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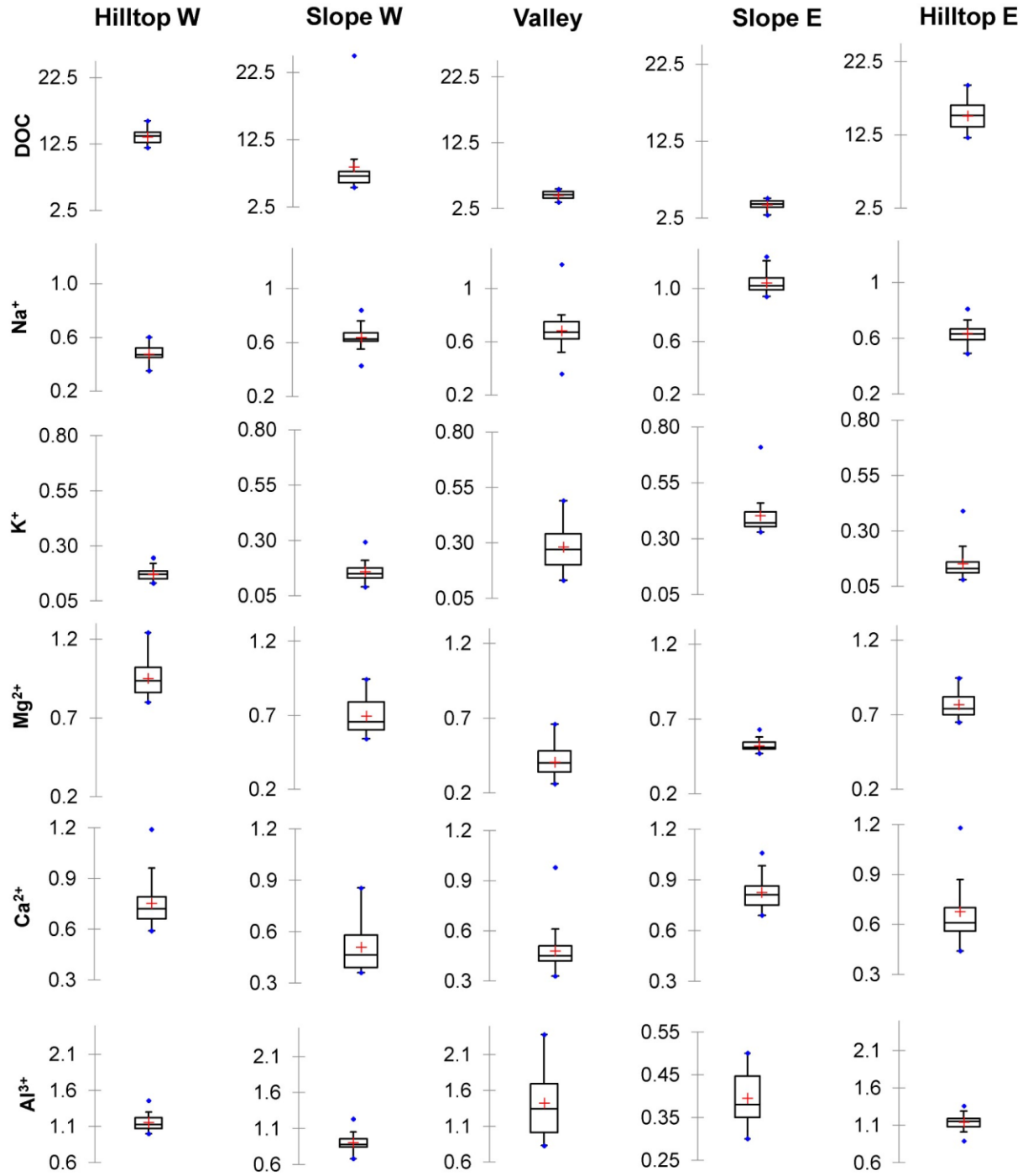
Supplement of

Spatially resolved soil solution chemistry in a central European atmospherically polluted high-elevation catchment

