



Supplement of

CAMP: an instrumented platform for balloon-borne aerosol particle studies in the lower atmosphere

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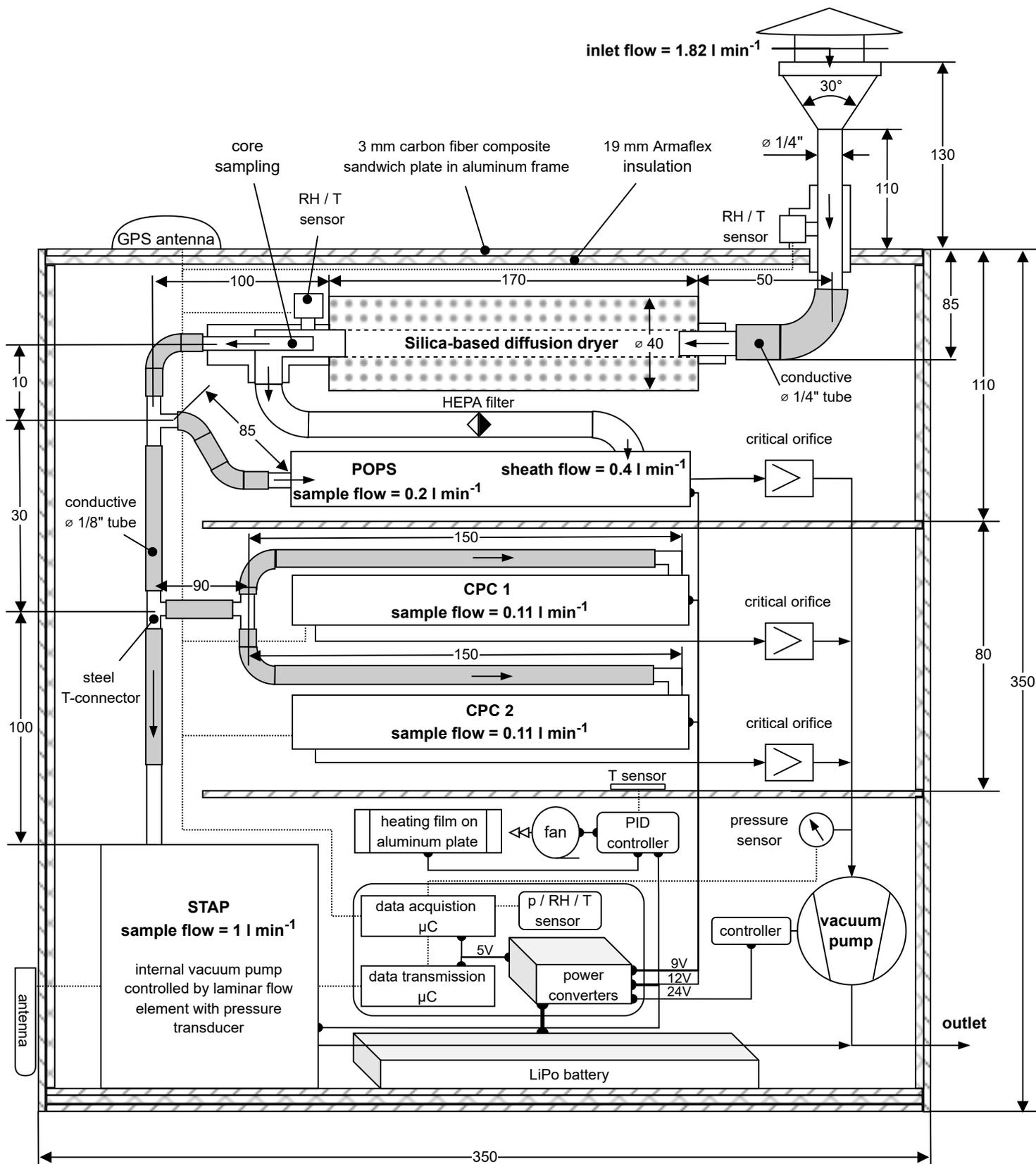


Figure S1 Simplified technical sketch of the CAMP system not true to scale.

