

## CURRICULUM VITAE

1. Name: **Thompson Webb III**  
Position: Professor emeritus  
Academic Department: Geological Sciences  
Date of Birth: January 13, 1944  
Marital Status: Married, 2 children (b. 1970, 1972), 1 grandchild (b. 2000)
  
2. **Addresses**
  - A. Work Address: Department of Geological Sciences,  
Brown University, Providence, RI 02912-1846  
Telephone: 401-863-3128  
Email address: thompson\_webb\_iii@brown.edu
  - B. Home Address: 130 Jacob Street, Seekonk, MA 02771  
Telephone: 508-336-4244
  
3. **Education:**
  - A. Undergraduate degree:  
B.S. (Honors), Swarthmore College (Botany), 1966
  
  - B. Higher degrees:  
Ph.D., Univ. of Wisconsin-Madison (Meteorology), 1971
  
  - C. Ph.D. Dissertation Title:  
The late and postglacial sequence of climatic events in Wisconsin and east-central Minnesota: quantitative estimates derived from fossil pollen spectra by multivariate statistical analysis. 161 pp.
  
4. **Professional appointments:**

I.S.T. Postdoctoral Fellow (Zoology Dept.), University of Michigan, 1970-71.  
Assistant Research Paleoecologist, Great Lakes Research Division, University of Michigan, 1971-72.  
Assistant Professor (Research), Brown University, 1972-75.  
Research Specialist, Center for Climatic Research, University of Wisconsin-Madison, Summer (1973, 1974, 1975).  
Associate Professor, Brown University, 1975-84.  
Visiting Associate Professor, Department of Meteorology, University of Wisconsin-Madison, Summer 1976.  
Visiting Fellow, Clare Hall and Botany School (Subdepartment of Quaternary Studies), University of Cambridge, 1977-78.  
Professor, Brown University, 1984-2005  
Visiting Fellow, Cooperative Institute for Research in Environmental Sciences, University of Colorado, 1988-89.  
Bullard Fellow, Harvard University, 1995-96

Professor emeritus, Brown University, 2006-

## 5. Academic Honors and Awards

- 1) B.A. with Honors, Swarthmore College, 1966
- 2) Elected to membership in Sigma Xi, 1966
- 3) Awarded an NSF Postdoctoral Fellowship for 1970-71
- 4) Awarded an I.S.T. (Univ. of Michigan) Postdoctoral Fellowship for 1970-71
- 5) Elected as a Visiting Fellow at Clare Hall, University of Cambridge for 1977-78
- 6) CIRES Fellowship, Visiting Professor, University of Colorado, Boulder, 1988-89
- 7) Elected as a Fellow of AAAS, 1991
- 8) Selected to give the Oosting Memorial Lecture at Duke University, April, 1994
- 9) Bullard Fellowship, Harvard University, 1995-6
- 10) Listed in Who's Who in America, 1996-2000 (4th Generation)
- 11) Selected to give the Case Memorial Lecture in Paleontology, University of Michigan, 1996
- 12) Distinguished Career Award for 2006, American Quaternary Association, 2006

## 6. Publications

### A. Books/monographs, edited volumes:

- 1) Delcourt, P. A., H. R. Delcourt, and T. Webb III. 1984. *Atlas of paired isophyte and isopoll maps for important eastern North American tree taxa*. The American Association of Stratigraphic Palynologists, Inc., Contribution Series No. 14, 131 pp.
- 2) Webb, T., III and J.-M. Dubois (eds.). 1985. Tendances climatiques l'Holocène en Amérique du Nord. *Géographie physique et Quaternaire* 39, no. 2:113-226.
- 3) Webb, T., III. 1985. *A Global Paleoclimatic Data Base for 6000 yr B.P.* Final Report for DOE Contract DE-AC02-79EV10097, TRO18, Carbon Dioxide Research Division, Office of Basic Energy Sciences, Office of Energy Research, U.S. Dept. of Energy, Washington, D.C. (available from N.T.I.S., Springfield, VA 22161). 155 pp.
- 4) Huntley, B. and T. Webb III (eds.) 1988. *Vegetation History*. Vol. 7 in Handbook of Vegetation Science. Kluwer Academic Publ., Dordrecht, The Netherlands, (803 p.).
- 5) 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*. Univ. of Minnesota Press, Minneapolis. (569 p.).
- 6) Webb, T., III (ed.) 1998. Late Quaternary Climates: Data Syntheses and Model Experiments. *Quaternary Science Reviews* 17, Nos. 6-7: 465-688.
- 7) Williams, J. W., B. Shuman, P. J. Bartlein, J. Whitmore, K. Gajewski, M. Sawada, T. Minckley, S. Shafer, A. E. Viau, T. Webb, III, P. M. Anderson, L. B. Brubaker, C. Whitlock, and O. K. Davis. 2006. *An Atlas of Pollen-Vegetation-Climate Relationships for the United States and Canada*. American Association of Stratigraphic Palynologists Foundation, Dallas, TX. 293 pp.

**B. Journal Articles and Book Chapters (peer-reviewed):**

- 1) Webb, T., III, and R. A. Bryson, 1972. Late- and post-glacial climatic change in the northern Midwest, U.S.A.: quantitative estimates derived from fossil pollen spectra by multivariate statistical analysis. *Quaternary Research* 2:70-115.
- 2) Davis, M. B., L. B. Brubaker, and T. Webb III. 1973. Calibration of absolute pollen influx. pp. 9-25. In Birks, H. J. B. and R. G. West (eds.). *Quaternary Plant Ecology*. Blackwells Scientific Publ., Oxford.
- 3) Webb, T., III. 1973. Pre- and post-settlement pollen from a short core, Blackhawk Lake, west-central Iowa. *Proceedings of the Iowa Academy of Science* 80:41-44.
- 4) Webb, T., III. 1973. Pre- and post-settlement pollen from a short core, Trout Lake, north-central Wisconsin. *Wisconsin Academy of Sciences, Arts, and Letters, Transactions* 61:141-148.
- 5) Webb, T., III. 1973. A comparison of modern and pre-settlement pollen in southern Michigan (U.S.A.). *Review of Palaeobotany and Palynology* 16:137-156.
- 6) Webb, T., III. 1974. Corresponding distributions of modern pollen and vegetation in lower Michigan. *Ecology* 55:17-28.
- 7) Webb, T., III. 1974. A vegetational history from northern Wisconsin: evidence from modern and fossil pollen. *American Midland Naturalist* 92: 12-34.
- 8) Webb, T., III. 1974. The pollen-vegetation relationship in southern Michigan: an application of isopolls and principal component analysis. *Geoscience and Man* 9:7-14.
- 9) Davis, R. B., and T. Webb III. 1975. The contemporary distribution of pollen from eastern North America: a comparison with the vegetation. *Quaternary Research* 5:395-434.
- 10) Birks, H. J. B., T. Webb III, and A. A. Berti. 1975. Numerical analysis of surface pollen samples from central Canada: a comparison of methods. *Review of Palaeobotany and Palynology* 20: 133-169.
- 11) Webb, T., III, and J. H. McAndrews. 1976. Corresponding patterns of contemporary pollen and vegetation in central North America. *Geological Society of America Memoir* 145:267-299.
- 12) Webb, T., III, and D. R. Clark. 1977. Calibrating micropaleontological data in climatic terms: a critical review. *Annals of the New York Academy Sciences* 288:93-118.
- 13) Bernabo, J. C., and T. Webb III. 1977. Changing patterns in the Holocene pollen record from northeastern North America: a mapped summary. *Quaternary Research* 8:64-96.
- 14) Sachs, H. M., T. Webb III, and D. R. Clark. 1977. Paleocological transfer functions. *Annual Review of Earth and Planetary Sciences* 5:159-178.
- 15) Webb, T., III, and J. C. Bernabo. 1977. The contemporary distribution and Holocene stratigraphy of pollen types in eastern North America. In Elsik, W. C. (ed.). *Contributions of Stratigraphic Palynology, Vol. 1, Cenozoic Palynology*, The American Association of Stratigraphic Palynologists, Inc., Contribution Series 5A:130-146.
- 16) Howe, S., and T. Webb III. 1977. Testing the statistical assumptions of

