



A Lagrangian view of deep convective clouds

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Because of its great societal impact, predicting how precipitation will respond to climate change is a task of considerable importance. In order to achieve this ability, however, a robust, quantitative understanding of the dynamics of precipitating systems is first necessary. In this talk, I will illustrate how a Lagrangian perspective can be used to take important steps in this direction. I will also discuss ongoing and future work using the Lagrangian methods I have developed, including additional questions pertaining the basic dynamics of deep convective systems, the study of extreme and severe weather systems—such as supercell thunderstorms—and the investigation of the behavior of precipitating convection over land surfaces.