

# Supplementary Information

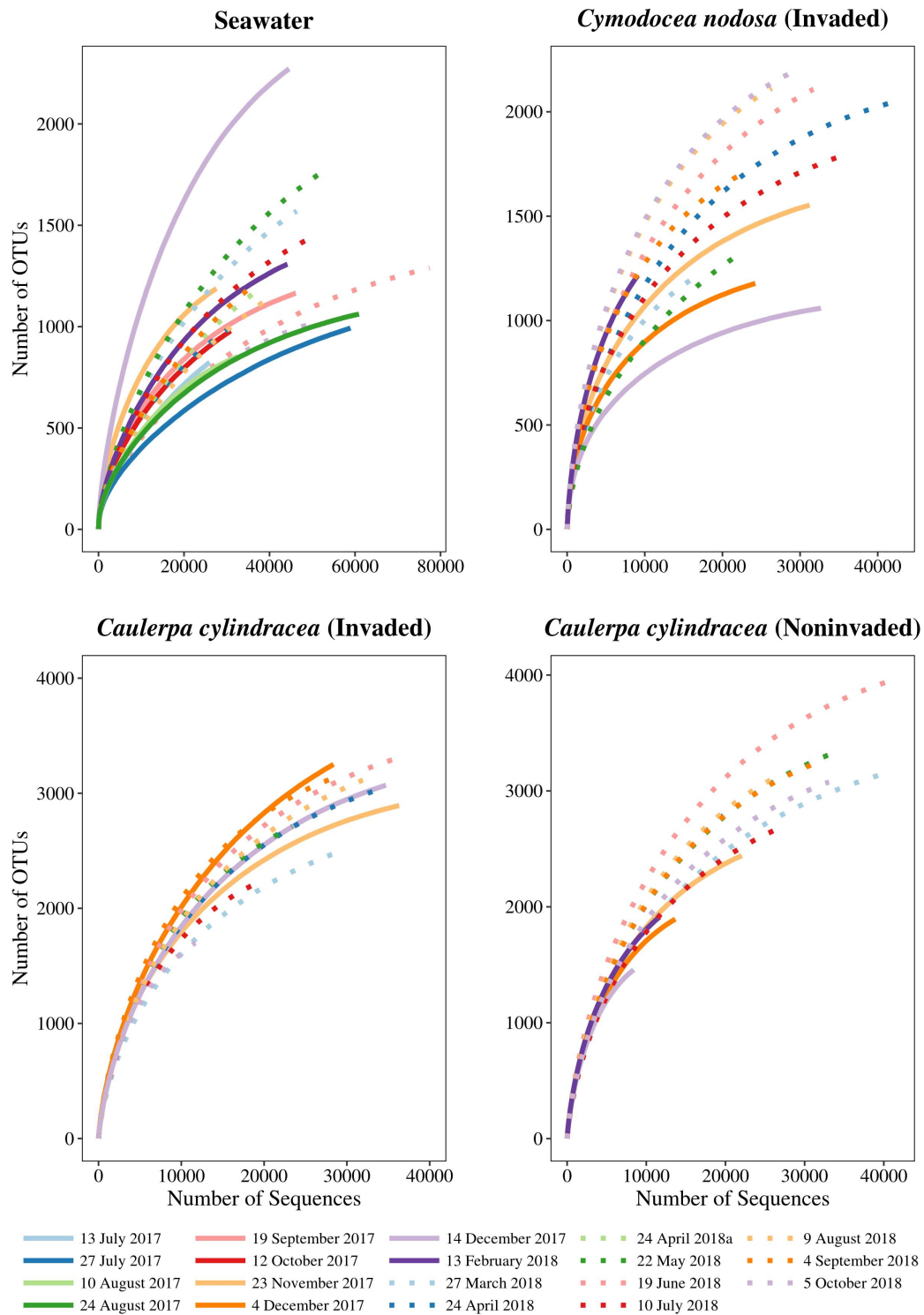
## Seasonal Dynamics of Epiphytic Microbial Communities on Marine Macrophyte Surfaces

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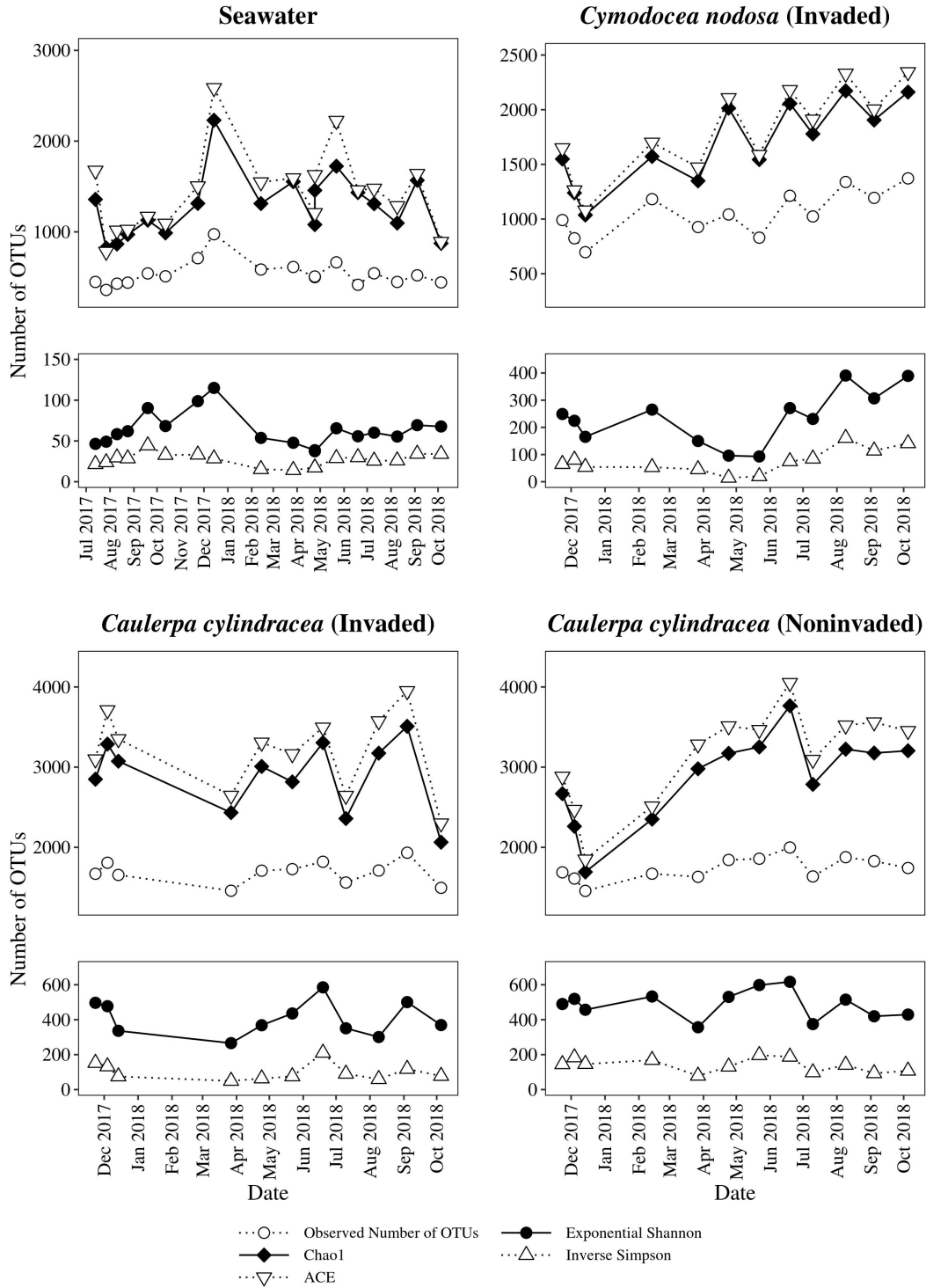
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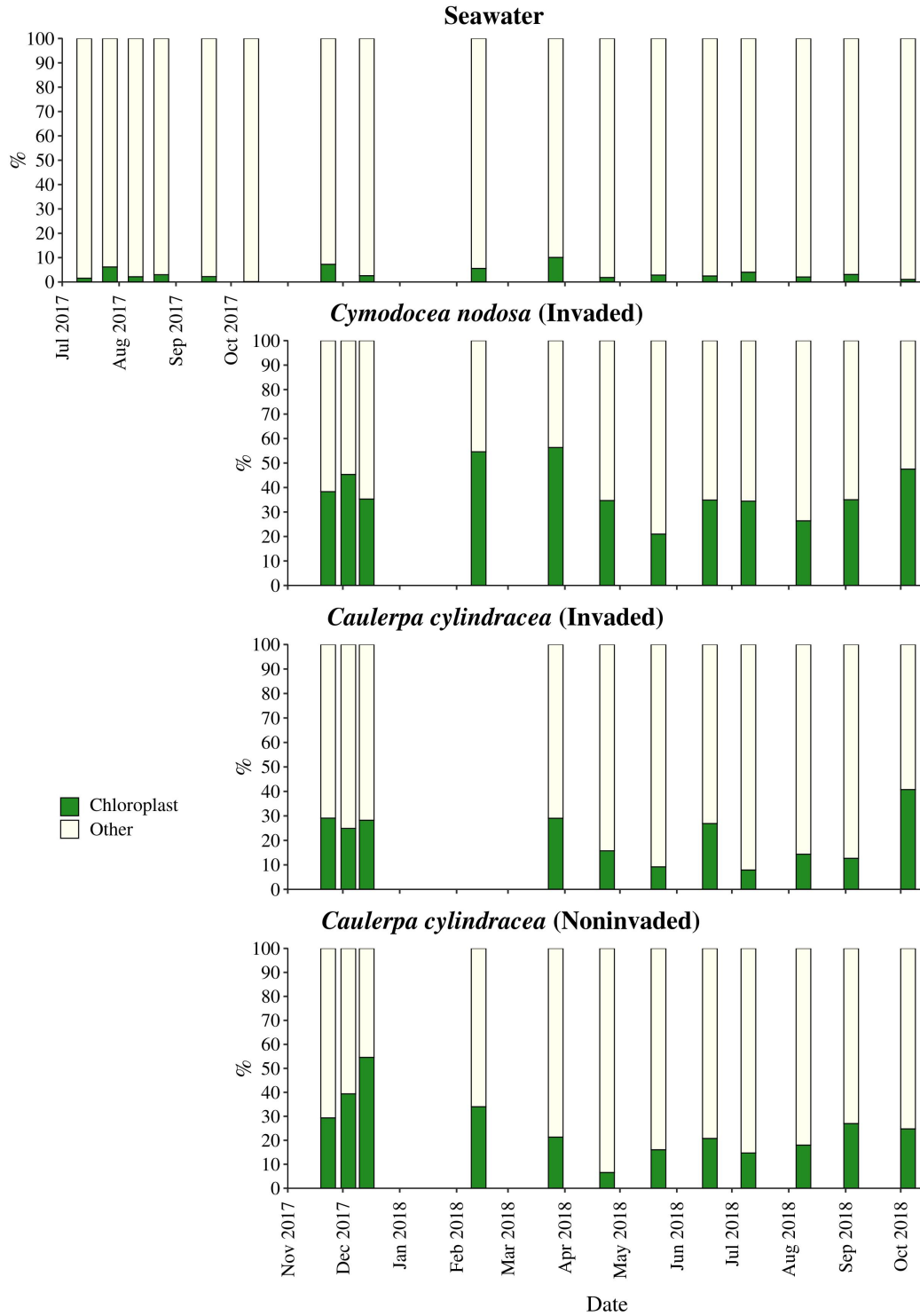
## Supplementary Figures



**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	26,014	824
5	Seawater	27 July 2017	Summer	58,953	993
7	Seawater	10 August 2017	Summer	32,620	853
9	Seawater	24 August 2017	Summer	60,934	1,062
11	Seawater	19 September 2017	Summer	46,107	1,165
13	Seawater	12 October 2017	Autumn	30,930	979
15	Seawater	23 November 2017	Autumn	27,587	1,188
17	Seawater	14 December 2017	Autumn	44,592	2,272
19	Seawater	13 February 2018	Winter	44,195	1,308
21	Seawater	27 March 2018	Winter	46,361	1,571
23a	Seawater	24 April 2018	Spring	30,966	996
23b	Seawater	24 April 2018	Spring	38,575	1,200