- paleoclimatic calibration functions. *Preprint Volume Fifth Conference on Probability and Statistics in Atmospheric Sciences*, American Meteorological Society, Boston, pp. 152-157.
- 17) Webb, T., III, G. Y. Yeracaris, and P. Richard. 1978. Mapped patterns in sediment samples of modern pollen from southeastern Canada and northeastern United States. *Geographie physique et Quaternaire* 32:163-176.
  - 18) Webb, T., III, R. A. Lasleski, and J. C. Bernabo. 1978. Sensing vegetation with pollen data: control of the signal-to-noise ratio. *Ecology* 59:1151-1163.
  - 19) Peterson, G. M., T. Webb III, J. E. Kutzbach, T. van der Hammen, T. A. Wijmstra, and F. A. Street. 1979. The continental record of environmental conditions at 18,000 B.P.: an initial evaluation. *Quaternary Research* 12:47-82.
  - 20) Van Zant, K. L., T. Webb III, G. M. Peterson, and R.G. Baker. 1979. Increased Cannabis/Humulus pollen, an indicator of European settlement in Iowa. *Palynology* 3:227-233.
  - 21) Barry, R. B., A. D. Hecht, J. E. Kutzbach, W. D. Sellers, T. Webb III, and P. B. Wright. 1979. Climatic change. *Reviews of Geophysics and Space Physics* 17:1803-1813.
  - 22) Webb, T., III. 1980. Reconstructing climatic sequences from botanical data. *Journal of Interdisciplinary History* 10:749-772.
  - 23) Webb, T., III, S. E. Howe, R. H. W. Bradshaw, and K.M. Heide. 1981. Estimating plant abundances from pollen data: the use of regression analysis. *Review of Palaeobotany and Palynology* 34:269-300.
  - 24) Webb, T., III. 1981. 11,000 years of vegetational change in eastern North America. *Bioscience* 31:501-506.
  - 25) Webb, T., III, and G. Y. Yeracaris. 1981. Comparison of patterns in pollen data from southeastern Canada and northeastern United States. *IV International Palynological Conference, Lucknow (1976-77)* 3:173-187.
  - 26) Imbrie, J., and T. Webb III. 1981. Transfer functions: calibrating micropaleontological data in climatic terms. In Berger, A. (ed.). *Climatic Variations and Variability: Facts and Theories*, D. Reidel Publishing Co., pp. 125-134.
  - 27) Imbrie, J., and T. Webb III. 1981. 13. Session 12. Paleoclimate reconstruction: diagnostics and modeling -- II. p. 1017. In Winston, J. S. (ed.). First Conference on Climate Variations A.M.S., 19-23 January 1981, San Diego, Ca. *Bulletin of the American Meteorological Society* 62:1011-1017.
  - 28) Arigo, R., S. E. Howe, and T. Webb III. 1982. Computer programs for climatic calibration of pollen data: a user's guide. pp. 79-109. In Berglund, B. E. (ed.). *Palaeohydrological Changes in the Temperate Zone in the Last 15,000 Years*, Sub-project B. Lake and Mire Environments. Project Guide. Vol. 3. Specific Methods, Dept. of Quaternary Geology, Lund, Sweden.
  - 29) Webb, T., III. 1982. Temporal resolution in Holocene pollen data. Third North American Paleontological Convention, Proceedings 2:569-572.
  - 30) Webb, T., III. 1983. Calibration of Holocene pollen data in climatic terms. *Quaternary Studies in Poland* 4:107-113.
  - 31) Delcourt, H. R., P. A. Delcourt, and T. Webb III. 1983. Dynamic plant ecology: the spectrum of vegetational change in space and time. *Quaternary Science*

- Reviews* 1:153-175.
- 32) Webb, T., III, E. J. Cushing, and H. E. Wright, Jr. 1983. Holocene changes in the vegetation of the Midwest. pp. 142-165. In Wright, H. E., Jr. (ed.). *Late-Quaternary Environments of the United States, Vol. 2, The Holocene*, University of Minnesota Press, Minneapolis.
  - 33) Webb, T., III, P. J. H. Richard, and R. J. Mott. 1983. A mapped history of Holocene vegetation in southern Quebec. *Syllogeus* 49:273-336.
  - 34) Howe, S. E. and T. Webb III. 1983. Calibrating pollen data in climatic terms: improving the methods. *Quaternary Science Reviews* 2:17-51.
  - 35) 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.
  - 36) Webb, T., III. 1984. Letter to the Editor (on fire history). *Bulletin of the Ecological Society of America* 65:2.
  - 37) Webb, T., III. 1984. A global paleoclimatic database for 6 and 9 ka B.P. *Annals of Glaciology* 5:236-237.
  - 38) Webb, T., III. 1984. Discussion of "Late-Quaternary Vegetational Dynamics and Community Stability Reconsidered." *Quaternary Research* 22:262.
  - 39) 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* No. 55:301-342.
  - 40) Webb, T., III, J. E. Kutzbach, and F. A. Street-Perrott. 1985. 20,000 years of global climatic change: paleoclimatic research plan. In T. F. Malone and J. G. Roederer (eds.). *Global Change*. ICSU Press Symposium Series No. 5. Cambridge University Press, Cambridge, pp. 182-218.
  - 41) Webb, T., III. 1985b. Holocene palynology and climate (Chapter 4). In Hecht, A. D. (ed.). *Paleoclimate Analysis and Modeling*, J. Wiley and Sons, Inc., New York, pp. 163-195.
  - 42) Bradshaw, R. H. W. and T. Webb III. 1985. Relationships between contemporary pollen and vegetation data from Wisconsin and Michigan, U.S.A. *Ecology* 66:721-737.
  - 43) Overpeck, J. T., T. Webb III, and I. C. Prentice. 1985. Quantitative interpretation of fossil pollen spectra: dissimilarity coefficients and the method of modern analogs for pollen data. *Quaternary Research* 23:87-108.
  - 44) Gaudreau, D. C. and T. Webb III. 1985. Late-Quaternary pollen stratigraphy and isochrone maps for the northeastern United States. In Bryant, V.M., Jr. and Holloway, R. G. (eds.). *Pollen Records of Late-Quaternary North American Sediments*, American Association of Stratigraphic Palynologists, pp. 247-280.
  - 45) Webb, T., III and T. M. L. Wigley. 1985. What past climates can tell about a warmer world. Chapter 7. In MacCracken, M. C. and Luther, F. M. (eds.). *DOE State of the Art Report: Projecting the Climatic Effects of Increasing Carbon Dioxide*, Department of Energy, Washington, D.C., pp. 235-257.
  - 46) Solomon, A. M. and T. Webb III. 1985. Computer-aided reconstruction of late-Quaternary landscape dynamics. *Annual Review of Ecology and Systematics* 16:63-84.
  - 47) Webb, T., III and J.-M. Dubois. 1985. Presentation for Special Issue on the Holocene climatic trends in North America. *Geographie physique et Quaternaire*

