

Supplementary Information

Seasonal Dynamics of Epiphytic Microbial Communities on Marine Macrophyte Surfaces

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1 Supplementary Figures

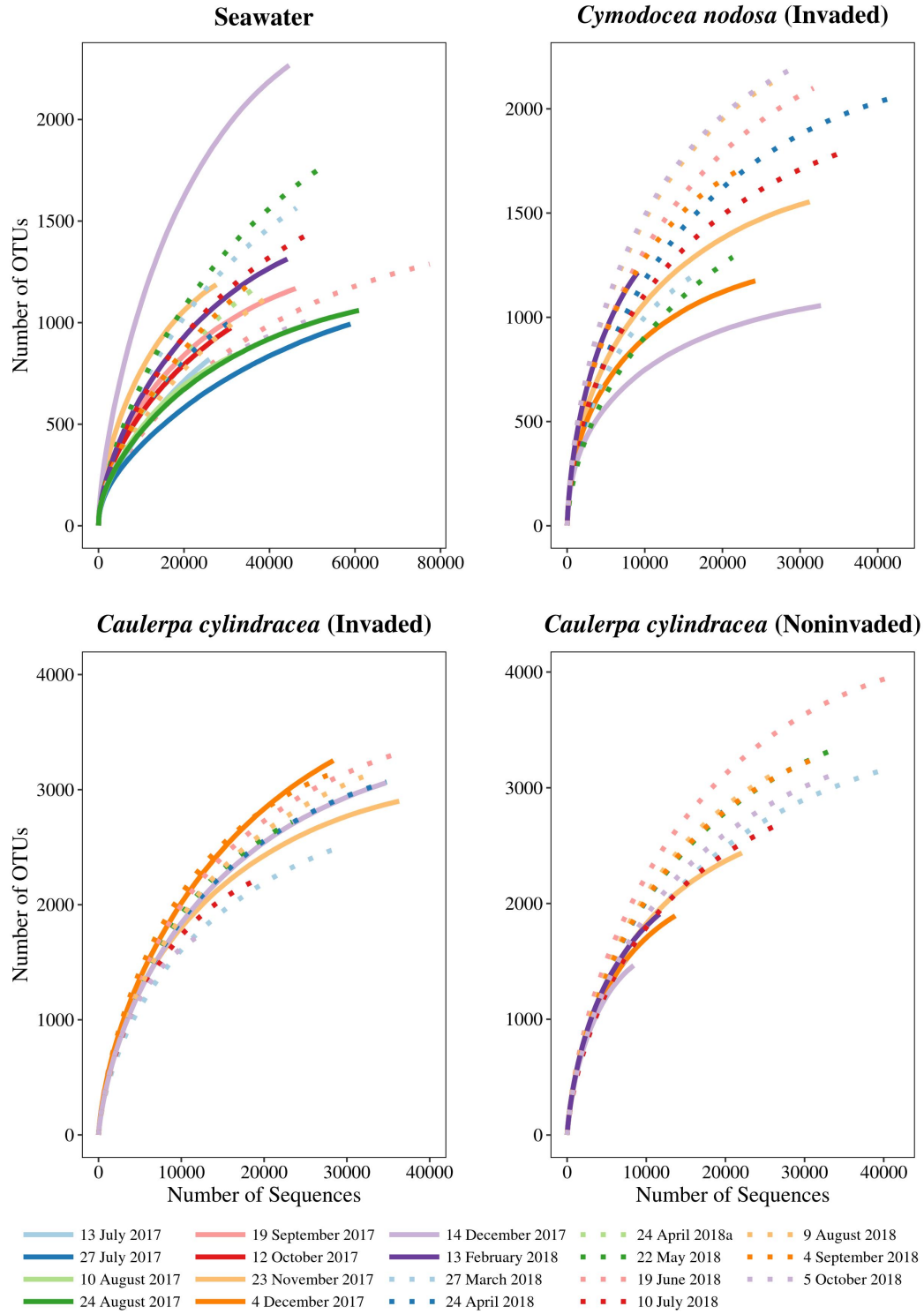


Figure S1. Rarefaction curves of bacterial and archaeal communities from the surfaces of macrophytes (*Cymodocea nodosa* [Invaded] and *Caulerpa cylindracea* [Invaded and Noninvaded]) and in the surrounding seawater.

