## **Supplementary Information**

## Temporal variation in the prokaryotic community of a nearshore marine environment

Marino Korlević<sup>1\*</sup>, Marsej Markovski<sup>1</sup>, Gerhard J. Herndl<sup>2,3</sup>, and Mirjana Najdek<sup>1</sup>

1. Center for Marine Research, Ruđer Bošković Institute, Croatia

2. Department of Functional and Evolutionary Ecology, University of Vienna, Austria

3. Department of Marine Microbiology and Biogeochemistry, Royal Netherlands Institute for Sea Research (NIOZ), Utrecht University, The Netherlands

\*To whom correspondence should be addressed:

Marino Korlević

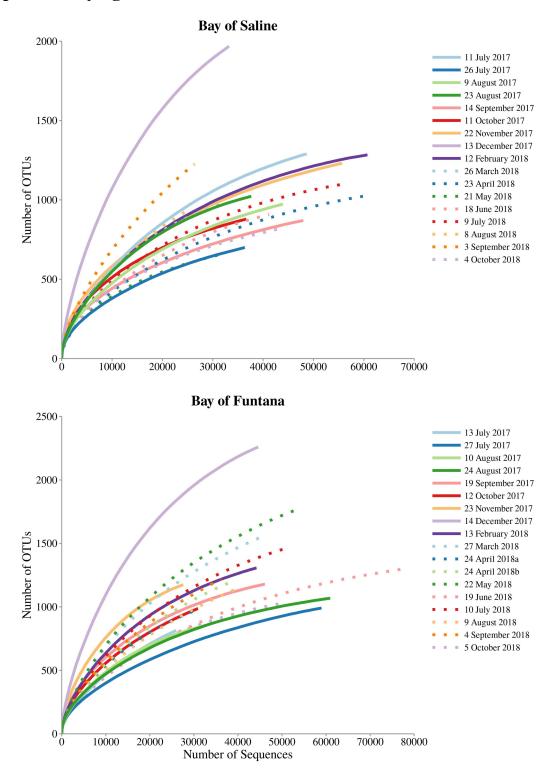
G. Paliaga 5, 52210 Rovini, Croatia

Tel.: +385 52 804 768

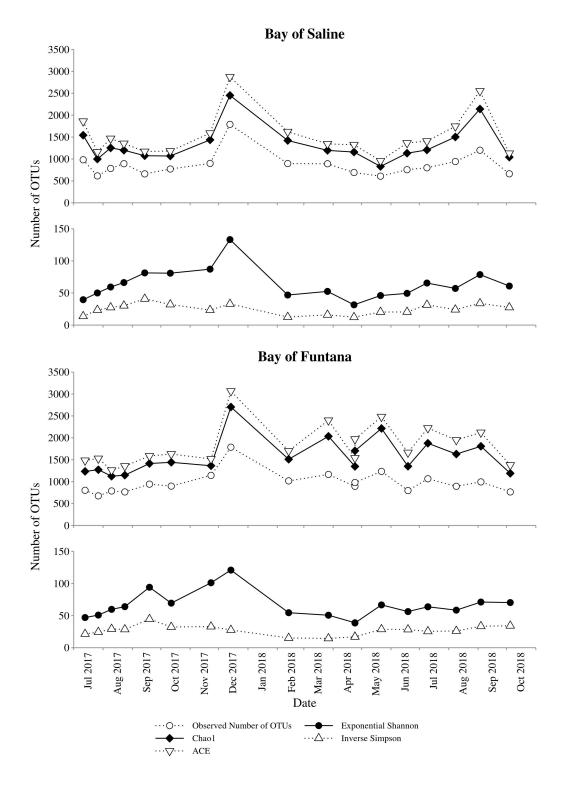
Fax: +385 52 804 780

e-mail: marino.korlevic@irb.hr

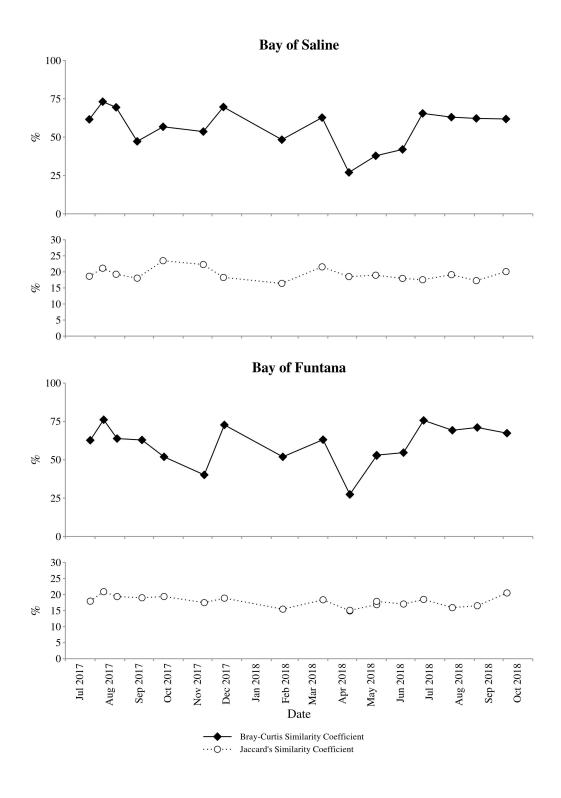
## **Supplementary figures**



**Supplementary Figure S1.** Rarefaction curves of bacterial and archaeal communities sampled in the Bay of Saline and Funtana.



**Supplementary Figure S2.** Seasonal dynamics of observed number of OTUs, Chao1, ACE, exponential of the Shannon diversity index, and Inverse Simpson index of bacterial and archaeal communities sampled in the Bay of Saline and Funtana.



**Supplementary Figure S3.** Proportion of shared bacterial and archaeal communities (Bray-Curtis similarity coefficient) and shared bacterial and archaeal OTUs (Jaccard's similarity coefficient) between consecutive sampling dates of communities sampled in the Bay of Saline and Funtana.

## **Supplementary table**

**Supplementary Table S1.** Sample ID, sampling station and date, and number of sequences and OTUs of each sample. The number of sequences and OTUs was calculated after exclusion of sequences without known relatives (no relative sequences) and eukaryotic, chloroplast, and mitochondrial sequences.

Sample ID	Station	Date	Number of Sequences	Number of OTUs
