



Supplement of

Hydrological controls on temporal contributions of three nested forested subcatchments to the export of dissolved organic carbon

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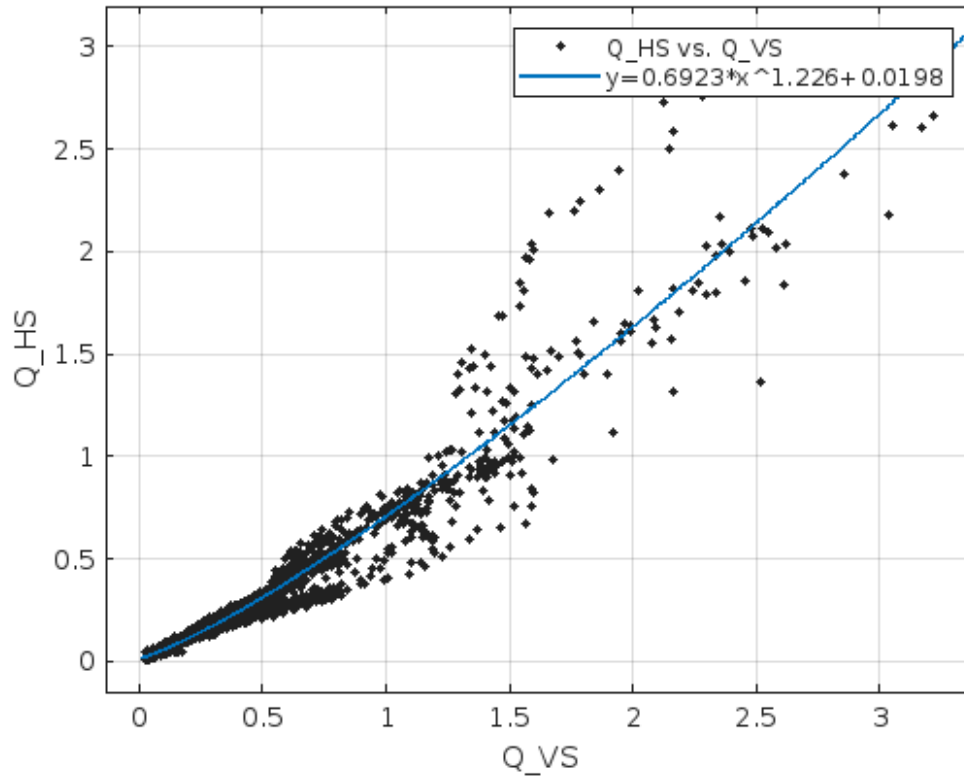


Figure S1: Relationship between the discharge (in $\text{m}^3 \text{s}^{-1}$) of the catchment Vorderer Schachtenbach (Q_{VS}) and the catchment Hinterer Schachtenbach (Q_{HS}), which was used for the gap filling of missing discharge data at Hinterer Schachtenbach from August 1st to September 3rd, 2020 ($R^2 = 0.94$). The relationship was established using data from August 2019 to July 2020.