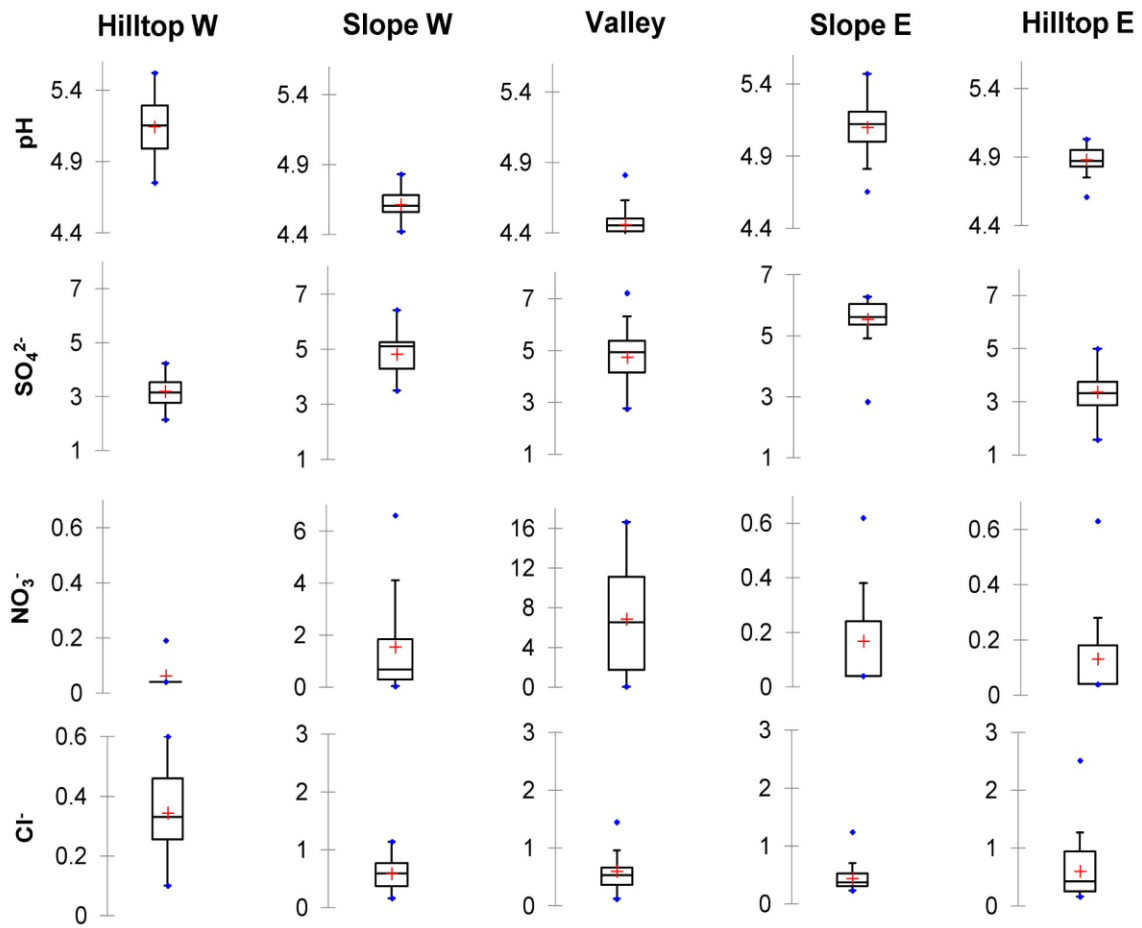
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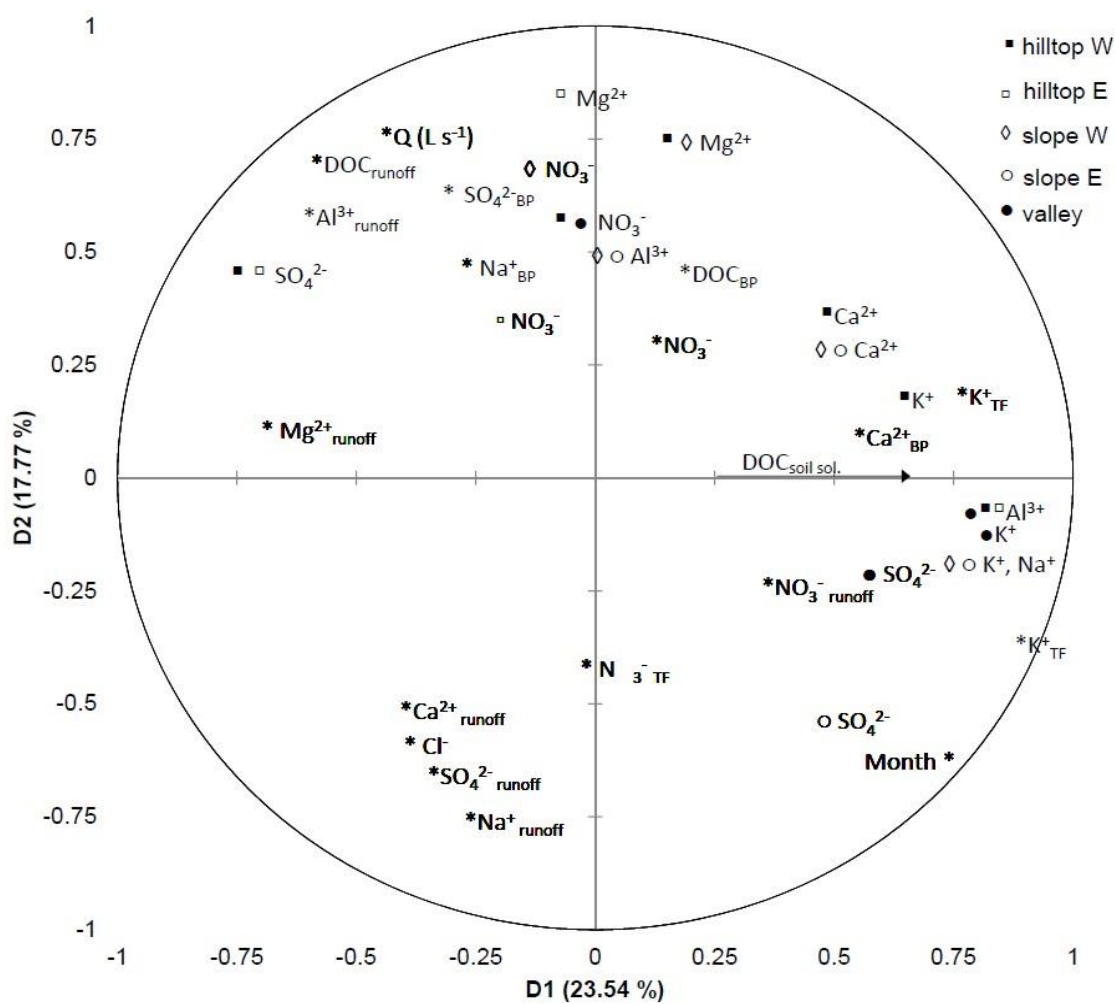
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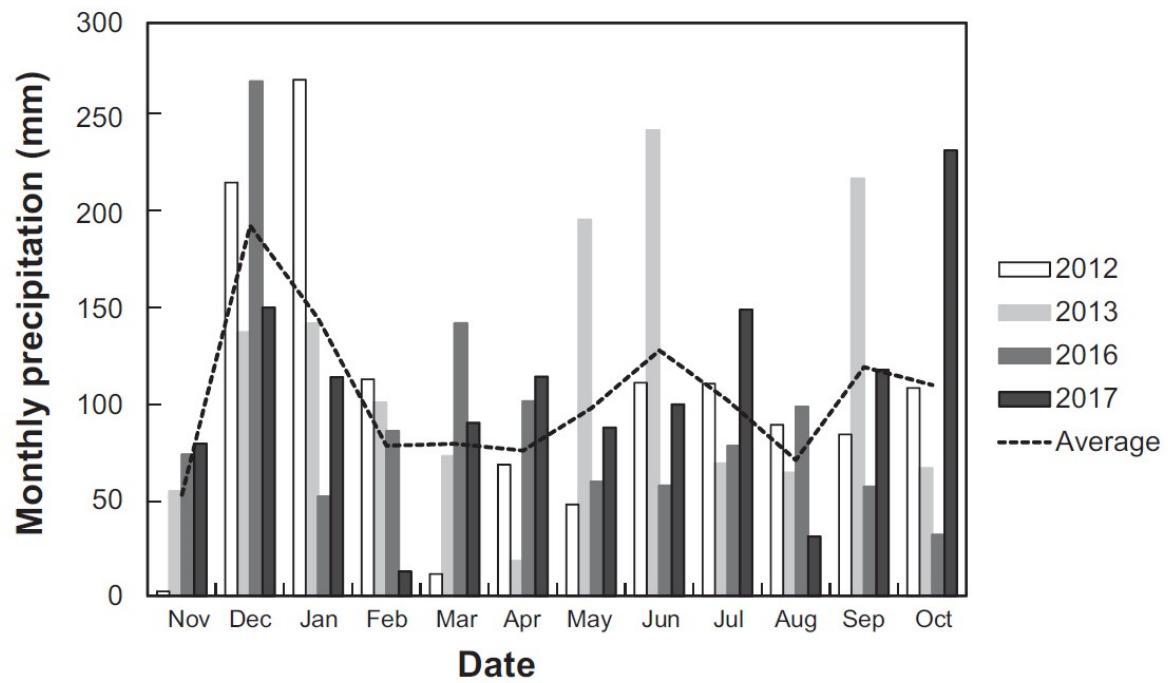
Supplement. Figure S1. Descriptive statistics (2012- 2013) for soil water concentration values of dissolved organic carbon, sulfate, nitrate, base cations, Al and chloride (in mg L⁻¹) and pH values at the 50-cm depth at UDL. The statistical distribution shows minimum, first quartile, median, third quartile and maximum for individual samples



Supplement. Figure S1. Cont.



Supplement. Figure S2. Non-parametric multidimensional scaling ordination of time-series hydrochemical data for runoff, atmospheric and soil solutions collected in lysimeters. Note that only varimax rotated parameters exhibiting statistical significance > 0.25 are shown. The variables describe 41.3 % of the co-variation



Supplement. Figure S3. Comparison of monthly precipitation volumes at UDL during the monitoring period (2012-2013) vs. the hydrologic years 2016-2017.

Supplement. Table S1. Coefficient of variation (%) of inorganic species across our lyzimeter network.

Analyte	Hilltops	Slopes	Valley
SO ₄ ²⁻	17	17	15
NO ₃ ⁻	2	15	17
Al ³⁺	8	10	12
Na ⁺	9	10	11
K ⁺	55	40	33
Mg ²⁺	12	21	15
Ca ²⁺	7	17	6

Calculation is based on six triplicates for hilltop and slopes and three triplicates for the valley location. The triplicates were obtained each fourth month.