

Supplementary Materials.

In-situ tryptophan-like fluorometers: assessing turbidity and temperature effects for freshwater applications

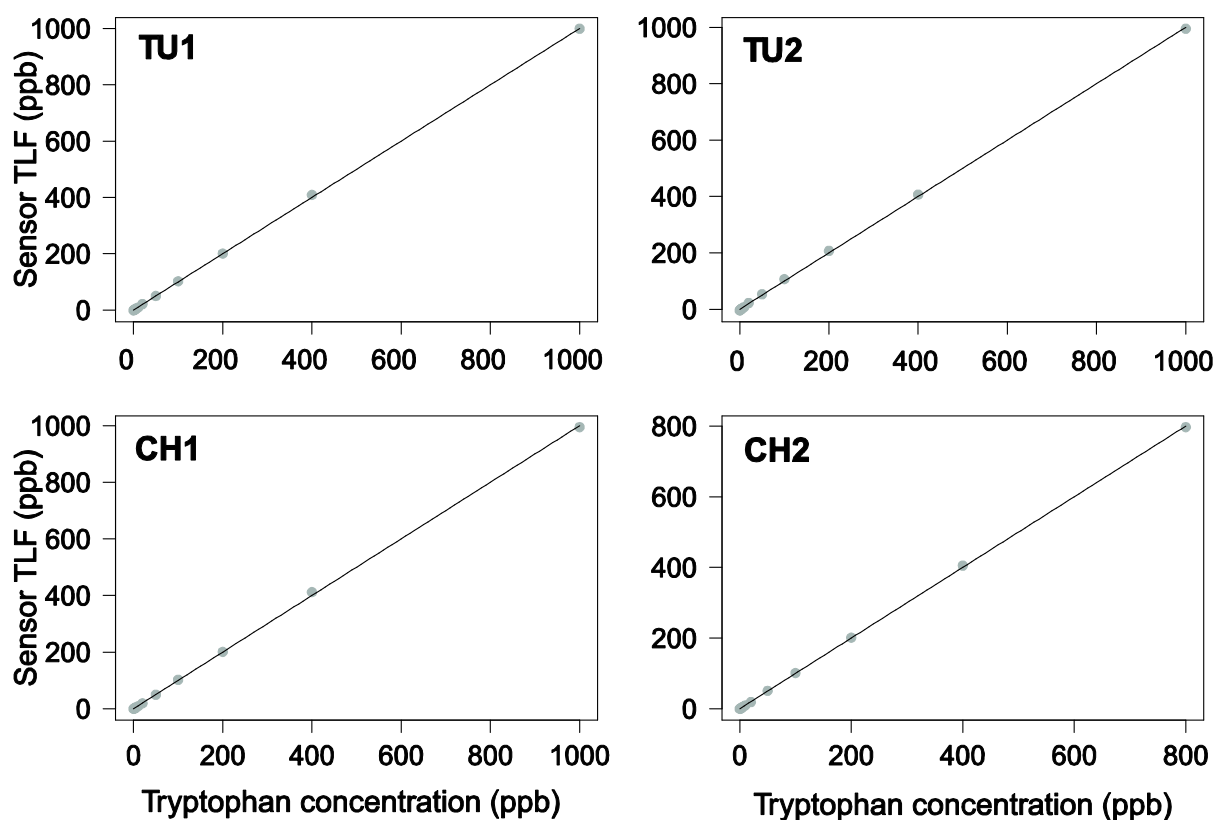


Figure S1. The relationship between tryptophan standard concentration and sensor specific tryptophan-like fluorescence (TLF) for all fluorometers used in the study. N.b. see Table 1 for regression equations.

