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Education

B. A. in Biology, Hamilton College, 1965
Ph.D. in Ecology, S.U.N.Y., Stony Brook, 1979

Professional Experience

2021-present Senior Scientist Emeritus, Woodwell Climate Research Center
2009, 2011-2012, 2014 Acting Director, Woods Hole Research Center
2005-2008, 2010, 2013 Deputy Director, Woods Hole Research Center
1989-2020 Senior Scientist, Woods Hole Research Center, Woods Hole, Massachusetts
1993-1994 Visiting Senior Scientist, Office of Mission to Planet Earth, NASA, Washington, D.C.
1987-1989 Associate Scientist, Woods Hole Research Center, Woods Hole, MA
1984-1987 Assistant Scientist, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA
1975-1984 Research Associate, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA
1967-1974 Research Associate, Biology Department, Brookhaven National Laboratory, Upton, NY

Other Professional Activities

Awards and Honors

2012 Fellow of the American Geophysical Union
2007 Citation from the Intergovernmental Panel on Climate Change (IPCC)
for contributions to the Award of the Nobel Peace Prize for 2007 to the IPCC
1995 Honorary Doctorate from the Faculty of Forest Science, University of Munich

Editorships

2009-2015 U.S. Senior Editor, *Carbon Management*
2007-2021 *Faculty Opinions*

Professional Societies

Member, American Geophysical Union
Member, Sigma Xi

Publications

Woodwell, G.M., R.A. Houghton and N.R. Tempel. 1973. Atmospheric CO₂ at Brookhaven, Long Island, New York: Patterns of variation up to 125 meters. *Journal of Geophysical Research* **78**:932-940.

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Houghton, R.A. 1979. The role of vascular plants in the carbon exchanges of a salt marsh. Dissertation. State University of New York, Stony Brook.

Woodwell, G.M., C.A.S. Hall, D.E. Whitney and R.A. Houghton. 1979. The Flax Pond ecosystem study: Exchanges of inorganic nitrogen between an estuarine marsh and Long Island Sound. *Ecology* **60**:695-702.

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Moore, B., R.D. Boone, J.E. Hobbie, R.A. Houghton, J.M. Melillo, B.J. Peterson, G.R. Shaver, C.J. Vorosmarty and G.M. Woodwell. 1981. A simple model for analysis of the role of terrestrial ecosystems in the global carbon budget. Pages 365-385 *in*: B. Bolin (ed.), *Carbon Cycle Modelling*, SCOPE 16. John Wiley and Sons, New York.

Woodwell, G.M., and R.A. Houghton. 1981. Measurement of climatic changes caused by the increase in atmospheric CO₂: The role of the biota. A summary. Pages 533-540 *in*: N.B. Beatty (ed.), *Carbon Dioxide Effects Research and Assessment Program*. Proceedings of the Workshop on First Detection of Carbon Dioxide Effects. Harpers Ferry, West Virginia, June 8-10, 1981. DOE/CONF-8106214.

Houghton, R.A., J.E. Hobbie, J.M. Melillo, B. Moore, B.J. Peterson, G.R. Shaver and G.M. Woodwell. 1983. Changes in the carbon content of terrestrial biota and soils between 1860 and 1980: A net release of CO₂ to the atmosphere. *Ecological Monographs* **53**:235-262.

Houghton, R.A., and G.M. Woodwell. 1983. Effect of increased C, N, P and S on the global storage of C. Pages 327-343 *in*: B. Bolin and R.B. Cook (eds.), *The Major Biogeochemical Cycles and Their Interactions*, SCOPE 21. John Wiley and Sons, New York.

Park, A.B., R.A. Houghton, G.M. Hicks and C.J. Peterson. 1983. Multi-temporal change detection techniques for the identification and monitoring of forest disturbances. Seventeenth International Symposium on Remote Sensing of the Environment, May 9-13, 1983, Environmental Research Institute of Michigan, Ann Arbor, Michigan.

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Woodwell, G.M., J.E. Hobbie, R.A. Houghton, J.M. Melillo, B. Moore, A. Park, B.J. Peterson and G.R. Shaver. 1984. Measurement of changes in the vegetation of the earth by satellite imagery. Pages 221-240 in: G.M. Woodwell (ed.), *The Role of Terrestrial Vegetation in the Global Carbon Cycle: Measurement by Remote Sensing*, SCOPE 23. John Wiley and Sons, Chichester.

Houghton, R.A. 1985. The effects of mortality on estimates of net above-ground production by Spartina alterniflora. *Aquatic Botany* **22**:121-132.

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- Houghton, R.A. 1993. The role of the world's forests in global warming. Pages 21-58 in: K. Ramakrishna and G.M. Woodwell (editors). *World Forests for the Future. Their Use and Conservation*. Yale University Press, New Haven, Connecticut.
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