## **Supplementary Information**

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

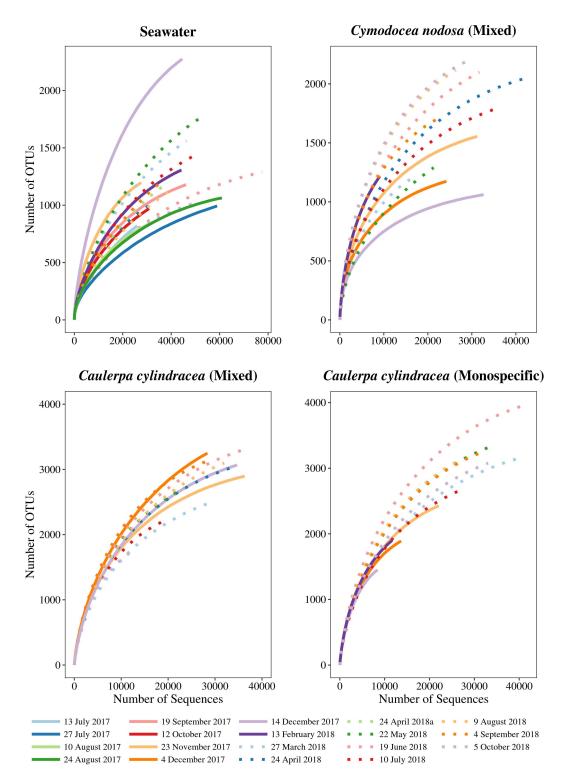


3. Department of Marine Microbiology and Biogeochemistry, Royal Netherlands Institute for Sea

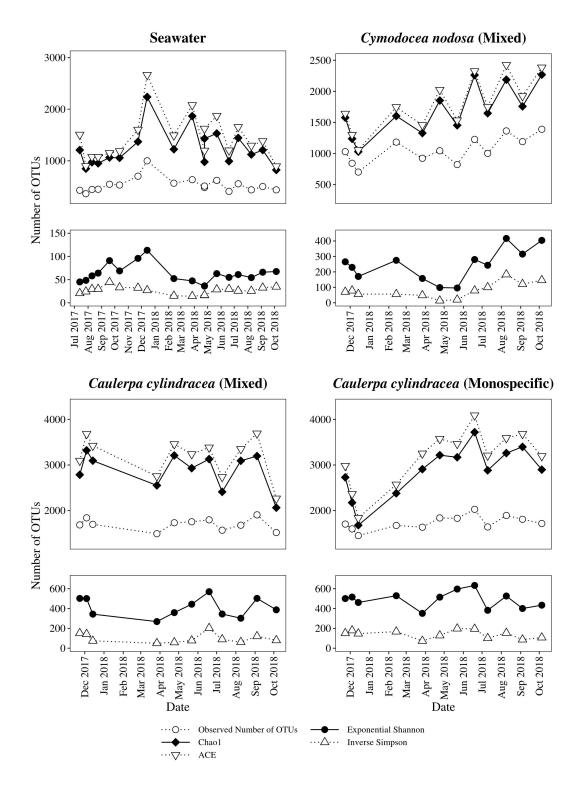
2. Department of Functional and Evolutionary Ecology, University of Vienna, Austria

