Supplement of

Seasonal variability in methane and nitrous oxide fluxes from tropical peatlands in the western Amazon basin

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Figure Captions

**Figure S1.** Scatter plot of soil temperature against diffusive CH$_4$ flux. The data presented here are not transformed. Statistical analysis was performed on Box-Cox transformed data ($P < 0.004481, r^2 = 0.0356, n = 986$).

**Figure S2.** Scatter plot of water table depth against diffusive CH$_4$ flux. The data presented here are not transformed. Statistical analysis was performed on Box-Cox transformed data ($P < 0.000097, r^2 = 0.75, n = 987$).

**Figure S3.** Scatter plot of dissolved oxygen against diffusive N$_2$O flux. The data presented here are not transformed. Statistical analysis was performed on Box-Cox transformed data ($P > 0.9498, r^2 = 0.000003638, n = 1091$).

**Figure S4.** Scatter plot of electrical conductivity against diffusive N$_2$O flux. The data presented here are not transformed. Statistical analysis was performed on Box-Cox transformed data ($P < 0.0498, r^2 = 0.003528, n = 1087$).
Figure S2

[Graph showing the relationship between diffusive CH₄ flux (mg CH₄-C m⁻² d⁻¹) and water table depth (cm)].
Figure S3

Difffusive $\text{N}_2\text{O}$ Flux ($\mu$g N$\text{N}_2$ $\text{m}^{-2} \text{ d}^{-1}$) vs. Pore water Dissolved Oxygen the 0-15 cm soil depth (%)
Figure S4

[Graph showing the relationship between diffusive NO$_2$ flux (µg N$_2$O·m$^{-2}$·d$^{-1}$) and pore water electrical conductivity in the 0-15 cm soil depth (µS·m$^{-1}$).]