Supplementary Information

Prokaryotic community temporal variation in a coastal marine environment

Marino Korlević[1*], Marsej Markovski[1], Gerhard J. Herndl[2,3] and Mirjana Najdek[1]

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

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

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

*To whom correspondence should be addressed:

Marino Korlević

G. Paliaga 5, 52210 Rovinj, Croatia

Tel.: +385 52 804 768

Fax: +385 52 804 780

e-mail: marino.korlevic@irb.hr

Running title: Temporal variation of a coastal prokaryotic community

Supplementary figures

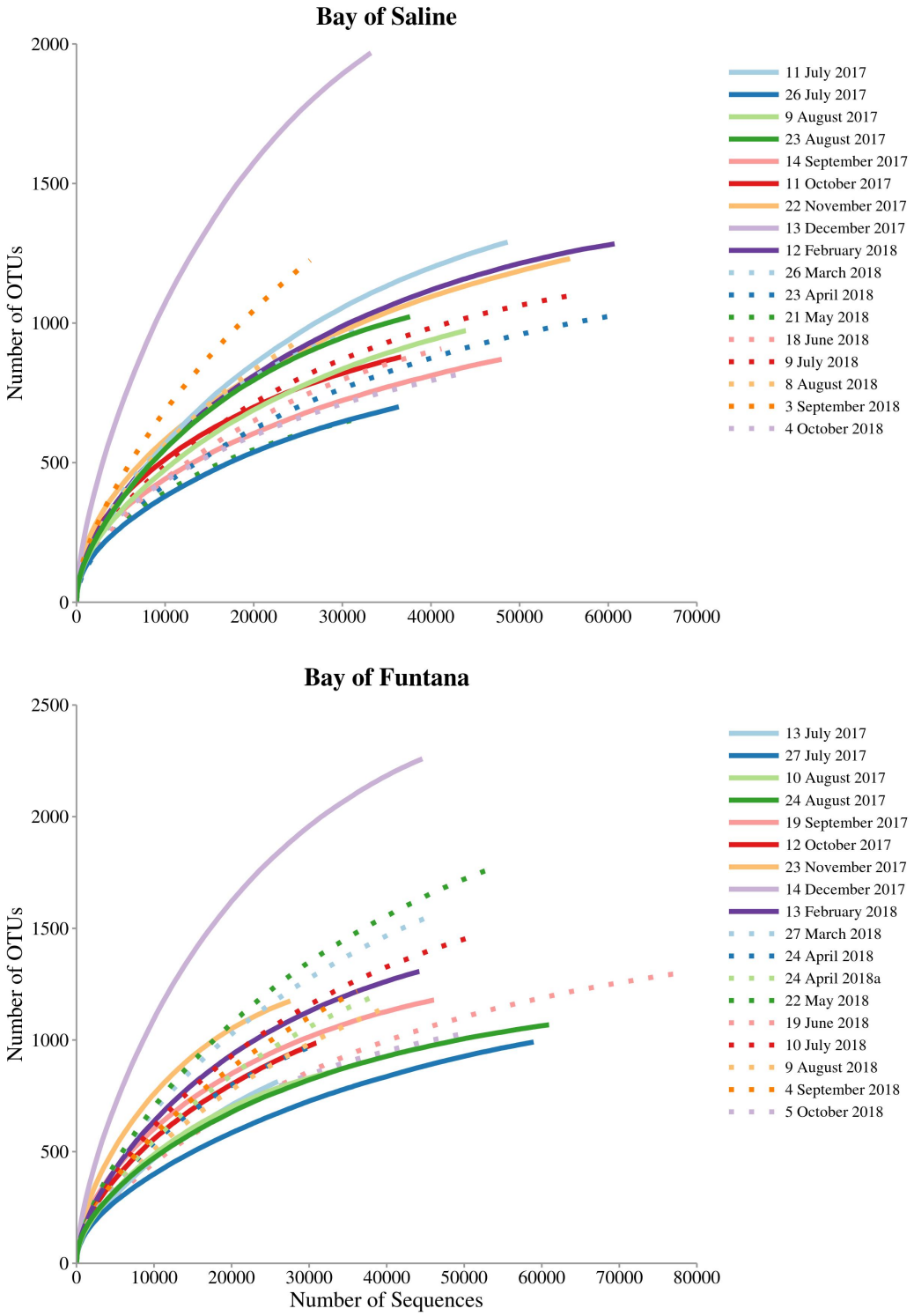

Fig. S1. Rarefaction curves of bacterial and archaeal communities sampled in Saline and Funtana Bay.

