice, 2013, Precipitation scaling with temperature in warm and cold climates: an analysis of CMIP5 simulations. *Geophysical Research Letters*: DOI: 10.1002/grl.50730.

Izumi, K., P.J. Bartlein and S.P. Harrison, 2013, Consistent large-scale temperature responses in warm and cold climates, *Geophysical Research Letters*, DOI: 10.1002/grl.50350

Marlon, J.R. P.J. Bartlein, A.-L. Daniau, S.P. Harrison, S.Y. Maesumi, M.J. Power, W. Tinner, B. Vannière, 2013,, Global biomass burning: a synthesis and review of Holocene paleofire records and their controls. *Quaternary Science Reviews* 65:5-25

Power, M.J., F.E. Mayle, P.J. Bartlein, J.R. Marlon, R.S. Anderson, H. Behling, K.J. Brown, C. Carcaillet, D. Colombaroli, D.G. Gavin, D.J. Hallett, S.P. Horn, L.M. Kennedy, C.S. Lane, C.J. Long, P.I. Moreno, C. Paitre, G. Robinson, Z. Taylor & M.K. Walsh, 2013, Climatic control of the biomass-burning decline in the Americas after AD 1500. *Holocene* 23:3-13.

Kennett, D.J., S.F.M. Breitenbach, V.V. Aquino, Y. Asmerom, J. Awe, J.U.L. Baldini, P. Bartlein, B.J. Culleton, C. Ebert, C. Jazwa, M.J. Macri, N. Marwan, V. Polyak, K.M. Prufer, H.E. Ridley, H. Sodemann, B. Winterhalder & G.H. Haug, 2012, Development and Disintegration of Maya Political Systems in Response to Climate Change. *Science* 338:788-791.

Daniau, A.-L., P.J. Bartlein, S.P. Harrison and 57 others, 2012, Predictability of biomass burning in response to climate changes, *Global Biogeochemical Cycles* 26, GB4007, doi:10.1029/2011GB004249.

Gill, J.L., J.L. Blois, S. Goring, J.R. Marlon, P.J. Bartlein, K. Nicoll, A.C. Scott & C. Whitlock, 2012, Paleoeological changes at Lake Cuitzeo were not consistent with an extraterrestrial impact. *Proceedings of the National Academy of Sciences of the United States of America* 109:E2243-E2243.

Tang, G. & P.J. Bartlein, 2012, Modifying a dynamic global vegetation model for simulating large spatial scale land surface water balances. *Hydrology and Earth System Sciences* 16:2547-2565.

Thompson, R.S., K.H. Anderson, R.T. Pelltier, L.E. Strickland, Sarah L. Shafer, and P.J. Bartlein, 2012, Quantitative estimation of climatic parameters from vegetation data in North America by the mutual climatic range technique, *Quaternary Science Reviews* 51:18-39.

Braconnot, P., S.P. Harrison, M. Kageyama, P.J. Bartlein, V. Masson-Delmotte, A. Abe-Ouchi, B. Otto-Bliesner & Y. Zhao, 2012, Evaluation of climate models using palaeoclimatic data. *Nature Climate Change* 2:417-424, doi:10.1038/nclimate1456.

Shafer, S.L., Atkins, J., Bancroft, B.A., Bartlein, P.J., Lawler, J.J., Smith, B., and Wilsey, C.B., 2012, Projected climate and vegetation changes and potential biotic effects for Fort Benning, Georgia; Fort Hood, Texas; and Fort Irwin, California: *U.S. Geological Survey Scientific Investigations Report 2011–5099*, 46 p.

Clark, P.U., J.D. Shakun, P.A. Baker, P.J. Bartlein, S. Brewer, E. Brook, A.E. Carlson, H. Cheng, D.S. Kaufman, Z. Liu, T.M. Marchitto, A.C. Mix, C. Morrill, B.L. Otto-Bliesner, K. Pahnke, J.M. Russell, C. Whitlock, J.F. Adkins, J.L. Blois, J. Clark, S.M. Colman, W.B. Curry, B.P. Flower, F. He, T.C. Johnson, J. Lynch-Stieglitz, V. Markgraf, J. McManus, J.X. Mitrovica, P.I. Moreno & J.W. Williams, 2012, Global climate evolution during the last deglaciation. *Proceedings of the National Academy of Sciences* doi:10.1073/pnas.1116619109

Marlon, J.R., P.J. Bartlein, D.G. Gavin, C.J. Long, R.S. Anderson, C.E. Briles, K.J. Brown, D. Colombaroli, D.J. Hallett, M.J. Power, E.A. Scharf & M.K. Walsh, 2012, Long-term perspective on wildfires in the western USA. *Proceedings of the National Academy of Sciences* 109:E535-E543.

Schmittner, A., N.M. Urban, J.D. Shakun, N.M. Mahowald, P.U. Clark, P.J. Bartlein, A.C. Mix & A. Rosell-Mele, 2011, Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum. *Science* 334:1385-1388. see also Schmittner, A., N.M. Urban, J.D. Shakun, N.M. Mahowald, P.U. Clark, P.J. Bartlein, A.C. Mix & A. Rosell-Melé, 2012, Response to Comment on “Climate Sensitivity Estimated from Temperature Reconstructions of the Last Glacial Maximum”. *Science* 337:1294.

Mooney, S., S.P. Harrison, P.J. Bartlein & J. Stevenson. 2012. The prehistory of fire in Australia. In *Flammable Australia, fire regimes, biodiversity and ecosystems in a changing world* eds. R. A. Bradstock, A. M. Gill & R. J. Williams. Canberra: CSIRO Publishing. pp.3-26.

Matthews, J.A., P.J. Bartlein, K.R. Briffa, A.G. Dawson, A. DeVernal, T. Denham, S.C. Fritz & F. Oldfield. 2012. Background to the science of environmental change. In *The SAGE Handbook of Environmental Change*, eds. J. A. Matthews, P. J. Bartlein, K. R. Briffa, A. G. Dawson, A. DeVernal, T. Denham, S. C. Fritz & F. Oldfield. London, UK: SAGE Publications.

McGlone, M., J. Wood & P.J. Bartlein. 2012. Environmental change in the temperate forested regions. In *The SAGE Handbook of Environmental Change*, eds. J. A. Matthews, P. J. Bartlein, K. R. Briffa, A. G. Dawson, A. DeVernal, T. Denham, S. C. Fritz & F. Oldfield. London, UK: SAGE Publications.

