Supplement of

Hydrological Controls on Temporal Contributions of Three Nested Forested Subcatchments to DOC Export

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1. Gapfilling of missing discharge data

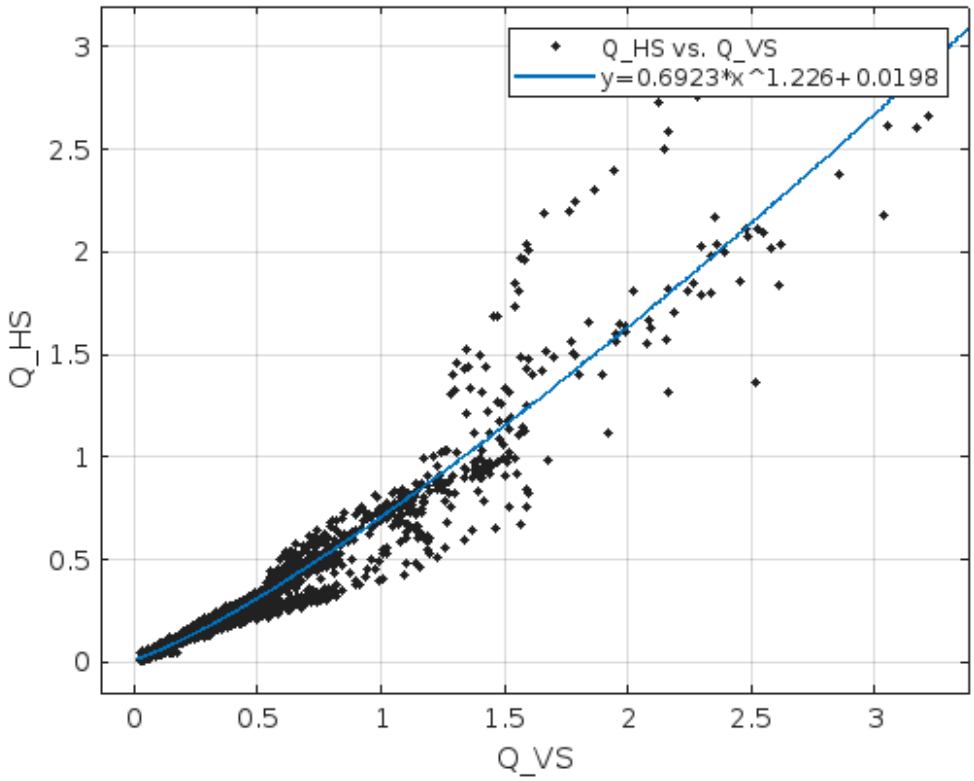

Figure S1: Relationship between the discharge (in m^3 s^{-1}) of the catchment Vorderer Schachtenbach (Q_VS) and the catchment Hinterer Schachtenbach (Q_HS), which was used for the gap filling of missing discharge data at Hinterer Schachtenbach from August 1st to September 3rd, 2020 (R^2 = 0.94).