- 39:113.
- 48) Arigo, R., S. E. Howe, and T. Webb III. 1986. Climatic calibration of pollen data: an example and annotated computing instructions. Chapter 40. In Berglund, B. E. (ed.). *Handbook on Palaeoecology and Palaeohydrology*. J. Wiley and Sons Ltd. Publishers, London, pp. 817-849.
  - 49) Bartlein, P. J., I. C. Prentice, and T. Webb III. 1986. Climatic response surfaces based on pollen from some eastern North America taxa. *Journal of Biogeography* 13:35-57.
  - 50) Clark, J. S., J. T. Overpeck, T. Webb III, and W. A. Patterson III. 1986. Pollen stratigraphic correlation and dating of barrier-beach peat sections. *Review of Palaeobotany and Palynology* 47:145-168.
  - 51) Webb, T., III. 1986. Is vegetation in equilibrium with climate? How to interpret Late-Quaternary pollen data. *Vegetatio* 67: 75-91.
  - 52) Prentice, I. C. and T. Webb III. 1986. Pollen percentages, tree abundances and the Fagerlind effect: a comparison of vegetational calibration methods for pollen spectra. *Journal of Quaternary Science* 1:35-43.
  - 53) Webb, T., III. 1986. Vegetational change in eastern North America from 18,000 to 500 yr B.P. (C. Rosenzweig and R. Dickinson, eds.), pp. 63-69, *Climate-Vegetation Interactions*. Office for Interdisciplinary Earth Studies, Report OIES-2, UCAR, Boulder, CO.
  - 54) Webb, T., III. 1987. The appearance and disappearance of major vegetational assemblages: long-term vegetational dynamics in eastern North America. *Vegetatio* 69: 177-187.
  - 55) Dexter, F., H. T. Banks, and T. Webb III. 1987. Modeling Holocene changes in the location and abundance of beech populations in eastern North America. *Review of Palaeobotany and Palynology* 50:273-292.
  - 56) Webb, T., III, P. J. Bartlein, and J. E. Kutzbach. 1987. Climatic change in eastern North America during the past 18,000 years: comparison of pollen data with model results. In W. F. Ruddiman and H. E. Wright, Jr. (eds.). *North America and Adjacent Oceans during the Last Deglaciation*, Decade of North American Geology, G.S.A., Boulder, CO, pp. 447-462.
  - 57) Jacobson, G. L., Jr., T. Webb III, and E. C. Grimm. 1987. Patterns and rates of vegetation change during deglaciation of eastern North America. In W. F. Ruddiman and H. E. Wright, Jr. (eds.). *North America and Adjacent Oceans during the Last Deglaciation*, Decade of North American Geology, G.S.A., Boulder, CO, pp. 277-288.
  - 58) Webb, T., III, F. A. Street-Perrott, and J. E. Kutzbach. 1987. Use of Late-Quaternary paleoclimatic data for testing climate models. *Episodes* 10:4-6.
  - 59) Webb, T., III and P. J. Bartlein. 1988. Late Quaternary climatic change in eastern North America: the role of modeling experiments and empirical studies. *Bulletin of the Buffalo Society of Natural Sciences* 33: 3-13.
  - 60) Webb, T., III. 1988. Spatial scale and plant species richness. *Trends in Ecology and Evolution* 3: 54-55.
  - 61) Webb, T., III. 1988. Eastern North America. In B. Huntley and T. Webb III (eds.) *Vegetation History*. Vol. VII in *Handbook of Vegetation Science*, Kluwer Academic Publ., Dordrecht, The Netherlands, pp. 385-414.

- 62) Huntley, B. and T. Webb III. 1988. Introduction. In B. Huntley and T. Webb III (eds.) *Vegetation History*. Vol. VII in Handbook of Vegetation Science, Kluwer Academic Publ., Dordrecht, The Netherlands, pp. xv-xx
- 63) Huntley, B. and T. Webb III. 1988. Discussion. In B. Huntley and T. Webb III (eds.) *Vegetation History*. Vol. VII in Handbook of Vegetation Science, Kluwer Academic Publ., Dordrecht, The Netherlands, pp. 779-785.
- 64) Webb, T., III. 1988. Response to Bennett's reply concerning the modeling of Holocene changes in beech populations. *Review of Palaeobotany and Palynology* 56: 362-364.
- 65) COHMAP Members. 1988. Climatic changes of the last 18,000 years: observations and model simulations. *Science* 241: 1043-1052.
- 66) Webb, R. S. and T. Webb III. 1988. Rates of sediment accumulation of small lakes and bogs in eastern North America. *Quaternary Research* 30: 284-297.
- 67) Webb, T., III. 1988. Vegetational change in eastern North America from 18,000 to 500 BP. in H. Ouellet (ed.) *Acta XIX Congressus Internationalis Ornithologici*, University of Ottawa Press, Ottawa, Canada, pp. 1050-1060.
- 68) Hunter, M.L., Jr., G.L. Jacobson, Jr., and T. Webb III. 1988. Paleoecology and coarse-filter approach to maintaining biological diversity. *Conservation Biology* 2: 375-385.
- 69) Huntley, B. and T. Webb III. 1989. Migration: species' response to climatic variations caused by changes in the earth's orbit. *Journal of Biogeography* 16: 5-19.
- 70) Johnson, W.C. and T. Webb III. 1989. The role of blue jays in the postglacial dispersal of Fagaceous trees in eastern North America. *Journal of Biogeography* 16: 561-571.
- 71) Gaudreau, D.C., S.T. Jackson, and T. Webb III. 1989. The use of pollen data to record vegetation patterns in regions of moderate to high relief. *Acta Botanica Nederl.* 38: 369-390.
- 72) Matthews, R., Anderson, D., Chen, R.S., and Webb, T. 1990. Global climate and the origins of agriculture. In L.F. Newman (general ed.) and W. Crossgrove, R.W. Kates, R. Matthews, and S. Millman (assoc. eds.), *Hunger in History: Food Shortage, Poverty, and Deprivation*, Basil Blackwell, Inc., Cambridge, MA, pp. 27-55.
- 73) McDowell, P. F., T. Webb III, and P. J. Bartlein. 1990 Long-term environmental change. In B. L. Turner II, W.C. Clark, R.W. Kates, J.F. Richards, J.T. Mathews, and W.B. Meyer (eds.) *The Earth Transformed by Human Action*, Cambridge University Press, Cambridge, U.K., pp. 143-162.
- 74) Webb, T., III. 1990. Paleovegetation changes: implications for the future. *Preprint Volume for Global Change Symposium*, American Meteorological Society, Boston, MA, pp. 68-73.
- 75) Prentice, I.C., P.J Bartlein, and T. Webb III. 1991. Vegetational climate change in eastern North America since the last glacial maximum. *Ecology* 72:2038-2056.
- 76) Kutzbach, J.E. and T. Webb III. 1991. Late Quaternary climatic and vegetational change in eastern North America: concepts, models, and data. In L.K. Shane and E.J. Cushing (ed.) *Past Landscapes*. Univ. of Minnesota Press, Minneapolis, pp. 175-217.
- 77) Webb, T., III. 1991. The spectrum of temporal climatic variability: current

