

Table S1. Densities of metazoan meiofaunal taxa [ind./10 cm²] of three core samples per station collected in the southeastern Bering Sea during *R/V Mirai* MR17-04 cruise Leg2 (JAMSTEC) from August 5 to 21, 2017.

Station	Sample ID	Sediment Layer	Nematoda	Copepoda	Copepod nauplii	Annelida	Kinorhyncha	Ostracoda	Halacaridae	Bivalvia	Tardigrada	unidentified*	Sum
G	G-a	0-1cm	201.0	27.0	28.8	25.1	3.7	0	0	0	0	0.9	286.6
		1-2cm	269.9	1.9	0.9	2.8	0	0	0	0	0	0	275.4
		2-3cm	128.4	0.9	0	5.6	0	0	0	0	0	0	134.9
		Total	599.3	29.8	29.8	33.5	3.7	0	0	0	0	0.9	697.0
	G-b	0-1cm	150.7	26.1	41.9	22.3	3.7	0	0	0.9	0	0.9	246.6
		1-2cm	344.3	0.9	1.9	4.2	0.9	0	0	0	0	0	352.2
		2-3cm	166.6	0	0.9	4.2	0	0	0	0	0	0	171.7
		Total	661.6	27.0	44.7	30.7	4.7	0	0	0.9	0	0.9	770.5
	G-c	0-1cm	392.7	29.3	32.6	18.8	2.8	0	0	0	0	0	476.2
		1-2cm	290.8	1.4	0	0.0	0	0	0	0	0	0	292.2
		2-3cm	179.1	0	0	1.9	0	0	0	0	0	0	181.0
		Total	862.6	30.7	32.6	20.7	2.8	0	0	0	0	0	949.4
B	B-a	0-1cm	381.3	128.6	99.8	47.0	18.1	4.2	0	2.1	0	0.5	681.6
		1-2cm	146.1	0	0	10.2	3.7	0	0	0	0	0	160.0
		2-3cm	106.1	1.9	0.9	3.7	0	0	0	0	0	0	112.6
		Total	633.5	130.5	100.7	60.9	21.9	4.2	0	2.1	0	0.5	954.3
	B-b	0-1cm	220.5	52.1	44.7	34.4	3.7	4.7	0	0	0	0	360.1
		1-2cm	123.8	22.3	12.1	7.0	0	0	0	0	0	0	165.2
		2-3cm	95.8	1.9	0	7.4	0	0	0	0	0	0	105.1
		Total	440.1	76.3	56.8	48.9	3.7	4.7	0	0	0.0	0.0	630.4
	B-c	0-1cm	758.8	97.7	81.0	58.4	15.4	0	0	0.9	0.0	0.0	1012.2
		1-2cm	247.5	2.8	2.3	6.7	0.9	0.5	0	0	0.0	0.0	260.8
		2-3cm	202.4	1.9	1.9	2.3	0.5	0	0	0	0.0	0.0	208.9
		Total	1208.7	102.4	85.1	67.5	16.7	0.5	0	0.9	0.0	0.0	1481.9
M	M-a	0-1cm	92.1	50.2	53.0	20.5	0	0	0	0	0.0	0	215.9
		1-2cm	60.5	14.0	9.3	2.8	0	0	0	0	0.9	0	87.5
		2-3cm	69.8	7.4	6.5	9.3	0.9	0	0	0	0.0	0	94.0
		Total	222.4	71.7	68.9	32.6	0.9	0	0	0	0.9	0	397.3
	M-b	0-1cm	126.6	75.4	25.1	24.2	0.9	0.9	1.9	0	0	3.7	258.7
		1-2cm	125.6	19.5	9.3	8.4	0.9	0	0	0	0	0	163.8
		2-3cm	54.9	9.3	1.9	1.9	0.9	0	0	0	0	0	68.9
		Total	307.1	104.2	36.3	34.4	2.8	0.9	1.9	0	0	3.7	491.3
	M-c	0-1cm	137.3	48.9	32.1	14.0	0	1.9	2.8	1.4	1.4	1.4	241.0
		1-2cm	125.6	22.8	13.5	7.4	0.5	0	1.4	0	1.4	0	172.6
		2-3cm	116.8	16.3	12.6	5.4	0.9	0	1.4	0.9	0.0	0	154.2
		Total	379.7	87.9	58.2	26.8	1.4	1.9	5.6	2.3	2.8	1.4	567.9
C	C-a	0-1cm	39.1	43.7	23.5	6.4	0	0.9	0.2	0.5	0	10.2	124.6
		1-2cm	145.9	75.4	44.9	14.9	0	4.7	1.2	0	0.5	4.9	292.2
		2-3cm	76.3	17.7	10.9	9.8	0.2	0.9	0.7	0	0.2	0.2	117.0
		Total	261.2	136.8	79.3	31.1	0.2	6.5	2.1	0.5	0.7	15.4	533.8
	C-b	0-1cm	107.0	98.6	44.7	6.5	0	0	4.7	0	0	0	261.5
		1-2cm	49.8	30.7	20.0	2.8	0	0.5	1.9	0	0	0	105.6
		2-3cm	41.9	14.0	14.0	1.4	0	1.9	0.9	0	0	0	74.0
		Total	198.7	143.3	78.6	10.7	0	2.3	7.4	0	0	0	441.1
	C-c	0-1cm	210.3	90.7	55.8	29.1	0	2.3	8.4	0.5	6.5	0	403.6
		1-2cm	149.8	61.9	48.4	9.3	0	0.5	1.9	0	1.4	0	273.1
		2-3cm	60.5	27.0	25.1	3.7	0	1.4	0.0	0	0.9	0	118.6
		Total	420.6	179.6	129.3	42.1	0	4.2	10.2	0.5	8.8	0	795.4
E2	E2-a	0-1cm	152.6	94.9	38.2	59.6	0	0.9	0	5.6	0.9	0.9	353.6
		1-2cm	250.3	15.8	4.7	19.5	0	0	0	0	0.9	0	291.3
		2-3cm	134.0	8.4	2.8	6.5	0	0	0	0	0.0	0	151.7
		Total	536.9	119.1	45.6	85.6	0	0.9	0	5.6	1.9	0.9	796.5
	E2-b	0-1cm	369.4	99.6	96.8	25.1	0.9	0	0	7.4	0.9	0.9	601.1
		1-2cm	364.8	27.9	8.4	14.4	0	0	0	0	0	0	415.5
		2-3cm	262.4	5.6	2.8	3.7	0	0	0	0	0	0.9	275.4
		Total	996.6	133.1	107.9	43.3	0.9	0	0	7.4	0.9	1.9	1292.0
	E2-c	0-1cm	190.8	74.4	54.0	20.2	0	2.3	0.5	1.9	2.8	3.3	350.1
		1-2cm	495.5	23.7	24.2	10.7	0	0	0.5	0	0.9	0	555.5
		2-3cm	238.2	12.1	5.1	2.3	0	0	0	0	0.5	0	258.2
		Total	924.5	110.3	83.3	33.3	0	2.3	0.9	1.9	4.2	3.3	1163.9

*mostly individuals belonging to soft-bodied meiofauna taxa, which were unidentifiable after fixation.