Supplement of Biogeosciences Discuss., 12, 15337–15367, 2015
http://www.biogeosciences-discuss.net/12/15337/2015/
doi:10.5194/bgd-12-15337-2015-supplement

Biogeosciences
Discussions
Open Access

Supplement of

Proximate and ultimate controls on carbon and nutrient dynamics of small agricultural catchments

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Figures and table:

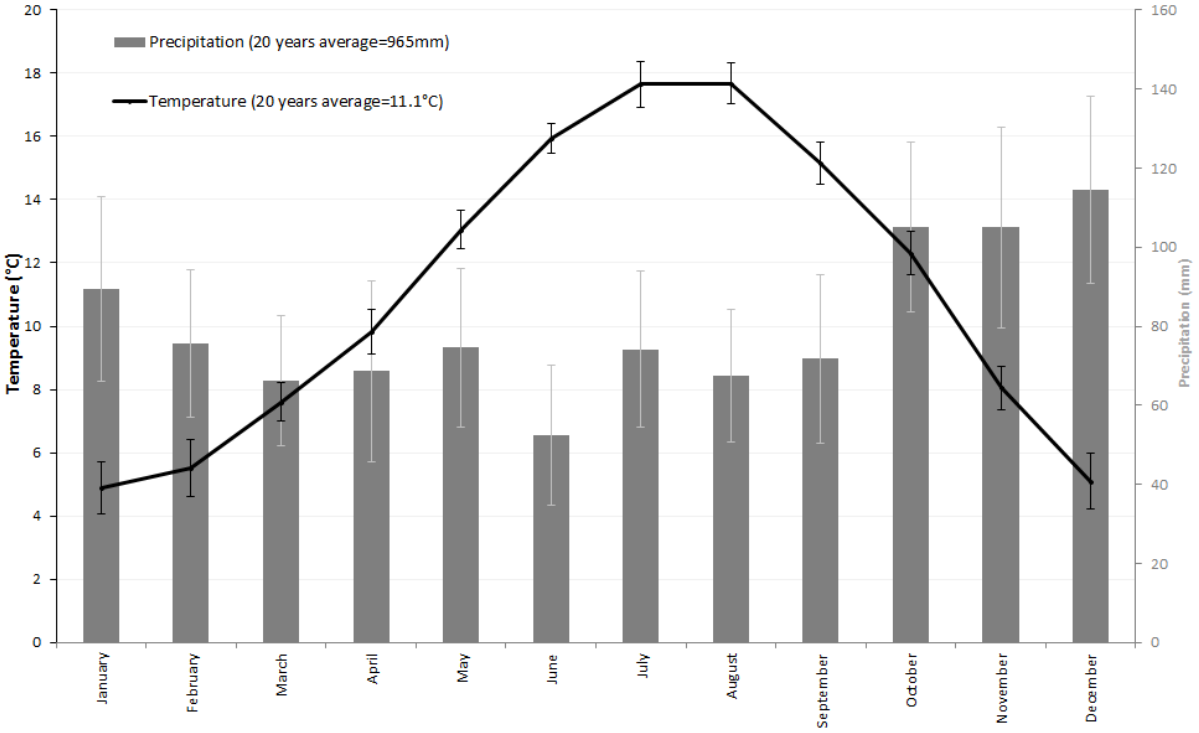

Figure S1. Ombrothermic diagram presenting 20 years data from September 1994 to august 2014.

