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Combining traditional nutrient load analysis with storm hydrograph separation reveals concealed patterns in event-driven nutrient export in a rural headwater catchment

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Figure S1. Calibration curve for UV-VIS in situ instrument

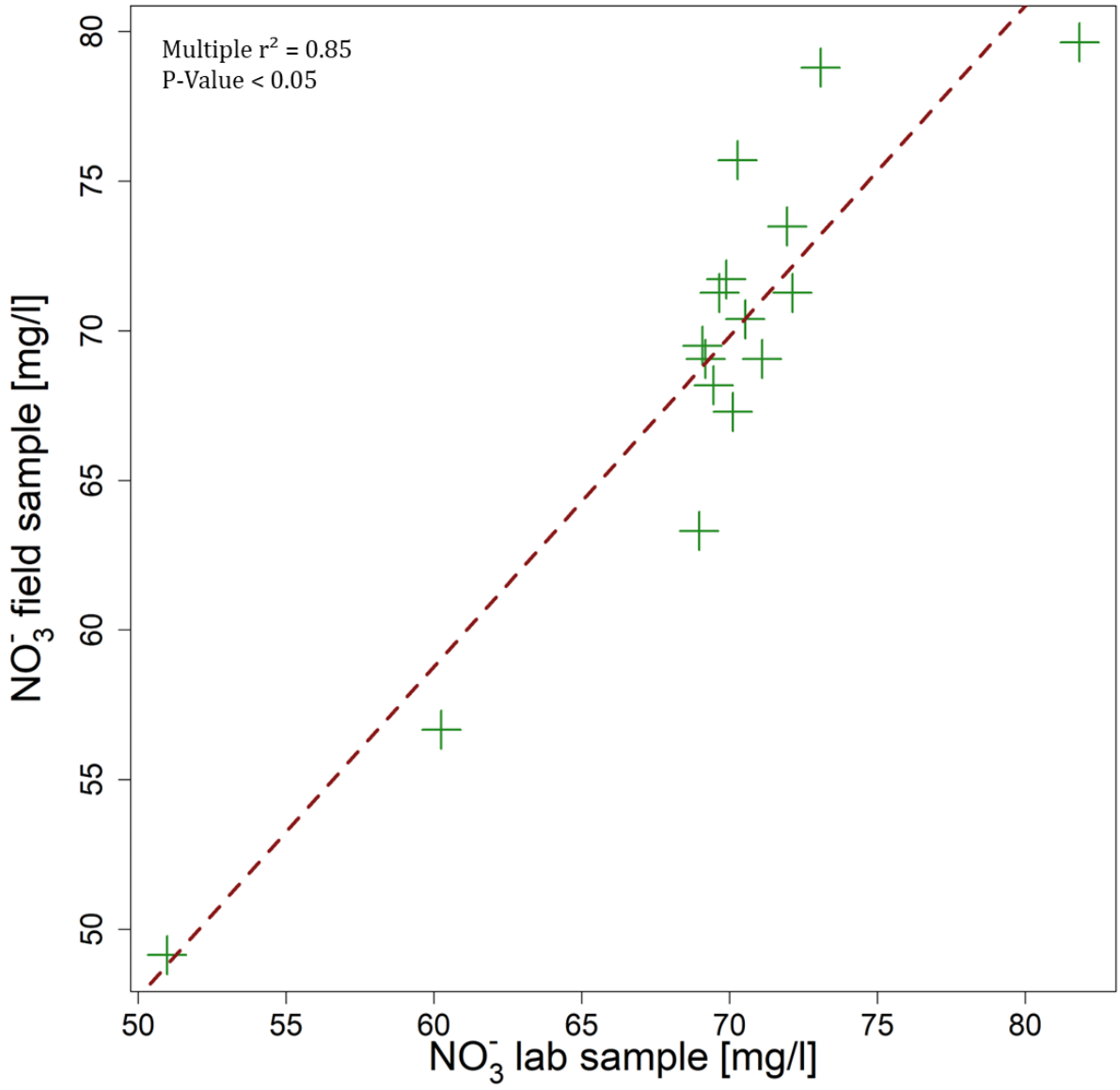
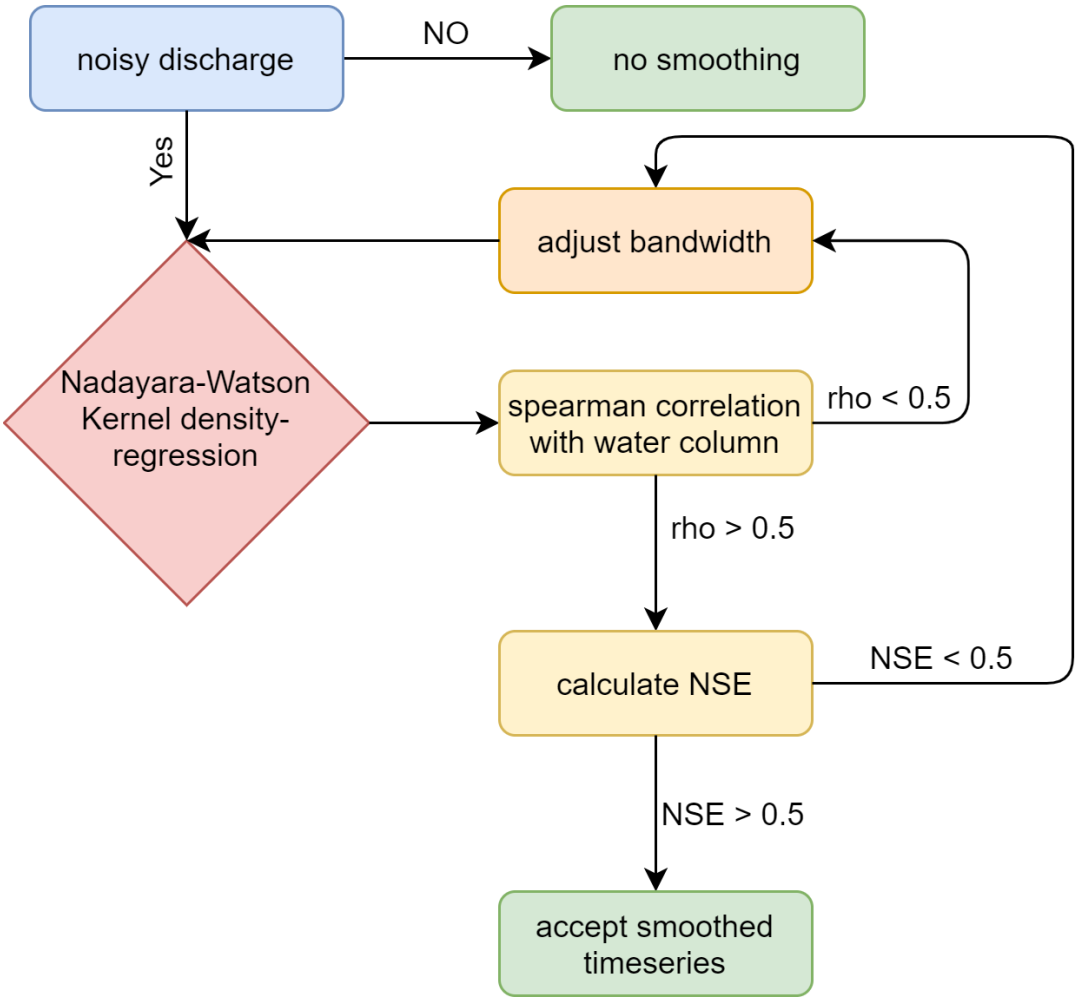


