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Supplement of

UFP, BC, and PM$_{2.5}$ measurements and the effect of dispersion conditions on concentration levels in a residential area affected by wood smoke pollution from domestic heating during the winter months

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UFP-, BC-, and PM2.5- measurements and effect of dispersion conditions on concentration levels in a residential area affected by wood-smoke pollution from domestic heating during the winter months

Supplementary information

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This supplementary information provides further data analysis on ambient parameters (temperature, pressure, relative humidity) obtained from the sensors of the Fidas Smart 100 device. Additionally, the $PM_{2.5}$-concentrations for the measurement period are evaluated within a Heat Map similar to UFP-concentrations in the main manuscript. Correlations for all these parameters are displayed in the form of scatterplots to provide further context on possible (or the lack of possible) correlations.
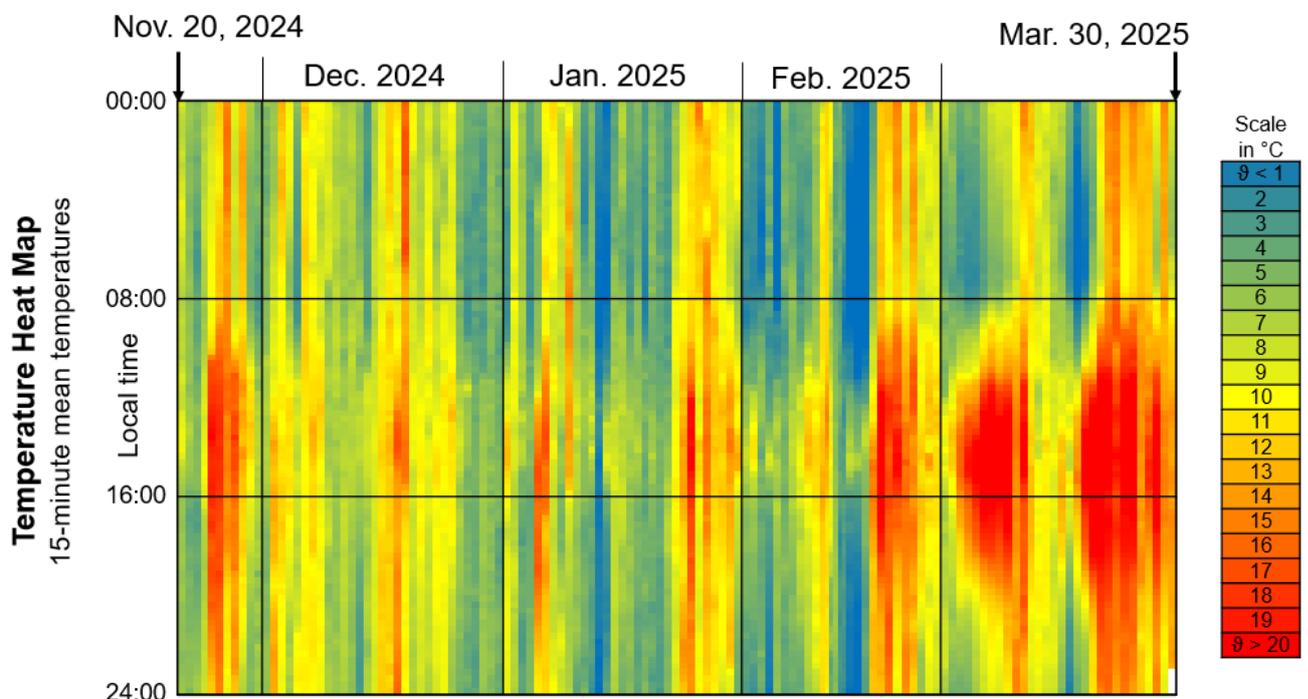