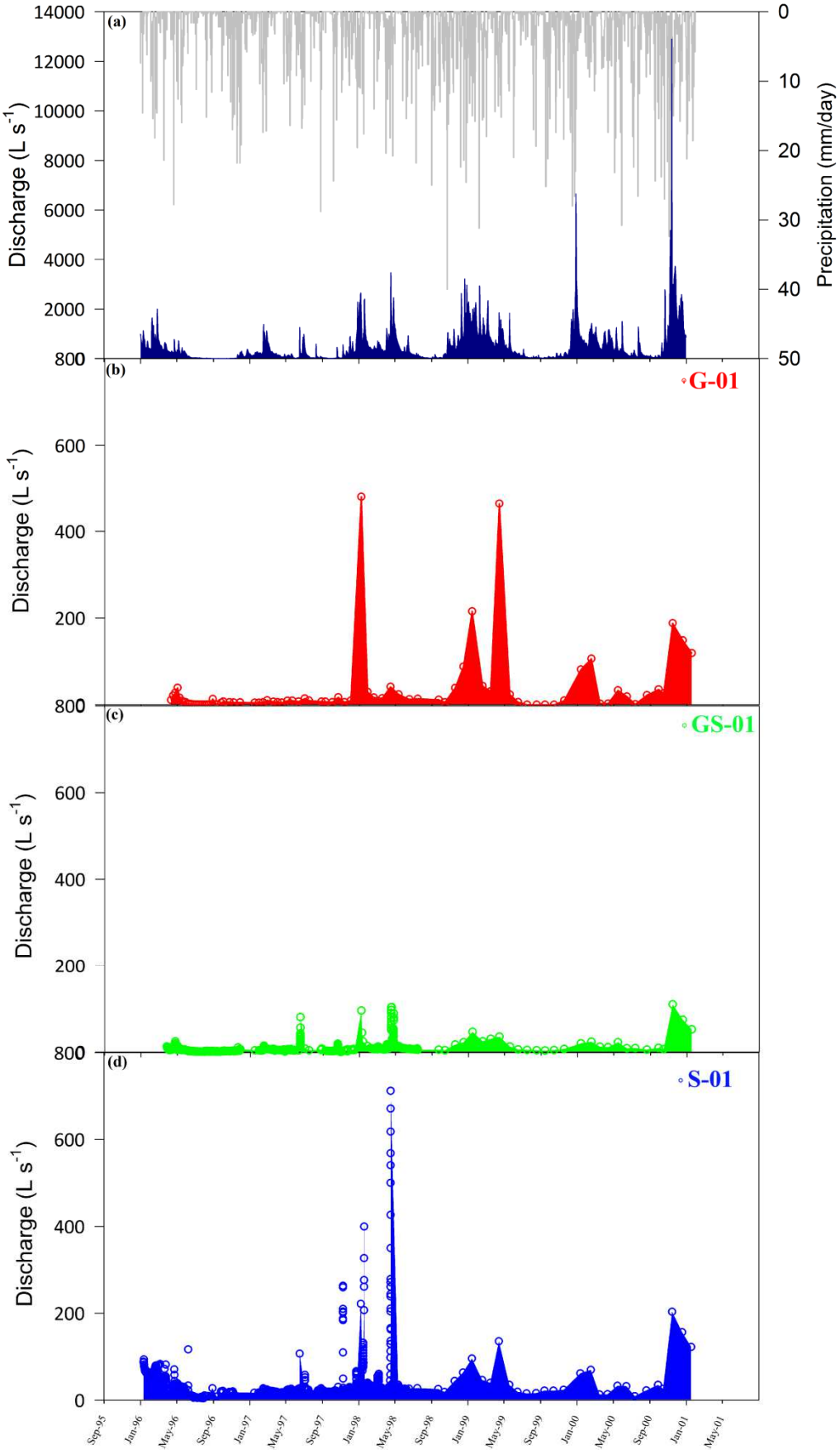

Figure S2. Discharge measured at the gaged station Le Guyoult (a) and at the monitored catchments G-01 (b), GS-01(c) and S-01(d).

