

Comparison of nematode assemblages associated with *Sargassum muticum* in its native range in South Korea and as an invasive species in the English Channel

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Marine Ecology Progress Series 611: 95–110 (2019)

Table S1. The list of nematode species relative abundance with *S. muticum* in British Isles and Korea: Aver: average, SE: standard error.

Species	British Isles		Korea	
	Aver.	SE	Aver.	SE
<i>Acanthonchus</i> sp. 1	0.02	±0.02	8.78	±1.44
<i>Acanthonchus</i> sp. 2	-	-	0.15	±0.15
<i>Adoncholaimus</i> sp.	0.52	±0.16	0.13	±0.10
<i>Anticoma</i> sp.	0.22	±0.13	-	-
<i>Anoplostoma</i> sp.	0.04	±0.03	0.04	±0.03
<i>Araeolaimus</i> sp.	0.07	±0.04	1.46	±0.47
<i>Axonolaimus</i> sp.	0.02	±0.02	-	-
<i>Bolbolaimus</i> sp.	0.02	±0.02	-	-
<i>Camacolaimus</i> sp.	0.19	±0.09	-	-
<i>Calyptonema</i> sp.	0.06	±0.03	-	-
<i>Chromadora</i> sp.	6.13	±2.05	0.63	±0.17
<i>Chromadorita</i> sp.	0.74	±0.42	0.15	±0.07
<i>Chromaspirinia</i> sp.	0.61	±0.27	0.09	±0.08
<i>Comesoma</i> sp.	0.43	±0.37	-	-
<i>Crenopharynx</i> sp.	1.19	±0.19	0.50	±0.18
<i>Cyatholaimus</i> sp.	2.59	±0.56	1.69	±0.37
<i>Daptonema</i> sp.	0.26	±0.09	1.06	±0.28
<i>Desmodora</i> sp.	0.11	±0.05	0.06	±0.06
<i>Desmoscolex</i> sp.	0.06	±0.06	-	-
<i>Dolicholaimus</i> sp.	0.09	±0.09	-	-
<i>Diplopeltis</i> sp.	0.04	±0.03	0.04	±0.03
<i>Ditlevsenella</i> sp.	-	-	0.81	±0.14
<i>Eleutherolaimus</i> sp.	0.04	±0.03	1.19	±0.75
<i>Enoploides</i> sp.	0.02	±0.02	-	-
<i>Enoplus</i> sp. 1	2.37	±0.49	4.70	±0.75
<i>Enoplus</i> sp. 2	-	-	0.02	±0.02
<i>Euchromadora</i> sp. 1	16.35	±3.25	6.44	±1.28
<i>Euchromadora</i> sp. 2	-	-	0.80	±0.30
<i>Eurystomina</i> sp. 1	0.46	±0.12	12.28	±1.60
<i>Eurystomina</i> sp. 2	-	-	1.13	±1.06
<i>Ethmolaimus</i> sp.	-	-	0.02	±0.02