Research, Utrecht University, The Netherlands

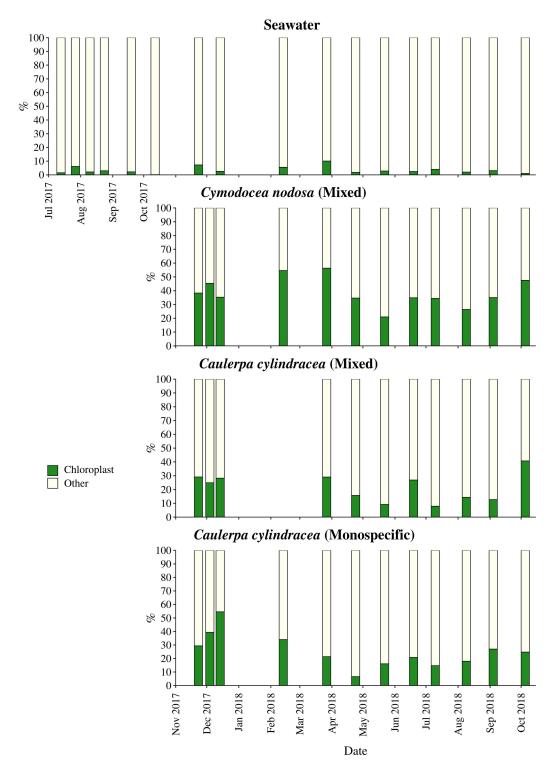
## **Supplementary Figures**



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



**Figure S3.** Relative contribution of chloroplast sequences on the surfaces of macrophytes (*C. nodosa* [Mixed] and *C. cylindracea* [Mixed and Monospecific]) 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	25,996	821
5	Seawater	27 July 2017	Summer	58,954	993
7	Seawater	10 August 2017	Summer	32,626	853
9	Seawater	24 August 2017	Summer	60,935	1,064
11	Seawater	19 September 2017	Summer	46,107	1,179
13	Seawater	12 October 2017	Autumn	30,911	971
15	Seawater	23 November 2017	Autumn	27,585	1,197
17	Seawater	14 December 2017	Autumn	44,595	2,275
19	Seawater	13 February 2018	Winter	44,207	1,306
21	Seawater	27 March 2018	Winter	46,313	1,561
23a	Seawater	24 April 2018	Spring	30,973	999
23b	Seawater	24 April 2018	Spring	38,563	1,195
25	Seawater	22 May 2018	Spring	53,877	1,787
27	Seawater	19 June 2018	Spring	77,465	1,290
29	Seawater	10 July 2018	Summer	50,793	1,445
31	Seawater	9 August 2018	Summer	39,041	1,123
33	Seawater	4 September 2018	Summer	36,206	1,206
35	Seawater	5 October 2018	Autumn	49,585	1,019
37	Cymodocea nodosa (Mixed)	23 November 2017	Autumn	31,237	1,555
41	Cymodocea nodosa (Mixed)	4 December 2017	Autumn	24,234	1,174
45	Cymodocea nodosa (Mixed)	14 December 2017	Autumn	32,683	1,061
49	Cymodocea nodosa (Mixed)	13 February 2018	Winter	9,088	1,216
52	Cymodocea nodosa (Mixed)	27 March 2018	Winter	17,005	1,216
55	Cymodocea nodosa (Mixed)	24 April 2018	Spring	42,645	2,053
58	Cymodocea nodosa (Mixed)	22 May 2018	Spring	21,337	1,290
61	Cymodocea nodosa (Mixed)	19 June 2018	Spring	31,726	2,098
64	Cymodocea nodosa (Mixed)	10 July 2018	Summer	35,729	1,793
67	Cymodocea nodosa (Mixed)	9 August 2018	Summer	26,356	2,116

**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	Cymodocea nodosa (Mixed)	4 September 2018	Summer	23,275	1,724
73	Cymodocea nodosa (Mixed)	5 October 2018	Autumn	29,907	2,211
38	Caulerpa cylindracea (Mixed)	23 November 2017	Autumn	36,309	2,896
42	Caulerpa cylindracea (Mixed)	4 December 2017	Autumn	28,383	3,249
46	Caulerpa cylindracea (Mixed)	14 December 2017	Autumn	34,718	3,067
53	Caulerpa cylindracea (Mixed)	27 March 2018	Winter	28,689	2,481
56	Caulerpa cylindracea (Mixed)	24 April 2018	Spring	34,784	3,057
59	Caulerpa cylindracea (Mixed)	22 May 2018	Spring	23,392	2,712
62	Caulerpa cylindracea (Mixed)	19 June 2018	Spring	36,488	3,311
65	Caulerpa cylindracea (Mixed)	10 July 2018	Summer	18,483	2,188
68	Caulerpa cylindracea (Mixed)	9 August 2018	Summer	31,943	3,097
71	Caulerpa cylindracea (Mixed)	4 September 2018	Summer	29,273	3,152
74	Caulerpa cylindracea (Mixed)	5 October 2018	Autumn	11,707	1,711
39	Caulerpa cylindracea (Monospecific)	23 November 2017	Autumn	22,057	2,428
43	Caulerpa cylindracea (Monospecific)	4 December 2017	Autumn	13,661	1,892
47	Caulerpa cylindracea (Monospecific)	14 December 2017	Autumn	8,409	1,451
51	Caulerpa cylindracea (Monospecific)	13 February 2018	Winter	11,673	1,899
54	Caulerpa cylindracea (Monospecific)	27 March 2018	Winter	39,471	3,142
57	Caulerpa cylindracea (Monospecific)	24 April 2018	Spring	20,304	2,836
60	Caulerpa cylindracea (Monospecific)	22 May 2018	Spring	33,035	3,314
63	Caulerpa cylindracea (Monospecific)	19 June 2018	Spring	41,841	3,976
66	Caulerpa cylindracea (Monospecific)	10 July 2018	Summer	27,038	2,669
69	Caulerpa cylindracea (Monospecific)	9 August 2018	Summer	26,734	3,123
72	Caulerpa cylindracea (Monospecific)	4 September 2018	Summer	31,874	3,248
75	Caulerpa cylindracea (Monospecific)	5 October 2018	Autumn	33,073	3,078