- estimates and the need for global and regional time series. In R. Bradley (ed.) *Records of Past Global Change*, Office of Interdisciplinary Earth Studies, Boulder, CO, pp. 61-81.
- 78) Cook, E.R., L.J. Graumlich, P. Martin, J. Pastor, I.C. Prentice, T.R. Swetnam, K. Valentin, M. Verstraete, T. Webb III, J. White, and I. Woodward 1991. Biosphere-climate interactions during the past 18,000 years: towards a global model of terrestrial biosphere. In R. Bradley (ed.) *Records of Past Global Change*, Office of Interdisciplinary Earth Studies, Boulder, CO, pp. 25-42.
- 79) 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* 252: 692-695.
- 80) Knoerr, A.P., T. Webb III, and T.W. Colthurst. 1991. Dynamic visualization of late Quaternary pollen data. In A. M. Keramidas and S. M. Kaufman (eds.) *Computing Science and Statistics: Proceedings of the 23rd Symposium on the Interface*. Interface Foundation of North America Inc., Fairfax Station, VA, pp. 340-343.
- 81) Webb, T., III. 1992. (Contributing author to chapter on) Landscape Dynamics. In J.R. Mather and G.V. Sdasyuk (eds.) *Global Change: Geographical Approaches*. Univ. of Arizona Press, Tucson, pp.18-63.
- 82) Post, W.M., F. Chavez, P.J. Mulholland, J. Pastor, T.-H. Peng, K. Prentice, and T. Webb III. 1992. Climate feedbacks in the global carbon cycle. In D. Dunnette and R. O'Brien, eds., *The Science of Global Change: The Impact of Human Activities on the Environment*. American Chemical Society, Washington, D.C., pp. 392-412.
- 83) Bartlein, P. J. T. Webb III, and S. Hostetler. 1992. Climatology. Chapter 3 in R. L. Hunter and C. J. Mann (eds.). *Techniques for Determining Probabilities of Events and Processes Affecting the Performance of Geologic Repositories*. Oxford University Press, Oxford, pp. 53-88.
- 84) Overpeck, J.T., R.S. Webb, and T. Webb III. 1992. Mapping eastern North American vegetation change over the past 18,000 years: no-analogs and the future. *Geology* 20:1071-1074.
- 85) 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.
- 86) Webb, T., III. 1992. Past changes in vegetation and climate: lessons for the future. In R. Peters and T. Lovejoy (eds.) *Consequences of Global Warming for Biological Diversity*. Yale University Press, New Haven, CT, pp. 59-75.
- 87) Webb, R.S., K.H. Anderson, and T. Webb III. 1993. Pollen response-surface estimates of late-Quaternary changes in the moisture balance of the northeastern United States. *Quaternary Research* 40:213-227.
- 88) Webb, T., III, T.J.Crowley, B. Frenzel, A.-K. Gleimeroth, L. Labeyrie, I.C. Prentice, D. Rind, W.F. Ruddiman, M. Sarnthein, A. Zwick, 1993. Use of paleoclimatic data as analogs for understanding future global changes. In J. Eddy and H. Oeschger (eds.) *Global Changes in the Perspective of the Past*. J. Wiley and Sons Ltd., London, pp. 51-71.
- 89) Webb, T., III., P.J. Bartlein, S.P. Harrison, and K.H. Anderson. 1993. Vegetation, lake level, and climate change in eastern North America. In H.E. Wright, Jr., J.E. Kutzbach, T. Webb III, W.F. Ruddiman, F.A. Street-Perrott, and P.J. Bartlein (eds.)



- Global Climates Since the Last Glacial Maximum*. Univ. of Minnesota Press, Minneapolis, pp. 415-467.
- 90) Webb, T., III, W.F. Ruddiman, F.A. Street-Perrott, V. Markgraf, J.E. Kutzbach, 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. In H.E. Wright, Jr., J.E. Kutzbach, T. Webb III, W.F. Ruddiman, F.A. Street-Perrott, and P.J. Bartlein (eds.) *Global Climates Since the Last Glacial Maximum*. Univ. of Minnesota Press, Minneapolis, pp. 514-535.
- 91) Kutzbach, J.E. and T. Webb III. 1993. Conceptual understanding of climate change. In H.E. Wright Jr., J.E. Kutzbach, T. Webb III, W.F. Ruddiman, F.A. Street-Perrott, and P.J. Bartlein (eds.) *Global Climates Since the Last Glacial Maximum*. Univ. of Minnesota Press, Minneapolis, pp. 5-11.
- 92) 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. In H.E. Wright, Jr., J.E. Kutzbach, T. Webb III, W.F. Ruddiman, F.A. Street-Perrott, and P.J. Bartlein (eds.) *Global Climates Since the Last Glacial Maximum*. Univ. of Minnesota Press, Minneapolis, pp. 536-542.
- 93) Webb, T., III. 1993. Constructing the past from late-Quaternary pollen data: temporal resolution and a zoom lens space-time perspective. In S.M. Kidwell and A.K. Behrensmeyer (eds.). *Taphonomic Approaches to Time Resolution in Fossil Assemblages*. Paleontological Society Short Courses in Paleontology No. 6. University of Tennessee, Knoxville, pp. 79-101.
- 94) Newby, P. and T. Webb III. 1994. Pollen and sediment records from 500 Boylston Street, Boston, MA (Boylston St. Fishweir site) *Quaternary Research* 41: 214-224.
- 95) Felzer, B., R. Oglesby, D. Hyman, and T. Webb III. 1994. Sensitivity of the global climate system to changes in Northern Hemisphere ice sheet size using the NCAR CCM1. *Preprint Volume of the 6th Conference on Climate Variations*, American Meteorological Society, Boston, MA, pp. 202-206.
- 96) Felzer, B., Oglesby, R.J., H. Shao, T. Webb III, D. Hyman, W. L. Prell, and J.E. Kutzbach. 1995. A systematic study of GCM sensitivity to latitudinal changes in solar radiation. *Journal of Climate* 8:877-887.
- 97) Webb, T., III. 1995. Introduction to "Long-term Environmental Change." in T.M. Powell and J.H. Steele (eds.). *Ecological Time Series*. Chapman and Hall, London pp. 327-329.
- 98) Webb, T., III. 1995. Pollen records of late Quaternary vegetation change: plant community rearrangements and evolutionary implications. In Board of Earth Sciences and Resources, National Research Council (eds.) *Effects of Past Global Change on Life*. National Academy Press, pp. 221-232.
- 99) Webb, T., III. 1995. Postglacial magnitudes and rates of vegetation change in eastern North America: implications for the future. In E. Folk, G. Carmichael, and J. Schnoor (eds.). *Preparing for Global Change: A Midwestern Perspective*. SBP Academic Publishing bv, Amsterdam, pp. 155-169.
- 100) Webb, T., III. 1995. Clues to global change: carbon exchange anomalies. *Geotimes* 40:19-20.
- 101) Jackson, S.T., T. Webb III, I.C. Prentice, and J.E. Hansen. 1995. Exploration and calibration of pollen/vegetation relationships: a PC program for the extended R-

