

Venkatachalam Ramaswamy

Geophysical Fluid Dynamics Laboratory

Lecturer w/rank of Professor in Geosciences & Program in Atmospheric and
Ph.D., State University of New York at Albany, 1982 Oceanic Sciences



Research Interests

The principal focus of Ramaswamy's research is the investigation of the climatic effects due to radiatively active gases, aerosols (or particulates), and clouds. Numerical models of varying complexity, including 3-dimensional coupled atmosphere-ocean models, are used to analyze the global distributions of the atmospheric species, and diagnose their respective roles in perturbing the past, present, and future climate of the planet. A concurrent aim is to understand the hydrologic cycle in the atmosphere, in particular the processes governing the distribution of water vapor and the formation and maintenance of clouds. The feedbacks due to water vapor and clouds are a critical determinant of climate variations and change.

Areas of Expertise

Radiative Transfer, Climate Perturbations by Greenhouse Gases and Aerosols Cloud-Climate Interactions; Regional and Global Climate variations and change

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