Supplement of

Seasonal study of stable carbon and nitrogen isotopic composition in fine aerosols at a Central European rural background station

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Supplementary Information:

Fig. S1: Relationship of the sum of nitrate and ammonium nitrogen measured by ion chromatography to the total aerosol nitrogen measured by EA.

\[ y = 0.85x - 0.12 \]

\[ r = 0.99 \]
Fig. S2: Comparison of TC from EA-IRMS and TC from the EC/OC analyzer measured in parallel to filter sampling (both PM1 aerosols).
Fig. S3: Relationships of $\delta^{15}$N in TN vs. the natural logarithm of NO$_3^-$ concentrations. The larger circles indicate higher NH$_4^+$ concentrations. The color scale reflects the time of sample collection.
Fig. S4: Wind directions in different seasons during the measurement campaign.
Fig. S5: Relationships of $\delta^{15}$N in TN vs. S0$_4^{2-}$ concentrations. The larger circles indicate higher NH$_4^+$ concentrations. The color scale reflects the time of sample collection.