Analysis of Raindrop Size Distributions Measured During the Mid-latitude Continental Convective Clouds Experiment

Data

* Cloud Imaging Probe (CIP), 0.05mm to 2mm, 19 bins
* Two Dimensional Optical Array Cloud Imaging Probe (2DC) , 0.05mm to 2mm, 19 bins
* High Volume Precipitation Spectrometer (HVPS), 0.2mm to 30mm, 28 bins
* NCAR-processed composite number distribution functions (2DC or, CIP when no 2DC data, with the HVPS), switchover at 1mm, 38 bins
* Resolution: 1 Hz

Method

* MATLAB
* Extract data from text files
* Restrict to >0 Celsius
* Plot of distributions
* Calculation of rain rate
* Testud normalization procedure

Plots

* Size distribution
* Rain rate size distribution
* Normalized Size Distribution

Further Steps