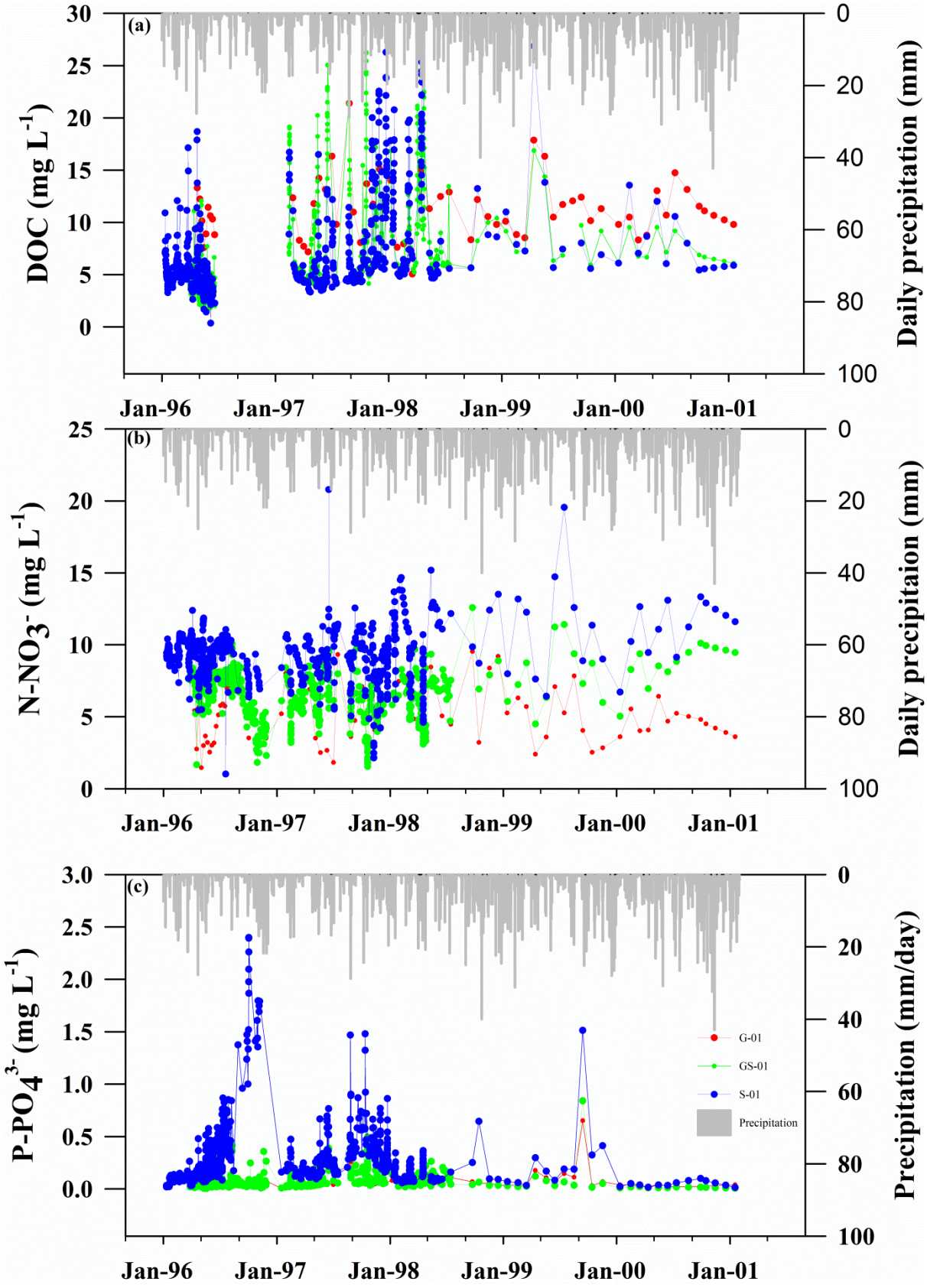

Figure S3. High and low frequency data of dissolved organic carbon, nitrate, and phosphate in stream water measured at the outlet of catchments G-01, GS-01 and S-01.

