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Supplement of

The distinct roles of two intertidal foraminiferal species in phytodetrital carbon and nitrogen fluxes – results from laboratory feeding experiments

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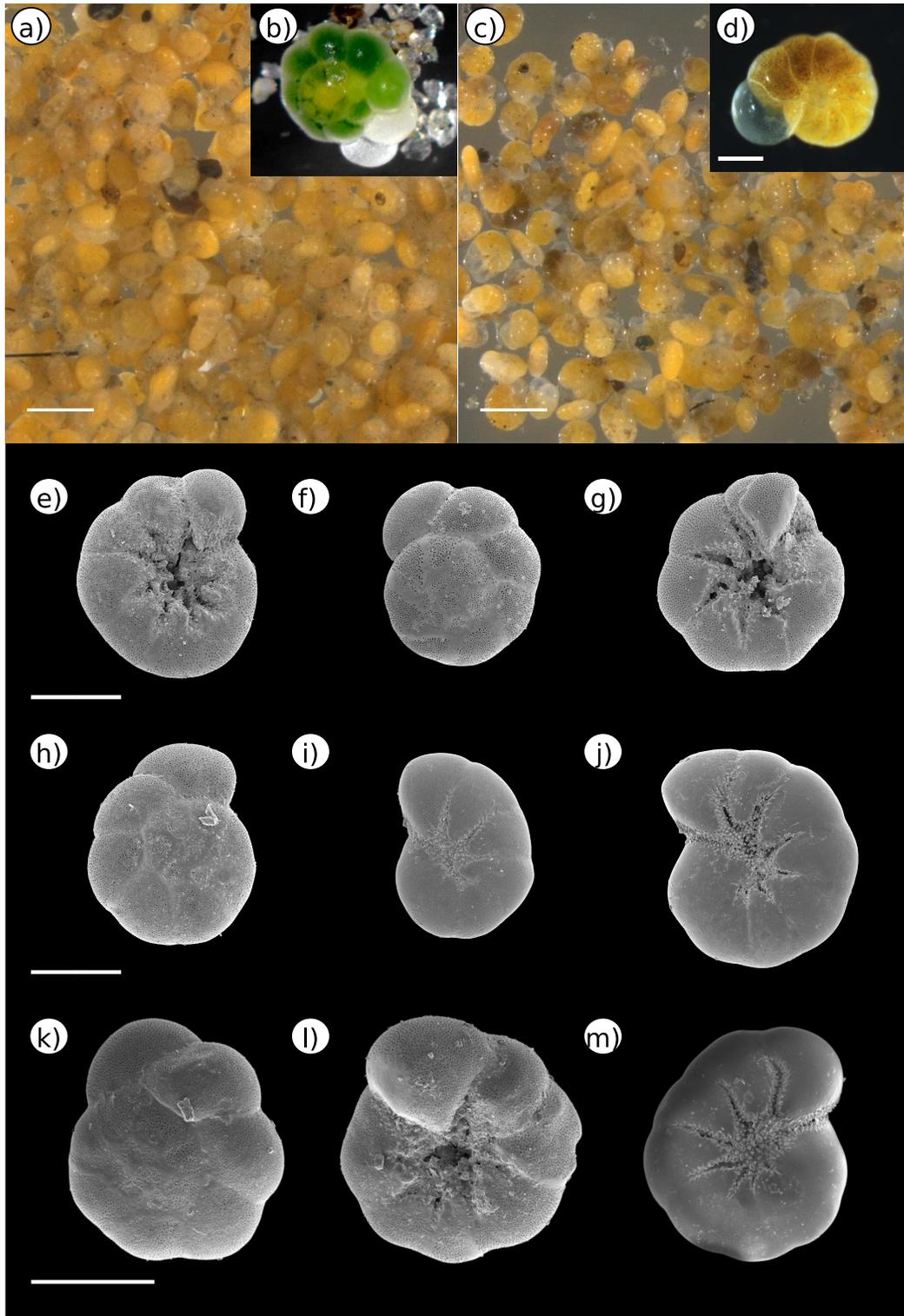
Table S1. Raw data of EA-IRMA of foraminiferal samples of Paper 4 (n.a. = natural abundance, data for 5.5 P from Paper 3).