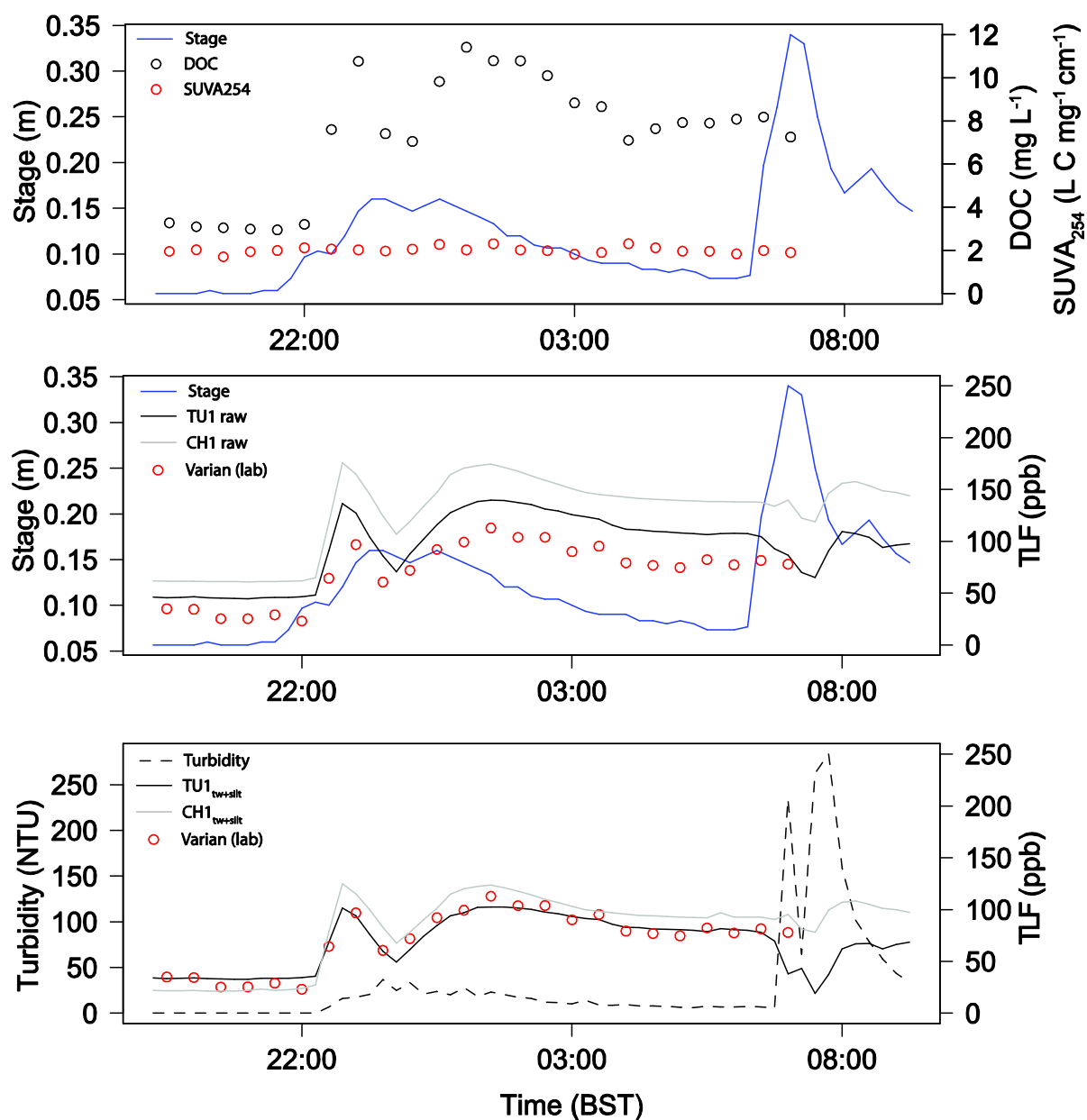


Figure S2. Bourn Brook, time series data for Event 1 (23-24 Aug.): (a) DOC, SUVA₂₅₄ and river stage; (b) raw tryptophan-like fluorescence (TLF) records for TU1, CH1 and discrete (laboratory) results; and, (c) turbidity, discrete (laboratory) TLF results and silt + temperature corrected TLF for TU1 and CH1.