Bartlein, P.J., S.P. Harrison, S. Brewer, S. Connor, B.A.S. Davis, K. Gajewski, J. Guiot, T.I. Harrison-Prentice, A. Henderson, O. Peyron, I.C. Prentice, M. Scholze, H. Seppa, B. Shuman, S. Sugita, R.S. Thompson, A.E. Viau, J. Williams & H. Wu, 2011, Pollen-based continental climate reconstructions at 6 and 21 ka: a global synthesis. *Climate Dynamics* 37:775-802. DOI: 10.1007/s00382-010-0904-1

Harrison, S.P. and P.J. Bartlein, 2012, Records from the past, lessons for the future: what the palaeoecological record implies about mechanisms of global change. in A. Henderson-Sellers and K.J. McGuffie eds., *The Future of the World's Climate*. Elsevier, DOI 10.1016/B978-0-12-386917-3.00014-2

Power, M.J., C. Whitlock and P.J. Bartlein, 2011, Postglacial fire, vegetation, and climate history across an elevational gradient in the Northern Rocky Mountains, USA and Canada. *Quaternary Science Reviews* 30:2520-2533.

Prentice, I.C., D.I. Kelly, P.N. Foster, P. Friedlingstein, S.P. Harrison and P.J. Bartlein, 2011, Modeling fire and the terrestrial carbon balance, *Global Biogeochemical Cycles*. 25:GB3005

Vanniere, B., M.J. Power, N. Roberts, W. Tinner, J. Carrion, M. Magny, P. Bartlein, D. Colombaroli, A.L. Daniau, W. Finsinger, G. Gil-Romera, P. Kaltenrieder, R. Pini, L. Sadori, R. Turner, V. Valsecchi & E. Vescovi, 2011, Circum-Mediterranean fire activity and climate changes during the mid-Holocene environmental transition (8500-2500 cal. BP). *The Holocene* 21:53-73.

McMahon, S.M., S.P. Harrison, W.S. Armbruster, P.J. Bartlein, C.M. Beale, M.E. Edwards, J. Kattge, G. Midgley, X. Morin & I.C. Prentice, 2011, Improving assessment and modelling of climate change impacts on global terrestrial biodiversity. *Trends in Ecology & Evolution* 26:249-259.

Prentice, I.C., S.P. Harrison and P.J. Bartlein, 2011, Tropical forests, ice ages and the carbon cycle, *New Phytologist* 189:988-998.

Mooney, S.D. S.P. Harrison, P.J. Bartlein, A.-L. Daniau, J. Stevenson, K. Brownlie, S. Buckman, M. Cupper, J. Luly, M. Black, E. Colhoun, D. D'Costa, J. Dodson, S. Haberle, G.S. Hope, P. Kershaw, C. Kenyon, M. McKenzie and N. Williams, 2011, Late-Quaternary fire regimes of Australasia. *Quaternary Science Reviews* 30:28-46.

Long, C.J., M.J. Power and P.J. Bartlein, 2011, The effects of fire and tephra deposition on forest vegetation in the Central Cascades, Oregon *Quaternary Research* 75:151-158.

Harrison, S.P. J.R. Marlon and P.J. Bartlein, 2010, Fire in the Earth System, Ch. 3 in J. Dodson, *Changing Climates, Earth Systems and Society*, Springer, ISBN: 978-90-481-8715-7

Marlon, J.R. and P.J. Bartlein, 2010, Toward multiple working hypotheses. Invited comment in Holliday, V.T. & D.J. Meltzer, The 12.9-ka ET Impact Hypothesis and North American Paleoindians. *Current Anthropology* 51:593-594.

Arneth, A., S.P. Harrison, S. Zaehle, K. Tsigaridis, S. Menon, P.J. Bartlein, J. Feichter, A. Korhola, M. Kulmala, D. O'Donnell, G. Schurgers, S. Sorvari & T. Vesala, 2010, Terrestrial biogeochemical feedbacks in the climate system. *Nature Geoscience* 3:525-532.

Higuera, P.E., D.G. Gavin, P.J. Bartlein and D.J. Hallett, 2010, Peak detection in sediment-charcoal records: impacts of alternative data analytical methods on fire-history interpretations. *International Journal of Wildland Fire* 19:996-1014.

Walsh, M.K., C. Whitlock and P.J. Bartlein, 2010, 1200 years of fire and vegetation history in the Willamette Valley, Oregon and Washington, reconstructed using high-resolution macroscopic charcoal and pollen analysis *Palaeogeography, Palaeoclimatology, Palaeoecology* 297:273-289.

Daniau A.L., Harrison S.P., Bartlein P.J., 2010, Fire regimes during the Last Glacial. *Quaternary Science Reviews* 29:918-2930, DOI: DOI: 10.1016/j.quascirev.2009.11.008.

Power M.J., Marlon J.R., Bartlein P.J., Harrison S.P., 2010, Fire history and the Global Charcoal Database: A new tool for hypothesis testing and data exploration. *Palaeogeography, Palaeoclimatology, Palaeoecology* 291:52-59 DOI: DOI: 10.1016/j.palaeo.2009.09.014.

Walsh M.K., Pearl C.A., Whitlock C., Bartlein P.J., Worona M.A., 2010, An 11 000-year-long record of fire and vegetation history at Beaver Lake, Oregon, central Willamette Valley. *Quaternary Science Reviews* 29:1093-1106. DOI: DOI: 10.1016/j.quascirev.2010.02.011.

Shinker J.J., Bartlein P.J., 2010, Spatial variations of effective moisture in the western United States. *Geophysical Research Letters* 37. DOI: L0270110.1029/2009gl041387.

Williams J.W., Shuman B., Bartlein P.J., Diffenbaugh N.S., Webb T., 2010, Rapid, time-transgressive, and variable responses to early Holocene midcontinental drying in North America. *Geology* 38:135-138. DOI: 10.1130/g30413.1.

Shinker, J.J. and P.J. Bartlein, 2009, Visualizing the large-scale patterns of ENSO-related climate anomalies in North America, *Earth Interactions* 13:3-1 - 3-50

Tang, G., S.L. Shafer, P.J. Bartlein, and J.O. Holman, 2009, Effects of experimental protocol on global vegetation model accuracy: a comparison of simulated and observed vegetation patterns for Asia. *Ecological Modelling*. 220:1481-1491, doi:10.1016/j.ecolmodel.2009.03.021

Williams, J.W., B. Shuman, P.J. Bartlein, 2009, Abrupt responses of the prairie-forest ecotone to early Holocene aridity in mid-continental North America. *Global and Planetary Change* 66:195-207 doi: 10.1016/j.gloplacha.2008.10.012

Lawler, J. J., S. L. Shafer, D. White, P. Kareiva, E.P. Maurer, A.R. Blaustein, and P.J. Bartlein, 2009, Projected climate-induced faunal change in the Western Hemisphere. *Ecology* 90, 588-597.