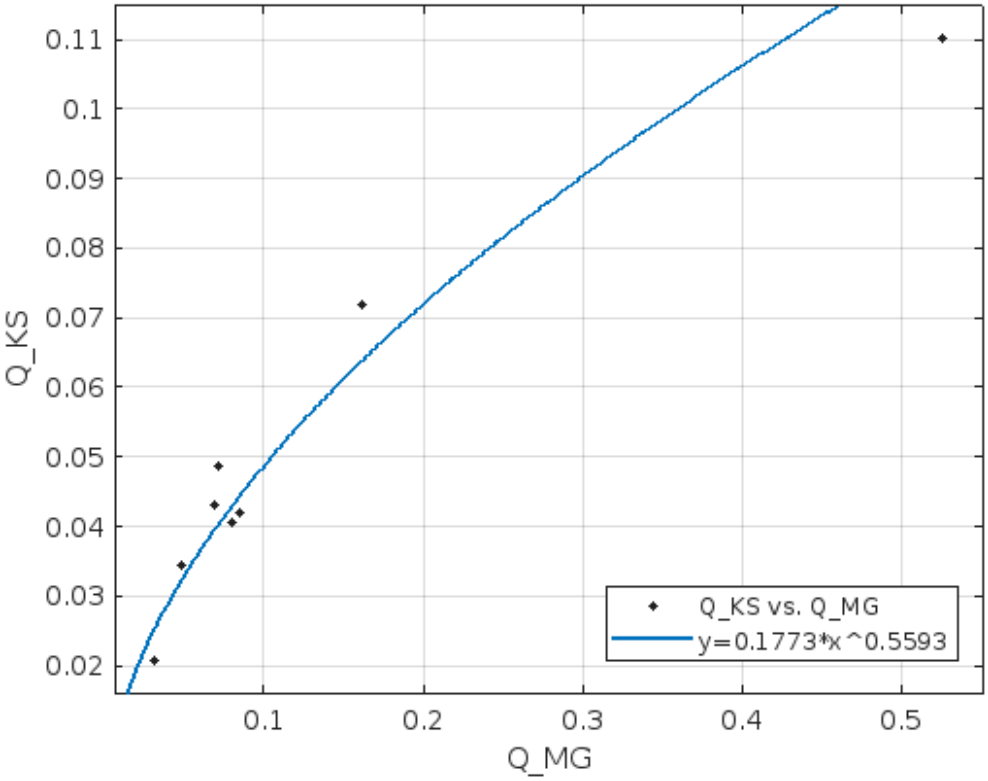

Figure S2: Relationship of discharge (in $m^3 s^{-1}$) at MG (Q_MG) and KS (Q_KS), which was measured at KS via tracer dilution on eight occasions (R^2 = 0.93).

2. Correction of DOC concentrations, determined by UV-Vis spectrophotometers, with DOC concentrations measured in grab samples