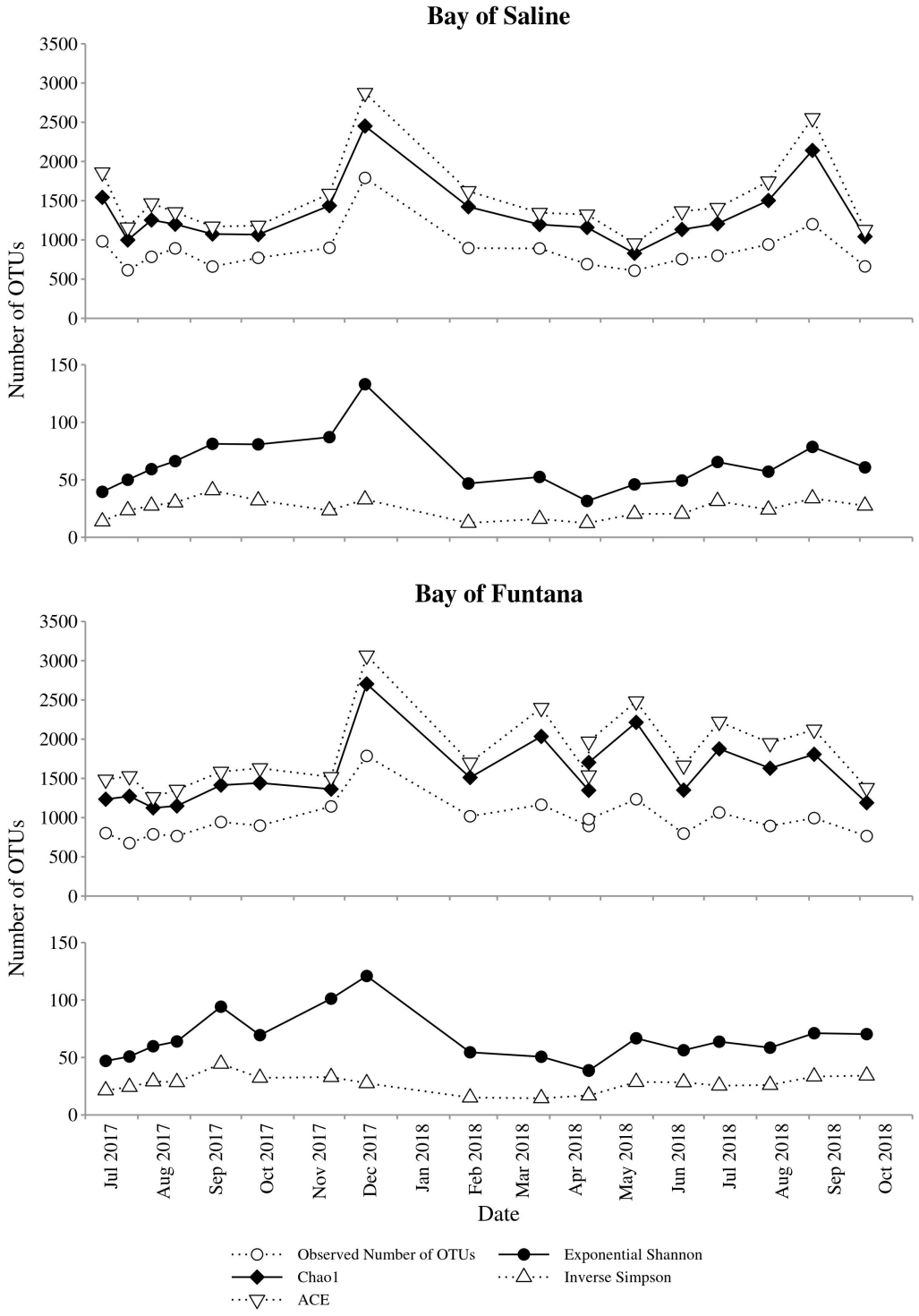

Fig. S2. Seasonal dynamics of observed number of OTUs, Chao1, ACE, exponential of the Shannon diversity index and Inverse Simpson index of bacterial and archaeal communities sampled in Saline and Funtana Bay.