Figure S1 - Heat Map of 15-minute mean temperatures for the entire duration of the measurements
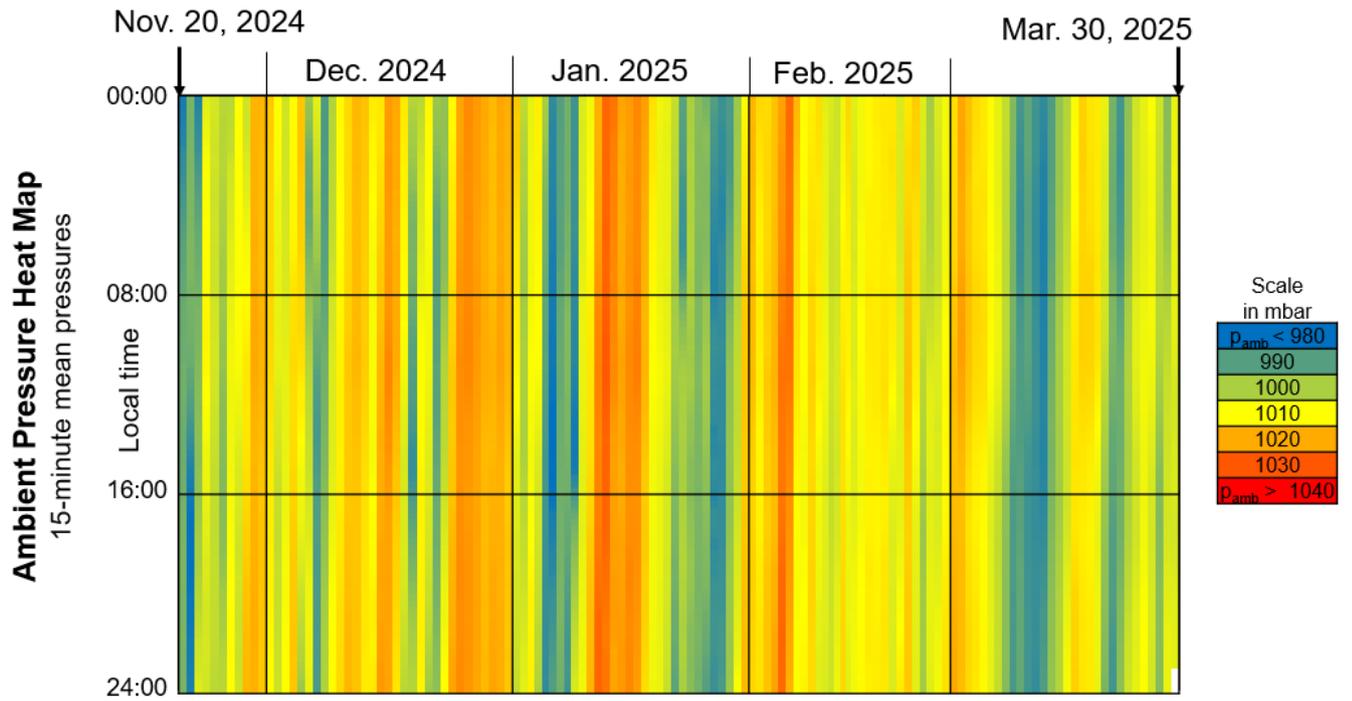
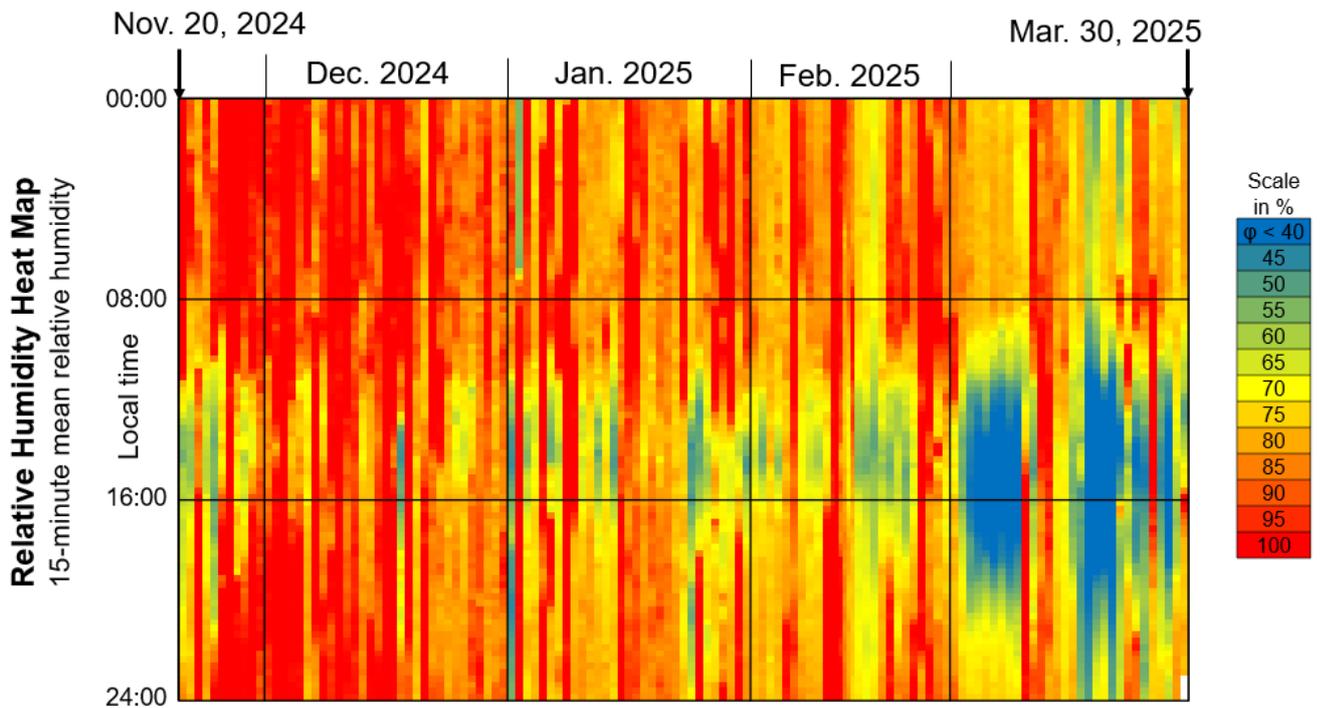**Figure S2 - Heat Map of 15-minute mean pressures for the entire duration of the measurements**