- value model. *Review of Palaeobotany and Palynology* 84: 365-374.
- 102) Williams, T.C. and T. Webb III. 1996. Bird migration during the ice ages: constant heading orientation. *Auk* 113:105-118.
- 103) Webb, T., III. 1996. Spatial response of plant taxa to climate change: a palaeoecological perspective. 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, p. 55-71.
- 104) Webb, T., III. 1996. Description and Interpretation of the Pollen Records from late Quaternary Archaeological Sites along the Aldan River in eastern Siberia. In F. H. West ed. *American Beginnings*. Chicago University Press p. 108-110.
- 105) Melillo, J.M., I.C. Prentice, G.D. Farquhar, E.-D. Schulze, O.E. Sala, P.J. Bartlein, T. Webb III et. al. 1996. Terrestrial biotic responses to environmental change and feedbacks to climate. In J.T Houghton, L.G. Meira Filho, B.A. Callander, N. Harris, A. Kattenberg and K. Maskell (eds.) *Climate Change 1995: The Science of Climate Change*. Cambridge University Press, Cambridge, p 445-481.
- 106) Kutzbach, J.E., P.J. Bartlein, J. Foley, S. Harrison, S. Hostetler, Z. Liu, I. C. Prentice, and T. Webb III. 1996. The potential role of vegetation feedback in the climate sensitivity of high-latitude regions: a case study at 6000 years before present. *Global Biogeochemical Cycles* 10:727-736.
- 107) Felzer, B., R. J. Oglesby, T. Webb III, and D. E. Hyman. 1996. Sensitivity of a general circulation model to changes in northern hemisphere ice sheets. *Journal of Geophysical Research- Atmospheres* 101:19,077-19,092.
- 108) Jackson, S.T., J.T. Overpeck, T. Webb III, S. Keattch, and K.H. Anderson. 1997. Mapped plant macrofossil and pollen records of late-Quaternary vegetation change in eastern North America. *Quaternary Science Reviews* 15:1-71.
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- 110) Webb, T., III and J.E. Kutzbach. 1998. An Introduction to "Late Quaternary Climates: Data Syntheses and Model Experiments." *Quaternary Science Reviews*. 17:465-471.
- 111) Williams, J.W., R.L. Summers, and T. Webb III. 1998. Applying plant functional types to construct biome maps from eastern North American pollen data: comparisons with model results. *Quaternary Science Reviews*. 17:607-627.
- 112) Felzer, B., T. Webb III, and R.J. Oglesby. 1998. The impact of ice sheets, CO<sub>2</sub>, and orbital insolation on late Quaternary climates: sensitivity experiments with a general circulation model. *Quaternary Science Reviews* 17:507-534.
- 113) Bartlein, P.J., P.M. Anderson, K.H. Anderson, M.E. Edwards, R.S. Thompson, R.S. Webb, T. Webb III, and C. Whitlock. 1998. Paleoclimate simulations for North America for the past 21,000 years: features of the simulated climate and comparisons with paleoenvironmental data. *Quaternary Science Reviews* 17: 549-585.
- 114) Webb, T., III, K.H. Anderson, R. S. Webb, and P.J. Bartlein. 1998. Late

- Quaternary climate changes in eastern North America: a comparison of pollen-derived estimates with climate model results. *Quaternary Science Reviews* 17:587-606.
- 115) Webb, T., III. 1998. Pleistocene and Recent Climates. In G.A. Good (ed.) *Sciences of the Earth: An Encyclopedia of Events, People, and Phenomena*, Garland Publishing Inc., New York, NY. p. 105-107.
  - 116) Webb, T., III. 1998. Ice Ages. In G.A. Good (ed.) *Sciences of the Earth: An Encyclopedia of Events, People, and Phenomena*, Garland Publishing Inc., New York, NY. p. 445-446.
  - 117) Tarasov, P., T. Webb III et al. 1998. Present-day and mid-Holocene Biomes Reconstructed from Pollen and Plant Macrofossil Data from the Former Soviet Union and Mongolia. *Journal of Biogeography* 25: 1029-1053.
  - 118) Prentice I.C. and T. Webb III. 1998. BIOME 6000: global paleovegetation maps and testing global biome models. *Journal of Biogeography* 25:997-1005.
  - 119) Felzer, B., T. Webb III, and R.J. Oglesby. 1999. Climate model sensitivity changes in boundary conditions during the last glacial maximum. *Paleoclimates* 3: 257-278.
  - 120) Donnelly, J.P., T. Webb III, W.L. Prell. 1999. The influence of accelerated sea-level rise, human modification and storms on a New England salt marsh. *Current Topics in Wetland Biogeochemistry* 3: 152-160.
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  - 122) Jackson S.T, R.S. Webb, K.H. Anderson, J.T. Overpeck, T. Webb III, J.W. Williams, and B.C.S. Hansen. 2000. Vegetation and environment in eastern North America during the last glacial maximum. *Quaternary Science Reviews* 19: 489-508.
  - 123) Webb, T., III. 2000. Exploration of biogeographic databases: zoom lenses, space travel, and scientific imagination. *Journal of Biogeography* 27: 7-9.
  - 124) Murnane, R.J., C. Barton, E. Collins, J. Donnelly, J. Elsner, K. Emanuel, I. Ginis, S. Howard, C. Landsea, K-b. Liu, D. Malmquist, M. McKay, A. Michaels, N. Nelson, J. O'Brien, D. Scott, T. Webb III. 2000. Model Estimates Hurricane Wind Speed Probabilities. *Eos* 81: 433, 438.
  - 125) 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. In P. Braconnot (ed.) *PMIP, 2000: Paleoclimate Modelling Intercomparison Project (PMIP). Proceedings of the Third PMIP workshop, Canada, 4-8 October 1999*. WCRP-111, WMO/TD-No. 1007, pp. 77-86.
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  - 129) Prentice, I.C., D. Jolly, and BIOME 6000 participants (among them, T. Webb III). 2000. Mid-Holocene and glacial-maximum vegetation geography of the northern continents and Africa. *Journal of Biogeography* 27: 507-519.
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  - 131) Webb, T., III 2001. Paleocology. In S. Levine (ed.) *Encyclopedia of Biodiversity*, Vol. 4. Academic Press, New York pp. 451-462.
  - 132) Webb, T., III. 2001. Climate - Quaternary vegetation in D. Briggs (ed.) *Palaeobiology II*. Blackwell Science Ltd., Oxford, UK. 485-486.
  - 133) Donnelly, J.P., S.S. Bryant, J. Butler, J. Dowling, L. Fan, N. Hausmann, P. Newby, B. Shuman, J. Stern, K. Westover, and T. Webb III. 2001. A 700-year sedimentary record of intense hurricane landfalls in southern New England. *Geological Society of America Bulletin* 113: 714-727.
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  - 138) Webb, T., III. 2002. John Imbrie. In M. MacCracken, J. Perry, and J. Fogg. (eds.) *Encyclopedia of Global Change*, Academic Press, London, p. 229.
  - 139) Perry, J. and T. Webb III. 2002. Natural Records of Past Climates. In M. MacCracken, J. Perry, and J. Fogg. (eds.) *Encyclopedia of Global Change*, Academic Press, London, p. 413-423.
  - 140) 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.
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- 147) 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*. 74:309-334.
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- 149) Donnelly, J. P., and T. Webb III. 2004. Backbarrier sedimentary records of intense hurricane landfalls in the northeastern United States: In R. Murnane and K.-b. Liu, (eds.). *Hurricanes and Typhoons: Past Present and Potential*. Columbia University Press p. 58-95.
- 150) Shuman, B., P. Newby, J. Donnelly, A. Tarbox, and T. Webb III. 2005. A record of late-Quaternary moisture-balance change and vegetation response in the White Mountains, New Hampshire. *Annals of the American Association of Geographers* 95 (2): 237-248.
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- 152) Shuman, B, P.J. Bartlein, and T. Webb III. 2005. The relative magnitude of millennial- and orbital-scale climatic change in eastern North America during the Late-Quaternary. *Quaternary Science Reviews* 24: 2194-2206.
- 153) Huang, Y., B. Shuman, Y. Wang, T. Webb III, E. C. Grimm, and G. L. Jacobson, Jr. 2006. Climatic and environmental controls on the variation of C3 and C4 plant abundances in central Florida for the past 62,000 years. *Palaeogeography, Palaeoclimatology, Palaeoecology* 237: 428–435.
- 154) Shuman, B, P.J. Bartlein, and T. Webb III. 2007. Response to “Comments on: ‘The relative 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.
- 155) Webb, T., III. 2008. COHMAP. In V. Gornitz (ed.) *Encyclopedia of Paleoclimatology*. Springer (in press).