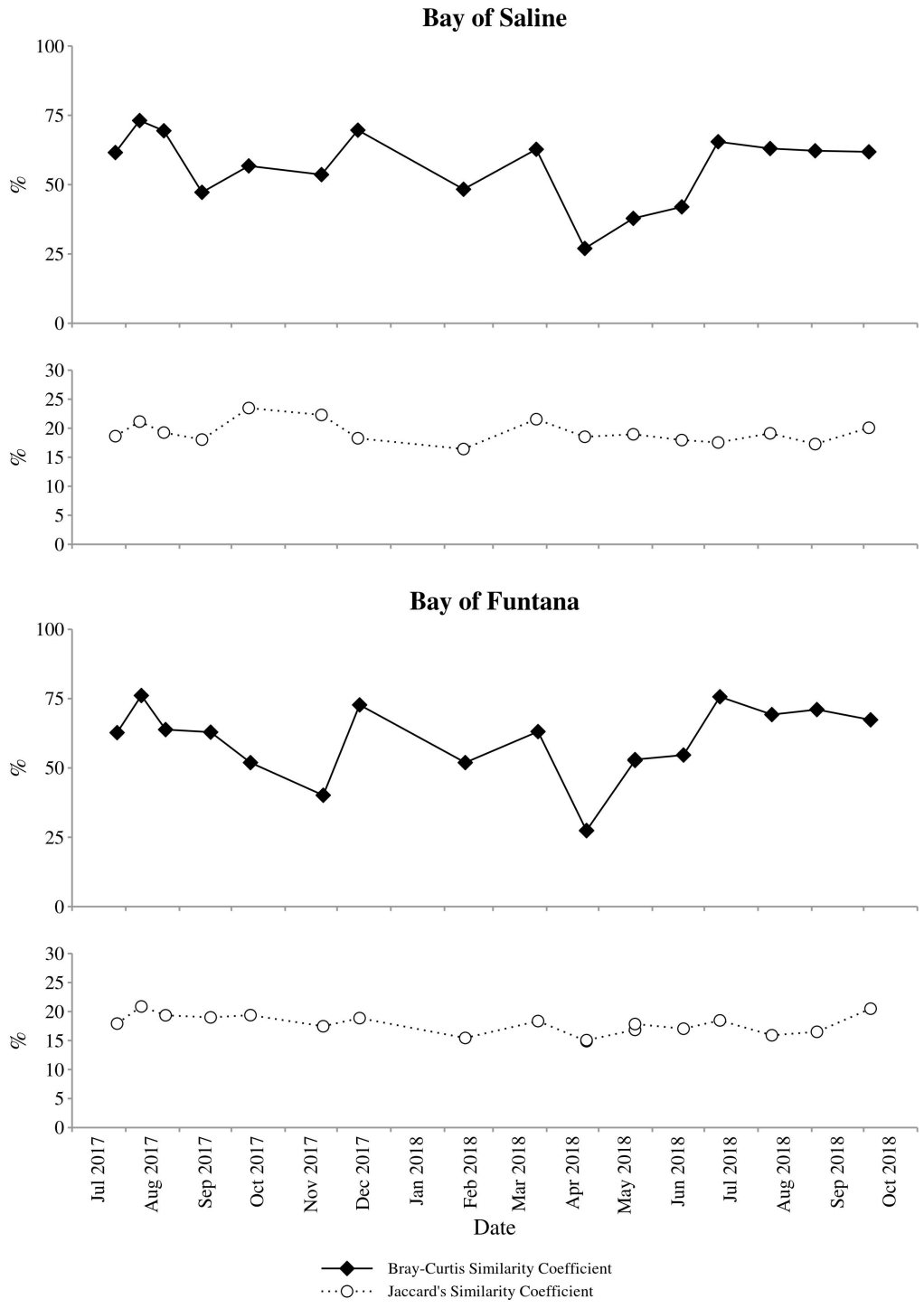

Fig. S3. Proportion of shared bacterial and archaeal communities (Bray-Curtis similarity coefficient) and shared bacterial and archaeal OTUs (Jaccard's similarity coefficient) between consecutive sampling dates of communites sampled in Saline and Funtana Bay.

