



<i>Macoma loveni</i>	22.5		
<i>Macoma moesta</i>			20–22.5
<i>Mactromeris polynyma</i>			11–19.5
<i>Musculus glacialis</i>	23		50
<i>Musculus laevigatus</i>			50
<i>Mya pseudoarenaria</i>			50
<i>Mysella planata</i>	23.5		13–22.5
<i>Mytilus trossulus</i>		2–17	
<i>Nuculana pernula</i>			49–50
<i>Panomya norvegica</i>			50
<i>Pisidium orientale</i>			3.5–4
<i>Pododesmus macrochisma</i>			47
<b><i>Raeta pulchella</i></b>	18–24	13.5	
<i>Serripes groenlandicus</i>			18–50
<i>Siliqua alta</i>	9–17.5	4	10–19.5
<i>Solamen columbianum</i>			50
<i>Tellina lutea</i>			11.5–28
<b><i>Venerupis philippinarum</i></b>		16.5	
<i>Yoldia myalis</i>			27–50
<i>Yoldia seminuda</i>	16–24		19.5–54
Frequency index of bivalves (%)	86.4		93.8
			82.4
Average contribution of bivalves to the total macrobenthos biomass per station (%)	29.7 ± 8.0		74.6 ± 3.4
			25.7 ± 4.9

Table S2. (a) Environmental and (b) biotic characterisation of the different areas of the Amur River estuary based on the pooling of multi-year sampling data. Averaged values ( $\pm$ SE) of all stations for each area of the estuary are given for depth (m), temperature of water (Temp.) near bottom ( $^{\circ}$ C), salinity near bottom (psu), oxygen ( $O_2$ ) concentration near bottom ( $ml\ \Gamma^{-1}$ ), gravel, sand, and silt-clay content (%), number of species per station, biomass ( $g\ wet\ wt\ m^{-2}$ ) and density ( $ind.\ m^{-2}$ ). T, Tatar Strait; ET, exit to Tatar Strait; L, Amurskiy Liman; MR, mouth of river; ES, exit to Sakhalin Gulf; S, Sakhalin Gulf

(a)

Area of estuary	Depth (m)		Temp. ( $^{\circ}$ C)		Salinity		$O_2$ ( $ml\ \Gamma^{-1}$ )		Gravel (%)		Sand (%)		Silt-clay (%)	
	Mean $\pm$ SE	Range	Mean $\pm$ SE	Range	Mean $\pm$ SE	Range	Mean $\pm$ SE	Range	Mean $\pm$ SE	Range	Mean $\pm$ SE	Range	Mean $\pm$ SE	Range
T	15.2 $\pm$ 1.3	4.0–24.0	7.9 $\pm$ 0.9	1.6–14.4	30.7 $\pm$ 0.4	27.2–32.9	6.4 $\pm$ 0.2	5.3–7.4	0.8 $\pm$ 0.2	0–4	56.6 $\pm$ 8.5	15–97	42.6 $\pm$ 8.7	2–85
ET	7.8 $\pm$ 1.0	1.5–19.5	10.0 $\pm$ 0.8	7.7–13.4	23.5 $\pm$ 1.9	12.2–29.8	5.4 $\pm$ 0.4	3.2–7.4	13.3 $\pm$ 1.3	0–13	42.0 $\pm$ 11.7	3–99	56.7 $\pm$ 12.1	1–97
L	10.8 $\pm$ 1.0	4.0–17.0	11.8 $\pm$ 0.6	8.4–16.0	18.2 $\pm$ 2.1	1.2–28.9	6.3 $\pm$ 0.2	3.9–7.4	0	0	31.5 $\pm$ 8.6	0–90	68.5 $\pm$ 8.6	10–100
MR	6.3 $\pm$ 1.4	3.5–13.0	15.8 $\pm$ 0.6	14.1–18.5	2.4 $\pm$ 1.5	0.03–10.2	5.6 $\pm$ 0.2	4.9–6.2	0	0	46.6 $\pm$ 16.3	5–80	53.4 $\pm$ 16.3	20–95
ES	11.8 $\pm$ 1.6	7.0–20.0	8.5 $\pm$ 2.1	1.1–16.9	20.6 $\pm$ 3.2	10.6–31.6	7.4 $\pm$ 0.3	6.2–9.1	0	0	57.5 $\pm$ 12.6	6–95	42.5 $\pm$ 12.6	5–94
S	26.9 $\pm$ 2.1	10.0–54.0	-0.9 $\pm$ 0.2	-1.8–3.3	32.9 $\pm$ 0.1	31.1–33.7	7.1 $\pm$ 0.2	4.6–9.9	0.6 $\pm$ 0.4	0–5	55.7 $\pm$ 6.8	13–95	43.7 $\pm$ 7.1	1–87

(b)

Area of estuary	Total number of species	Number of species per station		Biomass ( $g\ wet\ wt\ m^{-2}$ )		Density ( $ind.\ m^{-2}$ )	
		Mean $\pm$ SE	Maximum	Mean $\pm$ SE	Maximum	Mean $\pm$ SE	Maximum
T	15	2.3 $\pm$ 0.1	6	113.6 $\pm$ 69.9	1173.8	137.0 $\pm$ 58.1	797
ET	3	2.0 $\pm$ 0.1	3	168.3 $\pm$ 23.4	556.5	275.5 $\pm$ 44.8	1130
L	1	1.0 $\pm$ 0.0	1	133.3 $\pm$ 33.5	438.8	338.1 $\pm$ 94.8	1253
MR	4	1.6 $\pm$ 0.3	3	155.8 $\pm$ 79.8	596.5	140.4 $\pm$ 62.7	507
ES	2	1.1 $\pm$ 0.1	2	8.3 $\pm$ 1.6	18.2	10.4 $\pm$ 4.8	43
S	29	2.8 $\pm$ 0.5	16	34.9 $\pm$ 8.7	257.0	25.9 $\pm$ 7.5	245