

Wyoming Atmospheric Aerosol Instrumentation

Platforms for aerosol research



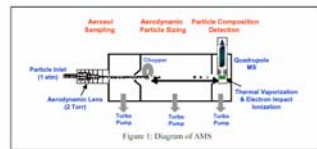
Stratospheric Research



King Air Research Aircraft Facility

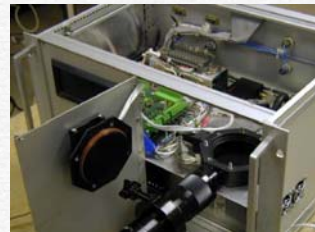


Elk Mountain Research Observatory



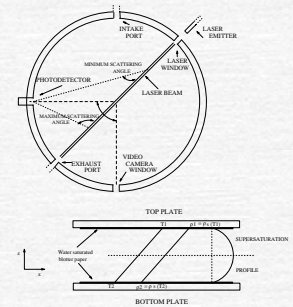
Aerodyne Aerosol Mass Spectrometer

Measures size resolved aerosol chemical composition quantitatively in real time.



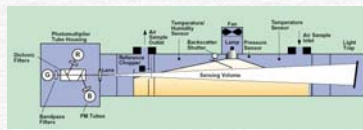
UWyo CCN counters

Measures cloud condensation nuclei at water vapor supersaturations of 0.2% to 2%.



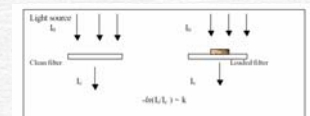
TSI Three-Wavelength Integrating Nephelometer

Measures the light scattering coefficient (total and backscatter) of atmospheric and laboratory aerosol.



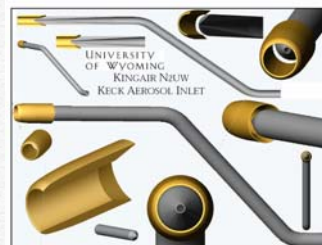
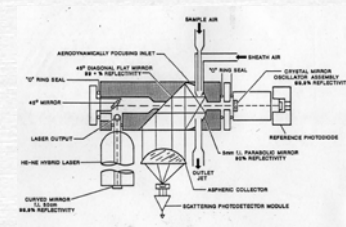
Magee Scientific AE-16 Aethelometer

Measures the mass of black carbon in the atmosphere in real-time.



PMI/DMT PCASP-100x

Wing mounted probe for measuring particle size distribution of ~0.12 to 3 μm .



UWyo. King Air Aerosol Inlet

Shrouded diffuser type aerosol inlet for aircraft sampling.