

Supplementary Information

Seasonal Dynamics of Epiphytic Microbial Communities on Marine Macrophyte Surfaces

Marino Korlević^{1*}, Marsej Markovski¹, Zihao Zhao², Gerhard J. Herndl^{2,3}, Mirjana Najdek¹

*To whom correspondence should be addressed: marino.korlevic@irb.hr

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, Utrecht University, The Netherlands

Supplementary Figures

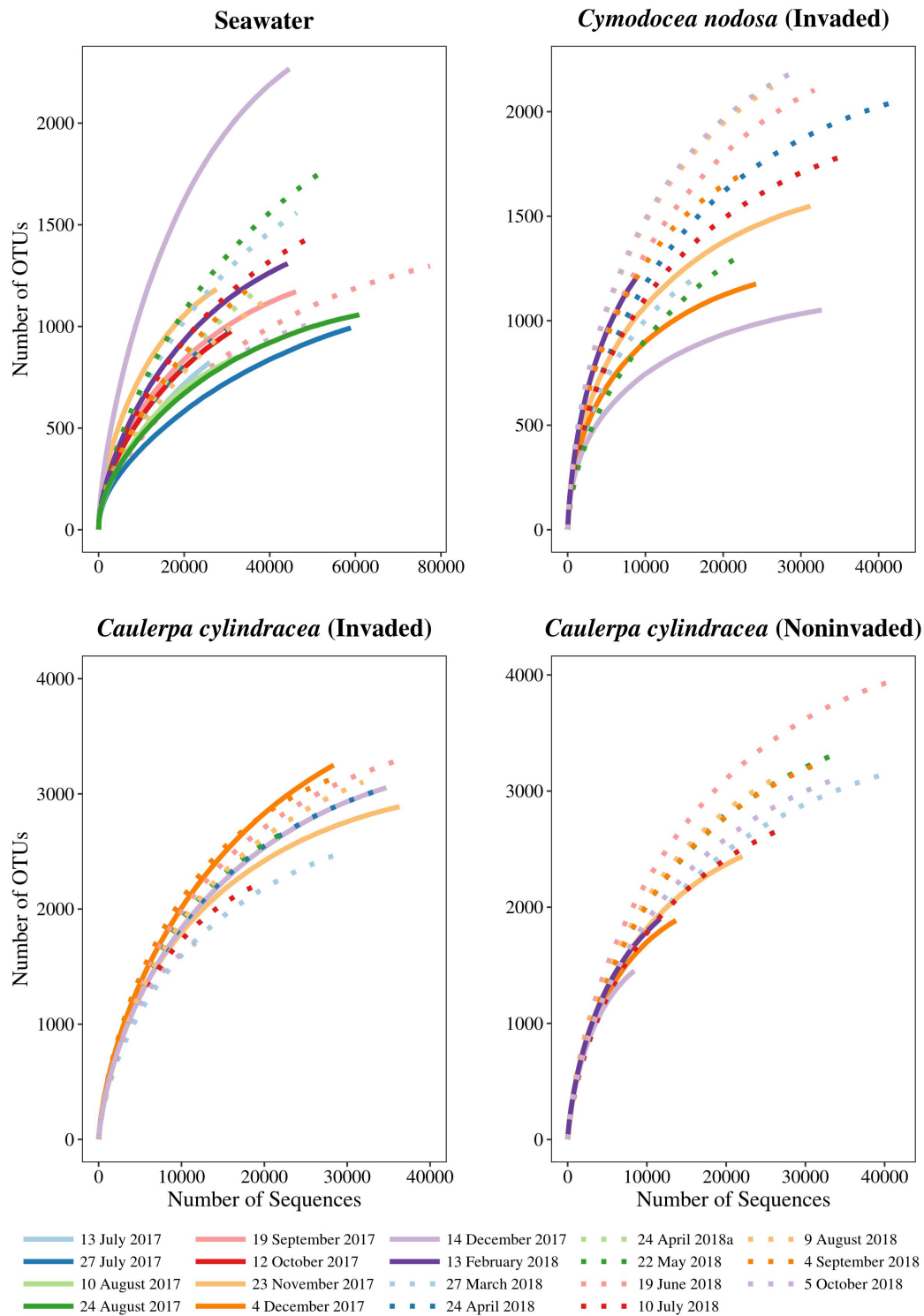


Figure S1. Rarefaction curves of bacterial and archaeal communities from the surfaces of macrophytes (*C. nodosa* [Invaded] and *C. cylindracea* [Invaded and Noninvaded]) and in the ambient seawater.

