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Supplement of

Seasonal methane accumulation and release from a gas emission site in the central North Sea

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The MOx values were corrected for differences between in situ and incubation temperatures using a temperature coefficient $Q_{10}$ of 1.6 (unpublished data of a North Sea sample) and Eq. 1:

$$Q_{10} = \left(\frac{R_2}{R_1}\right)^{\frac{10}{T_2-T_1}}$$

(1)

where $R_1$ is the reaction rate measured at temperature $T_1$ and $R_2$ the rate measured at temperature $T_2$ ($T_1 < T_2$). Due to the temperature differences the measured rates are 11-16% higher or lower than in situ rates depending if the incubation temperature was higher or lower than the in situ temperature.
Figure S1: Sea level height ($\zeta$) during deployment of UWMS and CTD/rosette.