Marlon, J.R., P.J. Bartlein, M.K. Walsh, S. P. Harrison, K. J. Brown, M. E. Edwards, P. E. Higuera, M. J. Power, R. S. Anderson, C. Briles, A. Brunelle, C. Carcaillet, M. Daniels, F. S. Hu, M. Lavoie, C. Long, T. Minckley, P. J. H. Richard, A.C. Scott, D. S. Shafer, W. Tinner, C. E. Jr. Umbanhowar and C. Whitlock, 2009, Wildfire responses to abrupt climate change in North America. *Proceedings of the National Academy of Sciences*. 106:2519-2524 doi:10.1073/pnas.0808212106

Cook, E.R., P.J. Bartlein, N.S. Diffenbaugh, R. Seager, B.N. Shuman, R.S. Webb and J.W. Williams, 2008, Hydrological variability and change, in P.U. Clark, A.J. Weaver, E.J. Brook, E.R. Cook and T. Delworth, eds., *Abrupt Climate Change*, U.S. Climate Change Research Program, Synthesis and Assessment Product 3.4. pp.

Marlon, J.R., P.J. Bartlein, C. Carcaillet, D.G. Gavin, S.P. Harrison, P.E. Higuera, F. Joos, M.J. Power and I.C. Prentice, 2008, Climate and human influences on global biomass burning over the past two millennia. *Nature Geoscience* 1:697-702.

Minckley, T. A., Bartlein, P. J., Whitlock, C., Shuman, B. N., Williams, J. W., and Davis, O. K., 2008, Associations among modern pollen, vegetation, and climate in western North America. *Quaternary Science Reviews* 27, 1962-1991.

Tang, G. P., and Bartlein, P. J., 2008, Simulating the climatic effects on vegetation: approaches, issues and challenges. *Progress in Physical Geography* 32, 543-556.

Walsh, M.K., C. Whitlock and P.J. Bartlein, 2008, A 14,300-year-long record of fire-vegetation-climate linkages at Battle Ground Lake, southwestern Washington. *Quaternary Research* 70:251-264.

Briles, C.E., C. Whitlock, P.J. Bartlein, and P. Higuera, 2008, Regional and local controls on postglacial vegetation and fire in the Siskiyou Mountains, northern California, USA. *Palaeogeography, Palaeoclimatology, Palaeoecology* 265:1959-1969.

Thompson, R.S., K.H. Anderson, and P.J. Bartlein, 2008, An assessment of the ability of vegetation analogs to estimate present-day bioclimates in North America: implications for paleoclimatic reconstructions, *Quaternary Science Reviews* 27:1234-1254.

Bartlein, P.J., S.W. Hostetler, S.L. Shafer, J.O. Holman, and A.M. Solomon, 2008, Temporal and spatial structure in a daily wildfire-start data set from the western United States (1986-1996). *International Journal of Wildland Fire* 17:8-17.

Whitlock, C., P. Bartlein, C. Briles, A. Brunelle, C.J. Long, and J. Marlon, 2008, Long-term relations between fire, fuel, and climate in the northwestern U.S., *International Journal of Wildland Fire* 17:72-83.

Power M. J., J. Marlon, N. Ortiz, P.J. Bartlein, S.P. Harrison, F.E. Mayle, A. Ballouche, R.H.W. Bradshaw, C. Carcaillet, C. Cordova, S. Mooney, P.I. Moreno, I.C. Prentice, K. Thonicke, W. Tinner, C. Whitlock, Y. Zhang, Y. Zhao, A. A. Ali, R. S. Anderson, R. Beer, H. Behling, C. Briles, K. J. Brown, A. Brunelle, M. Bush, P. Camill, G.Q. Chu, J. Clark, D. Colombaroli, S. Connor, A.-L. Daniau, M. Daniels, J. Dodson, E. Doughty, M. E. Edwards, W. Finsinger, D. Foster, J. Frechette, M.-J. Gaillard, D.G. Gavin, E. Gobet, S. Haberle, D.J. Hallett, P. Higuera, G. Hope, S. Horn, J. Inoue, P. Kaltenrieder, L. Kennedy, Z.C. Kong, C. Larsen, C.J. Long, J. Lynch, E.A. Lynch, M. McGlone, S. Meeks, S. Mensing, G. Meyer, T. Minckley, J. Mohr, D.M. Nelson, J. New, R. Newnham, R. Noti, W. Oswald, J. Pierce, P. J.H. Richard, C. Rowe, M.F. Sanchez Gofñi, B.N. Shuman, H. Takahara, J. Toney, C. Turney, D.H. Urrego-Sanchez, C. Umbanhowar, M. Vandergoes, B. Vanniere, E. Vescovi, M. Walsh, X. Wang, N. Williams, J. Wilmschurst and J. H. Zhang, 2008, Changes in fire regimes since the Last Glacial Maximum: an assessment based on a global synthesis and analysis of charcoal data, *Climate Dynamics*, DOI 10.1007/s00382-007-0334-x

Gavin, D.G., D.J. Hallett, F.S. Hu, K.P. Lertzman, S.J. Prichard, K.J. Brown, J.A. Lynch, P.J. Bartlein and D.L. Peterson, 2007, Forest fire and climate change in western North America: insights from sediment charcoal records, *Frontiers in Ecology and the Environment* 5(12):499-506.

Long, C. J., Whitlock, C., and Bartlein, P. J. 2007. Holocene vegetation and fire history of the Coast Range, western Oregon, USA. *Holocene* 17, 917-926.

Minckley, T. A., Whitlock, C., and Bartlein, P. J. (2007). Vegetation, fire, and climate history of the northwestern Great Basin during the last 14,000 years. *Quaternary Science Reviews* 26, 2167-2184.

Whitlock, C., P.I. Moreno, and P.J. Bartlein, 2007, Holocene fire patterns in southern South America: present-day analogues for past periods of high fire activity. *Quaternary Research* 68:28-36.

Shuman, B., P.J. Bartlein, and T. Webb III, 2007, Response to "Comments on: The magnitude of millennial- and orbital-scale climatic change in eastern North America during the Late-Quaternary" by Shuman et al., *Quaternary Science Reviews* 26:268-273.

Bartlein, P.J., 2006, Time scales of climate change. in Elias, S.A. ed., *Encyclopedia of Quaternary Science*, Elsevier pp. 1873-1883.

Williams, J.W., Shuman, B., Bartlein, P.J., Whitmore, J., Gajewski, K. Sawada, M., Minckley, T., Shafer, S., Viau, A.E., Webb, T. III, Anderson, P. Brubaker, L., Whitlock, C. Davis, O., 2006, An Atlas of Pollen-Vegetation-Climate Relationships for the United States and Canada, American Association of Stratigraphic Palynologists *Contributions Series* 43, 300p.

