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*Supplement of*

**Effect of sporadic destratification, seasonal overturn and artificial mixing on CH<sub>4</sub> emissions at the surface of a subtropical hydroelectric reservoir (Nam Theun 2 Reservoir, Lao PDR)**

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Figure S1 : Auto-correlation functions of the resampled 15-days log concentration for the 9 stations.

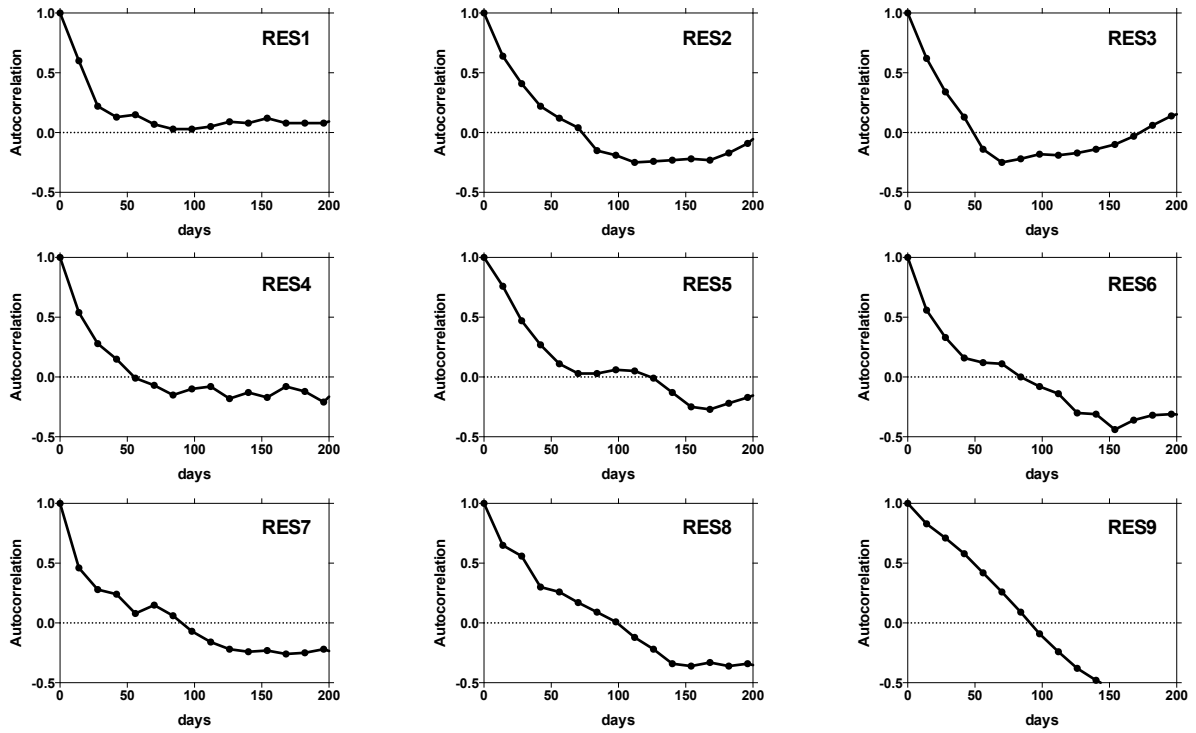


Figure S2 : Time series of (a) surface  $\text{CH}_4$  concentrations ( $\mu\text{mol L}^{-1}$ ) and (b) diffusive fluxes ( $\text{mmol m}^{-2} \text{d}^{-1}$ ) at the stations RES1 to RES8 in the Nam Theun 2 Reservoir. On panel (b), warm dry season is in red, warm wet season in grey and cool dry season in blue)

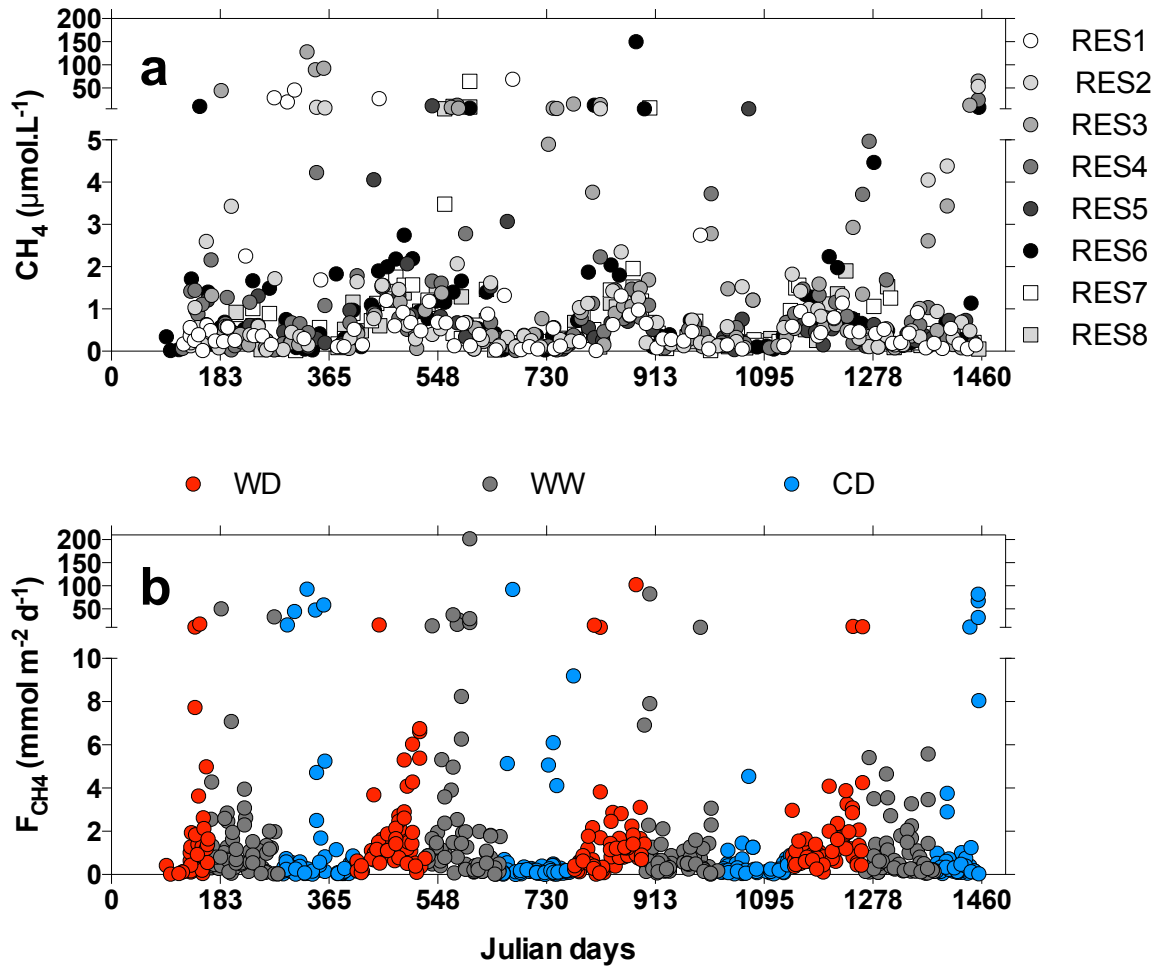


Figure S3 : Skewness of the resampled 15-days log concentration time series for the 9 stations