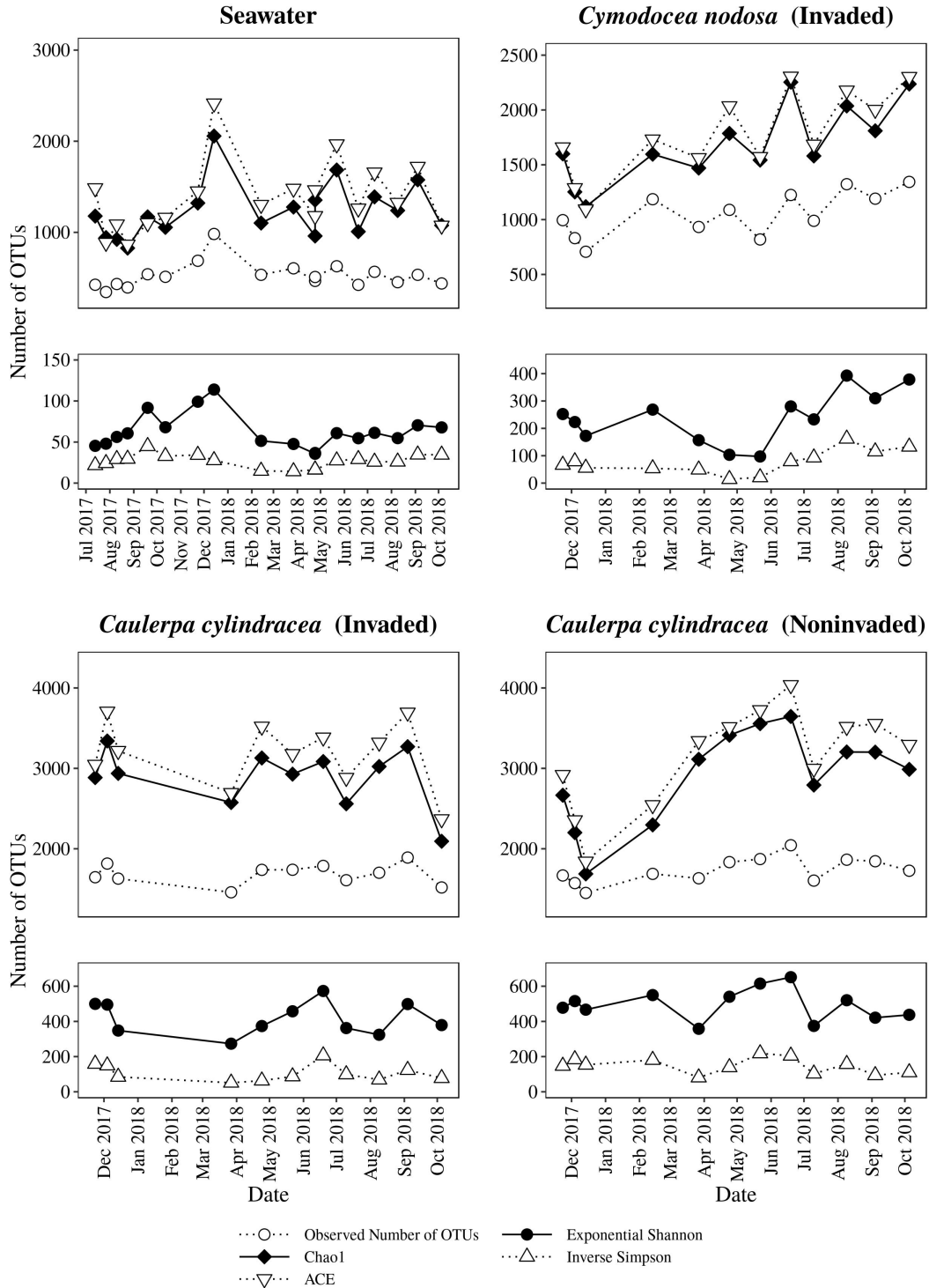


Figure S2. Seasonal dynamics of observed number of OTUs, Chao1, ACE, exponential of the Shannon Diversity Index and Inverse Simpson Index of bacterial and archaeal communities from the surfaces of macrophytes (*C. nodosa* [Invaded] and *C. cylindracea* [Invaded and Noninvaded]) and in the ambient seawater.