Figure S3 - Heat Map of 15-minute mean relative humidities for the entire duration of the measurements
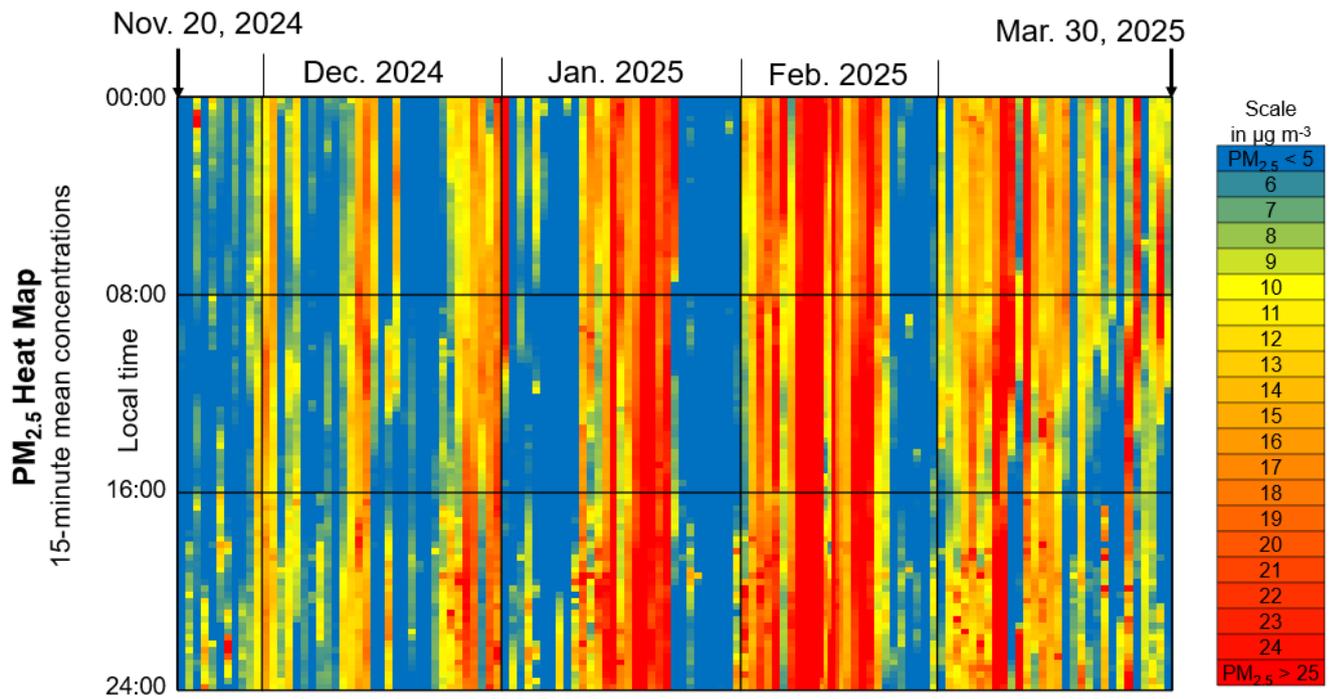
Figure S4 - Heat Map of 15-minute mean PM$_{2.5}$ concentrations for the entire duration of the measurements
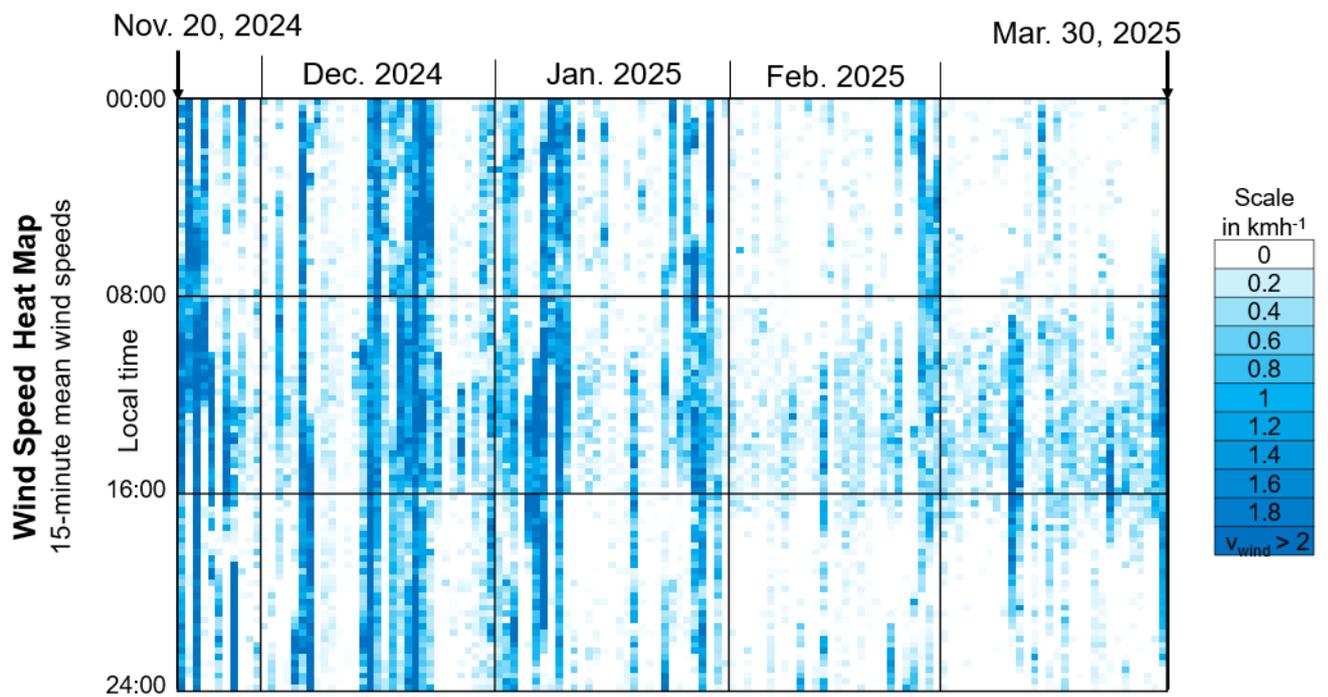