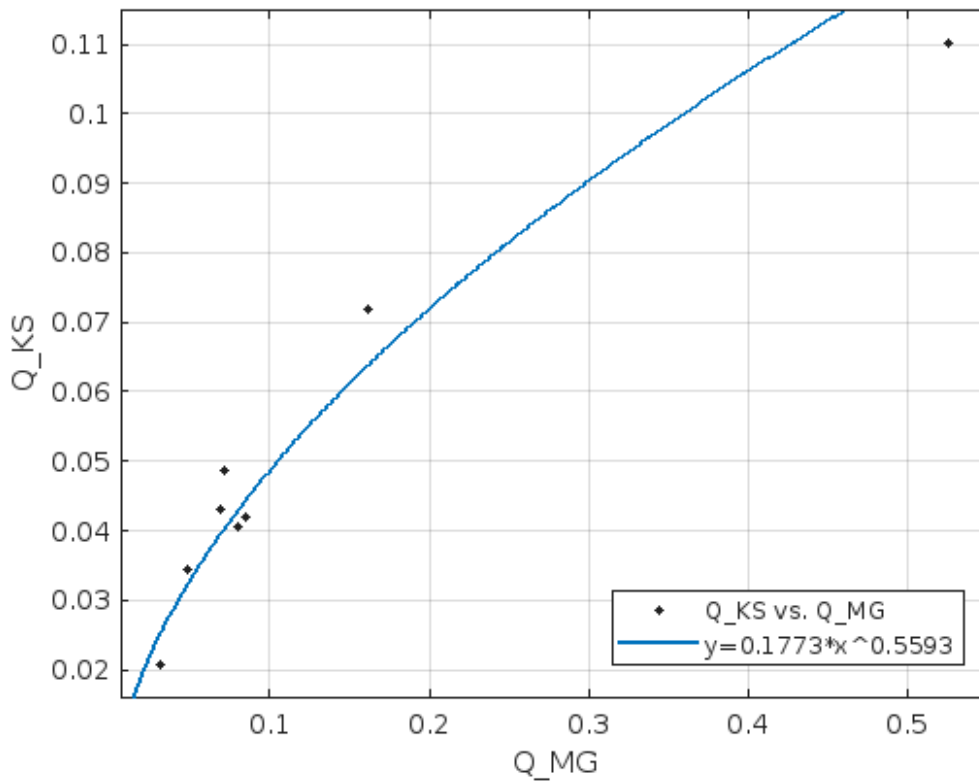


Figure S2: Relationship of discharge (in $\text{m}^3 \text{s}^{-1}$) at MG (Q_{MG}) and KS (Q_{KS}), which was measured at KS via tracer dilution on eight occasions between April and December 2021 ($R^2 = 0.95$).

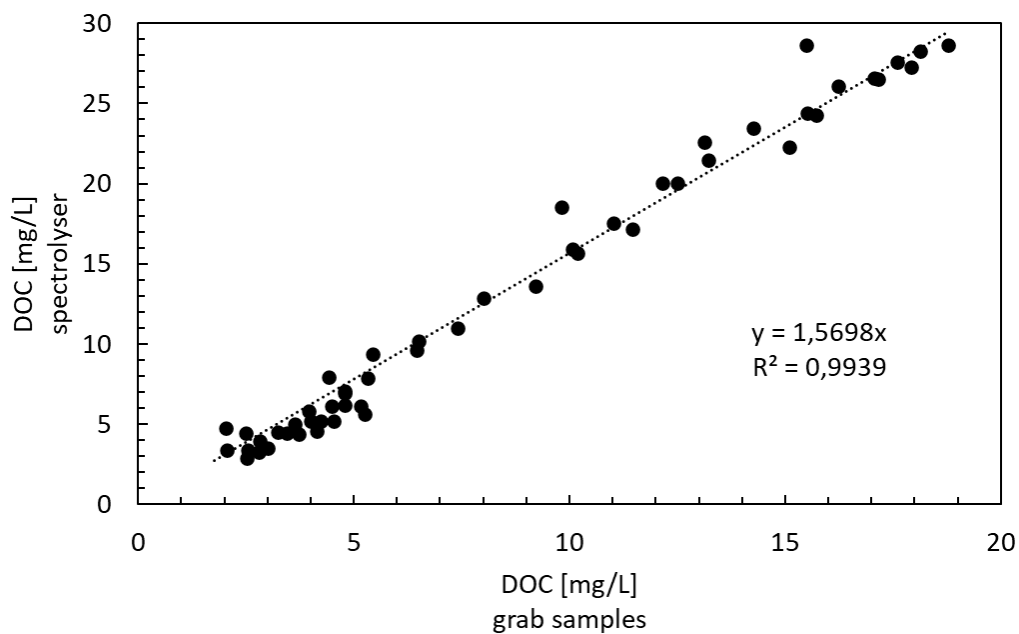


Figure S3: Correction factor used for the DOC concentrations measurements made by UV-Vis spectrophotometer D1 using grab stream samples at various discharge conditions (n = 52).