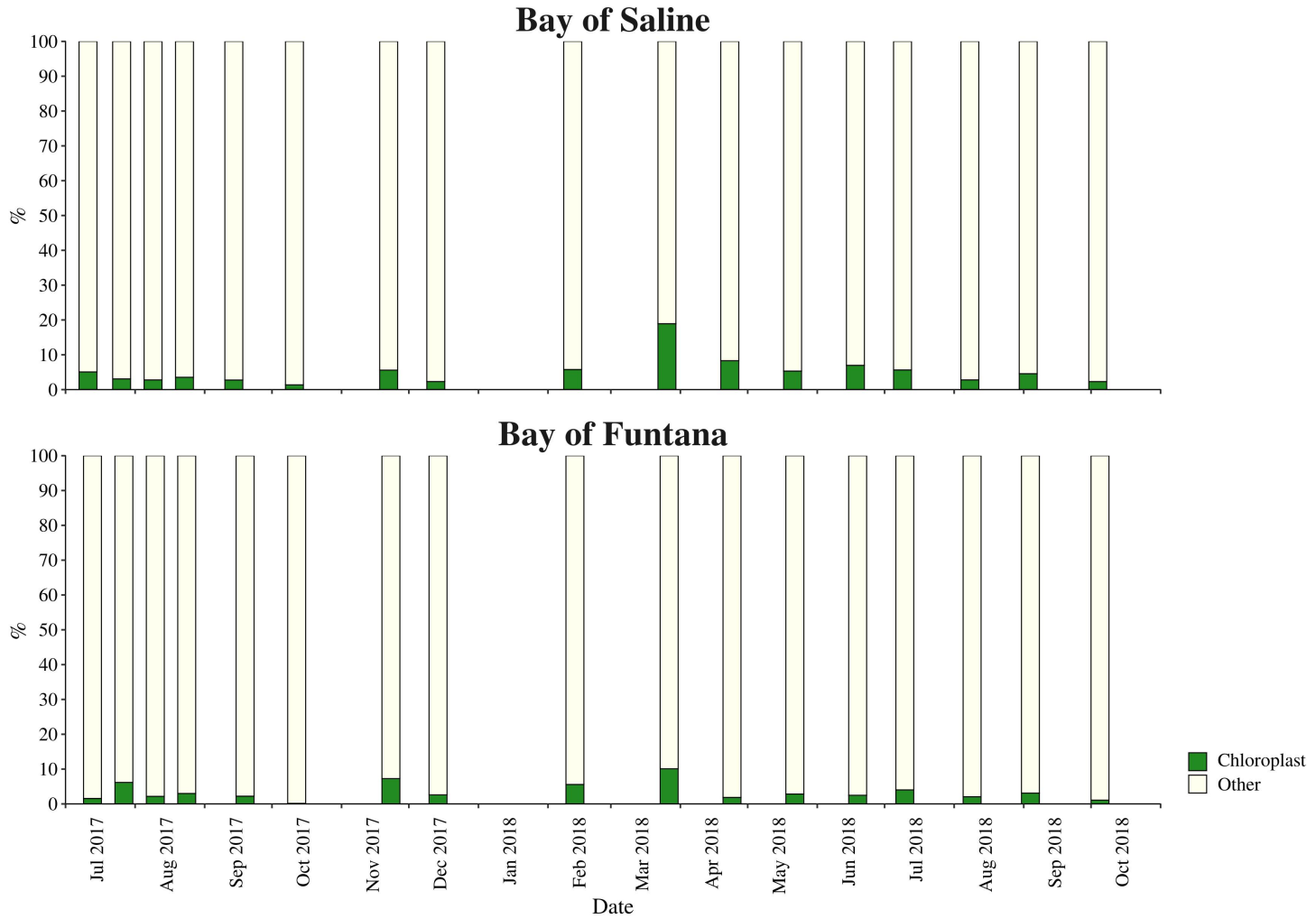

Fig. S4. Relative contribution of chloroplast sequences to the total number of obtained sequences in samples retrieved from Saline and Funtana Bay.

Supplementary table

Table S1. Sample ID, sampling station date and season, no. of sequences and no. of 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	Season	No. of Sequences	No. of OTUs
2	Bay of Saline	11 July 2017	Summer	48,652	1,290
3	Bay of Funtana	13 July 2017	Summer	25,989	814
4	Bay of Saline	26 July 2017	Summer	36,368	700
5	Bay of Funtana	27 July 2017	Summer	58,952	991
6	Bay of Saline	9 August 2017	Summer	43,934	973
7	Bay of Funtana	10 August 2017	Summer	32,624	855
8	Bay of Saline	23 August 2017	Summer	37,636	1,023
9	Bay of Funtana	24 August 2017	Summer	60,937	1,068
10	Bay of Saline	14 September 2017	Summer	47,977	870
11	Bay of Funtana	19 September 2017	Summer	46,110	1,179
12	Bay of Saline	11 October 2017	Autumn	36,655	879
13	Bay of Funtana	12 October 2017	Autumn	30,930	987
14	Bay of Saline	22 November 2017	Autumn	55,678	1,231
15	Bay of Funtana	23 November 2017	Autumn	27,586	1,175
16	Bay of Saline	13 December 2017	Autumn	33,229	1,968