Figure S5 - Heat Map of 15-minute mean wind speeds for the entire duration of the measurements

Scatterplots of 15-minute mean UFP concentrations with
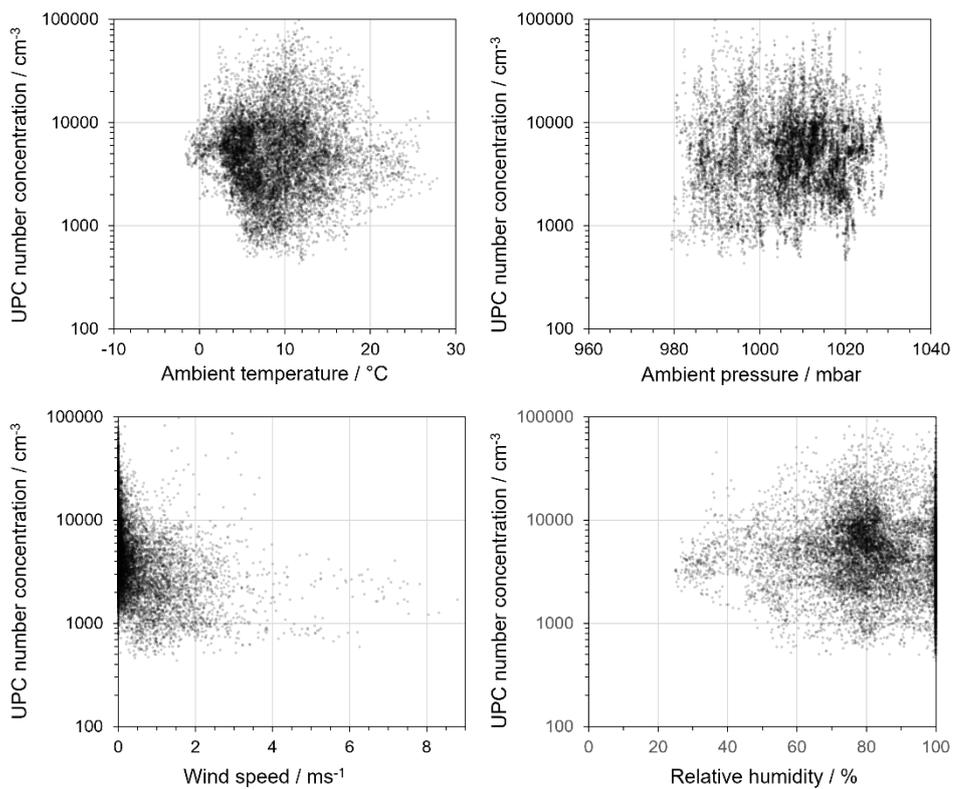15-minute mean parameters of several ambient conditions