Species	British Isles		Korea	
	Aver.	SE	Aver.	SE
<i>Filoncholaimus</i> sp.	0.11	±0.06	0.07	±0.04
<i>Fotolaimus</i> sp. 1	-	-	1.44	±0.27
<i>Fotolaimus</i> sp. 2	-	-	0.02	±0.02
<i>Halalaimus</i> sp.	0.09	±0.08	0.09	±0.04
<i>Halichoanolaimus</i> sp.	0.15	±0.08	-	-
<i>Innocuonema</i> sp.	0.13	±0.05	0.02	±0.02
<i>Laptosomatum</i> sp.	0.20	±0.09	-	-
<i>Linhomoeus</i> sp.	0.30	±0.14	0.07	±0.05
<i>Neochromadora</i> sp.	1.48	±0.39	0.37	±0.12
<i>Monoposthia</i> sp.	0.50	±0.16	1.31	±0.39
<i>Metachromadora</i> sp.	0.07	±0.04	0.35	±0.12
<i>Metalinhomoeus</i> sp.	0.20	±0.14	-	-
<i>Metadesmolaimus</i> sp.	0.02	±0.02	-	-
<i>Metoncholaimus</i> sp.	0.02	±0.02	-	-
<i>Metaparoncholaimus</i> sp.	0.06	±0.04	0.09	±0.06
<i>Monhystera</i> sp.	0.02	±0.02	-	-
<i>Odontophora</i> sp.	0.19	±0.09	-	-
<i>Onchium</i> sp.	0.48	±0.22	0.26	±0.11
<i>Oncholaimus</i> sp. 1	1.83	±0.55	4.19	±0.45
<i>Oncholaimus</i> sp. 2	-	-	0.76	±0.27
<i>Oxystomina</i> sp.	-	-	0.02	±0.02
<i>Paracanthochus</i> sp.	0.04	±0.03	-	-
<i>Paracyatholaimus</i> sp.	0.39	±0.18	-	-
<i>Paramonohystera</i> sp.	-	-	0.02	±0.02
<i>Paraeurystomina</i> sp.	-	-	0.04	±0.04
<i>Paraticoma</i> sp.	-	-	0.02	±0.02
<i>Pandolaimus</i> sp.	0.02	±0.02	-	-
<i>Parodontophora</i> sp.	0.06	±0.06	-	-
<i>Pelagonema</i> sp.	0.02	±0.02	-	-
<i>Phanoderma</i> sp. 1	0.31	±0.11	0.26	±0.15
<i>Phanoderma</i> sp. 2	-	-	0.02	±0.02
<i>Phaenoncholaimus</i> sp.	1.33	±0.51	1.20	±0.29
<i>Polygastrophora</i> sp.	0.28	±0.09	0.57	±0.21
<i>Ptycholaimellus</i> sp.	0.11	±0.07	-	-
<i>Pontonema</i> sp. 1	0.57	±0.11	19.06	±2.69
<i>Pontonema</i> sp. 2	-	-	8.33	±1.28
<i>Pontonema</i> sp. 3	-	-	0.69	±0.61
<i>Pontonema</i> sp. 4	-	-	1.24	±0.40
<i>Pontonema</i> sp. 5	-	-	0.11	±0.09
<i>Promonhystera</i> sp.	0.02	±0.02	-	-
<i>Ptycholaimellus</i> sp.	0.17	±0.10	0.07	±0.06
<i>Pseudolella</i> sp.	0.02	±0.02	-	-
<i>Retrotheristus</i> sp.	0.85	±0.36	0.20	±0.13
<i>Sabatieria</i> sp.	2.06	±1.00	-	-
<i>Southerniella</i> sp.	0.02	±0.02	-	-
<i>Subsphaerolaimus</i> sp.	0.33	±0.17	0.06	±0.03
<i>Symplocostoma</i> sp.	1.15	±0.33	0.09	±0.05

Species	British Isles		Korea	
	Aver.	SE	Aver.	SE
<i>Synonchiella</i> sp.	0.04	±0.03	-	-
<i>Spirinia</i> sp.	0.89	±0.35	0.04	±0.03
<i>Spiliphera</i> sp.	0.13	±0.08	0.04	±0.03
<i>Spilophorella</i> sp.	0.09	±0.05	0.44	±0.41
<i>Synonchium</i> sp.	0.02	±0.02	-	-
<i>Terschellingia</i> sp.	-	-	0.02	±0.02
<i>Theristus</i> sp. 1	0.19	±0.11	12.28	±2.17
<i>Theristus</i> sp. 2	-	-	0.04	±0.03
<i>Trileptium</i> sp.	0.22	±0.16	-	-
<i>Thoracostoma</i> sp.	0.02	±0.02	-	-
<i>Thoracostomopsis</i> sp.	-	-	0.09	±0.06
<i>Viscosia</i> sp.	2.30	±0.66	0.59	±0.15

Table S2. Biological traits matrix, 1A = selective deposit feeders, 1B = non-selective deposit feeders, 2A = epigrowth feeders, 2B = predators (Wieser 1953). S/r = short/round, cla = clavate-conicocylindrical, co = conical, long = long. C-p score = coloniser-persister score (Bongers et al. 1991).

Species	Buccal morphology				Tail shape				Life history (C-P score)				
	1A	1B	2A	2B	s/r	cla	co	long	1	2	3	4	5
<i>Acanthonchus</i> sp. 1				1			1				1		
<i>Acanthonchus</i> sp. 2				1			1				1		
<i>Adoncholaimus</i> sp.			1			1						1	
<i>Anticomma</i> sp.		1				1				1			
<i>Anoplostoma</i> sp.		1				1				1			
<i>Araeolaimus</i> sp.	1					1					1		
<i>Axonolaimus</i> sp.		1				1				1			
<i>Bolbolaimus</i> sp.				1		1					1		
<i>Camacolaimus</i> sp.			1				1				1		
<i>Calyptonema</i> sp.				1				1					1
<i>Chromadora</i> sp.			1			1					1		
<i>Chromadorita</i> sp.			1				1				1		
<i>Chromaspirinia</i> sp.			1				1				1		
<i>Comesoma</i> sp.		1				1				1			
<i>Crenopharynx</i> sp.	1							1					1
<i>Cyatholaimus</i> sp.			1				1				1		
<i>Daptonema</i> sp.		1				1				1			
<i>Desmodora</i> sp.			1			1				1			
<i>Desmoscolex</i> sp.	1				1								1
<i>Dolicholaimus</i> sp.		1				1				1			
<i>Diplopeltis</i> sp.	1					1					1		
<i>Ditlevsenella</i> sp.				1			1						1
<i>Eleutherolaimus</i> sp.		1					1			1			
<i>Enoploides</i> sp.				1	1								1
<i>Enoplus</i> sp. 1				1	1								1
<i>Enoplus</i> sp. 2				1	1								1
<i>Euchromadora</i> sp. 1			1				1				1		