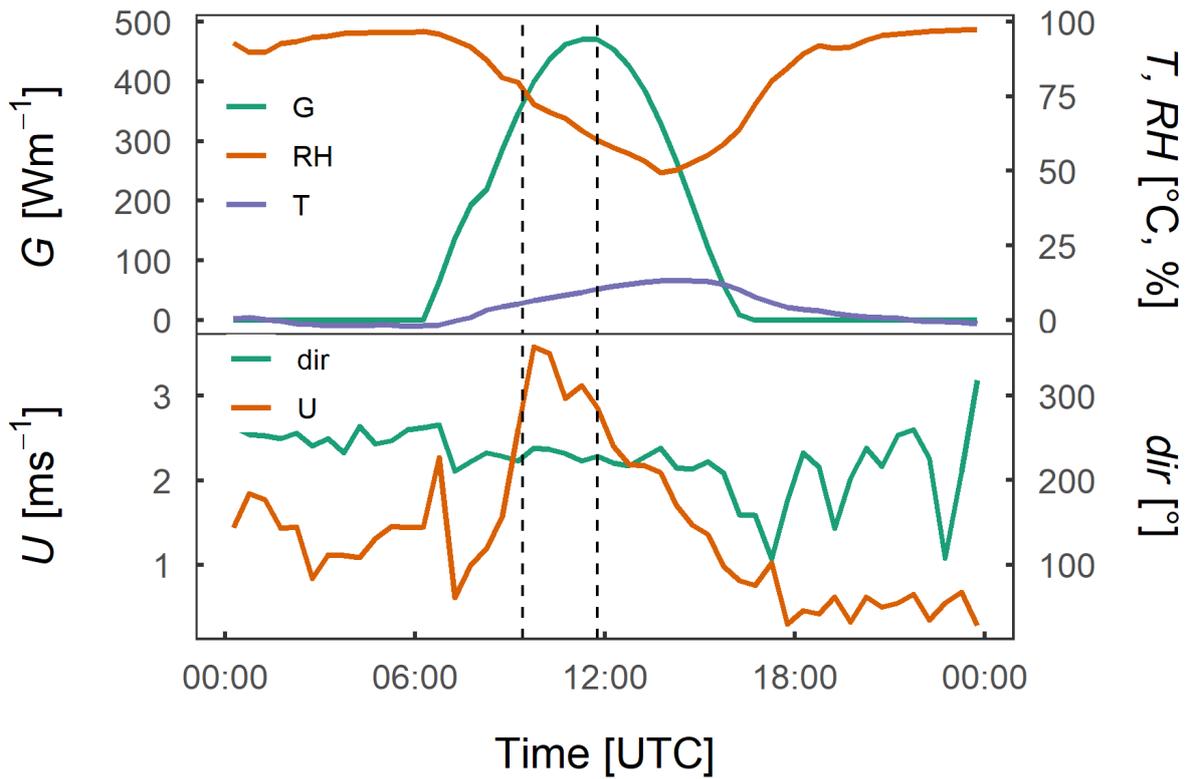


Figure S2 Time series of global radiation (G), temperature (T), relative humidity (RH), wind speed (U), and wind direction (dir) at Melpitz on 15 February 2019. The vertical dashed lines mark the starting time of the first and the end of the second balloon flight.

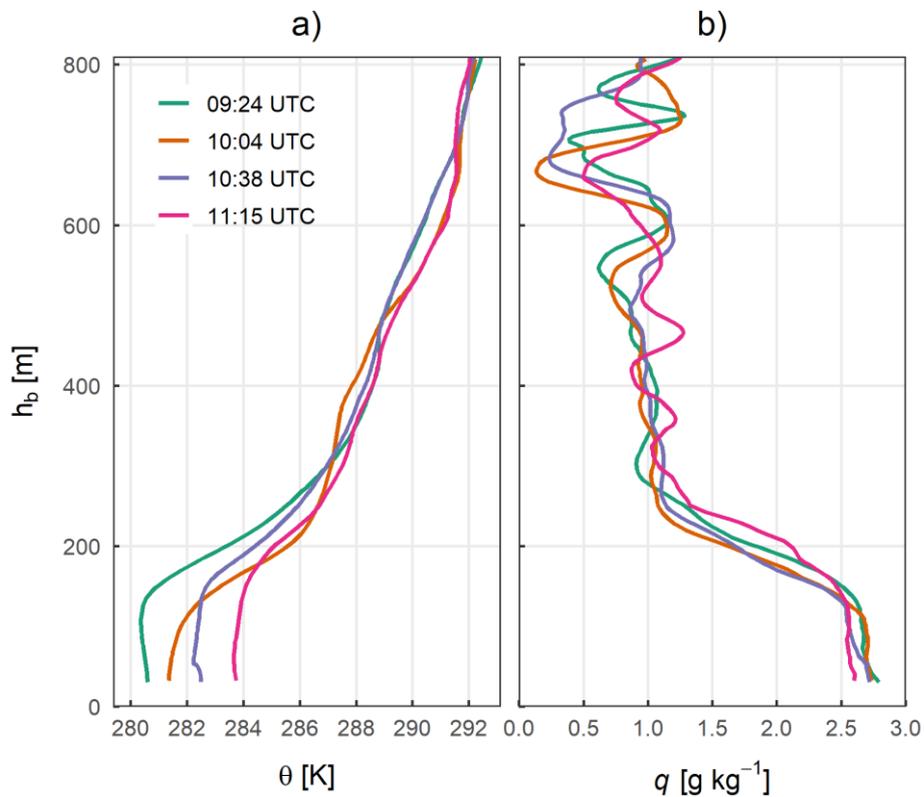


Figure S3 Vertical profiles of a) potential temperature (θ) and b) water vapor mixing ratio (q) displayed as 5 m averages. Balloon-borne observations were made during two flights in Melpitz on 15 February 2019, and displayed times represent the start of either an ascent or descent profile.

