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EDUCATION:

Ph.D. (Environmental Sciences), Rutgers University, New Brunswick, 2001
Thesis: Response of the convective boundary layer to surface heterogeneity

M.Sc. (Environmental Sciences), Jawaharlal Nehru University, India, 1994
Thesis: Rural energy balance dynamics in the Kumaon Himalayas: A microlevel study

B.Sc. (Honours in Physics), Presidency College, University of Calcutta, India, 1992

PROFESSIONAL EXPERIENCE:

Research Associate, 2004-2006

Department of Civil and Environmental Engineering, Duke University, Durham, North Carolina

Post-doc, 2001-2004

Princeton Environmental Institute, Princeton University, Princeton, New Jersey

SELECTED PAPERS:

R. B. Jackson, E. G. Jobaggy, R. Avissar, Baidya Roy, S., *et al.*, Trading Water for Carbon with Biological Carbon Sequestration, *Science*, 310 (5756), DOI: 10.1126/science.1119282, 2005.

Baidya Roy, S., R. Walko and S. W. Pacala, Can large windfarms affect local meteorology?, *Journal of Geophysical Research*, 108 (D24), 4793, DOI:10.1029/2003JD003565, 2004.

Baidya Roy, S., G. Hurtt, C. P. Weaver and S. W. Pacala, Impact of historical landcover change on the summer climate of the United States, *Journal of Geophysical Research*, 108(D24), 4793, DOI:10.1029/2003JD003565, 2003.

Altmann, J., S. C. Alberts and S. Baidya Roy, Dramatic changes in local climate patterns in the Amboseli basin, Kenya, *African Journal of Ecology*, 40,248-251, 2002.

Baidya Roy, S. and R. Avissar, Impact of land use/land cover change on the regional hydrometeorology in Amazonia, *Journal of Geophysical Research*, 107 (D20), 8037, DOI:10.1029/2000JD000266, 2002.

MISCELLANEOUS:

Member *American Geophysical Union*, *American Meteorological Society*