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Supplement of

**Temporary and net sinks of atmospheric CO₂ due to chemical weathering
in subtropical catchment with mixing carbonate and silicate lithology**

Yingjie Cao et al.

Correspondence to: Changyuan Tang (changyuan_tang@163.com, tangchy3@mail.sysu.edu.cn)

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Supplementary material

Table S1 The major ions concentrations of rain water samples at 5 hydrological stations in the Beijiang River (mean±SD).

Hydrological stations	Na ⁺ ($\mu\text{mol/L}$)	K ⁺ ($\mu\text{mol/L}$)	Ca ²⁺ ($\mu\text{mol/L}$)	Mg ²⁺ ($\mu\text{mol/L}$)	Cl ⁻ ($\mu\text{mol/L}$)	SO ₄ ²⁻ ($\mu\text{mol/L}$)	NO ₃ ⁻ ($\mu\text{mol/L}$)
XGLs	12.8±9.7	21.0±16.8	22.2±20.5	10.9±10.3	25.9±22.6	320.2±370.7	83.3±85.2
XSs	20.4±11.8	7.8±4.5	86.9±30.4	10.1±5.2	10.0±0.0	606.5±511.5	36.3±23.4
Yds	16.3±9.5	10.1±10.8	161.1±56.5	9.0±7.8	23.9±12.4	136.9±169.5	143.1±135.5
FLXs	18.8±12.3	3.2±2.5	31.1±17.7	4.2±2.7	23.1±16.6	45.4±27.5	77.1±70.4
SJs	12.6±9.2	12.5±16.3	22.9±13.8	15.4±18.1	25.4±16.0	79.0±79.8	156.7±206.4