Diffenbaugh, N.S., M. Ashfaq, B. Shuman, J.W. Williams, and P.J. Bartlein, 2006, Summer aridity in the United States: response to mid-Holocene changes in insolation and sea surface temperature. *Geophysical Research Letters* 33, L22712, doi:10.1029/2006GL028012, 2006

Marlon, J., P.J. Bartlein, and C. Whitlock, 2006, Fire-fuel-climate linkages in the northwestern U.S. during the Holocene. *The Holocene* 16:1065-1077

Whitlock, C., M.M. Bianchi, P.J. Bartlein, V. Markgraf, J. Marlon, M. Walsh and N. McCoy, 2006, Postglacial vegetation, climate, and fire history along the east side of the Andes (lat 41–42.5°S), Argentina, *Quaternary Research* 66:187-201.

Shinker, J.J., P.J. Bartlein, and B. Shuman, 2006, Synoptic and dynamic climate controls of North American mid-continental aridity. *Quaternary Science Reviews* 25:1401-1417.

Power, M.J., Whitlock, C., Bartlein, P.J., and L. Stevens, 2006, Fire and vegetation history during the last 3800 years in northwestern Montana. *Geomorphology* 75:420-436

Shuman, B., P.J. Bartlein and T. Webb, III, 2005, The magnitudes of millennial- and orbital-scale climatic change in eastern North America. *Quaternary Science Reviews* 24:2194-2206.

Brunelle, A., C. Whitlock, P. Bartlein, and K. Kipfmüller, 2005, Holocene fire and vegetation along environmental gradients in the Northern Rocky Mountains. *Quaternary Science Reviews* 24:2281-2300.

Briles, C.E., C. Whitlock, and P.J. Bartlein, 2005, Postglacial vegetation, fire, and climate history of the Siskiyou Mountains, Oregon. *Quaternary Research* 64:44-56.

Whitmore, J., K. Gajewski, M. Sawada, J.W. Williams, B. Shuman, P.J. Bartlein, T. Minckley, A.E. Vau, T. Webb III, P. Anderson, L. Brubaker, 2005, Modern Pollen Data from North America and Greenland for Multi-scale Paleoenvironmental Applications. *Quaternary Science Reviews* 24:1828-1848.

Light, A. and P.J. Bartlein, 2004, Reply to a comment on "Color schemes for improved data graphics." *EOS, Transactions of the American Geophysical Union* 86(20):196.

Overpeck, J., J. Cole, and P. Bartlein, 2005, A "paleoperspective" on climate variability and change, in T.E. Lovejoy and L. Hannah, Eds., *Climate Change and Biodiversity*, Yale Univ. Press, pp 91-108.

Shafer, S.L., P.J. Bartlein and C. Whitlock, 2005, Understanding the spatial heterogeneity of global environmental change in mountain regions, in U. Huber, M. Reasoner and H. Bugmann (eds.) *Global Change and Mountain Regions*. Springer, p 21-30.

Whitlock, C. C.N. Skinner, P.J. Bartlein, T. Minckley, and J.A. Mohr, 2004, Comparison of charcoal and tree-ring records of recent fires in the eastern Klamath Mountains, California, U.S.A. *Canadian Journal of Forest Research* 34:2110-2121.

Light, A. and P.J. Bartlein, 2004, The end of the rainbow? Color schemes for improved data graphics. *EOS, Transactions of the American Geophysical Union* 85(40):385,391.

Thompson, R.S., L.E. Strickland, R.T. Pelltier, S.L. Shafer, K.H. Anderson, P.J. Bartlein and M.W. Kerwin, 2004, Topographic, bioclimatic, and vegetation characteristics of three ecoregion classification systems in North America: comparisons along continentwide transects. *Environmental Management* 33(3):1-24.

Barboni, D., Harrison, S.P., Bartlein, P.J., Jalut, G., New, M., Prentice, I.C., Sanchez-Goni, M.F. and Stevenson, A.C., 2004. Relationships between plant traits and climate in the Mediterranean region. *Journal of Vegetation Science* 15: 535-546.

Millspaugh, S.H., C. Whitlock and P.J. Bartlein, 2004, Postglacial fire, vegetation, and climate history of the Yellowstone-Lamar and Central Plateau Provinces, Yellowstone National Park. Ch. 2 in L.L. Wallace, ed., *After the Fires, The Ecology of Change in Yellowstone National Park*. Yale Univ. Press, pp. 10-28.

Huntley, B., R.E. Green, Y.C. Collingham, J.K. Hill, S.G. Willis, P.J. Bartlein, W. Cramer, W.J.M. Hagemeyer and C.J. Thomas, 2004, The performance of models relating species geographical distributions to climate is independent of trophic level. *Ecology Letters* 7:417-426.

Bonfils, C., N. de Noblet-Ducoudré, J. Guiot, P. Bartlein and PMIP participants, 2004, Some mechanisms of mid-Holocene climate change in Europe, inferred from comparing PMIP models to data. *Climate Dynamics* 23:79-98.

Williams, J.W., B.N. Shuman, T. Webb III, P.J. Bartlein, P.L. Leduc, 2004, Late Quaternary vegetation dynamics in North America: scaling from taxa to biomes. *Ecological Monographs* 74(2):309-334.

Kaufman, D.S. , T.A. Ager, N.J. Anderson, P.M. Anderson, J.T. Andrews, P.J. Bartlein, L.B. Brubaker, L.L. Coats, L.C. Cwynar, M.L. Duvall, A.S. Dyke, M.E. Edwards, W.R. Eisner, K. Gajewski, A., Geirsdottir, F.S. Hu, A.E. Jennings, M.R. Kaplan, M.W. Kerwin, A.V. Lozhkin, G.M., MacDonald, G.H. Miller, C.J. Mock, W.W. Oswald, B.L. Otto-Bliesner, D.F. Prorinchu, K. Rühland, J.P. Smol, E.J. Steig,, and B.B. Wolfe, 2004, Holocene Thermal Maximum in the Western Arctic (0 - 180° W). *Quaternary Science Reviews* 23:529-560.

Bartlein, P.J., and S.W. Hostetler, 2004, Modeling paleoclimates, Ch. 27 in A. Gillespie, S.C. Porter, B. Atwater (eds.), *The Quaternary Period in the United States*. (2003 INQUA volume) Elsevier, p. 563-582.

Whitlock, C. and P.J. Bartlein, 2004, Holocene fire activity as a record of past environmental change. Ch. 22 in A. Gillespie, S.C. Porter, B. Atwater (eds.). *The Quaternary Period in the United States*. (2003 INQUA volume) Elsevier, p. 479-490.

