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## Supplement of

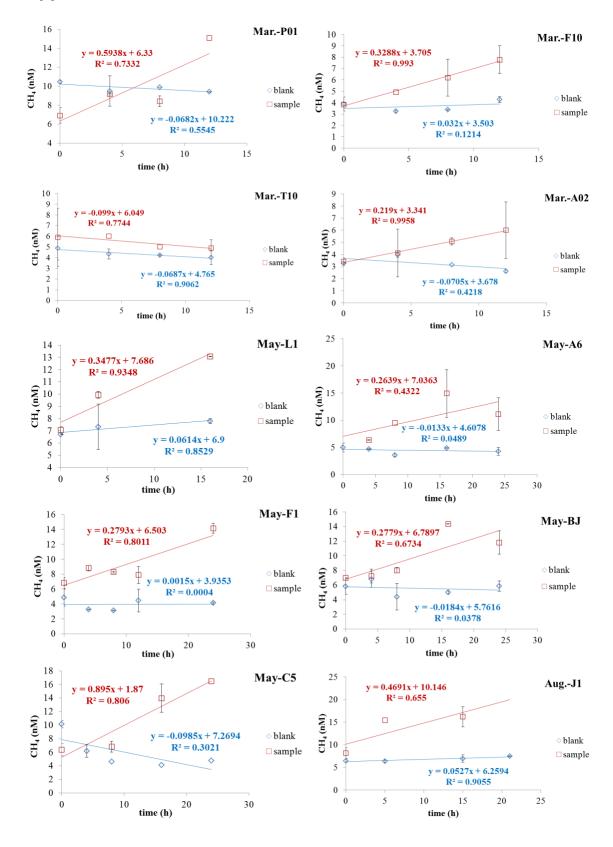
## Methane distribution, flux, and budget in the East China Sea and Yellow Sea

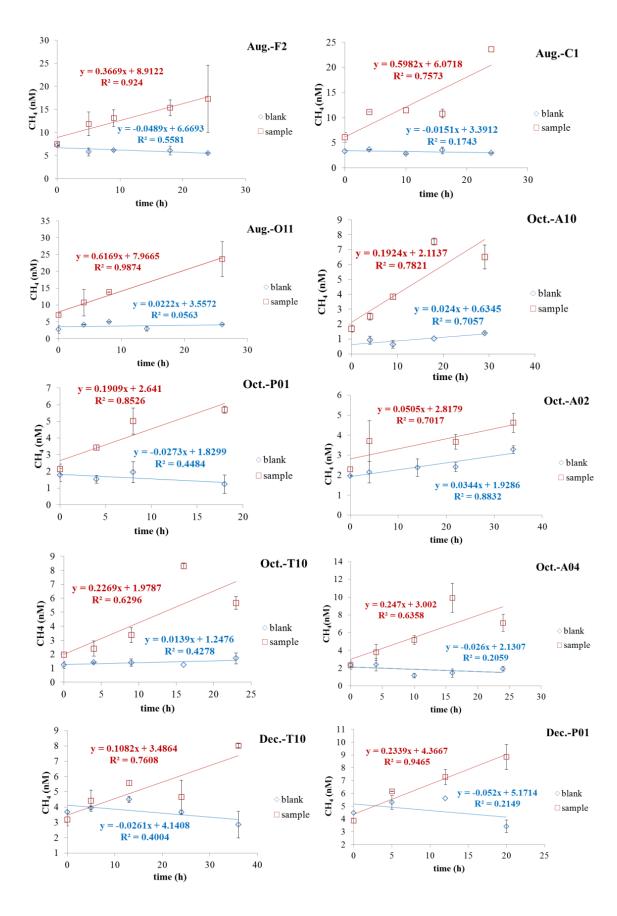
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## **Supplement**





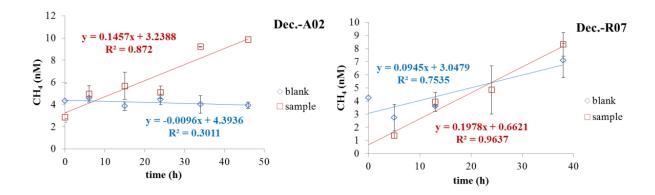


Fig. S1 Variation of CH<sub>4</sub> concentration with time during sediment incubation experiments (Square: overlying water; diamond: control)

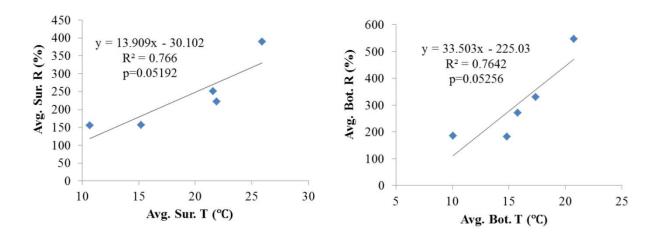


Fig. S2 The correlation between mean  $CH_4$  saturation and mean water temperature in surface and bottom water