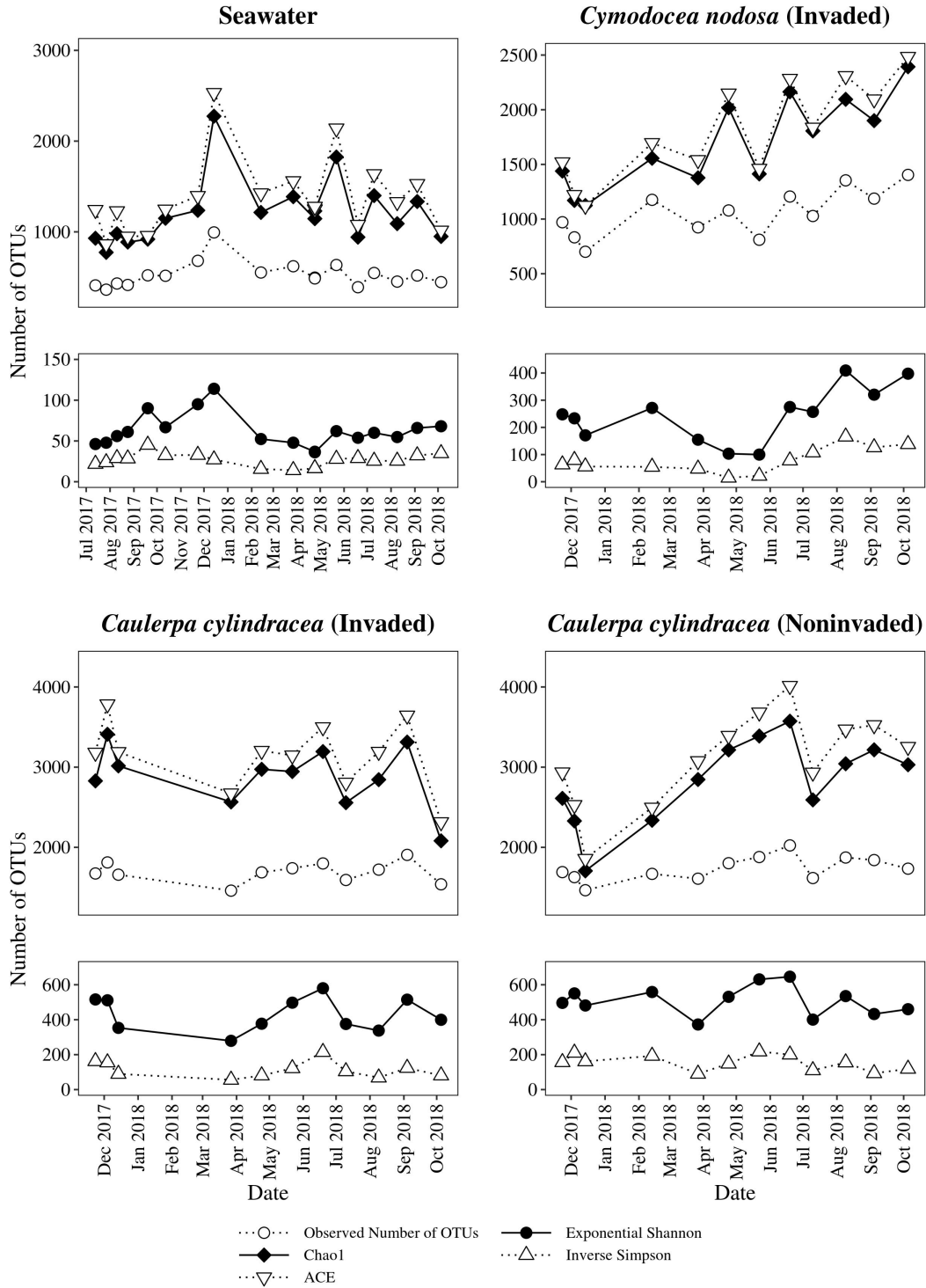


Figure S2. Seasonal dynamics of observed number of OTUs, Chao1, ACE, exponential of the Shannon Diversity Index and Inverse Simpson Index of bacterial and archaeal communities from the surfaces of macrophytes (*Cymodocea nodosa* [Invaded] and *Caulerpa cylindracea* [Invaded and Noninvaded]) and in the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

