



HOKKAIDO UNIVERSITY

Title	Distribution of putative denitrifying methane oxidizing bacteria in sediment of a freshwater lake, Lake Biwa
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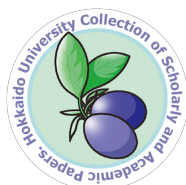


Table S1. Characteristics of sites investigated in 2009.

Sampling date	Latitude	Longitude	Designation in Fig. 1	Water Depth (m)	Characteristics of bottom water				Detected NC10*
					Temperature (°C)	Conductivity (μS/cm)	Dissolved oxygen (μM)	pH	
02, Dec	35.40 N	136.20 E	A	31	12.5	129.5	221.2	8.3	-
02, Dec	35.39 N	136.16 E		68	8.3	133.9	150.5	7.9	<i>a</i>
10, Dec	35.39 N	136.12 E		89	8.1	134.4	101.8	7.8	<i>a</i>
19, Nov	35.39 N	136.11 E		90	8.1	134.4	100.8	7.7	<i>a</i>
19, Nov	35.39 N	136.07 E		85	8.1	134.5	98.8	7.7	<i>a</i>
19, Nov	35.38 N	136.06 E		54	9.0	132.5	192.9	7.9	<i>a</i>
12, Nov	35.44 N	136.10 E		72	8.1	134.2	127.3	7.8	<i>a</i>
12, Nov	35.42 N	136.10 E		83	8.1	134.7	85.1	7.7	<i>a</i>
12, Nov	35.40 N	136.10 E		90	8.1	134.5	95.7	7.7	<i>a</i>
18, Dec	35.38 N	136.10 E		91	8.1	134.9	67.2	7.7	<i>a</i>
18, Dec	35.35 N	136.10 E	B	88	8.1	134.4	105.6	7.8	<i>a</i>
10, Dec	35.34 N	136.10 E		98	8.1	134.7	77.9	7.7	<i>a</i>
24, Dec	35.22 N	136.00 E		70	8.4	133.6	157.0	8.0	<i>b</i>
24, Dec	35.17 N	135.94 E	C	45	11.1	131.0	274.0	8.4	-
12, Nov	35.05 N	135.89 E	D	4	16.4	130.6	271.5	8.5	<i>b</i>
02, Dec	35.01 N	135.90 E	E	12	11.6	139.5	313.3	8.9	<i>b</i>

* *a*, group *a* (putative methanotroph); *b*, group *b*; -, not detected.