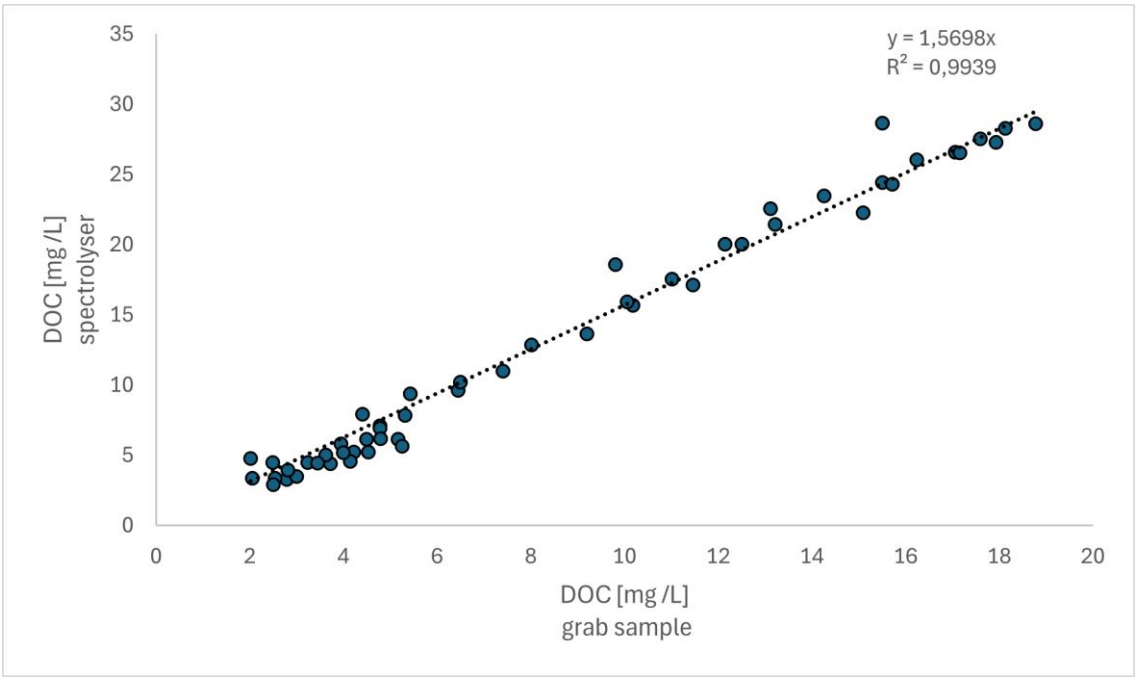

Figure S3: Correction factor used for the DOC concentrations measurements made by UV-Vis spectrophotometer D1 using grab stream samples at various discharge conditions (n = 52).

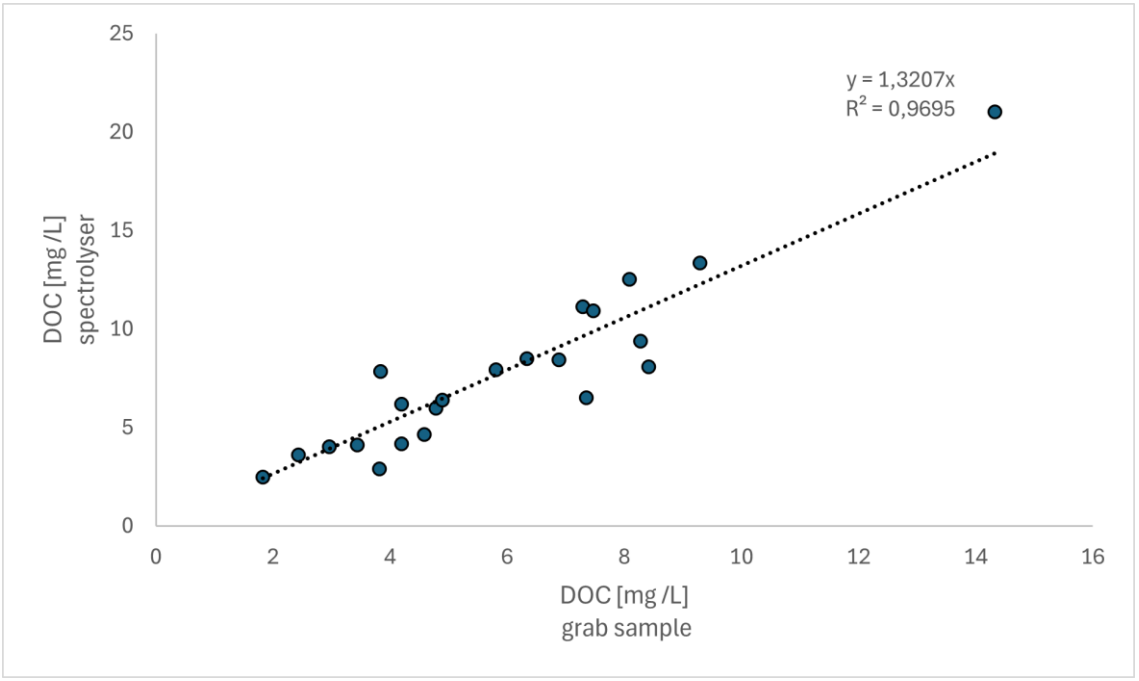

Figure S4: Correction factor used for the DOC concentrations measurements made by UV-Vis spectrophotometer D2 using grab stream samples at various discharge conditions (n = 22).

