

Two Dimensional Cloud Probe Measurements

The concentration, size and shape of cloud particles is fundamental to cloud physics. Two dimensional cloud probes (2D Probes) are aircraft wing mounted probes that have been used since the 1970s to measure drizzle and precipitation sized particles. The newest 2D Probes include the 2D-S and HVPS4 probes manufactured by Stratton Park Engineering Company (Spec), and the CAPS-DPOL probe manufactured by Droplet Measurements Technologies (DMT). Processing 2D Probe data has been the topic of a series of workshop, starting in 1986 and continuing approximately every four years, with the latest workshop held before the 19th International Commission on Clouds and Precipitation (ICCP) meeting in July 2024. After attending the 2D Probe class you will be able to identify the particle size range of different 2D Probes, describe the optical configuration, correctly interpret the 2D Probe images and be able to conduct quality assurance of 2D Probe data sets.