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STEFANIJA ŠESTANOVIĆ, ANA VRDOLJAK TOMAŠ,
MLADEN ŠOLIĆ, DANIJELA ŠANTIĆ, NATALIA
BOJANIĆ

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Temperature Effects on Growth Rates and Predation Loss of Bacterial Groups in Marine Ecosystems

Stefanija ŠESTANOVIĆ, Ana VRDOLJAK TOMAŠ, Mladen ŠOLIĆ, Danijela ŠANTIĆ, and Natalia BOJANIĆ

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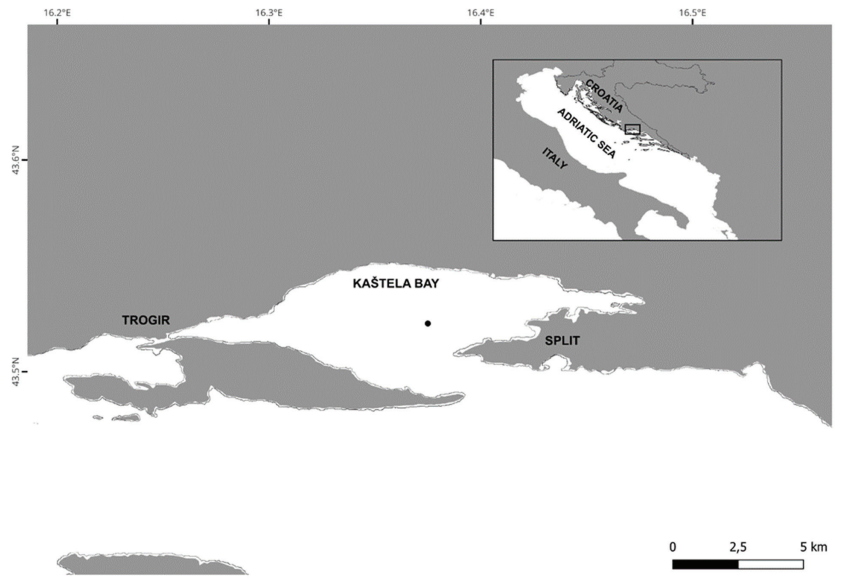


Fig. S1: Map of the investigated area.

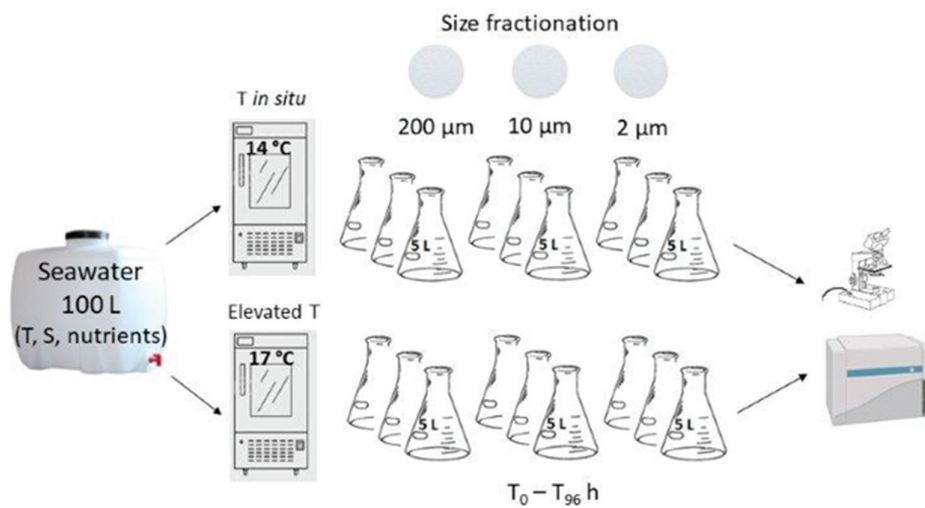


Fig. S2: Scheme of the experimental design.

Table S1. Concentrations of nutrients (average \pm standard deviation) during the experiment at ambient (T_{amb}) and a 3°C increased temperature ($T_{amb}+3$).