Species	Buccal morphology				s/r	Tail shape			Life history (C-P score)				
	1A	1B	2A	2B		cla	co	long	1	2	3	4	5
<i>Euchromadora</i> sp. 2			1				1				1		
<i>Eurystomina</i> sp. 1				1		1							1
<i>Eurystomina</i> sp. 2				1		1							1
<i>Ethmolaimus</i> sp.			1				1				1		
<i>Filoncholaimus</i> sp.		1						1					1
<i>Fotolaimus</i> sp. 1				1		1							1
<i>Fotolaimus</i> sp. 2				1		1							1
<i>Halalaimus</i> sp.	1							1					1
<i>Halichoanolaimus</i> sp.				1				1			1		
<i>Innocuonema</i> sp.			1				1				1		
<i>Laptosomatum</i> sp.	1				1								1
<i>Linhomoeus</i> sp.			1				1			1			
<i>Neochromadora</i> sp.			1				1			1			
<i>Monoposthia</i> sp.			1				1				1		
<i>Metachromadora</i> sp.			1				1			1			
<i>Metalinhomoeus</i> sp.		1						1		1			
<i>Metadesmolaimus</i> sp.		1				1				1			
<i>Metoncholaimus</i> sp.				1		1							1
<i>Metaparoncholaimus</i> sp.				1		1							1
<i>Monhystera</i> sp.		1				1			1				
<i>Odontophora</i> sp.		1			1						1		
<i>Onchium</i> sp.			1				1						1
<i>Oncholaimus</i> sp. 1				1		1							1
<i>Oncholaimus</i> sp. 2				1		1							1
<i>Oxystomina</i> sp.	1					1							1
<i>Paracanthonchus</i> sp.			1					1		1			
<i>Paracyatholaimus</i> sp.			1				1			1			
<i>Paramonohystera</i> sp.		1				1				1			
<i>Paraeurystomina</i> sp.				1			1						1
<i>Paraticoma</i> sp.				1	1								1
<i>Pandolaimus</i> sp.	1					1							1
<i>Parodontophora</i> sp.		1				1				1			
<i>Pelagonema</i> sp.				1		1							1
<i>Phanoderma</i> sp. 1			1		1								1
<i>Phanoderma</i> sp. 2			1			1							1
<i>Phaenoncholaimus</i> sp.		1			1								1
<i>Polygastrophora</i> sp.				1		1							1
<i>Ptycholaimellus</i> sp. 1			1				1				1		
<i>Pontonema</i> sp. 1				1	1								1
<i>Pontonema</i> sp. 2				1			1						1
<i>Pontonema</i> sp. 3				1	1								1
<i>Pontonema</i> sp. 4				1	1								1
<i>Pontonema</i> sp. 5				1	1								1
<i>Promonhystera</i> sp.		1				1				1			
<i>Ptycholaimellus</i> sp. 2			1				1				1		
<i>Pseudolella</i> sp.		1				1				1			
<i>Retrotheristus</i> sp.		1				1				1			

Species	Buccal morphology				s/r	Tail shape			Life history (C-P score)					
	1A	1B	2A	2B		cla	co	long	1	2	3	4	5	
<i>Sabatieria</i> sp.		1					1			1				
<i>Southerniella</i> sp.		1			1							1		
<i>Subsphaerolaimus</i> sp.		1					1					1		
<i>Symplocostoma</i> sp.				1			1						1	
<i>Synonchiella</i> sp.				1			1					1		
<i>Spirinia</i> sp.			1					1				1		
<i>Spiliphera</i> sp.			1						1			1		
<i>Spilophorella</i> sp.			1					1				1		
<i>Synonchium</i> sp.				1	1							1		
<i>Terschellingia</i> sp.	1								1			1		
<i>Theristus</i> sp. 1		1					1					1		
<i>Theristus</i> sp. 2		1					1					1		
<i>Trileptium</i> sp.				1			1					1		
<i>Thoracostoma</i> sp.	1				1							1		
<i>Thoracostomopsis</i> sp.				1			1					1		
<i>Viscosia</i> sp.				1			1						1	