

Supplement of Biogeosciences Discuss., 11, 18003–18044, 2014
<http://www.biogeosciences-discuss.net/11/18003/2014/>
doi:10.5194/bgd-11-18003-2014-supplement
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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corrected for differences between in situ and incubation temperatures using a temperature coefficient Q_{10} of 1.6 (unpublished data of a North Sea sample) and Eq. 1:

$$Q_{10} = \left(\frac{R_2}{R_1} \right)^{\left(\frac{10}{T_2 - T_1} \right)} \quad (1)$$

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.

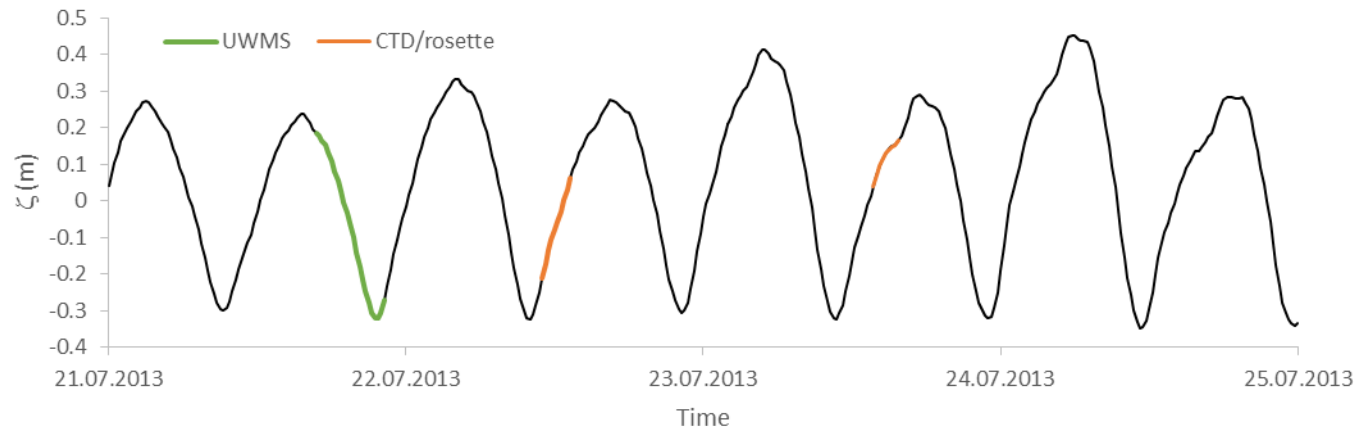


Figure S1: Sea level height (ζ) during deployment of UWMS and CTD/rosette.