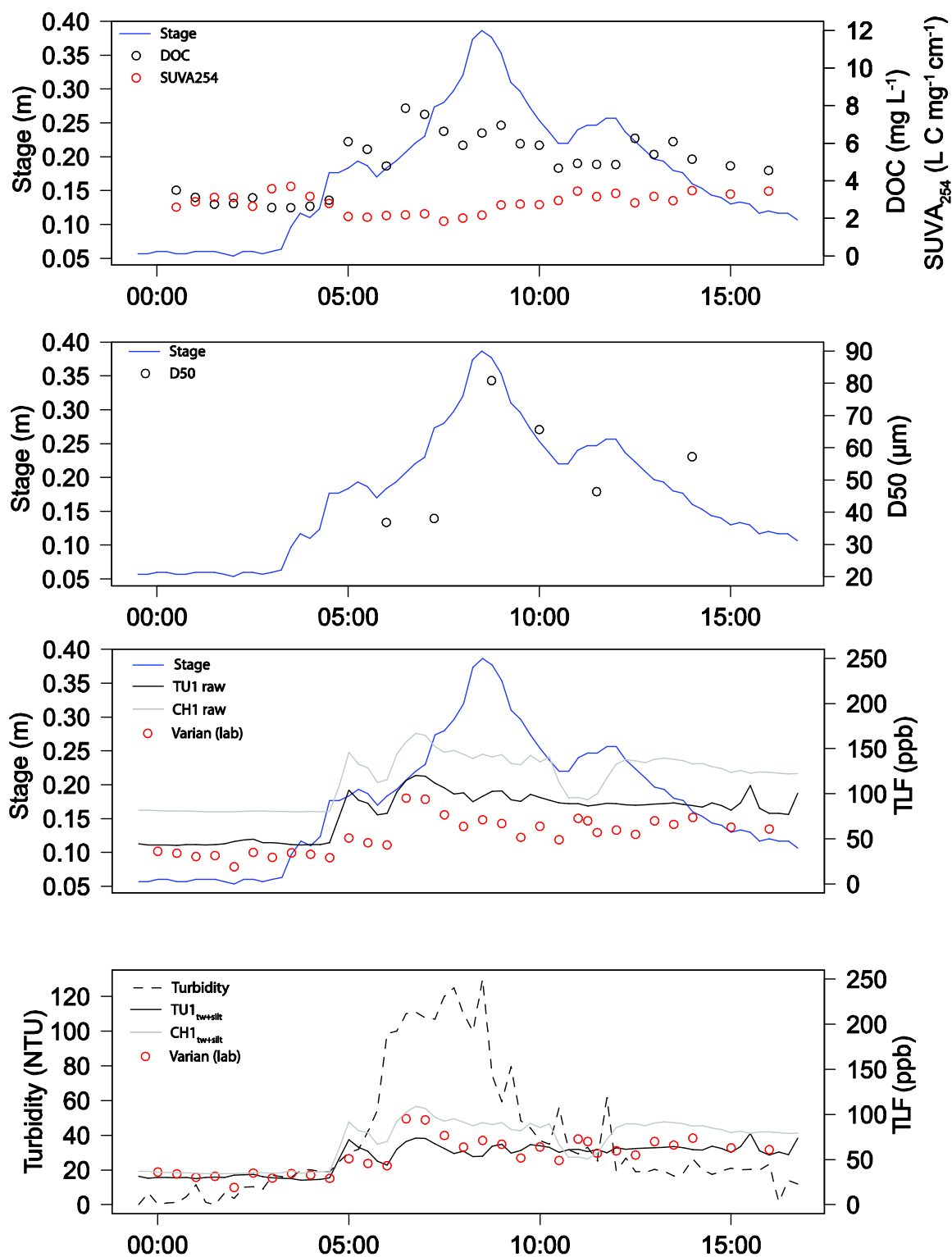


Figure S3. Bourn Brook time series data for Event 2 (06 Oct. 2014): (a) DOC, SUVA₂₅₄ and river stage; (b) D₅₀ (median grain size) of suspended sediment load; (c) raw tryptophan-like fluorescence (TLF) records for TU1, CH1 and discrete (laboratory) results; and, (d) turbidity, discrete (laboratory) TLF results and silt + temperature corrected TLF for TU1 and CH1.