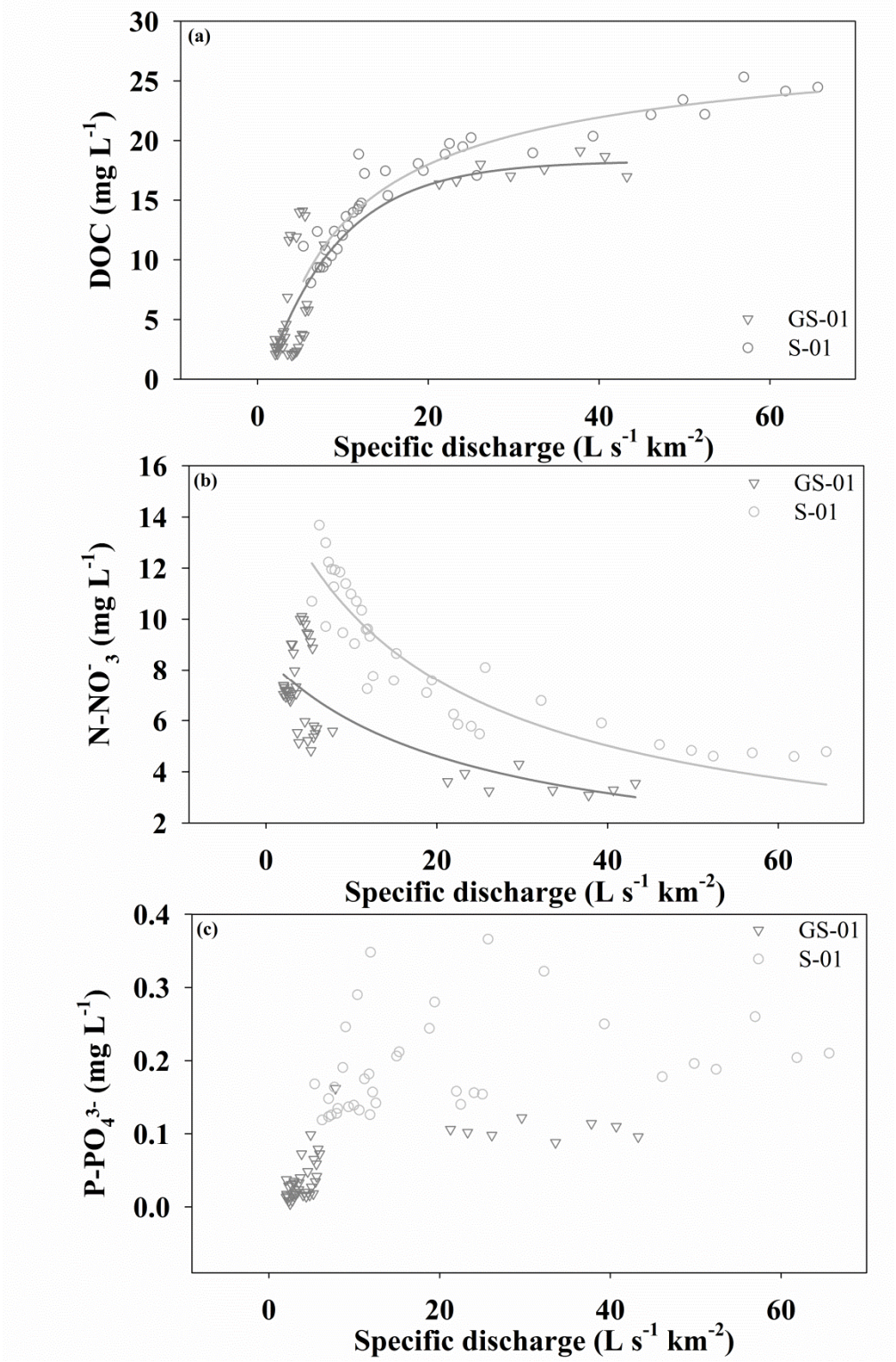

Figure S4. Relationships between dissolved organic carbon, nitrate, and phosphate and specific discharge during storm events.