Figure S2. Flowchart of smoothing algorithm and example of execution



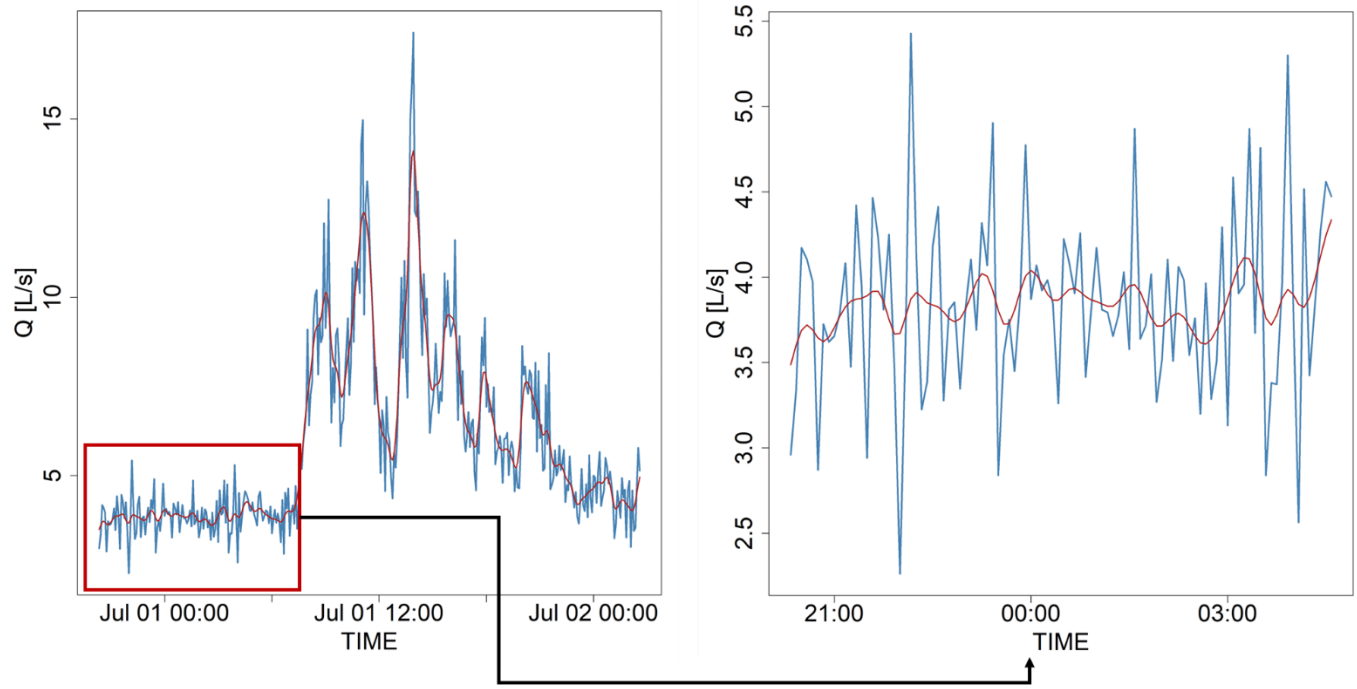


Figure S3. Local meteoric waterline

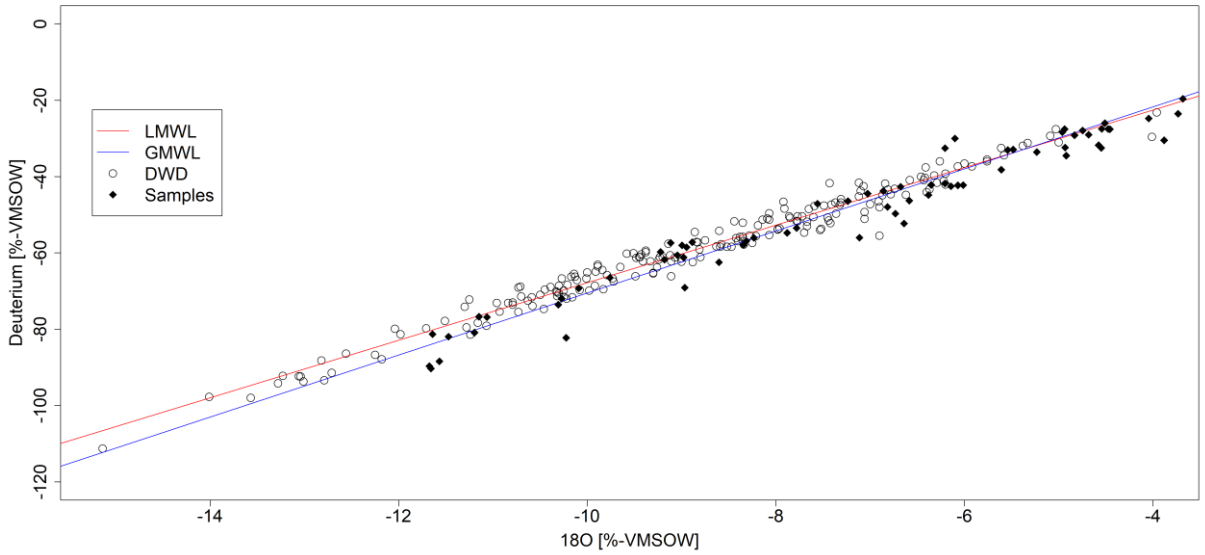