25	Seawater	22 May 2018	Spring	53,872	1,786
27	Seawater	19 June 2018	Spring	77,465	1,289
29	Seawater	10 July 2018	Summer	50,794	1,450
31	Seawater	9 August 2018	Summer	39,049	1,129
33	Seawater	4 September 2018	Summer	36,205	1,204
35	Seawater	5 October 2018	Autumn	49,570	1,014
37	<i>Cymodocea nodosa</i> (Invaded)	23 November 2017	Autumn	31,237	1,553
41	<i>Cymodocea nodosa</i> (Invaded)	4 December 2017	Autumn	24,238	1,178
45	<i>Cymodocea nodosa</i> (Invaded)	14 December 2017	Autumn	32,685	1,059
49	<i>Cymodocea nodosa</i> (Invaded)	13 February 2018	Winter	9,088	1,215
52	<i>Cymodocea nodosa</i> (Invaded)	27 March 2018	Winter	17,001	1,220
55	<i>Cymodocea nodosa</i> (Invaded)	24 April 2018	Spring	42,651	2,054
58	<i>Cymodocea nodosa</i> (Invaded)	22 May 2018	Spring	21,339	1,298
61	<i>Cymodocea nodosa</i> (Invaded)	19 June 2018	Spring	31,726	2,108
64	<i>Cymodocea nodosa</i> (Invaded)	10 July 2018	Summer	35,734	1,794
67	<i>Cymodocea nodosa</i> (Invaded)	9 August 2018	Summer	26,350	2,113