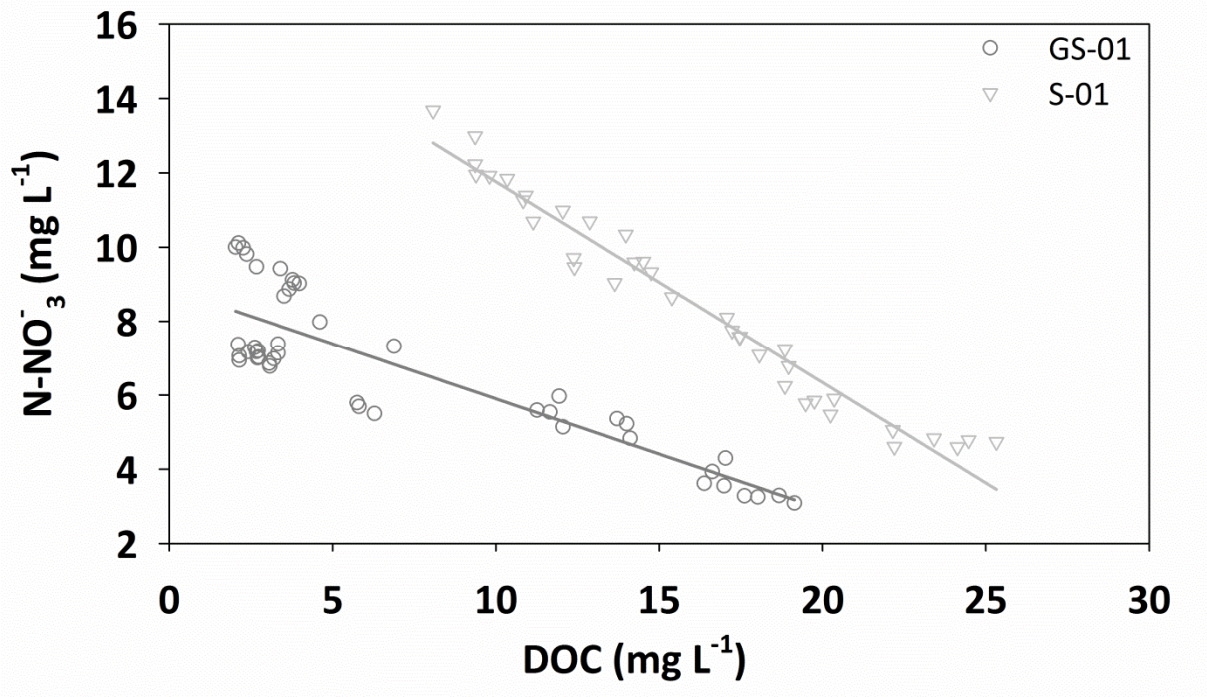

Figure S5. Inverse relationship between DOC and NO_3^- concentration during discharge events for the catchment GS-01 (○) and S-01 (▽).