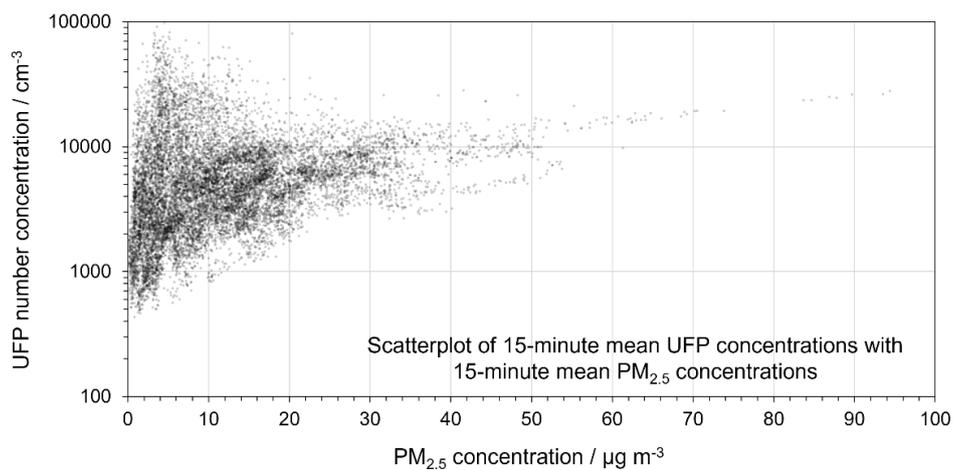**Figure S6 – Scatterplots of UFP-concentration and various ambient air parameters**

Figure S7 – Scatterplots of UFP- and PM₂.₅ concentrations
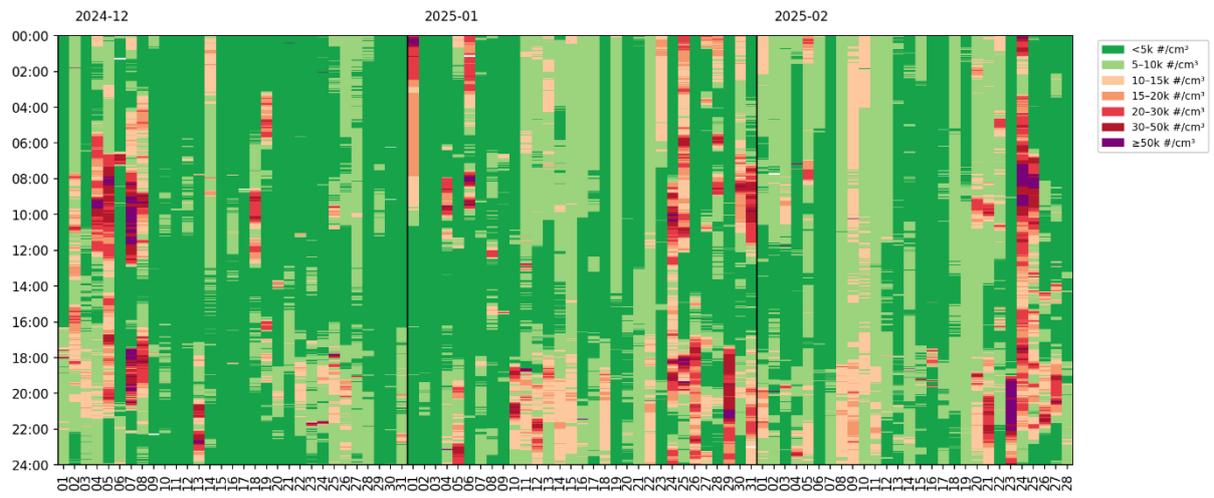
Figure S8 – Heat Map of UFP-concentrations (1-minute time resolution) for December 2024 – February 2025