Figure S4. Scree plot example

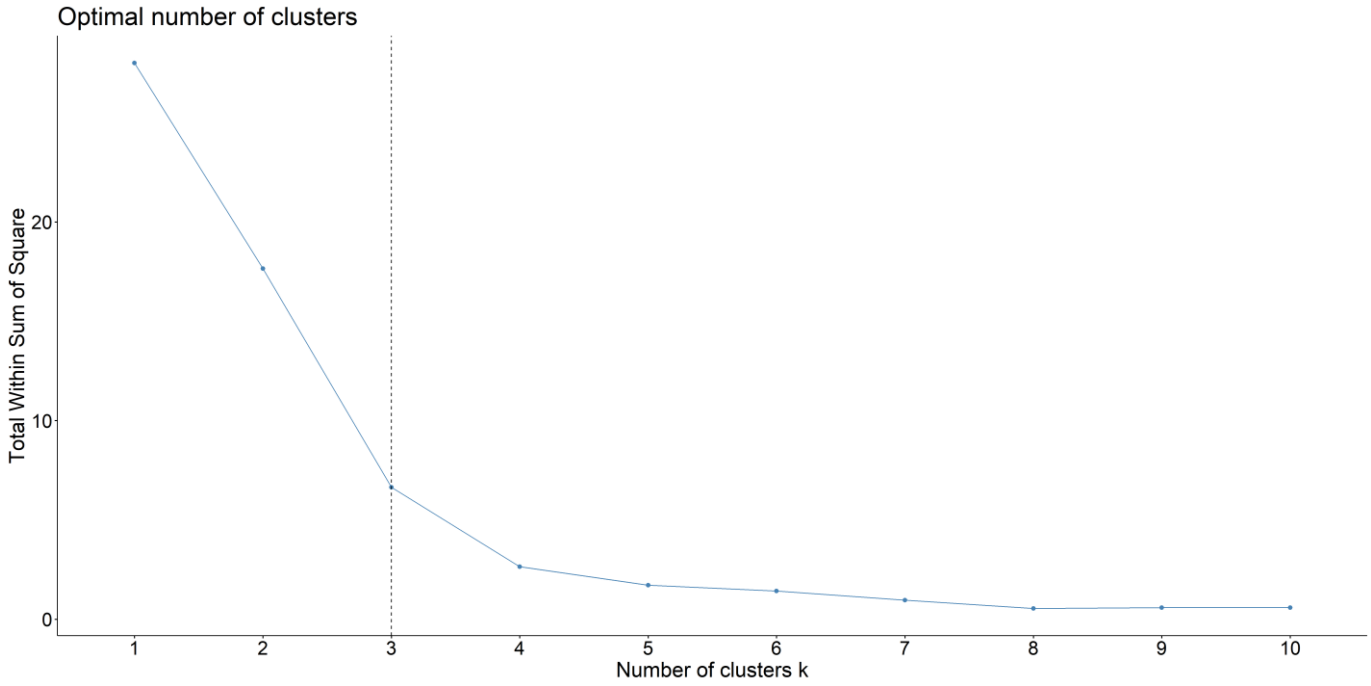


Figure S5. Discharge functions per cluster a) blue cluster, b) red cluster, c) green cluster.