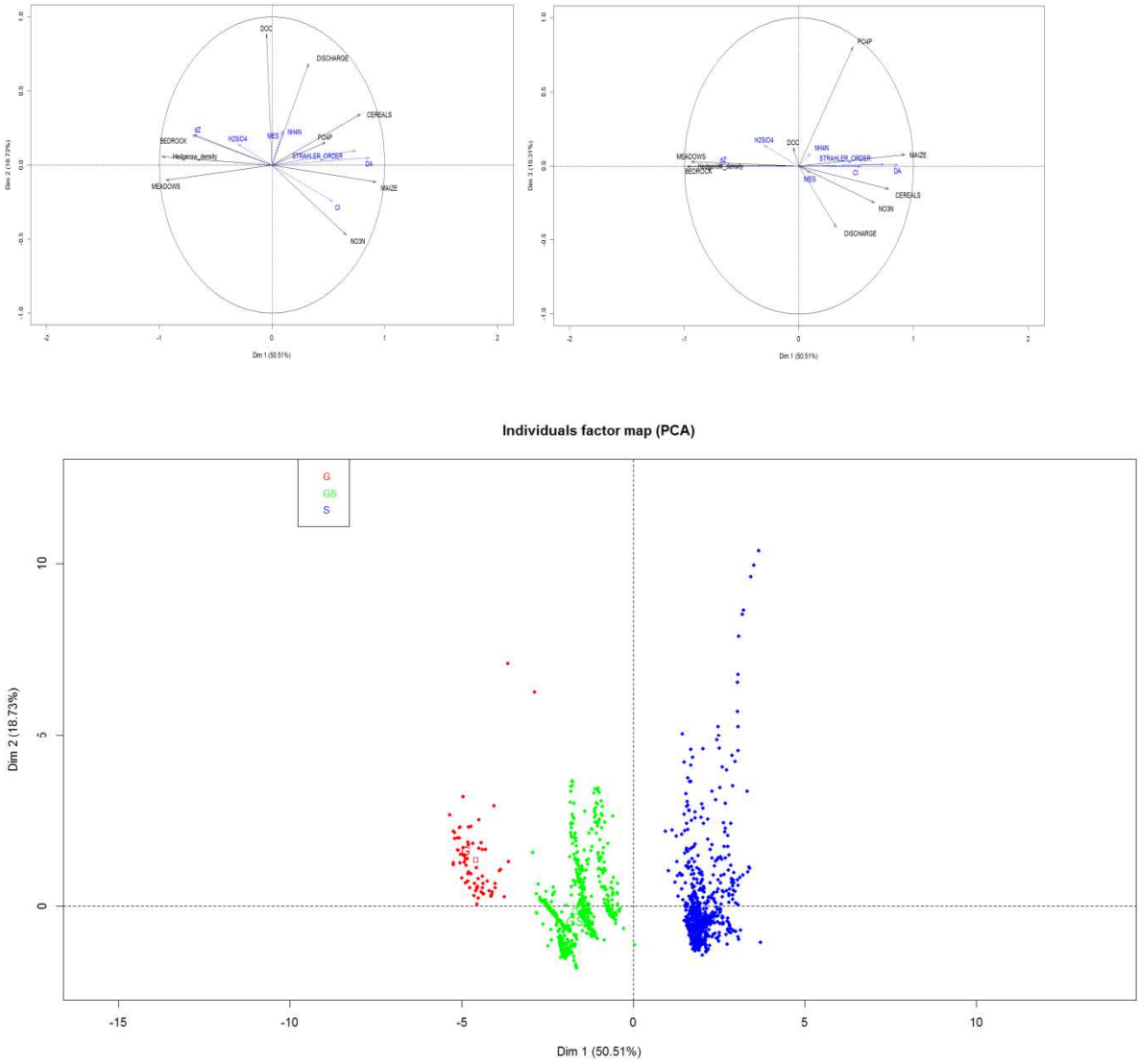

Figure S6. Principal component analysis of the major sources of variability in water chemistry for catchments G-01 (red), GS-01 (green), and S-01 (blue). Together, the first-three axes explain 80% of the total variability of the data.

Hydrological years	Year 1	Year 2	Year 3	Year 4	Year 5
	Sept 95-Aug.96	**Sept 96-Aug.97**	**Sept 97-Aug.98**	**Sept 98-Aug.99**	**Sept 98-Aug.00**
Annual precipitation (mm)	786.4	794.6	819.2	1131.6	1174.4
Difference in annual precipitation with average of 20 years (mm)	-178.6	-170.4	-145.8	166.6	209.4

Table S1. Annual precipitation over the studied period compared with average conditions based on the 20 year average from 1994-2014.