2	Bay of Saline 11 July 2017 48,652 1,2		1,290	
3	Bay of Funtana 13 July 2017 25,989 81		814	
4	Bay of Saline	Bay of Saline 26 July 2017 36,368 70		700
5	Bay of Funtana 27 July 2017 58,952 9		991	
6	Bay of Saline	Saline 9 August 2017 43,934 9		973
7	Bay of Funtana	a 10 August 2017 32,624 8		855
8	Bay of Saline	23 August 2017	37,636	1,023
9	Bay of Funtana	24 August 2017	60,937	1,068
10	Bay of Saline	14 September 2017	47,977	870
11	Bay of Funtana 19 September 2017 46,110		1,179	
12	Bay of Saline 11 October 2017 36,655		879	
13	Bay of Funtana	Bay of Funtana 12 October 2017 30,930 987		987
14	Bay of Saline 22 November 2017 55,678 1,23		1,231	
15	Bay of Funtana 23 November 2017 27,586 1,		1,175	
16	Bay of Saline	13 December 2017	33,229	1,968
17	Bay of Funtana	14 December 2017	44,602	2,259
18	Bay of Saline	Bay of Saline 12 February 2018 60,714 1,28		1,284
19	Bay of Funtana 13 February 2018 44,215 1,		1,307	
20	Bay of Saline 26 March 2018 31,953		975	
21	Bay of Funtana 27 March 2018 46,359		1,566	
22	Bay of Saline 23 April 2018 60,343		1,026	
23a	Bay of Funtana 24 April 2018 30,979		982	
23b	Bay of Funtana 24 April 2018 38,573		1,200	
24	Bay of Saline 21 May 2018 32,232 666		660	
25	Bay of Funtana	ay of Funtana 22 May 2018 53,875 1,773		1,773
26	Bay of Saline 18 June 2018 41,180 908		908	
27	Bay of Funtana 19 June 2018 77,466 1,298		1,298	
28	Bay of Saline 9 July 2018 56,739 1,104		1,104	
29	Bay of Funtana	Bay of Funtana 10 July 2018 50,803 1,460		1,460