Parameter	Time (hours)	T_{amb}		$T_{amb}+3$	
		< 2 mm fraction	< 200 mm fraction	< 2 mm fraction	< 200 mm fraction
NO_2^- (mmol L ⁻¹)	0	7.10 \pm 0.51	6.79 \pm 0.70	7.34 \pm 0.79	7.29 \pm 0.30
	24	7.02 \pm 0.58	7.03 \pm 0.68	7.19 \pm 0.51	7.62 \pm 0.46
	48	6.83 \pm 0.32	6.82 \pm 0.65	6.76 \pm 0.72	7.21 \pm 0.93
	72	6.26 \pm 0.26	6.74 \pm 0.62	6.71 \pm 0.42	7.84 \pm 0.41
	96	5.56 \pm 0.30	6.58 \pm 0.48	6.41 \pm 0.51	7.23 \pm 0.30
NO_3^- (mmol L ⁻¹)	0	13.59 \pm 1.09	16.47 \pm 0.65	14.10 \pm 0.98	15.19 \pm 0.61
	24	16.52 \pm 0.72	16.43 \pm 0.56	16.88 \pm 0.78	17.58 \pm 0.66
	48	13.41 \pm 0.81	14.07 \pm 0.64	13.80 \pm 1.06	16.76 \pm 0.88
	72	13.93 \pm 1.01	13.52 \pm 0.66	12.90 \pm 1.47	14.25 \pm 0.84
	96	10.72 \pm 0.89	11.52 \pm 0.52	13.54 \pm 0.62	13.75 \pm 0.41
NH_4^+ (mmol L ⁻¹)	0	2.56 \pm 0.31	2.22 \pm 0.19	1.96 \pm 0.31	1.70 \pm 0.31
	24	1.16 \pm 0.15	0.07 \pm 0.02	0.74 \pm 0.14	0.15 \pm 0.05
	48	1.25 \pm 0.09	0.13 \pm 0.01	1.34 \pm 0.15	0.50 \pm 0.20
	72	0.97 \pm 0.12	0.39 \pm 0.06	1.39 \pm 0.14	0.38 \pm 0.10
	96	0.85 \pm 0.09	0.16 \pm 0.02	0.64 \pm 0.11	0.49 \pm 0.09
HPO_4^{2-} (mmol L ⁻¹)	0	0.16 \pm 0.05	0.09 \pm 0.02	0.22 \pm 0.06	0.19 \pm 0.03
	24	0.41 \pm 0.04	0.06 \pm 0.02	0.25 \pm 0.09	0.28 \pm 0.10
	48	0.14 \pm 0.01	0.10 \pm 0.03	0.15 \pm 0.03	0.11 \pm 0.02
	72	0.16 \pm 0.08	0.03 \pm 0.00	0.15 \pm 0.04	0.14 \pm 0.06
	96	0.06 \pm 0.01	0.01 \pm 0.00	0.06 \pm 0.03	0.11 \pm 0.07

Table S2. Oligonucleotide probes and hybridization conditions used for CARD-FISH. FA (%): final concentration of formamide used in the hybridization buffer.

Probe	Sequence (5'.....3')	Target group	FA (%)	Reference
EUB338	GCTGCCTCCCGTAGGAGT	Most <i>Eubacteria</i>	55	Amann <i>et al.</i> , 1990
GAM42a	GCCTTCCCACATCGTTT	<i>Gammaproteobacteria</i>	55	Manz <i>et al.</i> , 1992
CF319a	TGGTCCGTGTCTCAGTAC	<i>Bacteroidetes</i>	55	Manz <i>et al.</i> , 1996
ROS537	CAACGCTAACCCCTCC	<i>Roseobacter</i> clade	55	Eilers <i>et al.</i> , 2001
SAR11-441R	TACAGTCATTTTCTCCCCGAC	<i>SAR11</i> clade	45	Morris <i>et al.</i> , 2002
Non338	ACTCCTACGGGAGGCGC	Control probe of EUB338	55	Wallner <i>et al.</i> , 1993