Minckley, T.A., P.J. Bartlein, and J.J. Shinker, 2004. Paleoecological response to climate change in the Great Basin since the last glacial maximum. In D.L. Jenkins, T.J. Connolly, and C.M. Aikens (Eds.) Early and middle Holocene Archaeology of the Northern Great Basin, pp. 21-30. University of Oregon Anthropological Papers 62. Eugene.

Overpeck, J., C. Whitlock, B. Huntley, P.J. Bartlein, Y.C. Collingham, E.C. Grimm, T. Webb III, J.W. Williams and S.G. Willis, 2003, Terrestrial biosphere dynamics in the climate system: past and future. in K.D. Alverson, R.S. Bradley and T.F. Pederson (eds.), *Paleoclimate, Global Change and the Future*, Springer, p. 81-103.

Bigelow, N.H., L.B. Brubaker, M.E. Edwards, S.P. Harrison, I.C. Prentice, P.M. Anderson, A.A. Andreev, P.J. Bartlein, T.R. Christensen, W. Cramer, J.O. Kaplan, A.V. Lozhkin, N.V. Matveyeva, D.F. Murry, A.D. McGuire, V.Y. Razzhivin, J.C. Ritchie, B. Smith, D.A. Walker, K. Gajewski, V. Wolf, B. Holmqvist, Y. Igarashi, K. Kremenetskii, A. Paus, M.F.J. Pisaric and V. S. Volkova, 2003, Climate change and Arctic ecosystems I. Vegetation changes north of 55°N between the last glacial maximum, mid-Holocene and present, *J. Geophysical Research* 108(19): 11-1 to 11-25, doi:10.1029/2002JD002558, 2003

Kaplan, J.O., N.H. Bigelow, I.C. Prentice, S.P. Harrison, P.J. Bartlein, T.R. Christensen, W. Cramer, N.V. Matveyeva, A.D. McGuire, D.F. Murray, V.Y. Razzhivin, B. Smith, D.A. Walker, P.M. Anderson, A.A. Andreev, L.B. Brubaker, M.E. Edwards, A.V. Lozhkin, J.C. Ritchie, 2003, Climate change and Arctic ecosystems II. Modeling, paleodata-model comparisons, and future projections, *J. Geophysical Research* 108(19): 12-1 to 12-17, doi:10.1029/2002JD002559, 2003

Bartlein, P.J., S.W. Hostetler, S.L. Shafer, J.O. Holman and A.M. Solomon (2003). The seasonal cycle of wildfire and climate in the western United States, 5th Symposium on Fire and Forest Meteorology. American Meteorological Society, pp. P3.9-1 - P3.9-6.

Hostetler, S.W., P.J. Bartlein, J.O. Holman, S.L. Shafer and A.M. Solomon (2003). Using a regional climate model to diagnose climatological and meteorological controls of wildfire in the western United States, 5th Symposium on Fire and Forest Meteorology. American Meteorological Society, pp. P1.3-1 - P1.3-5.

Whitlock, C., P.J. Bartlein, J. Marlon, A. Brunelle and C. Long (2003). Holocene fire reconstructions from the northwestern U.S.: an examination at multiple time scales, 5th Symposium on Fire and Forest Meteorology. American Meteorological Society, pp. 4C.1-1 - 4C.1-5.

Lynch, A.H., A.R. Rivers and P.J. Bartlein, 2003, An assessment of the influence of land cover uncertainties on the simulation of global climate in the early Holocene. *Climate Dynamics* 21:243-256.

Diffenbaugh, N.S., L.C. Sloan, M.A. Snyder, J.L. Bell, J. Kaplan, S.L. Shafer and P.J. Bartlein, 2003, Vegetation sensitivity to global anthropogenic carbon dioxide emissions in a topographically complex region. *Global Biogeochemical Cycles* 17(2) 1067, doi:10.1029/2002GB001974, 2003

Harrison, S. P., Kutzbach, J. E., Liu, Z., Bartlein, P. J., Otto-Bliesner, B., Muhs, D., Prentice, I. C., and Thompson, R. S., 2003, Mid-Holocene climates of the Americas: A dynamical response to changed seasonality. *Climate Dynamics* 20:663-688.

Whitlock, C., P. Bartlein and T. Swetnam, 2002, Fire-climate linkages in the mid-latitude Americas. *PAGES News* 10(2):20. Supplemental information at www.pages.unibe.ch/shhighlight/archive02/july3_02.html

Shuman, B. N., Bartlein, P. J., Logar, N., Newby, P., and Webb, T., III, 2002, Parallel vegetation and climate responses to the early-Holocene collapse of the Laurentide Ice Sheet. *Quaternary Science Reviews* 21: 1793–1805.

Shuman, B. N., Webb, T., III, Bartlein, P. J., and Williams, J. W., 2002, The Anatomy of a climatic oscillation: vegetation change in eastern North America during the Younger Dryas Chronozone. *Quaternary Science Reviews* 21:1777-1791.

Hansen, A.J., R.P. Neilson, V.H. Dale, C.H. Flather, L.R. Iverson, D.J. Currie, S. Shafer, R. Cook and P.J. Bartlein, 2001, Global change in forests: response of species, communities and biomes. *BioScience* 51:765779.

Shafer, S.L., P.J. Bartlein, and R.S. Thompson, 2001, Potential changes in the distributions of Western North America tree and shrub taxa under future climate scenarios. *Ecosystems* 4:200-215.

Edwards, M.E., C.J. Mock, B.P. Finney, V. Barber and P.J. Bartlein, 2001, Potential analogues for paleoclimatic variations in eastern interior Alaska for the past 14,000 years: atmospheric-circulation controls of regional temperature and moisture responses, *Quaternary Science Reviews*. 20:189-202

Whitlock, C., P.J. Bartlein, V. Markgraf and A.C. Ashworth, 2001, The mid-latitudes of North and South America during the Last Glacial Maximum and Early Holocene: similar paleoclimatic sequences despite differing large-scale controls. In V. Markgraf ed. *Interhemispheric Climate Linkages: Present and Past Interhemispheric Climate Linkages in the Americas and their Societal Effects*. Academic Press. pp. 391-416.

Thompson, R.S., K.H. Anderson and P.J. Bartlein, 2000, *Atlas of relations between climatic parameters and distributions of important trees and shrubs in North America—introduction and conifers*. U.S. Geological Survey Professional Paper 1650-A, 269 p.

Thompson, R.S., K.H. Anderson and P.J. Bartlein, 2000, *Atlas of relations between climatic parameters and distributions of important trees and shrubs in North America—hardwoods*. U.S. Geological Survey Professional Paper 1650-B, 432 p.

