

Online Resource 11. Model selection table identifying the most parsimonious models of relationship between densities of studied groups and abiotic factors (water level, pH, a.s.l.): a) Tardigrada, b) Rotifera, c) Cyanobacteria, d) Algae. Only the best five candidate models are shown.

a) Tardigrada

Rank	Fixed effects	df	QAIC	ΔQAIC
1	Intercept only (null model)	1	5.1	0
2	Water	2	6.8	1.73
3	pH	2	6.8	1.73
4	a.s.l.	2	6.8	1.73
5	Water + pH	3	8.5	3.39

b) Rotifera

Rank	Fixed effects	df	QAIC	ΔQAIC
1	Water	2	28.0	0
2	Intercept only (null model)	1	29.2	0.74
3	Water + a.s.l.	3	28.8	1.23
4	a.s.l.	2	29.6	1.56
5	Water + pH	4	29.9	1.85

c) Cyanobacteria

Rank	Fixed effects	df	QAIC	ΔQAIC
1	Water	2	24.4	0
2	Intercept only (null model)	1	25.1	0.67
3	Water + pH	3	26.1	1.67

4	Water + a.s.l.	3	26.3	1.94
5	pH	2	26.4	1.99

a) Algae

Rank	Fixed effects	df	QAIC	ΔQAIC
1	pH	2	27.5	0
2	pH + a.s.l.	3	29.4	1.92
3	pH + Water	3	29.5	2.00
4	Intercept only (null model)	1	31.3	3.78
5	pH + Water + a.s.l.	4	31.4	3.92

Snapshot of micro-animals and associated biotic and abiotic environmental variables on the edge of south-west Greenland ice sheet. *Limnology*.

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