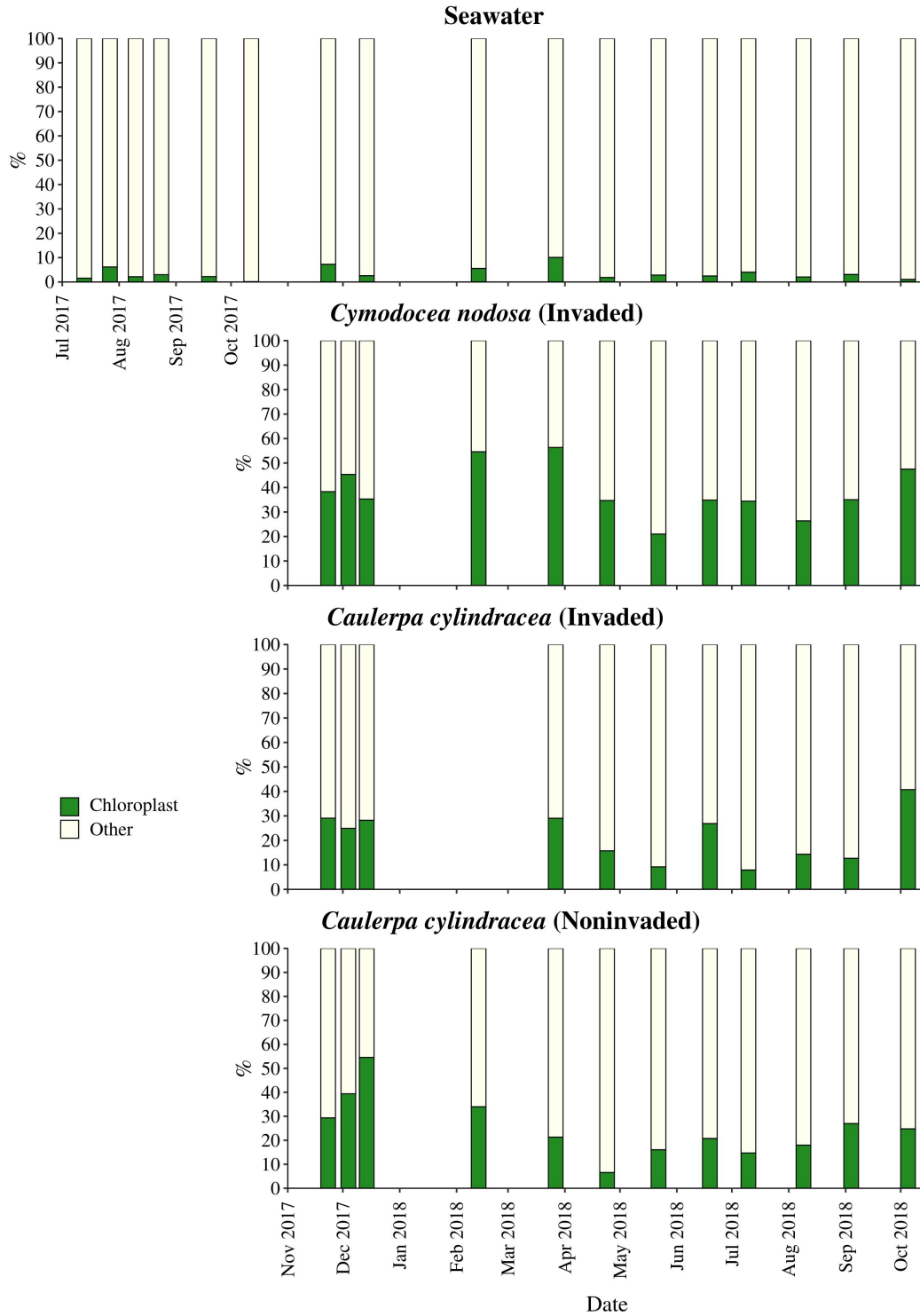


Figure S3. Relative contribution of chloroplast sequences on the surfaces of macrophytes (*C. nodosa* [Invaded] and *C. cylindracea* [Invaded and Noninvaded]) and in the ambient seawater.

Supplementary Table

Table S1. Sample ID, Community Type, Sampling Date and Season, No. of Sequences and No. of OTUs of each sample. No. of Sequences and OTUs was calculated after the exclusion of eukaryotic, chloroplast, mitochondrial and no relative sequences.