Thompson, R.S., K.H. Anderson, P.J. Bartlein, and S.A. Smith, 2000, *Atlas of relations between climatic parameters and distributions of important trees and shrubs in North America—additional conifers, hardwoods, and monocots*. U.S. Geological Survey Professional Paper 1650-C, 386 p.

de Noblet, N., P. Bartlein and C. Bonfils, and PMIP Participants, 2000, Simulated and observed changes in the extratropics during the mid-Holocene. Proceedings of the Third Palaeoclimatic Modelling Intercomparison Project Workshop, World Climate Research Program Report 111. pp. 69-76

Williams, J.W., P.J. Bartlein and T. Webb III, 2000, Data-model comparisons for eastern North America—*inferred biomes and climate values from pollen data*. Proceedings of the Third Palaeoclimatic Modelling Intercomparison Project Workshop, World Climate Research Program Report 111. pp. 77-86.

Hostetler, S.W., P.J. Bartlein, P.U. Clark, E.E. Small, and A.M. Solomon, 2000, Simulated influence of Lake Agassiz on the climate of central North America 11,000 years ago. *Nature* 405:334-337.

Williams, J.W., T. Webb III, B.N. Shuman and P.J. Bartlein, 2000, Do low CO₂ concentrations affect pollen-based reconstructions of LGM climates? *Quaternary Research* 53:402-404.

Millspaugh, S.H., C. Whitlock and P.J. Bartlein, 2000, Variations in fire frequency and climate over the last 17,000 years in Central Yellowstone National Park. *Geology* 28:211-214.

Whitlock, C., A.M. Sarna-Wojcicki, P.J. Bartlein, and R.J. Nickmann, 2000, Environmental history of the southwestern Columbia basin. *Palaeogeography, Palaeoclimatology, Palaeoecology* 155:7-29.

Hostetler, S.W., and P.J. Bartlein, 1999, Response of Regional Climate and Surface Processes in Western North America to a Canonical Heinrich Event. in P.U. Clark, R.S. Webb and L.D. Keigwin, eds., *Mechanisms of Global Climate Change at Millennial Time Scales*, American Geophysical Union, pp. 313-327.

The PALE Beringian Working Group, 1999, Paleoenvironmental atlas of Beringia presented in electronic form. *Quaternary Research* 52:270-271.

Farrera, I., S. P. Harrison, I. C. Prentice, G. Ramstein, J. Guiot, P. J. Bartlein, R. Bonnefille, M. Bush, W. Cramer, U. von Grafenstein, K. Holmgren, H. Hooghiemstra, G. Hope, D. Jolly, S.-E. Lauritzen, Y. Ono, S. Pinot, M. Stute, G. Yu, 1999, Tropical climates at the Last Glacial Maximum: a new synthesis of terrestrial palaeoclimate data. I. Vegetation, lake-levels and geochemistry. *Climate Dynamics* 15:823-856.

Thompson, R.S., K.H. Anderson and P.J. Bartlein, 1999, Quantitative paleoclimatic reconstructions from Late Pleistocene plant macrofossils of the Yucca Mountain region. *U.S. Geological Survey Open-File Report 99-338*, 38 p.

Joussaume, S., K.E Taylor, P Braconnot, J.F.B Mitchell, J.E Kutzbach, S.P. Harrison, I.C. Prentice, A.J Broccoli, A. Abe-Ouchi, P.J. Bartlein, C. Bonfils, B. Dong, J. Guiot, K. Herterich, C.D. Hewitt, D. Jolly, J.W Kim, A. Kislov, A. Kitoh, M.F. Loutre, V. Masson, B. McAvaney, N. McFarlane, N. de Noblet, W.R. Peltier, J.Y. Peterschmitt, D. Pollard, D. Rind, J.F. Royer, M.E. Schlesinger, J. Syktus, S. Thompson, 1999 Monsoon changes for 6000 years ago: Results of 18 simulations from the Paleoclimate Modeling Intercomparison Project (PMIP). *Geophysical Research Letters* 26:859-862

Hostetler, S.W., P.U. Clark, P.J. Bartlein, A.C. Mix and N.G. Pisias, 1999, Mechanisms for the global transmission and registration of North Atlantic Heinrich events. *Journal of Geophysical Research* 104(D4): 3947-3953.

Long, C.J., C. Whitlock, P.J. Bartlein and S.H. Millspaugh, 1998, A 9000-year fire history from the Oregon Coast Range, based on a high-resolution charcoal study. *Canadian J. Forest Res.* 28:774-787.

Thompson, R.S., S.W. Hostetler, P.J. Bartlein and K.H. Anderson, 1998, A strategy for assessing potential future changes in climate, hydrology, and vegetation in the Western United States. *U.S. Geological Survey Circular 1153*, 20 p.

Mock, C.J., P.J. Bartlein and P.M. Anderson, 1998, Atmospheric circulation patterns and spatial climatic variations in Beringia. *International Journal of Climatology* 18: 1085-1104

Bartlein, P.J., K.H. Anderson, P.M. Anderson, M.E. Edwards, C.J. Mock, R.S. Thompson, R.S. Webb, T. Webb III, and C. Whitlock, 1998, Paleoclimate simulations for North America over the past 21,000 years: features of the simulated climate and comparisons with paleoenvironmental data. *Quaternary Science Reviews* 17:549-585.

Webb, T. III, K.H. Anderson, P.J. Bartlein and R.S. Webb, 1998, Late Quaternary climate change in eastern North America: a comparison of pollen-derived estimates with climate model results. *Quaternary Science Reviews* 17:587-606.

Bartlein, P.J., L. Bengtsson, S.P. Harrison, S. Hostetler, K. Hsü, B. Qin, and J. Vassilev, 1998, Modelling lake behavior: How can we use mechanistic models to further our understanding of the response of lake to climate change? *Paläoklimaforschung: Bd. 25*, Jena, Stuttgart, pp. 169-177.

Whitlock, C., and P.J. Bartlein, 1997, Vegetation and climate change in northwest America during the past 125 kyr. *Nature* 388:57-61.

Gresswell, R.E., W.J. Liss, G.L. Larson and P.J. Bartlein, 1997, Influence of basin-scale physical variables on life history characteristics of Cutthroat Trout in Yellowstone Lake. *North American J. Fisheries Management* 17:1046-1064.

Bartlein, P.J., C. Whitlock and S.L. Shafer, 1997, Future climate in the Yellowstone National Park region and its potential impact on vegetation. *Conservation Biology* 11:782-792.

Bartlein, P.J., 1997, Past environmental changes: characteristic features of Quaternary climate variations. in B. Huntley, W. Cramer, A.V. Morgan, H.C. Prentice and J.R.M. Allen, eds., *Past and Future Rapid Environmental Changes: The Spatial and Evolutionary Responses of Terrestrial Biota*, Springer-Verlag, Berlin, pp. 11-29.