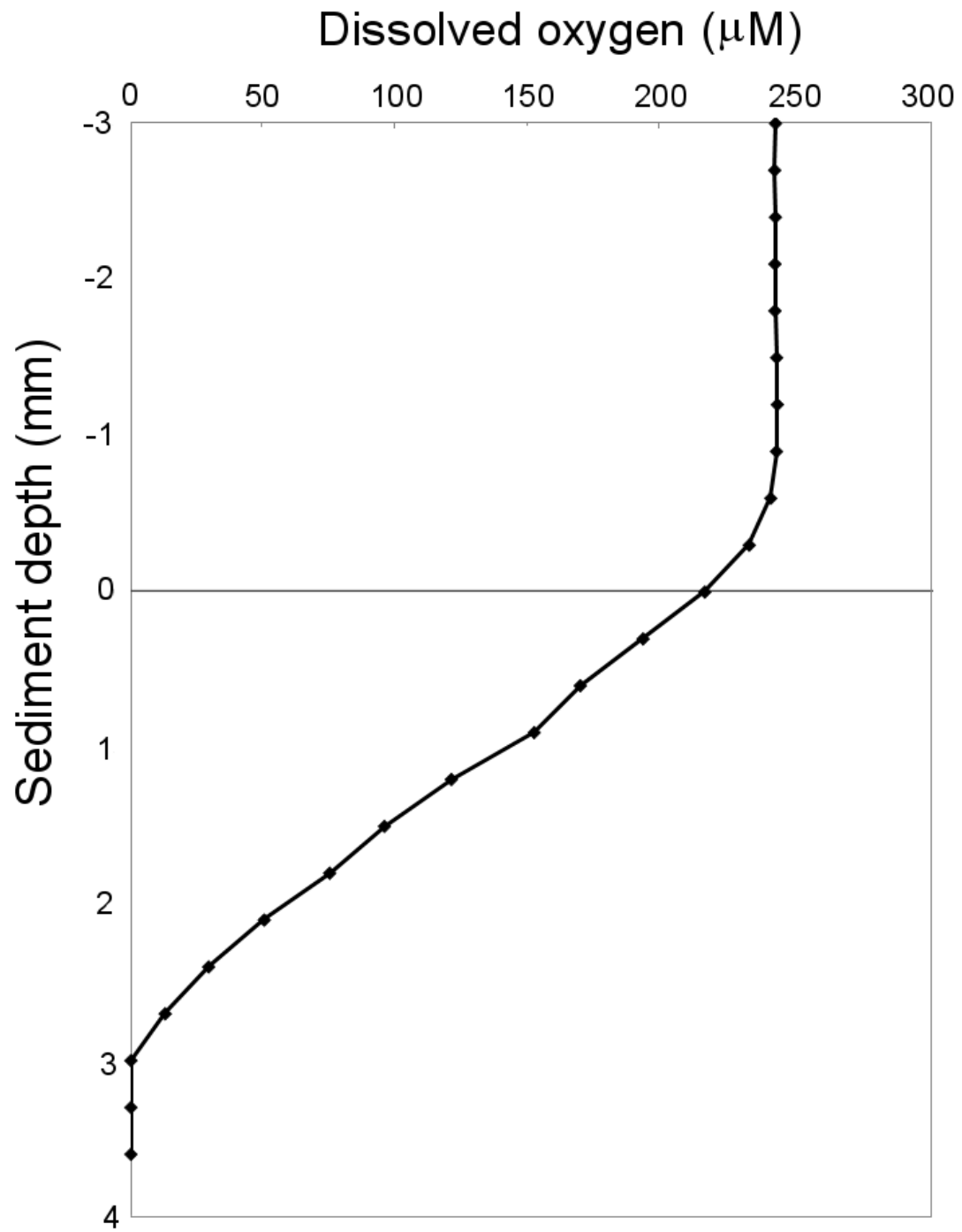


Figure S1. Oxygen penetration in sediment of site A obtained in 2010, measured in the laboratory.

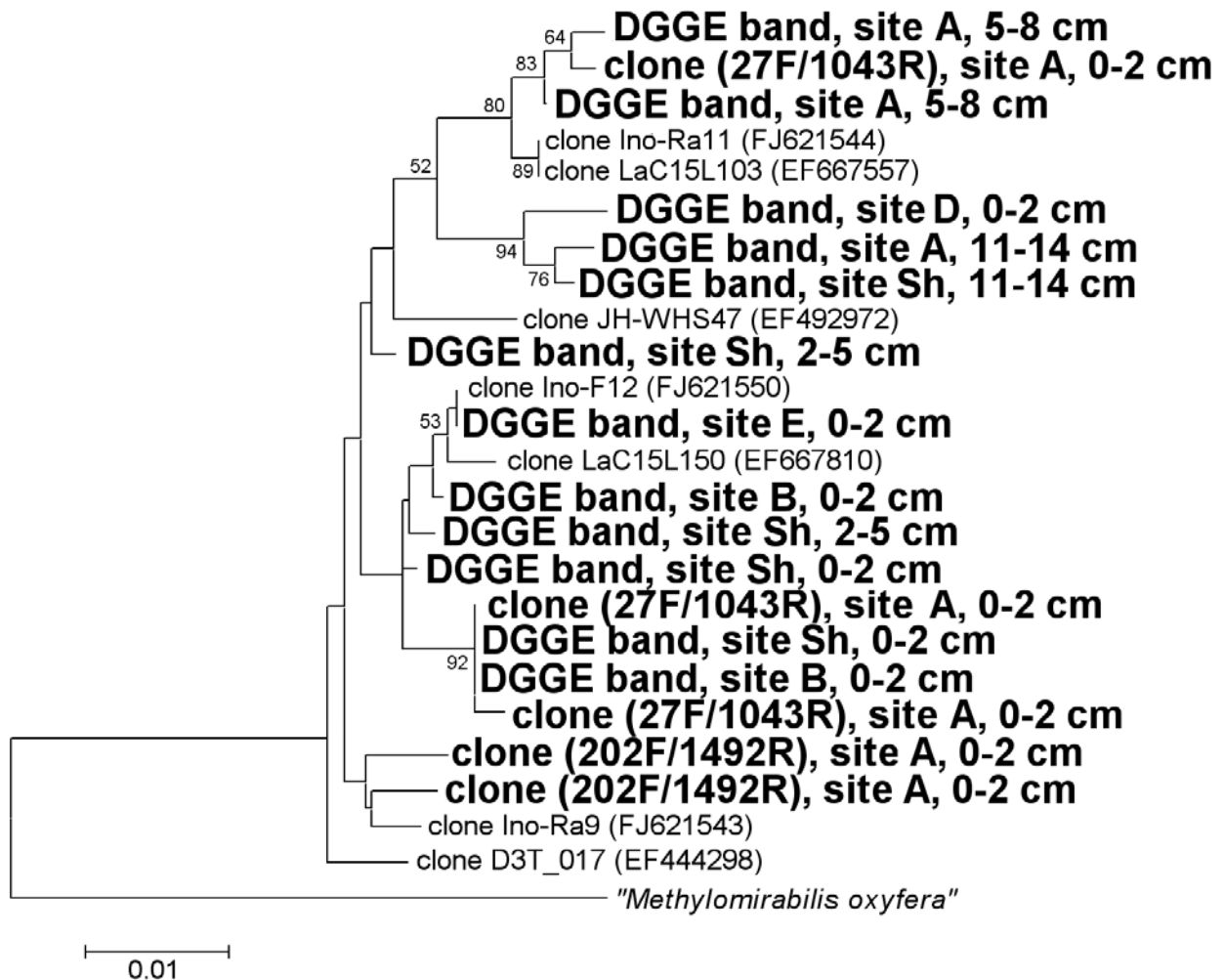


Figure S2. Phylogenetic relationships of the 16S rRNA gene sequences belonging to the group *b* of the phylum NC10. Sequences obtained in this study are shown in bold. The sequence of "*M. oxyfera*" (group *a*) was included as an outgroup. Numbers on nodes are percentage values of 1000 bootstrap resamplings (values larger than 50 are shown).