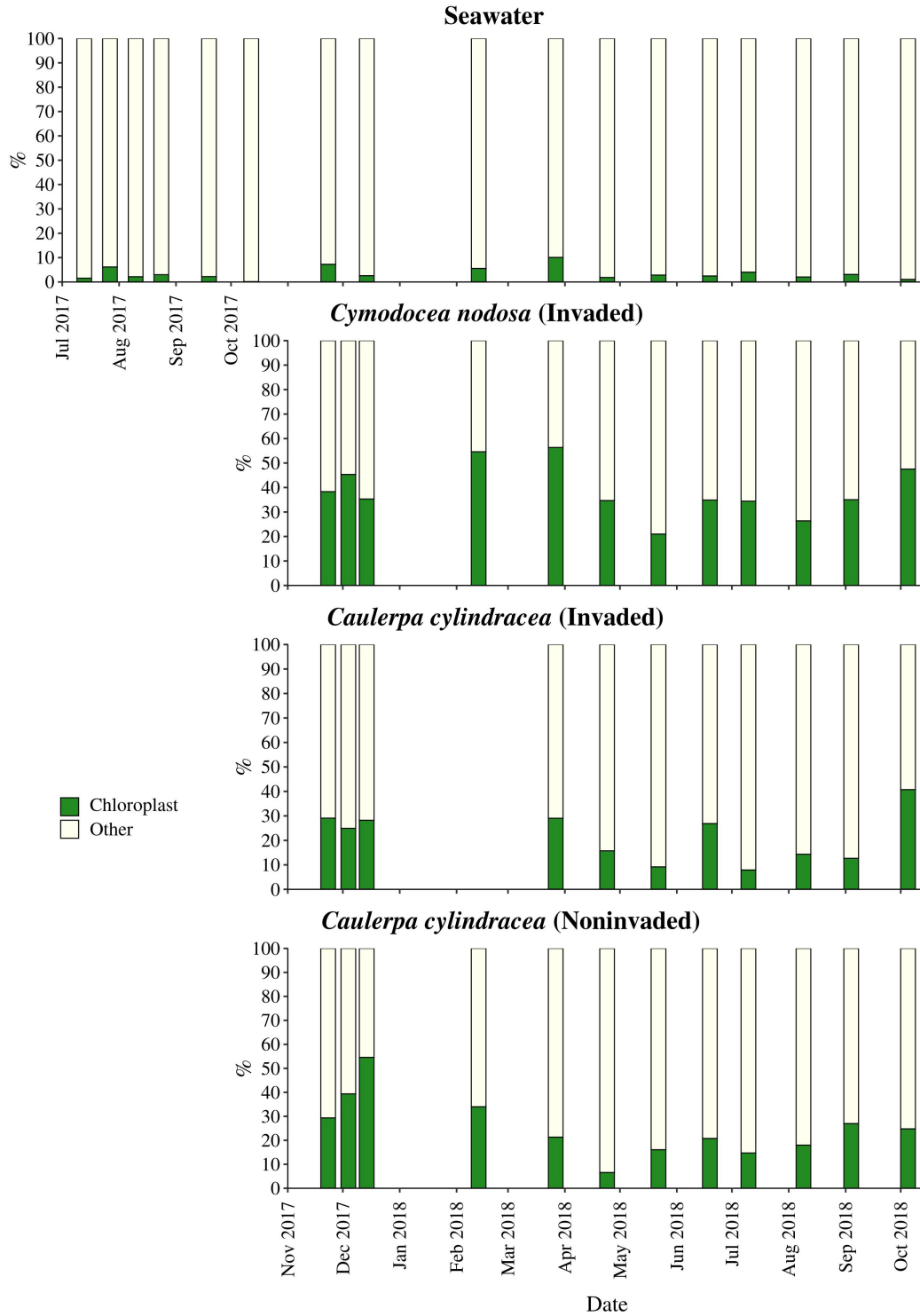


Figure S3. Relative contribution of chloroplast sequences on the surfaces of macrophytes (*Cymodocea nodosa* [Invaded] and *Caulerpa cylindracea* [Invaded and Noninvaded]) and in the surrounding seawater.

2 Supplementary Table

Table S1. Sample ID, Community Type, Sampling Date and Season, No. of Sequences and No. of OTUs of each sample.