Sample ID	Community Type	Date	Season	No. of Sequences	No. of OTUs
3	Seawater	13 July 2017	Summer	26,008	824
5	Seawater	27 July 2017	Summer	58,955	993
7	Seawater	10 August 2017	Summer	32,626	852
9	Seawater	24 August 2017	Summer	60,929	1,058
11	Seawater	19 September 2017	Summer	46,111	1,171
13	Seawater	12 October 2017	Autumn	30,937	976
15	Seawater	23 November 2017	Autumn	27,581	1,183
17	Seawater	14 December 2017	Autumn	44,595	2,267
19	Seawater	13 February 2018	Winter	44,186	1,309
21	Seawater	27 March 2018	Winter	46,307	1,559
23a	Seawater	24 April 2018	Spring	30,970	998
23b	Seawater	24 April 2018	Spring	38,560	1,200
25	Seawater	22 May 2018	Spring	53,880	1,783
27	Seawater	19 June 2018	Spring	77,465	1,297
29	Seawater	10 July 2018	Summer	50,794	1,451
31	Seawater	9 August 2018	Summer	39,049	1,129
33	Seawater	4 September 2018	Summer	36,206	1,205
35	Seawater	5 October 2018	Autumn	49,580	1,013
37	<i>Cymodocea nodosa</i> (Invaded)	23 November 2017	Autumn	31,235	1,548
41	<i>Cymodocea nodosa</i> (Invaded)	4 December 2017	Autumn	24,237	1,176
45	<i>Cymodocea nodosa</i> (Invaded)	14 December 2017	Autumn	32,683	1,051
49	<i>Cymodocea nodosa</i> (Invaded)	13 February 2018	Winter	9,087	1,218
52	<i>Cymodocea nodosa</i> (Invaded)	27 March 2018	Winter	17,003	1,218
55	<i>Cymodocea nodosa</i> (Invaded)	24 April 2018	Spring	42,640	2,054
58	<i>Cymodocea nodosa</i> (Invaded)	22 May 2018	Spring	21,337	1,292
61	<i>Cymodocea nodosa</i> (Invaded)	19 June 2018	Spring	31,735	2,104
64	<i>Cymodocea nodosa</i> (Invaded)	10 July 2018	Summer	35,733	1,792
67	<i>Cymodocea nodosa</i> (Invaded)	9 August 2018	Summer	26,362	2,119

Table S1. Sample ID, Community Type, Sampling Date and Season, No. of Sequences and No. of OTUs of each sample. No. of Sequences and OTUs was calculated after the exclusion of eukaryotic, chloroplast, mitochondrial and no relative sequences. (*continued*)

Sample ID	Community Type	Date	Season	No. of Sequences	No. of OTUs
70	<i>Cymodocea nodosa</i> (Invaded)	4 September 2018	Summer	23,278	1,715
73	<i>Cymodocea nodosa</i> (Invaded)	5 October 2018	Autumn	29,909	2,205
38	<i>Caulerpa cylindracea</i> (Invaded)	23 November 2017	Autumn	36,321	2,889
42	<i>Caulerpa cylindracea</i> (Invaded)	4 December 2017	Autumn	28,370	3,249
46	<i>Caulerpa cylindracea</i> (Invaded)	14 December 2017	Autumn	34,720	3,054
53	<i>Caulerpa cylindracea</i> (Invaded)	27 March 2018	Winter	28,696	2,472
56	<i>Caulerpa cylindracea</i> (Invaded)	24 April 2018	Spring	34,773	3,054
59	<i>Caulerpa cylindracea</i> (Invaded)	22 May 2018	Spring	23,397	2,706
62	<i>Caulerpa cylindracea</i> (Invaded)	19 June 2018	Spring	36,477	3,299
65	<i>Caulerpa cylindracea</i> (Invaded)	10 July 2018	Summer	18,485	2,188
68	<i>Caulerpa cylindracea</i> (Invaded)	9 August 2018	Summer	31,940	3,103
71	<i>Caulerpa cylindracea</i> (Invaded)	4 September 2018	Summer	29,281	3,160
74	<i>Caulerpa cylindracea</i> (Invaded)	5 October 2018	Autumn	11,705	1,705
39	<i>Caulerpa cylindracea</i> (Noninvaded)	23 November 2017	Autumn	22,064	2,438
43	<i>Caulerpa cylindracea</i> (Noninvaded)	4 December 2017	Autumn	13,661	1,887
47	<i>Caulerpa cylindracea</i> (Noninvaded)	14 December 2017	Autumn	8,410	1,451
51	<i>Caulerpa cylindracea</i> (Noninvaded)	13 February 2018	Winter	11,676	1,901
54	<i>Caulerpa cylindracea</i> (Noninvaded)	27 March 2018	Winter	39,472	3,136
57	<i>Caulerpa cylindracea</i> (Noninvaded)	24 April 2018	Spring	20,298	2,822
60	<i>Caulerpa cylindracea</i> (Noninvaded)	22 May 2018	Spring	33,047	3,297
63	<i>Caulerpa cylindracea</i> (Noninvaded)	19 June 2018	Spring	41,833	3,968
66	<i>Caulerpa cylindracea</i> (Noninvaded)	10 July 2018	Summer	27,036	2,674
69	<i>Caulerpa cylindracea</i> (Noninvaded)	9 August 2018	Summer	26,737	3,130
72	<i>Caulerpa cylindracea</i> (Noninvaded)	4 September 2018	Summer	31,869	3,240
75	<i>Caulerpa cylindracea</i> (Noninvaded)	5 October 2018	Autumn	33,068	3,086