17	Bay of Funtana	14 December 2017	Autumn	44,602	2,259
18	Bay of Saline	12 February 2018	Winter	60,714	1,284
19	Bay of Funtana	13 February 2018	Winter	44,215	1,307
20	Bay of Saline	26 March 2018	Winter	31,953	975
21	Bay of Funtana	27 March 2018	Winter	46,359	1,566
22	Bay of Saline	23 April 2018	Spring	60,343	1,026
23a	Bay of Funtana	24 April 2018	Spring	30,979	982
23b	Bay of Funtana	24 April 2018	Spring	38,573	1,200
24	Bay of Saline	21 May 2018	Spring	32,232	660
25	Bay of Funtana	22 May 2018	Spring	53,875	1,773
26	Bay of Saline	18 June 2018	Spring	41,180	908
27	Bay of Funtana	19 June 2018	Spring	77,466	1,298
28	Bay of Saline	9 July 2018	Summer	56,739	1,104

Table S1. Sample ID, sampling station date and season, no. of sequences and no. of 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	Season	No. of Sequences	No. of OTUs
29	Bay of Funtana	10 July 2018	Summer	50,803	1,460
30	Bay of Saline	8 August 2018	Summer	25,360	942
31	Bay of Funtana	9 August 2018	Summer	39,058	1,133
32	Bay of Saline	3 September 2018	Summer	26,355	1,225
33	Bay of Funtana	4 September 2018	Summer	36,211	1,217
34	Bay of Saline	4 October 2018	Autumn	43,955	823
35	Bay of Funtana	5 October 2018	Autumn	49,573	1,026