TEMPO Members, 1996, Potential role of vegetation feedback in the climate sensitivity of high-latitude regions: a case study at 6000 years B.P. *Global Biogeochemical Cycles* 10:727-736.

Mock C.J. and Bartlein P.J., 1995, Spatial variability of Late-Quaternary palaeoclimates in the western United States. *Quaternary Research* 44:425-433

Bartlein, P.J., M.E. Edwards, S.L. Shafer and E.D. Barker, Jr., 1995, Calibration of radiocarbon ages and the interpretation of paleoenvironmental records. *Quaternary Research* 44:417-424.

Clark P.U. and P.J. Bartlein, 1995, Correlation of late Pleistocene glaciation in the western United States with North Atlantic Heinrich events. *Geology* 23:483-486.

Clark, P.U., D.R. MacAyeal, J.T. Andrews and P.J. Bartlein, 1995, Ice sheets play important role in climate change. *Eos* 76:265-267.

Whitlock, C., P.J. Bartlein and K.J. Van Norman, 1995, Stability of Holocene climate regimes in the Yellowstone region. *Quaternary Research*, 43:433-436.

Vassiljev, J., S.P. Harrison, S. Hostetler and P.J. Bartlein, 1994, Simulation of the long-term thermal characteristics of three Estonian lakes, *Journal of Hydrology* 163:107-123.

Anderson, P.M., P.J. Bartlein and L.B. Brubaker, 1994, An early Wisconsin to present history of tundra vegetation in northwestern Alaska (U.S.A.), *Quaternary Research* 41:306-315.

Hostetler, S.W., F. Giorgi, G.T. Bates and P.J. Bartlein, 1994, The role of lake-atmosphere feedbacks in sustaining paleolakes Bonneville and Lahontan 18,000 years ago. *Science* 263:665-668.

Bartlein, P.J., 1994, The forward-modeling approach in paleoclimatic analysis: Middle-Pliocene vegetation distributions in North America, in R.S. Thompson, ed., *Pliocene Terrestrial Environments and Data/Model Comparisons*, U.S. Geological Survey Open-File Report 94-23, Reston, Virginia, U.S. Dept. Interior, U.S. Geological Survey, pp. 73-89.

Hostetler, S. W., Giorgi, F., Bates, G. T., Bartlein, P. J., and Thompson, R. S. 1994, Use of a high-resolution atmospheric model for simulations of paleoclimate, in R.S. Thompson, ed., *Pliocene Terrestrial Environments and Data/Model Comparisons*, U.S. Geological Survey Open-File Report 94-23, Reston, Virginia, U.S. Dept. Interior, U.S. Geological Survey pp. 71-72.

Prentice, I.C., M.T. Sykes, M. Lautenschlager, S.P. Harrison, O. Denissenko and P.J. Bartlein, 1993, Modelling the increase in terrestrial carbon storage after the last glacial maximum, *Global Ecology and Biogeography Letters* 3:67-76.

Wright, H.E. Jr., J.E. Kutzbach, T. Webb III, W.F. Ruddiman, F.A. Street-Perrott and P.J. Bartlein, eds., 1993, *Global Climates Since the Last Glacial Maximum*, Minneapolis, University of Minnesota Press, 569 p.

Webb, T. III, P.J. Bartlein, S.P. Harrison and K.H. Anderson, 1993, Vegetation, lake-levels and climate in Eastern North America, Ch. 17 in *Global Climates Since the Last Glacial Maximum* (H.E. Wright, Jr and others, eds.), Minneapolis, University of Minnesota Press, pp. 415-467.

Thompson, R.S., C. Whitlock, S.P. Harrison, W.G. Spaulding and P.J. Bartlein, 1993, Vegetation, lake-levels and climate in the Western United States, Ch. 18 in *Global Climates Since the Last Glacial Maximum* (H.E. Wright, Jr and others, eds.), Minneapolis, University of Minnesota Press, pp. 468-513.

Webb, T., III, J.E. Kutzbach, W.F. Ruddiman, F.A. Street-Perrott, V. Markgraf, P.J. Bartlein, H.E. Wright, Jr. and W.L. Prell, 1993, Climatic changes during the past 18,000 years: regional syntheses, mechanisms, and causes, Ch. 19 in *Global Climates Since the Last Glacial Maximum* (H.E. Wright, Jr and others, eds.), Minneapolis, University of Minnesota Press, pp. 514-535.

Kutzbach, J.E., P.J. Bartlein, I.C. Prentice, W.F. Ruddiman, F.A. Street-Perrott, T. Webb III and H.E. Wright, Jr., 1993, Epilogue, Ch. 20 in *Global Climates Since the Last Glacial Maximum* (H.E. Wright, Jr. and others, eds.), Minneapolis, University of Minnesota Press, 536-542.

Whitlock, C. and P.J. Bartlein, 1993, Spatial variations of Holocene climatic change in the Northern Rocky Mountain Region, *Quaternary Research* 39:231-238.

Bartlein, P.J. and C. Whitlock, 1993, Paleoclimatic interpretation of the Elk Lake pollen record, in *Elk Lake Minnesota: Evidence for Rapid Climate Change in the North-Central United States*, (J.P. Bradbury and W.E. Dean, eds.), Geological Society of America Special Paper 276, pp. 275-293.

Whitlock, C., P.J. Bartlein and W.A. Watts, 1993, The vegetation history of Elk Lake, in *Elk Lake Minnesota: Evidence for Rapid Climate Change in the North-Central United States*, (J.P. Bradbury and W.E. Dean, eds.), Geological Society of America Special Paper 276, pp. 251-274.

Solomon, A.M. and P.J. Bartlein, 1992, Past and future climate change: response by mixed deciduous-coniferous forest ecosystems in Northern Michigan, *Canadian Journal of Forest Research* 22:1727-1738.

Wright, H.E., Jr. and P.J. Bartlein, 1993, Reflections on COHMAP, *The Holocene* 3:89-92.

Bartlein, P.J., T. Webb III and Steven W. Hostetler, 1992, Climatology, Ch. 5, in *Techniques for Determining the Probabilities of Geological Events and Processes*, (R.L. Hunter and J. Mann, eds.), International Association for Mathematical Geology, Studies in Mathematical Geology, No. 4, Oxford, Oxford University Press, 364 p..

Webb, T., III and P.J. Bartlein, 1992, Global changes during the last 3 million years: climatic controls and biotic responses, *Annual Reviews of Ecology and Systematics* 23:141-173.

Harrison, S.P., I.C. Prentice and P.J. Bartlein, 1992, Influence of insolation and glaciation on atmospheric circulation in the North Atlantic sector: implications of general circulation model experiments for the Late Quaternary climatology of Europe, *Quaternary Science Reviews* 11:283-299.

