

BIOGRAPHICAL SKETCH

ROBERT STABLER WEBB

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PROFESSIONAL PREPARATION:

	Dartmouth College	<i>Earth Sciences</i>	AB	1981
Brown University	<i>Geological Sciences</i>	MSc	1985	
Brown University	<i>Geological Sciences</i>	PhD	1990	
NASA-GISS	<i>NRC Research Fellow</i>		1990 - 1992	

APPOINTMENTS

2006-present *Chief*, NOAA-OAR-ESRL-PSD Climate Analysis Branch
2005-2006 *Interim Lead*, NOAA-OAR-ESRL-PSD Climate Diagnostics Branch
1999-2005 *Physical Scientist*, NOAA-OAR Climate Diagnostics Center
1992-1999 *Physical Scientist*, NOAA-NGDC Paleoclimatology Program.
1996-2002 *Research Associate II* INSTAAR, University of Colorado.
1992-2003 *Affiliate* INSTAAR, University of Colorado.
1988 summer *Research Assistant*, International Institute for Applied Systems Analysis (IIASA)

RECENT PUBLICATIONS

Forman, S.L., Oglesby, R., and Webb, R.S., 2001. Temporal and spatial patterns of Holocene dune activity on the Great Plains of North America: megadroughts and climate links. *Global and Planetary Change*, 29, 1-29.

Mathieu, R., Pollard, D., Cole, J., White, J.W.C., Webb, R.S., Thompson, S.L. (2002) Simulation of Stable Water Isotopes Variations by the Genesis GCM for Present-Day Conditions. *JGR*, Vol. 107, No. D4, 2:1-15.

Markgraf, V. Webb, R.S., Anderson, K.H. and Anderson, L. (2002). Modern Pollen – Climate Calibration For Southern South America, *Palaeogeography, Palaeoclimatology, Palaeoecology* 181, 375-397.

Mangan, J., Overpeck, J., Webb, R., Wessman, C., Goetz, A, (2004). Response of Nebraska Sand Hills Natural Vegetation to Drought, Fire, Grazing, and Plant Functional Type Shifts as Simulated by the Century Model. *Climatic Change* 63: 49–90.

Kerwin, M.W., Overpeck, J.T., Webb, R.S., Anderson, K.H. Pollen-based summer temperature reconstructions for the eastern Canadian boreal forest, subarctic, and arctic. *Quaternary Science Reviews*., 23, 1901-1924.

Forman, S. L., L. Marin, J. Pierson, J. Gomez, G. H. Miller, and R. S. Webb, 2005: Aeolian sand depositional records from western Nebraska: Landscape response to droughts in the past 1500 years. *The Holocene*, 15, 973-981.

Liu, Z. Y., S.-I. Shin, R. S. Webb, W. Lewis, and B. L. Otto-Bliesner 2005: Atmospheric CO2 forcing on glacial thermohaline circulation and climate. *Geophys. Res. Lett.*, 32(2), L02706, 10.1029/2004GL021929.

Shin S-I., P.D. Sardeshmukh, R.S. Webb, R.J. Oglesby, J.J. Barsugli (2006). Understanding the Mid-Holocene Climate. *Journal of Climate*, 19, 2801–2817.

Kilbourne K.H., T.M. Quinn, T.P. Guilderson, R.S Webb, F.W. Taylor (2007). Decadal- to interannual-scale source water variations in the Caribbean Sea recorded by Puerto Rican coral radiocarbon. *Clim Dyn* DOI 10.1007/s00382-007-0224-2

Kilbourne, K. H., T. M. Quinn, R. Webb, T. Guilderson, J. Nyberg, and A. Winter (2008), Paleoclimate proxy perspective on Caribbean climate since the year 1751: Evidence of cooler temperatures and multidecadal variability, *Paleoceanography*, 23, PA3220, doi:10.1029/2008PA001598