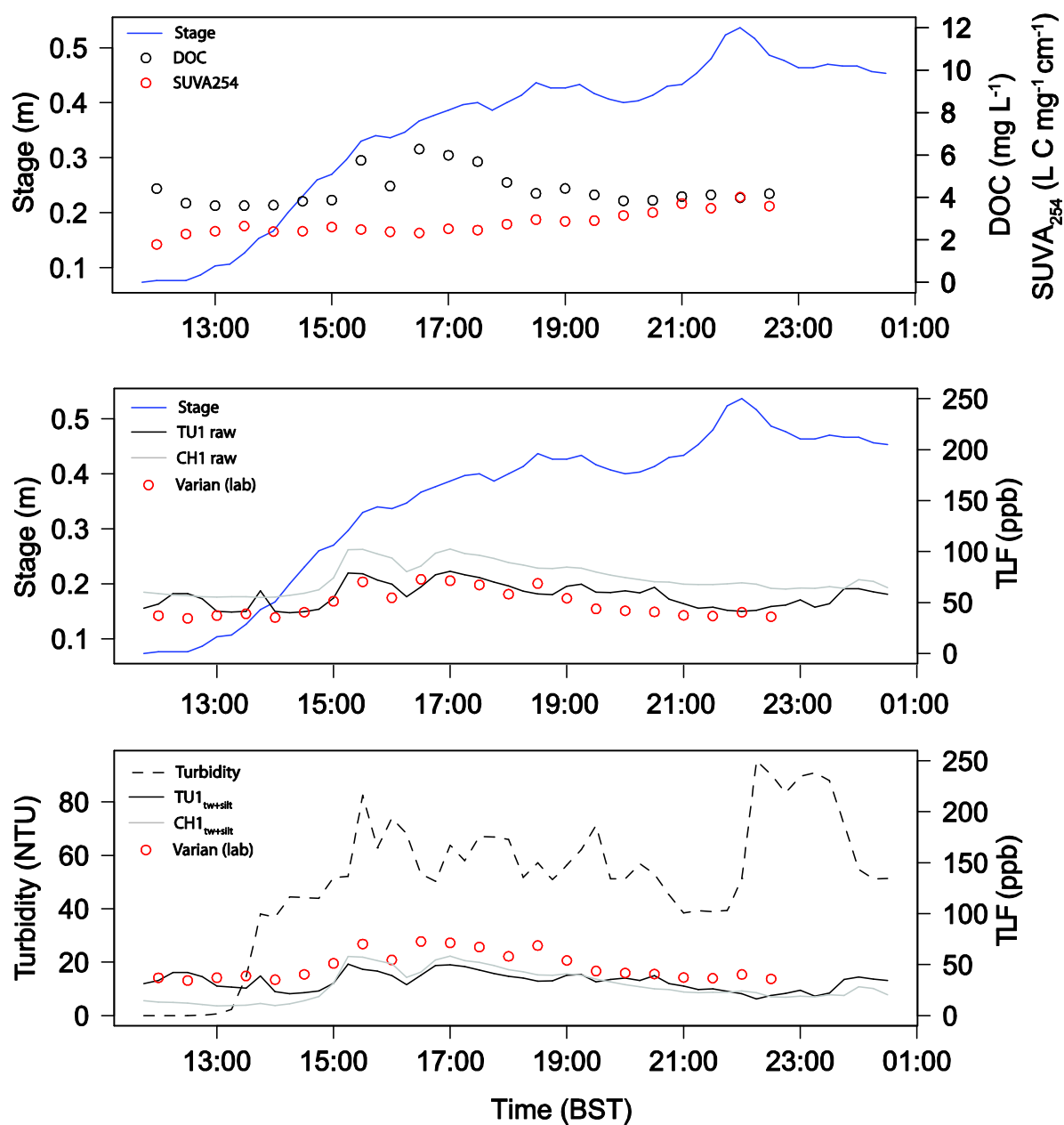


Figure S4. Bourn Brook time series data for Event 3 (13th Oct. 2014): (a) DOC, SUVA₂₅₄ and river stage; (b) raw tryptophan-like fluorescence (TLF) records for TU1, CH1 and discrete (laboratory) results; and, (d) turbidity, discrete (laboratory) TLF results and silt + temperature corrected TLF for TU1, CH1.