

Supplementary materials.

Trends and drivers of *Macoma balthica* L. dynamics in the Kandalaksha bay, the White Sea.

Evgeny A. Genelt-Yanovskiy, Dmitriy A. Aristov, Alexey V. Poloskin, Sophia A. Nazarova

Table A. Autocorrelation of *Macoma balthica* dynamics time-series.

Lags	Sites		
	ZRS	GOR	EST
1	0.60 *	0.49 *	0.60 *
2	0.18	0.07	0.32
3	-0.03	0.08	0.33
4	-0.20	0.22	0.30
5	-0.27	0.21	0.24
6	-0.19	-0.17	-0.02
7	-0.26	-0.32	-0.19
8	0.16	-0.25	-0.17
9	-0.03	-0.16	-0.17
10	0.04	-0.12	-0.18
11	0.00	-0.15	-0.24
12	0.05	-0.09	-0.28
13	-	-0.08	-0.17

Significance level: * $p < 0.05$

Table B. Similarity (Mantel correlation test) of *Macoma balthica* population dynamics.

	EST	GOR	LOM	LUV	YUG
EST					
GOR	0.929 *				
LOM	-0.451	-0.181			
LUV	0.781 *	0.862 ***	-		
YUG	0.419 **	-0.332	0.333	-	
ZRS	0.114	0.86 ***	0.093	0.755 **	-0.048

Significance level: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Table C. Comparison of mean annual shell increment of *Macoma balthica* from different cohorts.

Year of sampling	Year of growth	Kruskal-Wallis χ^2	P value	Mean annual shell increment, mm
1997	2	5.4	0.14	1.1
	3	6.2	0.10	1.4
	4	0.4	0.82	1.9
	5	1.9	0.17	1.8
2015	2	1.5	0.68	1.2
	3	8.6	0.04	1.3
	4	0.1	0.93	1.3
	5	0.2	0.64	1.2