

MMM SEMINAR SERIES



Environmental Influences on Convective Entrainment and Their Implications for Parameterized Vertical Transport

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Deep convection produces hazardous weather such as heavy rainfall, hail, and tornadoes while efficiently transporting heat, moisture, and trace gases from the boundary layer to the upper troposphere and lower stratosphere (UTLS). The strength and vertical extent of convective updrafts are strongly influenced by entrainment, the mixing of environmental air into the convective core. However, the environmental controls on entrainment and its role in vertical chemical transport remain poorly understood. This presentation will focus on investigating the impact of convective entrainment on parameterized vertical transport using numerical modeling, and the environmental influences on entrainment using satellite-derived observations. ...[Link to Full Abstract & Bio](#)

Thursday, 11 June 2026, 2:00PM

Refreshments 1:45PM

Please also join colleagues for refreshments and informal discussion after the seminar until 3:30PM

NCAR-Foothills Laboratory, 3450 Mitchell Lane

FL2-1022, Large Seminar

Seminar will also be live webcast

<https://sundog.ucar.edu/public/page/MMM>

Participants may ask questions during the seminar via Slido.



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