	d 15N/14N	AT% 15N/14N	d 13C/12C	AT% 13C/12C							
<i>H. germanica</i> n.a.	12.58	0.371	-13.56	1.091							
5.7 D	45528.61	14.613	1153.00	2.351							
7.1 D	216695.58	44.464	10361.59	11.271							
5.5 P	32011.61	15.824	1627.25	4.389							

food source	T	treatment	Nr/Ind	weight [mg]	d 15N/14N	AT% 15N/14N	d 13C/12C	AT% 13C/12C	µg N	µg C
5.7 D	15°C	24 hrs fed	48	1.250	425.11	0.521	3.82	1.110	8.85	51.58
5.7 D	15°C	24 hrs fed	52	1.277	416.26	0.518	3.25	1.109	8.79	52.80
5.7 D	15°C	24 hrs fed	53	1.289	-	-	-	-	-	-
5.7 D	20°C	24 hrs fed	50	0.963	328.42	0.486	-0.42	1.105	7.75	43.83
5.7 D	20°C	24 hrs fed	53	1.284	323.13	0.484	-0.54	1.105	8.61	51.50
5.7 D	20°C	24 hrs fed	56	1.353	335.27	0.489	0.39	1.106	8.74	52.34
5.7 D	25°C	24 hrs fed	48	0.972	257.92	0.461	-2.90	1.102	8.85	49.25
5.7 D	25°C	24 hrs fed	54	1.301	291.73	0.473	-3.30	1.102	9.19	53.82
5.7 D	25°C	24 hrs fed	50	1.176	385.61	0.507	2.53	1.108	7.89	45.38
5.7 D	15°C	24 hrs starved	49	1.052	230.04	0.450	-4.70	1.101	7.58	42.71
5.7 D	15°C	24 hrs starved	61	-	-	-	-	-	-	-
5.7 D	15°C	24 hrs starved	53	1.192	211.71	0.444	-5.63	1.099	8.70	51.81
5.7 D	20°C	24 hrs starved	48	1.108	241.56	0.455	-5.04	1.100	7.44	41.11
5.7 D	20°C	24 hrs starved	45	1.099	254.99	0.459	-5.81	1.099	7.96	43.16
5.7 D	20°C	24 hrs starved	44	1.202	234.45	0.452	-6.98	1.098	7.39	42.01
5.7 D	25°C	24 hrs starved	49	1.217	337.63	0.490	-3.98	1.101	7.70	39.16
5.7 D	25°C	24 hrs starved	39	1.057	321.86	0.484	-4.15	1.101	7.18	40.77
5.7 D	25°C	24 hrs starved	43	1.235	374.66	0.503	-2.93	1.102	6.66	36.67
7.1 D	15°C	24 hrs fed	55	1.411	496.43	0.547	35.23	1.144	9.48	55.00
7.1 D	15°C	24 hrs fed	52	1.158	619.09	0.592	50.35	1.161	9.60	57.15
7.1 D	15°C	24 hrs fed	53	1.417	481.34	0.542	41.18	1.151	8.80	51.30
7.1 D	20°C	24 hrs fed	49	1.373	1004.73	0.732	94.37	1.209	9.01	50.38
7.1 D	20°C	24 hrs fed	50	0.907	1148.04	0.784	113.35	1.229	7.48	42.49
7.1 D	20°C	24 hrs fed	49	1.413	1017.81	0.737	108.25	1.224	9.49	54.69
7.1 D	25°C	24 hrs fed	51	1.243	853.93	0.677	80.93	1.194	8.90	48.30
7.1 D	25°C	24 hrs fed	48	1.195	934.13	0.706	83.27	1.197	7.60	43.78
7.1 D	25°C	24 hrs fed	53	1.243	764.11	0.645	65.33	1.177	8.23	46.30
7.1 D	15°C	24 hrs starved	50	1.128	432.69	0.524	12.73	1.120	7.28	40.52
7.1 D	15°C	24 hrs starved	46	1.166	465.91	0.536	16.65	1.124	7.27	43.98
7.1 D	15°C	24 hrs starved	59	1.251	416.39	0.518	15.44	1.123	8.80	51.35
7.1 D	20°C	24 hrs starved	49	1.160	555.79	0.569	23.69	1.132	7.88	44.51
7.1 D	20°C	24 hrs starved	48	1.209	715.38	0.627	35.48	1.144	7.74	42.10
7.1 D	20°C	24 hrs starved	50	1.280	771.33	0.647	34.82	1.144	8.32	45.05
7.1 D	25°C	24 hrs starved	53	1.335	797.43	0.657	33.54	1.142	8.08	45.90
7.1 D	25°C	24 hrs starved	48	1.144	855.89	0.678	51.27	1.162	7.87	41.64
7.1 D	25°C	24 hrs starved	54	1.230	845.19	0.674	43.79	1.154	8.00	45.05
5.5 P	15°C	24 hrs fed	50	1.469	541.16	0.564	64.97	1.177	8.27	49.43
5.5 P	15°C	24 hrs fed	51	1.359	618.81	0.592	68.13	1.180	9.73	56.12
5.5 P	15°C	24 hrs fed	51	1.398	559.13	0.570	60.14	1.171	9.53	54.99
5.5 P	20°C	24 hrs fed	52	1.172	598.98	0.585	58.26	1.169	10.87	60.65
5.5 P	20°C	24 hrs fed	52	1.363	576.87	0.577	62.15	1.174	10.05	52.00
5.5 P	20°C	24 hrs fed	51	1.117	484.73	0.543	57.47	1.168	10.69	53.97
5.5 P	25°C	24 hrs fed	47	1.012	439.52	0.527	32.98	1.142	9.38	46.52
5.5 P	25°C	24 hrs fed	49	1.114	461.60	0.535	33.99	1.143	9.49	46.77
5.5 P	25°C	24 hrs fed	49	1.127	403.72	0.514	34.21	1.143	10.93	54.56
5.5 P	15°C	24 hrs starved	48	1.246	364.87	0.500	44.50	1.154	7.43	40.48
5.5 P	15°C	24 hrs starved	52	1.531	397.28	0.511	47.21	1.157	9.18	52.64
5.5 P	15°C	24 hrs starved	53	1.508	351.37	0.495	48.17	1.158	9.13	50.88
5.5 P	20°C	24 hrs starved	51	1.098	395.17	0.511	43.51	1.153	10.00	49.00
5.5 P	20°C	24 hrs starved	54	1.019	365.61	0.500	40.76	1.150	9.27	45.91
5.5 P	20°C	24 hrs starved	55	1.322	362.58	0.499	31.43	1.140	9.90	48.50
5.5 P	25°C	24 hrs starved	54	1.046	289.12	0.472	18.97	1.126	9.62	50.96
5.5 P	25°C	24 hrs starved	39	0.952	333.26	0.488	22.21	1.130	7.14	36.69
5.5 P	25°C	24 hrs starved	57	1.327	313.36	0.481	19.12	1.127	10.97	52.50