**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	23,276	1,716
73	<i>Cymodocea nodosa</i> (Invaded)	5 October 2018	Autumn	29,907	2,206
38	<i>Caulerpa cylindracea</i> (Invaded)	23 November 2017	Autumn	36,312	2,893
42	<i>Caulerpa cylindracea</i> (Invaded)	4 December 2017	Autumn	28,388	3,251
46	<i>Caulerpa cylindracea</i> (Invaded)	14 December 2017	Autumn	34,726	3,070
53	<i>Caulerpa cylindracea</i> (Invaded)	27 March 2018	Winter	28,688	2,482
56	<i>Caulerpa cylindracea</i> (Invaded)	24 April 2018	Spring	34,777	3,054
59	<i>Caulerpa cylindracea</i> (Invaded)	22 May 2018	Spring	23,385	2,713
62	<i>Caulerpa cylindracea</i> (Invaded)	19 June 2018	Spring	36,481	3,314
65	<i>Caulerpa cylindracea</i> (Invaded)	10 July 2018	Summer	18,485	2,196
68	<i>Caulerpa cylindracea</i> (Invaded)	9 August 2018	Summer	31,942	3,114
71	<i>Caulerpa cylindracea</i> (Invaded)	4 September 2018	Summer	29,270	3,157
74	<i>Caulerpa cylindracea</i> (Invaded)	5 October 2018	Autumn	11,693	1,701