- 156) Marchant, R., S. Brewer, T. Webb III, and S.T. Turvey. 2009. Holocene deforestation: a history of human-environmental interactions, climate change and extinction. In S. Turvey (ed.) *Global Extinctions*. Oxford University Press. p. 213-234.
- 157) Williams, J.W., B. Shuman, P.J. Bartlein, N.S. Diffenbaugh, and T. Webb III. 2010. Rapid, time-transgressive, and variable response to early-Holocene midcontinental drying in North America. *Geology* 38:135-138.
- 158) Webb, T., III 2013. Paleoeecology. In S. Levine (ed.) *Encyclopedia of Biodiversity*, Vol. 5. Academic Press, New York pp. 645-655.

## **B. Reports**

- 1) Bryson, R. A., B. Hayden, V. Mitchell, and T. Webb III, 1970. Some aspects of ecological climatology of the Jornada Experimental Range, New Mexico. In Wright, R. G., and G. M. Van Dyne (eds.). Science series No. 6, Colorado State University, Fort Collins, p. 1-2 to 1-74.
- 2) Webb, T., III. 1973. Lake sediments as pollen traps: numbers of pollen reflect the vegetation. pp. 117-128. In Edmonds, R.L. and W.S. Benninghoff (eds.). Proceedings of Workshop Conference II. US/IBP Aerobiology Program Handbook No. 3. University of Michigan, Ann Arbor, Michigan. 186 pp.
- 3) Bartlein, P. J., and T. Webb III. 1982. Holocene climatic changes estimated from pollen data from the northern Midwest. pp. 67-82. In Knox, J. C. (ed.). *Quaternary History of the Driftless Area*, Field Trip Guide Book No. 5, Univ. Wisconsin Extension, Geological and Natural History Survey, Madison.
- 4) Bartlein, P. J. T. Webb III, and S. Hostetler. 1989. Climatology. Chapter 3 in R. L. Hunter and C. J. Mann (eds.). Techniques for Determining Probabilities of Events and Processes Affecting the Performance of Geologic Repositories. NUREG/CR-3964, SAND86-0196, v. 1 Sandia National Laboratories, Albuquerque, NM, pp. 53-88.
- 5) Ad Hoc Committee on Professional Ethics (Webb, T., III, E. Allen, W. Murdock, and W.E. Westman). 1990. The Ecological Society of America Code of Ethics [revised version]. *Bulletin of the Ecological Society of America* 71: 273-275.
- 6) Prentice, I.C. and T. Webb III. 1994. BIOME 6000: Towards a global paleovegetation data set. *Global Change Newsletter* No. 19: 8-9.

## **C. Encyclopedia Entries:** (also included among peer-reviewed articles, above)

- 1) Webb, T., III. 1998. Pleistocene and Recent Climates. In G.A. Good (ed.) *Sciences of the Earth: An Encyclopedia of Events, People, and Phenomena*, Garland Publishing Inc., New York, NY. p. 105-107.
- 2) Webb, T., III. 1998. Ice Ages. In G.A. Good (ed.) *Sciences of the Earth: An Encyclopedia of Events, People, and Phenomena*, Garland Publishing Inc., New York, NY. p. 445-446
- 3) Webb, T., III 2001. Paleoeecology. In S. Levine (ed.) *Encyclopedia of Biodiversity*, Vol. 4. Academic Press, New York pp. 451-462
- 4) Webb, T., III. 2001. Climate - Quaternary vegetation in D. Briggs (ed.)

- Palaeobiology II*. Blackwell Science Ltd., Oxford, UK. 485-486.
- 5) Webb, T., III. 2002. Paleoclimatology. In M. MacCracken, J. Perry, and J. Fogg. (eds.) *Encyclopedia of Global Change*, Academic Press, London p. 25.
  - 6) Webb, T., III. 2002. John Imbrie. In M. MacCracken, J. Perry, and J. Fogg. (eds.) *Encyclopedia of Global Change*, Academic Press, London, p. 229.
  - 7) Perry, J. and T. Webb III. 2002. Natural Records of Past Climates. In M. MacCracken, J. Perry, and J. Fogg. (eds.) *Encyclopedia of Global Change*, Academic Press, London, p. 413-423.
  - 8) Webb, T., III. 2008. COHMAP. In V. Gornitz (ed.) *Encyclopedia of Paleoclimatology*. Springer (in press).
  - 9) Webb, T., III 2013. Paleoeology. In S. Levine (ed.) *Encyclopedia of Biodiversity*, Vol. 5. Academic Press, New York pp. 645-655.