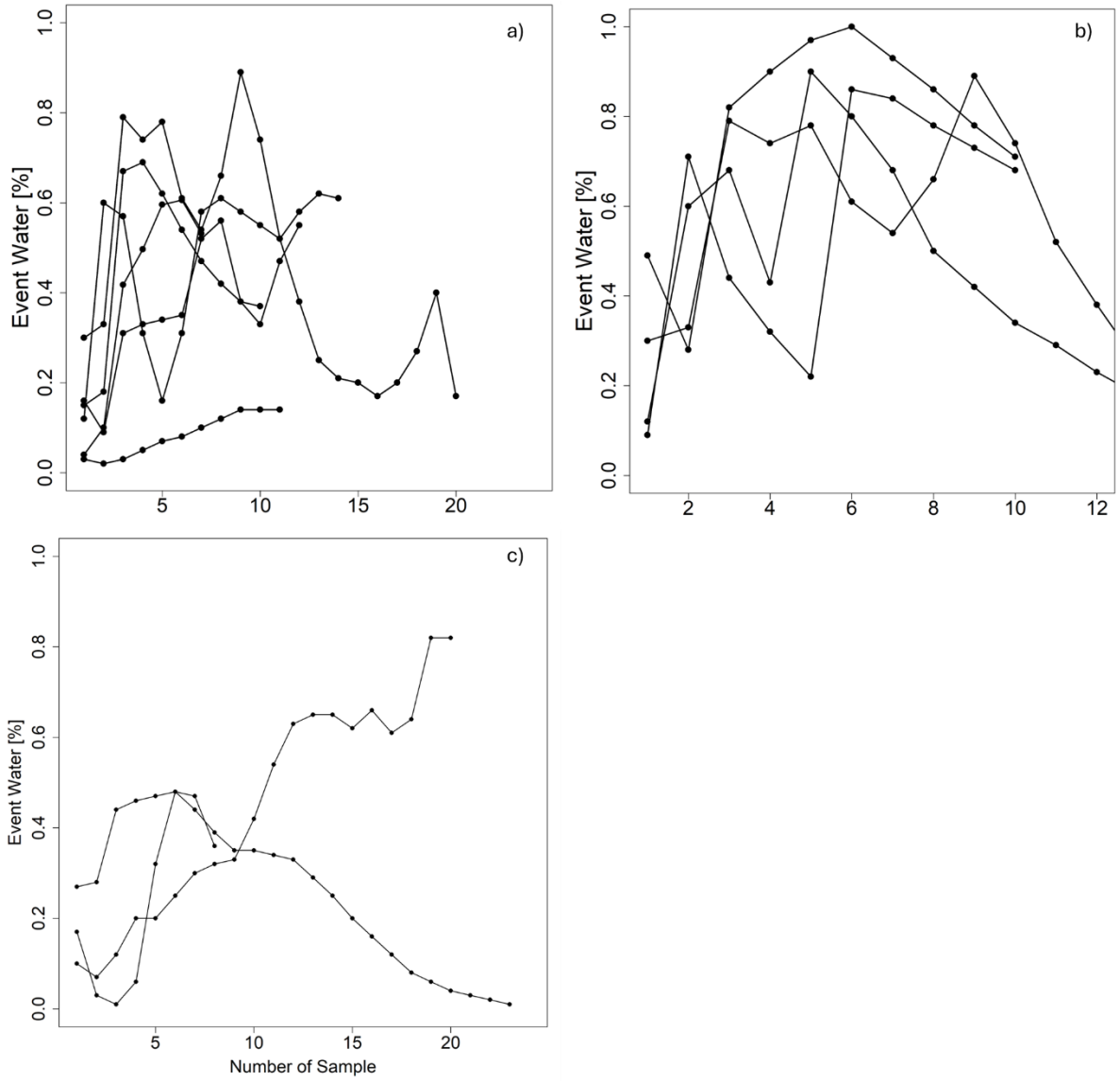


Table S1. Table of areas under the curve for each event and nutrients nitrate and P_{tot}.

EVENT	**Area NO_3^- event**	**Area NO_3^- total**	**Area P_event**	**Area P total**
1	0.39	0.45	0.50	0.56
2	0.19	0.40	0.42	0.58
3	0.55	0.45	0.65	0.54
4	0.48	0.42	0.59	0.53
5	0.44	0.41	0.5	0.46
6	0.53	0.50	0.54	0.51
7	0.60	0.47	0.59	0.46
8	0.56	0.52	0.40	0.38
9	0.52	0.48	NA	NA
10	0.72	0.57	0.77	0.62
11	0.28	0.40	0.54	0.62
12	0.70	0.50	0.75	0.56
13	0.12	0.33	NA	NA