Figure S1. Methane-carbon assimilation in relation to oxygen concentration. Methane-carbon assimilation was determined from incubations amended with ¹⁴C-CH₄ at saturated (~220 μ mol l⁻¹, shaded bars) or low oxygen concentrations (<0.5 μ mol l⁻¹, black bars) of water recovered in Nov. 2013 at 20 mbsl (a, c) and in Feb. 2014 at 5 and 20 mbsl (b, d). Incubations were performed in triplicates and standard deviations are indicated. (a, b) First-order rate constant *k*. (c, d) Fraction of oxidized methane incorporated into biomass. Asterisks indicate a p-value <0.05 of a two-tailed, two-sample t-test assuming equal variance between the samples at low and high oxygen concentrations.

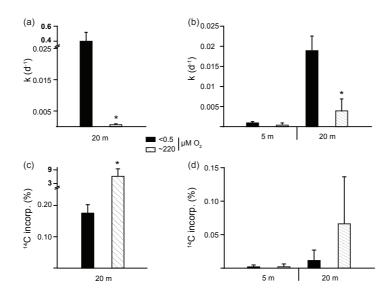
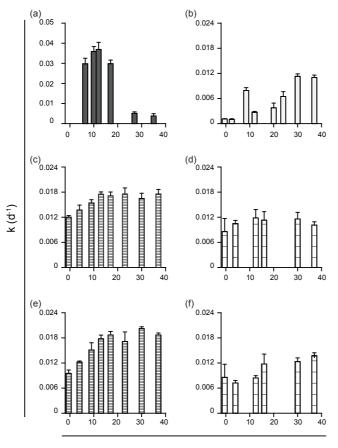


Figure S2. MOx first order rate constants (k) at different temperatures. First order rate constants of MOx were determined with ³H-CH₄ amendments in triplicated incubations of water from 5 mbsl (a-d) and 20 mbsl (e, f), recovered in Nov. 2013 (a), Feb. 2014 (b), June 2014 (c, e), and Sept. 2014 (d, f).



temperature (°C)