



Department of Physics Colloquium

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3:00 PM

CO₂ Radiative Forcing: A Chalkboard Understanding

Nadir Jeevanjee
Geophysical Fluid Dynamics Laboratory

CO₂ radiative forcing has been well studied and relatively well simulated for decades, but a chalkboard understanding has been elusive. Recent work has begun to remedy this, however, facilitated by an analytical model of CO₂ forcing in which CO₂ forcing arises from the temperature contrast between the stratosphere and surface/lower atmosphere. We present the basics of this model and discuss its application to various aspects of CO₂ forcing, including its state dependence and spatial variations, logarithmic scaling, and variations in magnitude between climate models.

This colloquium will be held in-person, in SERC 116