#### **D. Book Reviews:**

- 1) Review of *Tree Rings and Climate*. (H.C. Fritts) in *Science*. 1977. v. 197: 361.
- 2) Review of *British Quaternary Studies: Recent Advances*. (R.W. Shotton, ed.) in *Nature*. 1978. v. 273: 411.
- 3) Review of *Quaternary Palaeoecology*. (H.J.B. Birks and H.H. Birks) in *Quaternary Science Reviews*. 1982. v. 1: i-ii.
- 4) Review of *Geobotany II*. (R. Romans, ed.) in *American Scientist*. 1982. v. 70: 647.
- 5) Review of *Climate from Tree Rings*. (M.K. Hughes, P.M. Kelly, J.R. Pilcher, V.C. LaMarche, Jr., eds.) in *American Scientist*. 1983. v. 71: 651-652.
- 6) Review of *Selected Climatic Data for a Global Set of Standard Stations for Vegetation Science*. (M. J. Muller) in *Bulletin of the Torrey Botanical Club*. 1983. v. 110: 235-236.
- 7) Review of *Paleoecology of Beringia*. (D.M. Hopkins, J.V. Matthews, Jr., C.E. Schweger, S.B. Young, eds.) in *Arctic and Alpine Research*. 1984. v. 16: 121-122.
- 8) Review of *Catastrophes and Earth History: The New Uniformitarianism*. (W.A. Berggren and J.A. van Couvering, eds.) in *Bulletin of the American Meteorological Society*. 1985. v. 66: 309.
- 9) Review of *An Atlas of Past and Present Pollen maps for Europe: 0-13000 Years Ago*. (B. Huntley and H.J.B. Birks) in *American Scientist*. 1985. v. 73: 291.
- 10) Review of *Late Quaternary Environments of the Soviet Union*. (A.A. Velicho, ed., and H.E. Wright and C. Barnosky, English Language eds.) in *The Quarterly Review of Biology*. 1985. v. 60: 386.
- 11) Review of *Quaternary Paleoclimatology*. (R.S. Bradley) in *Arctic and Alpine Research*. 1985. v. 17: 467-468.
- 12) Review of *Numerical Methods in Quaternary Pollen Analysis*. (H.J.B. Birks and A.D. Gordon) in *American Scientist*. 1986. v. 74: 678.
- 13) Review of *Handbook of Palaeoecology and Paleohydrology*. (B.E. Berglund, ed.) in *Progress in Physical Geography*. 1987. v. 11: 302-303.
- 14) Review of *Milankovitch and Climate*. (A. Berger et al., eds.) in *Review of Palaeobotany and Palynology*. 1987. v. 52: 252-254.
- 15) Review of *Global Bio-Events*. (O.H. Walliser, ed.) in *Bulletin of the American*

- Meteorological Society. 1987. v. 68: 1280-1281.
- 16) Review of *Climate and Plant Distribution*. (F.I. Woodward) in *Ecology*. 1988 v. 69: 294-295.
  - 17) Review of *Evolution and Environment in Late Silurian and Early Devonian*. (W.G. Chaloner and J.D. Lawson, eds.) in *Ecology*. 1988. v. 69: 551.
  - 18) Review of *Long-term Forest Dynamics of the Temperate Zone*. (P.A. Delcourt and H.R. Delcourt) in *Trends in Ecology and Evolution*. 1988. v. 3: 281-282.
  - 19) Review of *Plant Migration*. (J.D. Sauer) in *Ecology*. 1989. v. 70: 519-520.
  - 20) Review of *The Past Three Million Years: Evolution of Climatic Variability in the North Atlantic Region*. (N.J. Shackleton, R.G. West, and D.Q. Bowen, eds.) in *Bulletin of the American Meteorological Society*. 1989. v. 70: 800-801.
  - 21) Review of *A Climate Modelling Primer*. (A. Henderson-Sellers and K. McGuffie) in *Ecology*. 1989. v. 70: 1197-98.
  - 22) Review of *Plant Community History: Long-term Changes in Plant Distribution and Diversity*. Chapman and Hall, New York (J.H. Tallis) in *Ecology* 1991, v. 72: 2300-2301.
  - 23) Review of *To Interpret the Earth, Ten Ways to be Wrong*, Cambridge University Press, Cambridge (S.A. Schumm) in *Quaternary Research*. 1993, v. 39: 395.
  - 24) Review of *Climate Change and Human Impact on the Landscape*, Chapman and Hall, London (F.M. Chambers, ed.) in *Journal of Quaternary Science*. 1994, v. 9:299-300.
  - 25) Review of *Climate Change and Its Biological Consequences*, Sinauer Associates, Inc. Publishers, Sunderland, MA (D.M. Gates) in *Trends in Ecology and Evolution*. 1993.
  - 26) Review of *The Pleistocene Boundary and the Beginning of the Quaternary*, Cambridge University Press, Cambridge (Van Couvering, J., ed.) in *Palaios*. 1997.
  - 27) Review of *Evolution and Ecology: The Pace of Life*, Cambridge University Press, Cambridge (Bennett, K.D.) in *American Scientist*. 1997, v. 86: 192-193.
  - 28) Review of *Scaling Up from Cell to Landscape*. Cambridge University Press. (P. van Gardingen, G.M. Foody, and P.J. Curran, eds.) in *The Quarterly Review of Biology*, 1999, v. 74:491
  - 29) Review of *The Holocene*, 2nd Ed. Blackwell Publishers, Oxford (N. Roberts) in *Journal of Paleolimnology*. 2000, v. 23: 341-342.
  - 30) Review of *Past Global Changes and Their Significance for the Future*. Pergamon/Elsevier, Oxford (K. Alverson, F. Oldfield, and R. Bradley, eds.) *Journal of Paleolimnology*. 2001, v. 25:

7. **Service:**

A. **To the University:**

- 1) Wayland Collegium, Senior Fellow, 2003-2005
- 2) University Creative Arts Council, 1996-2000, 2002-2005
- 3) Geology-Biology Concentration Advisor, 1989-95, 1996-99, 2000-02, 2003-2005



- 4) Fulbright Fellowship Selection Committee, 1989, 2003
- 5) Wayland Collegium, Executive Committee, 2001-2005
- 6) Subcommittee Instructional Computing for the FACC, Chair, 2001-03
- 7) Sophomore Advisor, 1990-94, 1996-2000, 2002-03
- 8) Sheridan Center, Teaching Fellow, 1997-2002
- 9) Sheridan Center, Advisory Board, 1999-2002
- 10) Freshman Advisor, 1983-85, 1987-88, 1994-95, 2001-02
- 11) Randall Counselor, 1986-88, 1996-2000
- 12) Environmental Studies, Executive Committee, 1983-2001
- 13) Financial Aid Review Board, 1992-95
- 14) University Graduate School Citation Committee, 1990-94
- 15) Provost Search Committee, 1990

**B. To the Profession:**

Editorial Board, Journal of Biogeography, 1990-  
 Scientific Consultant, Peace/Athabaskan Delta Project, 2001-  
 Editorial Board, Review of Palaeobotany and Palynology, 1979-  
 Editorial Board, Quaternary Science Reviews, 1981-  
 International Advisor, Editorial Board, Journal of Quaternary Science,  
 1986-2005  
 Reviewer of over 20 articles and proposals each year.  
 Board of Directors, NCERC, Canada, Climate System History and  
 Dynamics (CSHD) Research Network, 1999-2003  
 Chair, NSF, Earth System History Steering Committee, 1996-2000,  
 Member, 1994-2000.  
 Chair, NSF, ESH, Terrestrial Earth System History Organizing  
 Committee, 1996-99  
 Co-Chair, BIOME 6000, Global Paleovegetation Mapping Project, 1994-  
 99  
 Editorial Board, Journal of Climate, 1989-96

**To the Community:**

Secretary, Seekonk Land Conservation Trust, 1997-  
 Chair, Finance Committee, Seekonk Land Conservation Trust, 1999-  
 Treasurer, Hope Center for Cancer Support, Providence, 2000-2005  
 Regular Blood Donor, Rhode Island Blood Center, Donated over 10  
 gallons

**8. Membership in Professional Societies:**

American Association for the Advancement of Science, American Quaternary  
 Association, Ecological Society of America, Wisconsin Academy of Arts,  
 Letters and Sciences.

