

Condensation-nuclei (Aitken particle) measurement system used in the NASA Global atmospheric sampling program

National Aeronautics and Space Administration, Scientific and Technical Information Office - ACP

Description: -

Instrument	Function
TG atomizer (36N)	Generation of visible aerosol particles, for example, NaCl or ammonium sulfate
TG fluidized bed (3400A)	Dispersion of dry aerosol particles such as mineral dust
PALAS condensation particle generator (MAG 3000)	Generation of nearly monodisperse servovoltmeter aerosols
TG differential mobility analyzer (DMA) (3680U)	Size selection of aerosol particles up to 1 μm
TG scattering mobility particle size (DMA+SPC) (3772)	Measurement of the aerosol size distribution from 0.05 to 1 μm
Scanning particle sizer (SPS) (36T)	Measurement of the aerosol size distribution from 0.2 to 10 μm
Photocount nephelometer (scattering)	Measurement of description and scattering of aerosol at fixed wavelength
GHT SP2 soot photometer	Detection of aerosol particles through their scattering signal and quantification of the soot content through incandescence
Combustion centrifugal particle mass analyzer	Selection of aerosol based on mass or charge ratio, can also measure the particle size distribution on the shape of particle when coupled with the CPMAs
Birefringent Mg pumped crossed flow virtual impactor (CVI)	Separation of cloud droplets and crystals from interstitial aerosol
GHT cloud condensation nucleus counter (CCN-1B)	Measurement of the cloud condensation nuclei spectrum
Applied analytical PL3 (A3230B)	Application analytical probe for aerosol particle size solution for aqueous chemical probes
Directional Doppler lidar (Row-Eye)	Measurement of the cloud droplet size distribution of two components of the droplet velocity vector
HDense Fiber detector, and Burn Spectrum Analyzer	Measurements of the cloud droplet and ice crystal size distribution along with the three-dimensional position of the冰晶
Holographic cloud measurement system (cature)	Measurements of the cloud droplet and ice crystal size distribution along with the three-dimensional position of the冰晶
U-COR LI-750A open path H ₂ O analyzer	Measurement of the water vapor concentration in the chamber with a frequency up to 20 Hz
LakeShore 218 temperature monitor and resistance thermometers (Micro)	Measurement of the temperature in the chamber
Applied Technologies, Inc. sonic anemometer-V probe	Measurement of the air velocity vector with a frequency up to 20 Hz and an integration time of 10 ms
2D cloud imaging system (scattering)	Spatial and temporal distribution of cloud with a laser light sheet and camera
Thermistor array	Measurement of temperature spatial profile in the chamber

Napoleon, -- I, Emperor of the French.
Condensation.

Particles (Nuclear physics)

Atmospheric nucleation -- Measurement.

Air -- Pollution -- Measurement. Condensation-nuclei (Aitken particle) measurement system used in the NASA Global atmospheric sampling program

Livre de poche -- 345

NASA technical paper -- 1415.

NASA technical paper ; 1415 Condensation-nuclei (Aitken particle) measurement system used in the NASA Global atmospheric sampling program

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Tags: #Atmospheric #Aerosols: #Some #Highlights #and #Highlighters, #1950 #to #2018

A global view on the effect of water uptake on aerosol particle light scattering

Impact of fuel quality regulation and speed reductions on shipping emissions: implications for climate and air quality.

ACP

With routine particle chemistry emerging in the literature, advanced studies adopted special laboratory measurements of particle chemistry that began to explore hypotheses about particle components Chow et al. These three compositions were chosen because they can be produced using a flow tube reactor or an atomizer, and represent a range of different particle compositions similar to those found in the atmosphere. Error bar represents the 1 standard deviation.

Characterizing the Particle Composition and Cloud Condensation Nuclei from Shipping Emission in Western Europe

Furthermore, the particle transport efficiencies of the sampling line between the inlet and the measurement container have been calculated with respect to diffusion and inertial deposit in bends. In-situ shipboard measurements from the RV Discoverer ACE 1 and the RV Professor Vodyanitskiy ACE 2 , combined with calculated back trajectories can be used to define the physical properties of the submicron aerosol in marine boundary layer MBL air masses from the remote Southern Ocean, western Europe, the Iberian coast, the Mediterranean and the background Atlantic Ocean.

Sampling Characteristics of an Aircraft

Through his activities, man can modify these natural emissions.

Glossary of Terms and Acronyms

The measurement uncertainty for both instruments is shown in Fig. This photograph shows a long winding track of a primary electron and four branches of tracks made by secondary electrons. Microwave radiation is emitted by the Earth's surface and by water droplets within clouds.

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