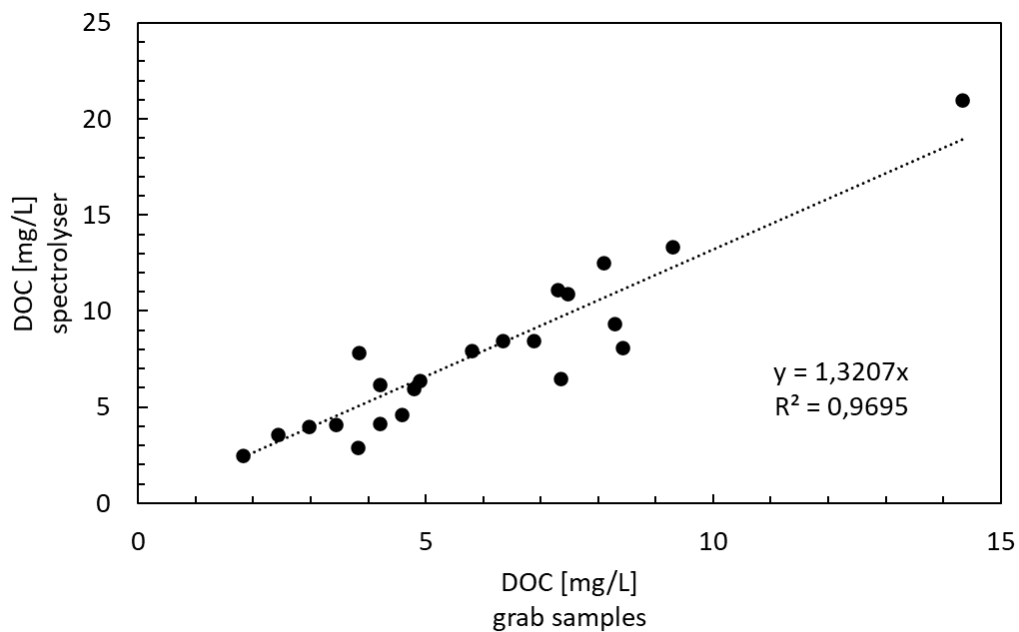
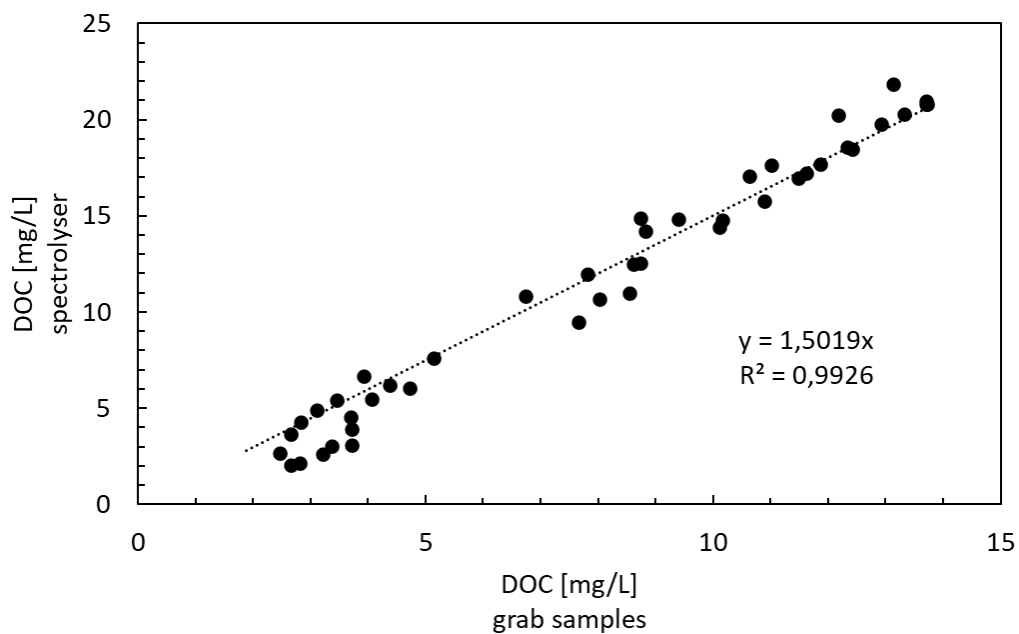


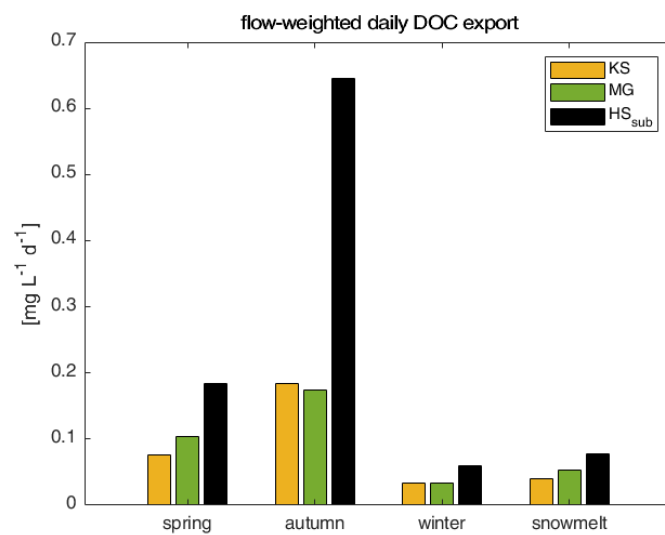
Figure S4: Correction factor used for the DOC concentrations measurements made by UV-Vis spectrophotometer D2 using grab stream samples at various discharge conditions (n = 22).



25 **Figure S5: Correction factor used for the DOC concentrations measurements made by UV-Vis spectrophotometer D3 using grab stream samples at various discharge conditions (n =44).**

30 **Table S1: Percentages of total time, total runoff generated and total DOC export for the catchment HS_{tot} per hydrological period.**

	%time	%runoff	%DOC export
Spring	17	22	26
Summer	24	12	11
Autumn	16	14	21
Winter	17	9	4
Snowmelt	26	43	38



35 **Figure S6: Mean daily flow-weighted DOC export from the subcatchments KS, MG and HS_{sub} during the different hydrological periods.**