Sample ID	Community Type	Date	Season	No. of Sequences	No. of OTUs
3	Seawater	13 July 2017	Summer	25,988	820
5	Seawater	27 July 2017	Summer	58,955	993
7	Seawater	10 August 2017	Summer	32,622	847
9	Seawater	24 August 2017	Summer	60,932	1,060
11	Seawater	19 September 2017	Summer	46,106	1,168
13	Seawater	12 October 2017	Autumn	30,941	974
15	Seawater	23 November 2017	Autumn	27,585	1,187
17	Seawater	14 December 2017	Autumn	44,598	2,267
19	Seawater	13 February 2018	Winter	44,185	1,313
21	Seawater	27 March 2018	Winter	46,305	1,565
23a	Seawater	24 April 2018	Spring	30,962	1,005
23b	Seawater	24 April 2018	Spring	38,556	1,201
25	Seawater	22 May 2018	Spring	53,876	1,787
27	Seawater	19 June 2018	Spring	77,465	1,288
29	Seawater	10 July 2018	Summer	50,799	1,452
31	Seawater	9 August 2018	Summer	39,041	1,119
33	Seawater	4 September 2018	Summer	36,195	1,206
35	Seawater	5 October 2018	Autumn	49,584	1,013
37	<i>Cymodocea nodosa</i> (Invaded)	23 November 2017	Autumn	31,236	1,554
41	<i>Cymodocea nodosa</i> (Invaded)	4 December 2017	Autumn	24,237	1,175
45	<i>Cymodocea nodosa</i> (Invaded)	14 December 2017	Autumn	32,683	1,056
49	<i>Cymodocea nodosa</i> (Invaded)	13 February 2018	Winter	9,086	1,215
52	<i>Cymodocea nodosa</i> (Invaded)	27 March 2018	Winter	17,004	1,217
55	<i>Cymodocea nodosa</i> (Invaded)	24 April 2018	Spring	42,645	2,061
58	<i>Cymodocea nodosa</i> (Invaded)	22 May 2018	Spring	21,337	1,289
61	<i>Cymodocea nodosa</i> (Invaded)	19 June 2018	Spring	31,729	2,099
64	<i>Cymodocea nodosa</i> (Invaded)	10 July 2018	Summer	35,731	1,795
67	<i>Cymodocea nodosa</i> (Invaded)	9 August 2018	Summer	26,364	2,126
70	<i>Cymodocea nodosa</i> (Invaded)	4 September 2018	Summer	23,278	1,728

Table S1. Sample ID, Community Type, Sampling Date and Season, No. of Sequences and No. of OTUs of each sample. (*continued*)

Sample ID	Community Type	Date	Season	No. of Sequences	No. of OTUs
73	<i>Cymodocea nodosa</i> (Invaded)	5 October 2018	Autumn	29,911	2,209
38	<i>Caulerpa cylindracea</i> (Invaded)	23 November 2017	Autumn	36,316	2,900
42	<i>Caulerpa cylindracea</i> (Invaded)	4 December 2017	Autumn	28,373	3,253
46	<i>Caulerpa cylindracea</i> (Invaded)	14 December 2017	Autumn	34,711	3,059
53	<i>Caulerpa cylindracea</i> (Invaded)	27 March 2018	Winter	28,690	2,488
56	<i>Caulerpa cylindracea</i> (Invaded)	24 April 2018	Spring	34,784	3,067
59	<i>Caulerpa cylindracea</i> (Invaded)	22 May 2018	Spring	23,393	2,720
62	<i>Caulerpa cylindracea</i> (Invaded)	19 June 2018	Spring	36,483	3,322
65	<i>Caulerpa cylindracea</i> (Invaded)	10 July 2018	Summer	18,487	2,196
68	<i>Caulerpa cylindracea</i> (Invaded)	9 August 2018	Summer	31,960	3,112
71	<i>Caulerpa cylindracea</i> (Invaded)	4 September 2018	Summer	29,290	3,170
74	<i>Caulerpa cylindracea</i> (Invaded)	5 October 2018	Autumn	11,700	1,710
39	<i>Caulerpa cylindracea</i> (Noninvaded)	23 November 2017	Autumn	22,081	2,437
43	<i>Caulerpa cylindracea</i> (Noninvaded)	4 December 2017	Autumn	13,665	1,894
47	<i>Caulerpa cylindracea</i> (Noninvaded)	14 December 2017	Autumn	8,407	1,465
51	<i>Caulerpa cylindracea</i> (Noninvaded)	13 February 2018	Winter	11,674	1,909
54	<i>Caulerpa cylindracea</i> (Noninvaded)	27 March 2018	Winter	39,470	3,143
57	<i>Caulerpa cylindracea</i> (Noninvaded)	24 April 2018	Spring	20,300	2,831
60	<i>Caulerpa cylindracea</i> (Noninvaded)	22 May 2018	Spring	33,042	3,312
63	<i>Caulerpa cylindracea</i> (Noninvaded)	19 June 2018	Spring	41,844	3,978
66	<i>Caulerpa cylindracea</i> (Noninvaded)	10 July 2018	Summer	27,037	2,693
69	<i>Caulerpa cylindracea</i> (Noninvaded)	9 August 2018	Summer	26,738	3,142
72	<i>Caulerpa cylindracea</i> (Noninvaded)	4 September 2018	Summer	31,868	3,267
75	<i>Caulerpa cylindracea</i> (Noninvaded)	5 October 2018	Autumn	33,066	3,099