**Supplementary Table S1.** Sample ID, sampling station and date, and number of sequences and OTUs of each sample. The number of sequences and OTUs was calculated after exclusion of sequences without known relatives (no relative sequences) and eukaryotic, chloroplast, and mitochondrial sequences. *(continued)* 

Sample ID	Station	Date	Number of Sequences	Number of OTUs
30	Bay of Saline	8 August 2018	25,360	942
31	Bay of Funtana	9 August 2018	39,058	1,133
32	Bay of Saline 3 September 2018 26,3		26,355	1,225
33	Bay of Funtana	4 September 2018	36,211	1,217
34	Bay of Saline	4 October 2018	43,955	823
35	Bay of Funtana	5 October 2018	49,573	1,026

**Supplementary Table S2.** Taxonomic classification of OTUs present at every sampling date at each station (Bay of Saline and Funtana). Only ten OTUs with the highest number of sequences after normalization to the minimum number of reads per sample are shown.

Station	OTU Number	No. of Sequences	OTU Taxonomy	
	Otu00001	33741	Bacteria; Proteobacteria; Alphaproteobacteria; SAR11 Clade; Subclade I; Subclade Ia	
	Otu00002	27922	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; AEGEAN-169 Marine Group	
	Otu00003	19674	Bacteria; Cyanobacteria; Cyanobacteriia; Synechococcales; Cyanobiaceae; Synechococcus	
	Otu00004	19220	Bacteria; Proteobacteria; Alphaproteobacteria; SAR11 Clade; Subclade III	
Bay of Saline	Otu00005	17607	Bacteria; Proteobacteria; Alphaproteobacteria; SAR11 Clade; Subclade II	
Bay of Sanne	Otu00006	16140	Bacteria; Proteobacteria; Gammaproteobacteria; SAR86 Clade	
	Otu00007	12760	Bacteria; Proteobacteria; Gamma proteobacteria; Oceanos pirilla les; Litorico la ceae; Litorico la c	
	Otu00008	10799	Bacteria; Bacteroidota; Bacteroidia; Flavobacteriales; Cryomorphaceae; uncultured Cryomorphaceae	
	Otu00011	9709	Bacteria; Bacteroidota; Bacteroidia; Flavobacteriales; Flavobacteriaceae; NS5 Marine Group	
	Otu00012	7800	Bacteria; Proteobacteria; Gammaproteobacteria; Cellvibrionales; Halieaceae; OM60 Clade	
	Otu00001	30081	Bacteria; Proteobacteria; Alphaproteobacteria; SAR11 Clade; Subclade I; Subclade Ia	
	Otu00002	25323	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales; AEGEAN-169 Marine Group	
	Otu00003	20920	Bacteria; Cyanobacteria; Cyanobacteriia; Synechococcales; Cyanobiaceae; Synechococcus	
	Otu00004	19157	Bacteria; Proteobacteria; Alphaproteobacteria; SAR11 Clade; Subclade III	
Day of Francis	Otu00008	16312	Bacteria; Bacteroidota; Bacteroidia; Flavobacteriales; Cryomorphaceae; uncultured Cryomorphaceae	
Bay of Funtana	Otu00005	16166	Bacteria; Proteobacteria; Alphaproteobacteria; SAR11 Clade; Subclade II	
	Otu00010	16096	Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales; Rhodobacteraceae; Ascidiaceihabitans	
	Otu00007	14847	Bacteria; Proteobacteria; Gamma proteobacteria; Oceanos pirillales; Litoricolaceae; Litorico	
	Otu00006	12451	Bacteria; Proteobacteria; Gammaproteobacteria; SAR86 Clade	
	Otu00011	9972	Bacteria; Bacteroidota; Bacteroidia; Flavobacteriales; Flavobacteriaceae; NS5 Marine Group	