Harrison, S.P., I.C. Prentice and P.J. Bartlein, 1991, What climate models can tell us about the Holocene palaeoclimates of Europe, in B. Frenzel, ed., *Evaluation of Climate Proxy Data in Relation to the European Holocene*, *Paläoklimaforschung: Bd. 6*, Jena, Stuttgart, pp. 285-299.

Bartlein, P.J., P.M. Anderson, M.E. Edwards and P.F. McDowell, 1991, A framework for interpreting paleoclimatic variations in eastern Beringia, *Quaternary International* 10-12:73-83

Prentice, I.C., P.J. Bartlein and T. Webb III, 1991, Vegetation and climate change in eastern North America since the last glacial maximum. *Ecology* 72:2038-2056.

Anderson, P.M., P.J. Bartlein, L.B. Brubaker, K. Gajewski and J.C. Ritchie, 1991, Vegetation-pollen-climate relationships for the Arcto-Boreal region of North America and Greenland, *J. Biogeography* 18:565-582.

Overpeck, J.T., P.J. Bartlein and T. Webb III, 1991, Potential magnitude of future vegetation change in Eastern North America: comparisons with the past, *Science* 254:692-695.

McDowell, P.F., T. Webb III and P.J. Bartlein, 1991, Long-term environmental change, in *Earth as Transformed by Human Action* (B.L. Turner II and others, eds.), Cambridge University Press.

Anderson, D., J. Andrews, A. Arquit, P. Bartlein, J.-C. Duplessy, S. Harrison, B. Huntley, L. Keigwin, J. Kutzbach, C. Lorius, S. Manabe, V. Markgraf, P. McDowell, M. McGlone, H. Oeschger, D. Oppo, W. Ruddiman, U. Seigenthaler and L. Thompson, 1991, Major perturbations of the hydrosphere-atmosphere-biosphere system, in *Global Changes of the Past* (R.S. Bradley, ed.), Boulder, University Corporation for Atmospheric Research, pp. 43-59.

Hostetler, S.W. and P.J. Bartlein, 1990, Simulation of lake evaporation using an energy balance-eddy diffusion model of lake temperature and hydroclimate: application to modelling lake-level variations at Harney-Malheur Lake, Oregon, *Water Resources Research* 26:2603-2612.

Anderson, P.M., P.J. Bartlein, L.B. Brubaker, K. Gajewski and J.C. Ritchie, 1989, Modern analogues of Late-Quaternary pollen spectra from the western interior of North America, *J. Biogeography* 16:573-596.

Huntley, B., P.J. Bartlein and I.C. Prentice, 1989, Climatic control of the distribution and abundance of beech (*Fagus*) in Europe and North America, *J. Biogeography* 16:551-560.

Bartlein, P.J. and I.C. Prentice, 1989, Orbital variations, climate and paleoecology, *Trends in Ecology and Evolution* 4:195-199.

COHMAP Members, 1988, Climatic changes of the last 18,000 years: observations and model simulations, *Science* 241:1043-1052.

Overpeck, J.T. and P.J. Bartlein, 1988, Assessing the response of vegetation to future climate change: ecological response surfaces and paleoecological model validation, in *The Potential Effects of Global Climate Change on the United States* (J.B. Smith and D.A. Tirpak, eds.), Office of Policy, Planning, and Evaluation, U.S. Environmental Protection Agency, Appendix D, pp. 1-1 - 1-32.

Webb, T. III and P.J. Bartlein, 1988, Late Quaternary climatic change in eastern North America: the role of modeling experiments and empirical studies, in *Late Pleistocene and Early Holocene Paleocology and Archaeology of the Eastern Great Lakes Region* (Laub, R.S., N.G. Miller and D.W. Steadman, eds.), Bulletin of the Buffalo Society of Natural Sciences 33:3-13.

Bartlein, P.J., 1988, Late-Tertiary and Quaternary climatic changes, in *Vegetation History*, (B. Huntley and T. Webb III, eds.), Handbook of Vegetation Science, v. 7: Amsterdam, Kluwer Academic Publishers, pp. 113-152.

Webb, T. III, P.J. Bartlein and J.E. Kutzbach, 1987, Climatic change in eastern North America during the past 18,000 years; Comparisons of pollen data with model results, in *North America and Adjacent Oceans during the Last Deglaciation*, (W.F. Ruddiman and H.E. Wright, Jr., eds.), Geology of North America v. K-3: Boulder, Geological Society of America, pp. 447-462.

Barnosky, C.W., P.M. Anderson and P.J. Bartlein, 1987, The northwestern U.S. during deglaciation; Vegetational history and paleoclimatic implications, in *North America and Adjacent Oceans during the Last Deglaciation*, (W.F.

Ruddiman and H.E. Wright, Jr., eds.), *Geology of North America v. K-3*: Boulder, Geological Society of America, pp. 289-321.

Bartlein, P.J., I.C. Prentice, and T. Webb III, 1986, Climatic response surfaces from pollen data for some eastern North American taxa, *J. Biogeography*, 13:35-57.

Bartlein, P.J. and T. Webb III, 1985, Mean July temperature at 6000 yr B.P. in eastern North America: regression equations for estimates from fossil-pollen data, *Syllogeus*, 55:301-342, (Climate Change in Canada 5).

Bartlein, P.J., T. Webb III, and E.C. Fleri, 1984, Holocene climatic change in the northern Midwest: pollen-derived estimates, *Quaternary Research*, 22:361-374.

Bartlein, P.J. and T. Webb III, 1982, Holocene climatic changes estimated from pollen data for the northern Midwest, in *Quaternary History of the Driftless Area*, (J.C. Knox, L. Clayton, and D.M. Mickelson, eds.), Wisconsin Geological and Natural History Survey, Madison, pp. 67-81.

Bartlein, P.J., 1982, Streamflow anomaly patterns in the U.S.A. and southern Canada -- 1951-1970, *J. Hydrology* 56:49-63.

Bartlein, P.J., 1978, The influence of short-period climatic variations on streamflow in the United States and southern Canada, 1951-1970, Ph.D. dissertation, Department of Geography, University of Wisconsin-Madison, 276 p.

Knox, J.C., P.J. Bartlein, K.K. Hirschboeck and R.J. Muckenhirn, 1975, The response of floods and sediment yields to climatic variation and land use in the Upper Mississippi Valley, Institute for Environmental Studies, University of Wisconsin-Madison, Report 52, 76 p.

Knox, J.C., P.J. Bartlein and W.C. Johnson, 1974, Environmental assessment of sediment sources and sedimentation distribution for the Lake LaFarge watershed and impoundment, Institute for Environmental Studies, University of Wisconsin-Madison, Report 28, pp. 77-116.