## 9. Research Grants (since 1977):

1. NSF Climate Dynamics Program: Paleoclimate Techniques Development. Co-Principal Investigator with J. Imbrie, R.K. Matthews, and W.L. Prell. \$35,000/year to T. Webb, 1977-79.
2. Lawrence Livermore Laboratory, Nuclear Regulatory Commission: Nuclear Waste Management Contract to describe Holocene Hydrological Changes in the Midwest and West. \$25,000. 1979.
3. Department of Energy. Carbon Dioxide Research Program: Global Temperature Patterns 6000 Years Ago. \$88,000 to \$212,000/year. 1979-85.
4. NSF Ecology Program. FORMAP (Forest History Mapping Project) Subcontract from University of Tennessee. \$18,000/year. 1980-85.
5. United States Geological Survey. Contract for Pollen Analysis of Walker Lake Core. \$65,000/year. 1984-87.
6. Department of Transportation, Delaware. Palynological and Hydrological Research in the Route 13 Corridor, Kent County, Delaware. \$18,000, 1987-88.
7. Timelines, Inc., Boston, MA. Boylston Street Fishweir Project. \$18,000 1986-88
8. NSF, Ecology Program (\$90,000/year for two years), 1989-91.
9. NSF Climate Dynamics Program: COHMAP (Climates of the Holocene: Mapping Based on Pollen Data). (Joint Project with J.E. Kutzbach, University of Wisconsin-Madison and H.E. Wright, Jr., University of Minnesota). \$70,000 to \$150,000/year to T. Webb. (Renewed in 1979 for 2 years, in 1981 for 3 years, in 1984 for 3 years, in 1987 for 3 1/2 years, and in 1991 for 4 years).1977-1995
10. NOAA, Paleoclimate Section of National Geophysical Data Center, \$26,000, 1994
11. Department of Energy, Carbon Dioxide Research Program: Model Validation Research: Comparison of Simulated and Observed Climatic Patterns for the Past 18,000 Years (Joint Project with W.L. Prell and J.E Kutzbach). \$470,000/year for 3 years (\$180,000/yr to T. Webb). 1985-88; \$410,000/yr for 3 years (\$140,000/yr to T. Webb), 1988-91; 405,000/yr for 3 years (125,000/year to T. Webb), 1991-1994, 400,000/yr for 3 years (115,000/year to T Webb), 1994-97, 512,000/yr (125,000 to T. Webb), 1997-98.
12. Woods Hole Oceanographic Institution Sea Grant Program, Sea Level Impact on Coastal Wetlands, \$30,000/yr. 1997-99
13. NSF, Earth System History Program: TEMPO (Testing Earth System Models with Paleoenvironmental Observations) \$140,000/yr for 4 years, 1995-99; \$75,000/year for 4 years, 1999-2003
14. Risk Prediction Institute, Bermuda Biological Research Station, History of Hurricanes in New England, \$40,000, 1996-97; \$35,000, 1997-98; \$70,000, 1998-99, \$66,000 1999-2000. \$30,000, 2000-2001.
15. NSF, Earth System History: Hydrogen Isotopic Composition of Individual Biomarkers from Lake Sediments: A New Proxy for Paleoclimatic Research, \$220,000/yr for 2 years, 2000-2002. (Y. Huang, co-PI).
16. NSF, CCLI (Course Curriculum, and Laboratory Improvement) Grant, \$74,250, 2002-2003. (D. Targan, co-PI)
17. NSF, EAR, High Resolution Records of Late Holocene Sea Level from Southern

New England, \$61,039, 2003-2005 (J. Donnelly, PI).

## 10. Teaching and Graduate and Postdoctoral Advising:

### A. Courses taught in Geological Sciences 1992-2005 (Sabbatical: 1995-96,

Leave: Spring, 2000, Sabbatical: 2003s)

Geological Sciences 31, 1991-94f, 1996-2005f (20)

Geological Sciences 135, 1992s, 1994s, 1997s, 1999s, 2001-02s,  
2005s (20)

Geological Sciences 230, 1993s, 1995s, 1998s, 2004s (6)

Geological Sciences 235, 1992s, 1994s, 1996s, 2001s, 2005f(6)

Geological Sciences 239, 1993s, 1995s, 1997s-1999s, 2002s (6)

Geological Sciences 191/192, (Independent Study), 1992 (2), 1993 (4),  
1994 (2), 1995(2), 1997 (3), 1998 (5), 1999 (3), 2000 (3), 2001 (3),  
2002 (2), 2003 (1), 2004-2005 (3)

Honors Theses Supervised: ca. 2 per year 1992-95, 1997-2005

Senior Theses Supervised: about 70 from 1974-2005

Masters & Ph.D. Theses directed (see below)

### B. Courses taught in Summer and Continuing Studies at Brown University:

Forces of Nature, (SPARK program for middle school students),

One week in July from 2004-2008

What we know about Global Warming (Continuing Studies for Adults),  
2008, 2009

### C. Graduate Students:

- 1) J. Christopher Bernabo, 1972-1977, Ph.D. (1977)
- 2) Barbara Santamaria, 1973-1976, M.Sc. (1976)
- 3) Kathleen M. Heide, 1976-1981, Ph.D. (1981)
- 4) Ruth Laseski, 1975-1980, Ph.D. (1983)
- 5) Sheldon Nelson, 1978-1981, M. Sc. (1981)
- 6) Jonathan Overpeck, 1980-1986, Ph.D. (1986)
- 7) Robert S. Webb, 1982-1989, Ph.D. (1990)
- 8) Polychronis Tsedakis, 1985-1987, M.Sc (1987)
- 9) Alison J. Smith, 1986-1990, Ph.D. (1990)
- 10) Peter Jaumann, 1989-1990, M.Sc. (1991)
- 11) Hong Shao, 1989-1991, M.Sc (1991)
- 12) Deborah Nazon, 1991-92
- 13) Benjamin Felzer, 1991-96, Ph.D.(1996)
- 14) John W. Williams, 1994-2000, M.Sc. (1996), Ph.D. (2000)
- 15) Jennifer Bravo, 1994-97, M.Sc. (1997)
- 16) Jeffrey P. Donnelly, 1995-2000, Ph.D. (2000)
- 17) Richard Lederer, 1998-2000, M Sc. (2000)
- 18) Bryan Shuman, 1995-2001, M.Sc. (1997), Ph.D. (2001)
- 19) Paige Newby, 2002-2007, M.Sc. (2004), Prelim passed 2006

**Co-Advisor for Graduate Students:**

- 1) Sally Howe, Ph.D. (1980) Applied Mathematics, Brown University
- 2) Patricia Anderson, Ph.D. (1982) Anthropology, Brown University
- 3) Denise C. Gaudreau, Ph.D. (1986) Biology, Yale University
- 4) Monica Stephens, Ph.D, (1998) Applied Mathematics, Brown University

**C. Postdoctoral Associates or Visiting Researchers in the Pollen Lab at Brown University:**

- J. Christopher Bernabo, 1977 (3 months)
- R. H. W. Bradshaw, 1978-1980.
- E. C. Fleri, 1980-1981
- S. E. Howe, summers, 1979, 1980
- F. A. Street-Perrott, summer, 1979
- P. J. Bartlein, summers, 1981-1983
- I. C. Prentice, summer, 1982
- R. S. Thompson, 1984-1987
- R. Dodia (US/India Exchange), summer, 1986
- J. T. Overpeck, summer, 1986
- S. T. Jackson, 1986-1991
- K. Gotanda, 2000-2001

11. Prepared February 28, 2014