39	<i>Caulerpa cylindracea</i> (Nonnvaded)	23 November 2017	Autumn	22,071	2,442
43	<i>Caulerpa cylindracea</i> (Nonnvaded)	4 December 2017	Autumn	13,661	1,895
47	<i>Caulerpa cylindracea</i> (Nonnvaded)	14 December 2017	Autumn	8,408	1,457
51	<i>Caulerpa cylindracea</i> (Nonnvaded)	13 February 2018	Winter	11,673	1,912
54	<i>Caulerpa cylindracea</i> (Nonnvaded)	27 March 2018	Winter	39,475	3,137
57	<i>Caulerpa cylindracea</i> (Nonnvaded)	24 April 2018	Spring	20,299	2,824
60	<i>Caulerpa cylindracea</i> (Nonnvaded)	22 May 2018	Spring	33,044	3,311
63	<i>Caulerpa cylindracea</i> (Nonnvaded)	19 June 2018	Spring	41,835	3,973
66	<i>Caulerpa cylindracea</i> (Nonnvaded)	10 July 2018	Summer	27,039	2,687
69	<i>Caulerpa cylindracea</i> (Nonnvaded)	9 August 2018	Summer	26,732	3,132
72	<i>Caulerpa cylindracea</i> (Nonnvaded)	4 September 2018	Summer	31,870	3,253
75	<i>Caulerpa cylindracea</i> (Nonnvaded)	5 October 2018	Autumn	33,080	3,077