Table S2. Raw data of GC-IRMS of water samples.

	food source	T	avg d13C/12C	avg AT% 13C/12C	ppm CO2
H ₃ PO ₄	-	-	-18.734	1.0852	83.85
H ₃ PO ₄ + SW	-	-	-1.537	1.1040	9162.91
	5.7 D	15°C	-1.135	1.1044	9398.27
	5.7 D	15°C	-1.250	1.1043	8406.95
	5.7 D	15°C	-1.156	1.1044	9883.24
	5.7 D	20°C	-0.870	1.1047	9184.63
	5.7 D	20°C	-1.162	1.1044	7778.55
	5.7 D	20°C	-0.994	1.1046	8489.17
	5.7 D	25°C	-0.963	1.1046	8829.57
	5.7 D	25°C	-1.047	1.1045	9614.38
	7.1 D	15°C	-0.887	1.1047	9472.19
	7.1 D	15°C	-0.756	1.1048	9247.92
	7.1 D	15°C	-1.060	1.1045	9794.93
	7.1 D	20°C	-0.941	1.1046	6902.25
	7.1 D	20°C	-0.762	1.1048	7843.66
	7.1 D	20°C	-0.910	1.1047	7959.04
	7.1 D	25°C	-0.306	1.1053	7818.50
	7.1 D	25°C	-0.465	1.1052	9206.42
	5.7 P	15°C	-0.861	1.1047	7659.74
	5.7 P	15°C	-0.971	1.1046	9208.57
	5.7 P	15°C	-0.655	1.1049	9055.14
	5.7 P	20°C	-0.536	1.1051	9910.84
	5.7 P	20°C	-0.538	1.1051	8473.16
	5.7 P	20°C	-0.691	1.1049	9219.05
	5.7 P	25°C	-0.351	1.1053	7268.07
	5.7 P	25°C	-0.664	1.1049	7246.05
He					0



Supplementary Figure 1. a) Light microscope image of fresh picked *A. tepida* specimens (scale bar = 500 μm). b) *A. tepida* after feeding on fresh microalgae. c) Fresh picked *H. germanica* specimens (scale bar = 500 μm). d) *H. germanica* individual (scale bar = 200 μm). e)-h) SEM images of *A. tepida* collected in 2014 at the sampling location of this study (scale bar = 200 μm). i)-j) *H. germanica* collected in 2014 at the sampling location of this study (scale bar = 200 μm). k)-l) *A. tepida* collected in 2016 at the sampling location of this study (scale bar = 200 μm). m) *H. germanica* collected in 2016 at the sampling location of this study (scale bar = 200 μm).