30

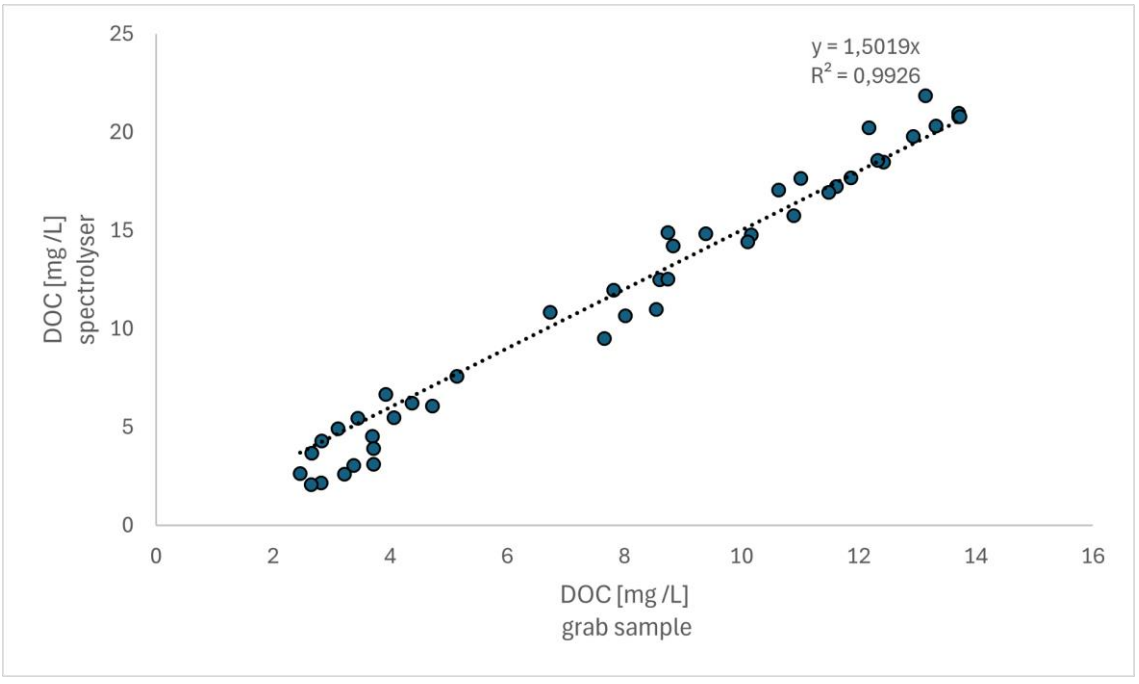

Figure S5: Correction factor used for the DOC concentrations measurements made by UV-Vis spectrophotometer D3 using grab stream samples at various discharge conditions (n =44).

3. DOC export from the subcatchments

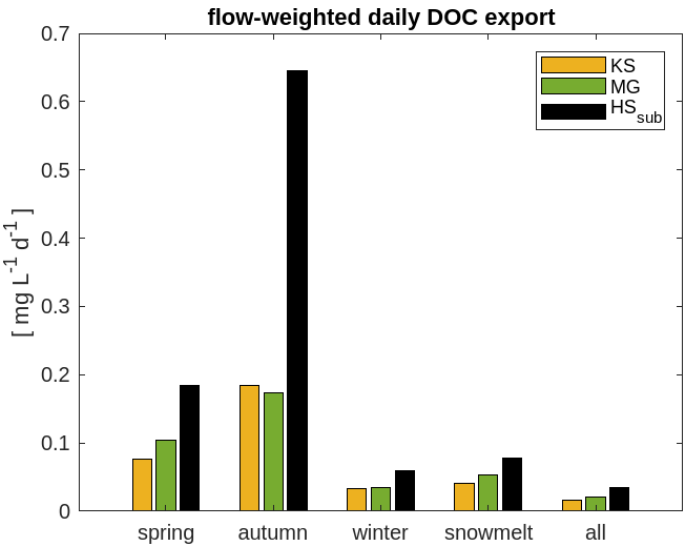

Figure S6: Mean daily flow-weighted DOC export from the subcatchments KS, MG and HS_{sub} during the different hydrological periods.