Ice Cloud Discussion Period

Climate Model Deficiencies	Possible Methods for Addressing Deficiency
m-D, A-D & AR expressions (affect microphys. growth rates, D_e, V_m, ice optics)	Develop or improve instruments that measure ice particle m, A and aspect ratio; improve data processing methods; characterize measurement uncertainties
Ice nucleation	Analysis of microphys., w & RHi measurements, MIT CVI instrument
Quantify aerosol impacts on ice cloud microphysics and radiative properties	In situ measurements combined w satellite &/or ground-based remote sensing ➡ design GCM experiments constrained by measurements
Aggregation efficiency	Combine process modeling with in situ observations to improve Ea(T)
Degree of PSD bimodality (i.e. small ice crystals)	In situ measurements possibly combined with ground-based and/or satellite remote sensing

ICEPRO: A proposed ASR focus group on ice physical properties and processes that will coordinate individual research activities to address programmatic objectives.

Interested investigators should contact Greg McFarquhar or David Mitchell.