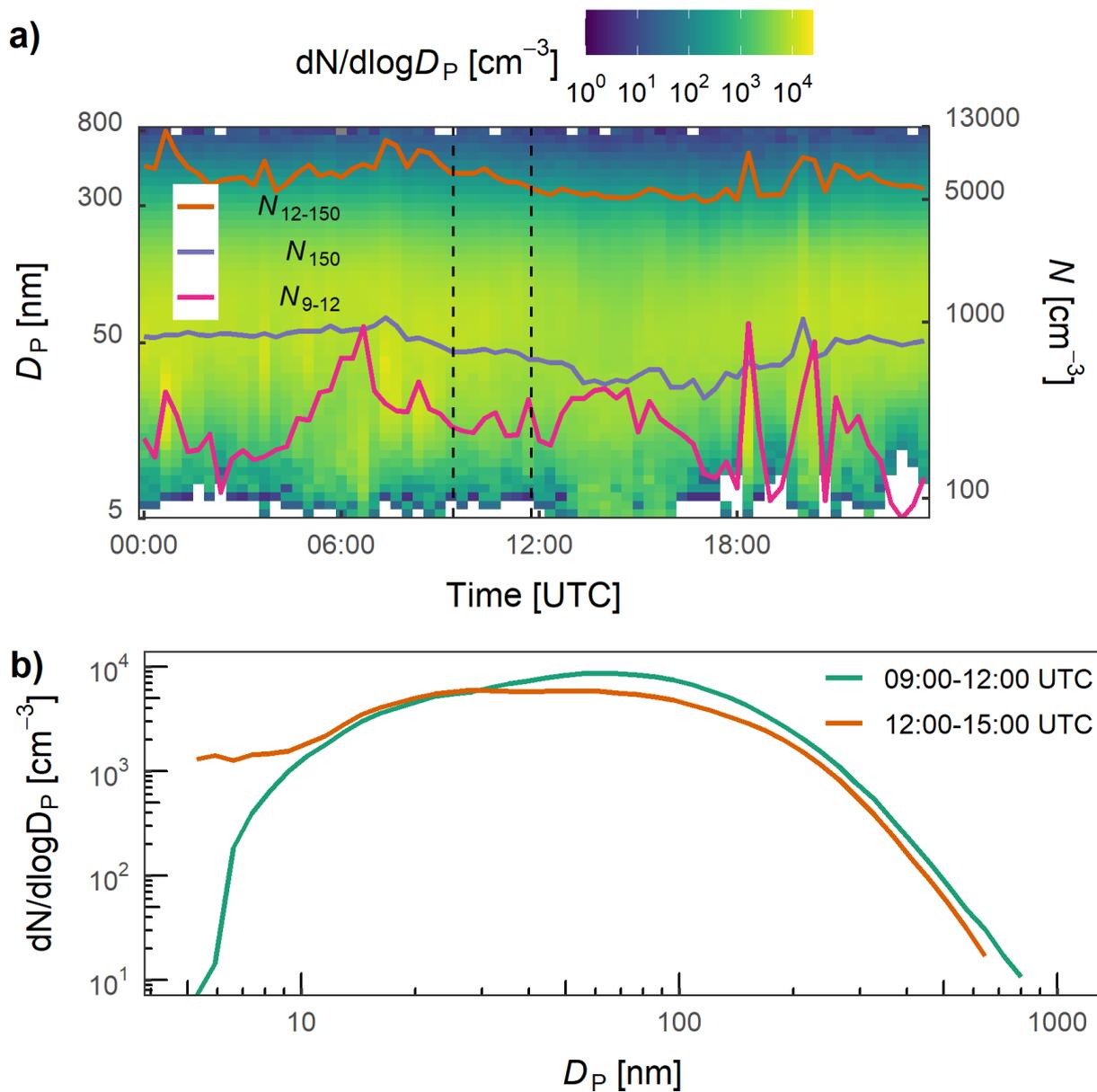


Figure S4 a) Time series of the PNSD and integrated particle number concentrations in size range from 9 to 12 nm (N_{9-12}), 12 to 150 nm (N_{12-150}), and above 150 nm (N_{150}) measured by MPSS at Melpitz on 15 February 2019. The vertical dashed lines mark the starting time of the first and the end of the second balloon flight. b) Mean PNSD in the late morning and early afternoon hours from MPSS measurements.