

CURRICULUM VITAE

CAROL BARFORD

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Education

1991-1997 **HARVARD UNIVERSITY** *Ph.D., Environmental Engineering*
1989-91 **BOSTON UNIVERSITY** *M.A., Ecology*
1987-89 **BOSTON UNIVERSITY** *B.A. (Summa Cum Laude), Biology*

Employment

2001-present **CENTER FOR SUSTAINABILITY AND THE GLOBAL ENVIRONMENT, UNIVERSITY OF WISCONSIN - MADISON**
Assistant Scientist
1997-2000 **DEPARTMENT OF EARTH AND PLANETARY SCIENCES, HARVARD UNIVERSITY**
Post-Doctoral Fellow - Atmospheric Chemistry
1993-1996 *Head Teaching Fellow - Environmental Microbiology*
1989-90 **DEPARTMENT OF BIOLOGY, BOSTON UNIVERSITY**
Head Teaching Fellow - Introductory Biology I

Fellowships and Awards

1990-1993 National Science Foundation Graduate Fellow in Biology
1989 Shields Warren Prize (Boston University, for outstanding biology student)
1988-89 Case Merit Scholar (Boston University)
1987 Avery Brundage Scholar (University of Illinois, for independent athletes)
1985-87 Rogers Merit Scholar (University of Illinois)

Publications

Curtis, P.S., P.J. Hanson, P. Bolstad, C. Barford, J.C. Randolph, H.P. Schmid and K.B. Wilson. 2002. Biometric and eddy-covariance based estimates of annual carbon storage in five eastern North American deciduous forests. *Agricultural and Forest Meteorology* 113: 3-19.

Barford, C.C., S.C. Wofsy, M.L. Goulden, J.W. Munger, E.H. Pyle, S.P. Urbanski, L. Hutya, S. R. Saleska, D. Fitzjarrald and K. Moore. Factors controlling long- and short-term sequestration of atmospheric CO₂ in a mid-latitude forest. 2001. *Science* 294: 1688-1691.

Sigman, D.M., K.L. Casciotti, M. Andreani, C. Barford, M. Galanter and J.K. Böhlke. 2001. A bacterial method for the nitrogen isotopic analysis of nitrate in seawater and freshwater. *Analytical Chemistry* 73: 4145-4153.

Barford, C.C., J.P. Montoya, M.A. Altabet and R. Mitchell. 1999. Steady state nitrogen isotope effects of N₂ and N₂O production in *Paracoccus denitrificans*. *Applied and Environmental Microbiology* 65: 989-994.

- Barford, C.C. 1997. Stable isotope dynamics of denitrification. Dissertation, Harvard University, Cambridge, MA.
- Brower, J.B. and C.C. Barford. 1997. Biological fixed-film systems. *Water Environment Research*. 69: 487-500.
- Barford, C. and K. Lajtha. 1992. Nitrification and nitrate reductase activity along a secondary successional gradient. *Plant and Soil* 145: 1-10.
- Barford, C. 1991. Plant litter chemistry and nitrogen cycling along a secondary successional gradient. Master's thesis, Boston University, Boston, MA.