

Seminar on Physics and Chemistry of the Atmosphere

Institute of Environmental Physics (IUP), Univ. Bremen

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Third Cabauw INtercomparison of UV-VIS DOAS Instruments (CINDI-3)

Kai Krause, Andreas Richter, Kezia Lange, Simon Bittner, André Seyler, Attahir Mainika, Anja Schönhardt, Mihalís Vrekoussis

The third Cabauw INtercomparison of UV-Vis DOAS Instruments (CINDI-3) took place from May 21st to 24th of June 2024 at the remote sensing site of the Cabauw Experimental Site for Atmospheric Research (CESAR). The site is located in the Netherlands between the cities of Utrecht and Rotterdam. Aim of this campaign is the intercomparison of different UV-Vis DOAS instruments, therefore stationary instruments were set up in close vicinity to each other and followed the same strict data acquisition protocol, to enable a direct comparison of different instruments. The stationary measurements were supplemented by Car-DOAS and airborne DOAS measurements, as well as additional instruments that are routinely on site (e.g., wind lidars, ceilometers and other meteorological instruments). In total about 30 different working groups, institutes, and companies participated in this campaign with more than 70 instruments. The DOAS group of the IUP participated with 5 instruments (MAX-DOAS, Imaging DOAS, rapid zenith sky DOAS, two Car DOAS).

In this talk we will present a general overview of the campaign, its goals, the activities during the campaign, the challenges associated with those, and first results.