SYNERGISTIC ACTIVITIES

Co-convened symposia and workshops: 2005 - WWA Climate workshops for water managers, Golden, Colorado and Cheyenne, Wyoming, Planning Workshop to Develop Hydroclimatic Reconstructions for Decision Support in the Colorado River Basin, Tucson, AZ; 2004 - Colorado River Basin Outlook briefing for water managers, decision makers, and planning groups in the region in Salt Lake City, UT; 2003- AGU Annual Meeting Global Change Special Reconstructing Hydroclimatic Variability in North America: Progress, Methods, and Uncertainties; 2001 - Pacific Climate Variability (PACCLIM) annual meeting special session, Decadal to Centennial Variation in the Late Holocene, Asilomar, CA; 2000 - American Quaternary Association (AMQUA) biennial meeting, Fayetteville, AK "Landscape and Biotic Responses to Climate Variability: Future Impacts and Past Lessons"; 1999 - AGU Annual Meeting Special Session "Assessing the Range of Central North American Droughts and Associated Land Cover Change, NOAA/NASA Workshop: Assessing the full range of central North America Droughts and Associated Landcover Change; 1998 - AGU Chapman Conference "Mechanisms of Millennial-Scale Global Climate Change", GCIP Mississippi Basin Conference Special Session "Paleohydrology". 2007 AGU special session on titled: Beyond Global Mean Temperature: Understanding Synoptic Patterns of Climate Change in the Last Millennium.

Committees and Panels: NOAA NCDC Paleoclimatology Branch 2005 Review Panel, NOAA Scientific Advisory Board 2006 Review Panel for the Princeton University Cooperative Institute for Climate Science, 2006 Scientific Advisory Board for the University of Massachusetts Climate System Research Center, NOAA Climate Goal Strategic Planning Working Group, 2006 CCSP panel for the open U.S. Review of the IPCC Working Group I contribution to the Fourth Assessment Report, 2006 Organizing committee for the NOAA Climate Working Group Summer Retreat: NOAA and the Drought Challenge, 2006 ESRL representative to the Climate Dynamics and Experimental Prediction Program Applied Research Centers Council, 2006 National Integrated Drought Information System Implementation Team, 2007 A lead author for CCSP SAP 5.3 "Decision support experiments and evaluations using seasonal-to- interannual forecasts and observational data.", 2007 Climate science expert member of the OSTP lead delegation to the 10th Session of IPCC Working Group I, 29 January to 1 February 2007, 4th Assessment Report: "Climate Change 2007 - The Physical Science Basis.", 2007 A lead author for CCSP SAP 3.4 "Abrupt Climate Change.", 2008 NOAA lead on the Climate Change and Western Water Research and Development Group, 2008 NOAA Climate Services Development Team, 2008 Member of the Technical Review Panel for the Long-Term Central Valley Project/State Water Project Operational Criteria and Plan Biological Assessment, 2008 Working group to explain the 2008 Collapse of the Sacramento Fall Chinook Stock and Decline of other West Coast Salmon Stocks for the Pacific Marine Fisheries Council.

COLLABORATORS AND OTHER AFFILIATIONS

In addition to colleagues at NOAA-ESRL-PSD, CIRES (CU) and co-authors listed above under publications and synergistic activities: Post Doctoral Advisors: David Rind (NASA-GISS) and Cynthia Rosenzweig (NASA-GISS). Graduate and Post-Graduate Supervision: Lysanna Anderson, PhD, Univ. of Colorado; Elsa Cortijo, NOAA Post-Doc; NGDC, Ulrike Huber, PhD, Univ. of Colorado; Mike Kerwin, PhD, Univ. of Colorado; Kelly Halimeda Kilbourne, PhD. University of South Florida; Margaret Kneller, PhD, Columbia Univ.; Jennifer Mangan, PhD, Univ. of Colorado; A.D. Robertson, MSc, Univ. of Colorado; Noah Daniels, MSc, Univ. of Colorado; Renaud Mathieu, Post-Doc, Univ. of Colorado; Hali Kilbourne, Post-Doc, NRC NOAA-OAR-ESRL.