

Online Resources 4: Frond area covered (%) divided by taxon for all locations and all sampling dates when the taxon in question was registered. Mean $\pm$ SE, n=5, *n=4

Location	Taxon	Frond area covered (%)	
		1-2 m	8-9 m
1-58°N	12-Jun <i>M. membranacea</i>	5.2 $\pm$ 2.0	5.6 $\pm$ 2.1
	Hydrozoa	0.2 $\pm$ 0.2	
	Filamentous algae	0.1 $\pm$ 0.2	
	4-Jul <i>M. membranacea</i>	21.5 $\pm$ 8.0	42.8 $\pm$ 10.4
	Hydrozoa	0.3 $\pm$ 0.3	
	Bivalvia	2.1 $\pm$ 0.9	0.3 $\pm$ 0.3
	23-Sep <i>M. membranacea</i>	71.3 $\pm$ 11.5 *	54.4 $\pm$ 19.1 *
	Hydrozoa	4.2 $\pm$ 1.3 *	10.3 $\pm$ 5.3 *
2-60°N	18-Apr <i>M. membranacea</i>	0.2 $\pm$ 0.2	
	Filamentous algae/Diatoms	2.1 $\pm$ 0.9	5.2 $\pm$ 1.6
	3-May <i>M. membranacea</i>	0.1 $\pm$ 0.1	
	Filamentous algae/Diatoms	10.9 $\pm$ 3.4	15.4 $\pm$ 2.2
	15-May <i>M. membranacea</i>	1.0 $\pm$ 0.6	1.2 $\pm$ 0.4
	Filamentous algae/Diatoms		1.2 $\pm$ 0.7
	Filamentous algae	0.2 $\pm$ 0.2	
	14-Jun <i>M. membranacea</i>	69.7 $\pm$ 4.2	65.7 $\pm$ 6.3
3-60°N	Bivalvia	1.3 $\pm$ 0.5	0.2 $\pm$ 0.2
	Filamentous algae	1.1 $\pm$ 0.6	0.4 $\pm$ 0.2
	18-Apr Filamentous algae/Diatoms	5.6 $\pm$ 1.3	31.6 $\pm$ 4.6 *
	4-May Filamentous algae/Diatoms	10.9 $\pm$ 2.7	12.8 $\pm$ 3.3
	16-May <i>M. membranacea</i>	1.2 $\pm$ 0.4	0.4 $\pm$ 0.2
	Filamentous algae	0.2 $\pm$ 0.2	1.2 $\pm$ 0.2
	1-Jun <i>M. membranacea</i>	11.6 $\pm$ 3.2	4.9 $\pm$ 1.6
	<i>E. pilosa</i>	0.2 $\pm$ 0.2	
4-60°N	Hydrozoa		0.6 $\pm$ 0.6
	Filamentous algae	0.4 $\pm$ 0.4	1.6 $\pm$ 0.6
	12-Jun <i>M. membranacea</i>	76 $\pm$ 6.4	70.4 $\pm$ 5.6
	Bivalvia	0.7 $\pm$ 0.4	
	Filamentous algae	4.8 $\pm$ 2.2	2.1 $\pm$ 1.2
	4-May Hydrozoa	0.2 $\pm$ 0.2	10.5 $\pm$ 1.3
	4-Jun <i>M. membranacea</i>	0.4 $\pm$ 0.2	
	Hydrozoa		40.8 $\pm$ 1.1
5-61°N	Bivalvia	0.5 $\pm$ 0.2	
	13-Jun <i>M. membranacea</i>	0.4 $\pm$ 0.2	
	Hydrozoa	0.4 $\pm$ 0.2	34.6 $\pm$ 4.8
	Bivalvia	0.8 $\pm$ 0.4	
	<i>M. membranacea</i>	1.4 $\pm$ 1.2	12.8 $\pm$ 4.1
	<i>E. pilosa</i>	0.9 $\pm$ 0.6	
	Hydrozoa	0.4 $\pm$ 0.2	20.0 $\pm$ 5.0
	Bivalvia	3.9 $\pm$ 0.6	
5-61°N	Filamentous algae/Diatoms		1.0 $\pm$ 0.7
	3-May Filamentous algae/Diatoms		4.4 $\pm$ 0.5 *

6-63°N	29-May	<i>M. membranacea</i>	5.3 ± 1.3		7.4 ± 1.0
		Hydrozoa	0.2 ± 0.2		1.4 ± 1.0
	28-Jun	<i>M. membranacea</i>	61.2 ± 4.7	*	75.9 ± 3.6 *
		Bivalvia	2.6 ± 1.0	*	
	25-Apr	Filamentous algae			0.8 ± 0.3
	4-May	Filamentous algae	0.2 ± 0.2		0.4 ± 0.4
	18-May	<i>M. membranacea</i>	0.1 ± 0.1		0.2 ± 0.2
		Filamentous algae	0.3 ± 0.3		
	31-May	<i>M. membranacea</i>	0.3 ± 0.3		1.0 ± 0.3
		Filamentous algae	0.3 ± 0.3		0.2 ± 0.1
	15-Jun	<i>M. membranacea</i>	3.0 ± 1.2		5.0 ± 0.6
		Filamentous algae	0.4 ± 0.4		
	3-Jul	<i>M. membranacea</i>	38.9 ± 9.2		33.7 ± 7
		Filamentous algae	0.2 ± 0.2		0.5 ± 0.4
	22-May	<i>M. membranacea</i>	0.2 ± 0.2		
	30-May	<i>M. membranacea</i>	0.2 ± 0.2		
7-67°N	16-Jun	<i>M. membranacea</i>	0.4 ± 0.2		
	7-Jul	<i>M. membranacea</i>	0.3 ± 0.3	*	
		Hydrozoa			0.7 ± 0.4
		Filamentous algae/Diatoms			2.4 ± 0.9
	18-Aug	<i>M. membranacea</i>	2.4 ± 1.9		10.8 ± 6.8
		Hydrozoa	0.2 ± 0.2		18.3 ± 4.5
		Bivalvia	0.4 ± 0.4		
		Filamentous algae			1.3 ± 1.1
		Unidentifiable	0.8 ± 0.8		
	17-Jun	<i>E. pilosa</i>	0.2 ± 0.2		
8-67°N		Unidentifiable	0.2 ± 0.2		
	10-Jul	<i>M. membranacea</i>	3.9 ± 2.4		10.3 ± 3.3
		<i>E. pilosa</i>	4.0 ± 2.3		
		Hydrozoa	22.4 ± 5.9		5.8 ± 2.1
		Bivalvia			0.4 ± 0.2
9-69°N	14-Jun	<i>M. membranacea</i>			0.2 ± 0.2
		Filamentous algae	0.3 ± 0.2		0.4 ± 0.4
	5-Jul	Filamentous algae	2.2 ± 0.8		1.3 ± 0.4
	20-Jul	Filamentous algae	3.9 ± 1.3		1.4 ± 0.6
	9-Aug	<i>M. membranacea</i>	0.8 ± 0.8		0.3 ± 0.2
		Hydrozoa	0.8 ± 0.5		0.3 ± 0.2
		Filamentous algae	4.1 ± 0.9		4.0 ± 1.4
	5-Sep	<i>M. membranacea</i>	6.2 ± 3.7		13.9 ± 7.1
		Hydrozoa	11.1 ± 3.1		12.1 ± 6.1
		Filamentous algae	5.4 ± 2.6		0.5 ± 0.3
	28-Sep	<i>M. membranacea</i>	18.8 ± 8.1		44.0 ± 9.9
		Hydrozoa	6.1 ± 1.8		6.6 ± 1.9