

# Food web structures of subtidal benthic muddy habitats: evidence of microphytobenthos contribution supported by an engineer species

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Marine Ecology Progress Series 500: 25–41 (2014)

## Supplement. Additional data

Table S1. Mean ( $\pm$ SD) carbon and nitrogen isotopic compositions ( $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ ) of all species sampled in winter for both *Amphiura* and *Haploops* habitats. TG = trophic group, n = number of samples, TP = trophic position calculated after Post (2002) using *Haploops nira* as a trophic baseline. Information on trophic groups gathered from the Biological Traits Information Catalogue developed by the Marine Life Information Network, as C-O = carnivores and/or omnivores, G = grazers or micro-grazers, SDF = surface deposit feeders, SF = suspension feeders, SSDF = subsurface deposit feeders. Species names were checked using the World Register of Marine Species database ([www.marinespecies.org](http://www.marinespecies.org)) on November 28, 2013

	<i>Amphiura</i> habitat				<i>Haploops</i> habitat				
	TG	n	TP	$\delta^{15}\text{N}$	$\delta^{13}\text{C}$	n	TP	$\delta^{15}\text{N}$	$\delta^{13}\text{C}$
<b>Cnidarians</b>									
<i>Cerianthus lloydii</i>	C-O					1	3.5	12.13	-17.43
<i>Alcyonium digitatum</i>	C-O	1	2.85	9.92	-16.62				
<b>Sipunculids</b>									
<i>Aspidosiphon muelleri</i>	SDF	3	2.88	10.02 $\pm$ 0.04	-16.93 $\pm$ 0.13	2	3.07	10.67 $\pm$ 0.13	-17.48 $\pm$ 0.28
<b>Nemerteans</b>									
<i>Nemertina</i> sp.A	C-O					2	3.2	11.12 $\pm$ 0.01	-19.19 $\pm$ 0.55
<i>Nemertina</i> sp.B	C-O					3	3.07	10.67 $\pm$ 0.39	-19.28 $\pm$ 0.59
<b>Polychaetes</b>									
<i>Aphrodita aculeata</i>	C-O	3	3.66	12.66 $\pm$ 0.19	-14.75 $\pm$ 0.27	1	3.69	12.77	-15.62
<i>Alentia gelatinosa</i>	C-O					1	3.64	12.61	-17.51
<i>Harmothoe antilopes</i>	C-O	3	3.36	11.66 $\pm$ 0.90	-16.88 $\pm$ 0.83	1	3.57	12.37	-17.28
<i>Malmgreniella andreapolis</i>	C-O					1	3.73	12.92	-17.12
<i>Malmgreniella</i> sp.A	C-O	3	3.75	12.97 $\pm$ 0.37	-16.52 $\pm$ 0.04				
<i>Malmgreniella</i> sp.B	C-O	1	3.4	11.78	-17.9				
<i>Glycera alba</i>	C-O	1	3.85	13.3	-17.42				
<i>Glycera unicornis</i>	C-O	1	4.18	14.43	-16.38				

<i>Goniada maculata</i>	C-O	3	3.8	13.14 ± 0.91	-17.92 ± 0.20				
<i>Phyllodoce lineata</i>	C-O					1	3.56	12.32	-17.14
<i>Labioleanira yhleni</i>	C-O	3	3.58	12.41 ± 0.20	-16.94 ± 0.46				
<i>Sthenelais boa</i>	C-O					1	3.44	11.92	-18.01
<i>Sthenelais</i> sp.	C-O	2	3.42	11.84 ± 0.21	-17.34 ± 0.58				
<i>Pholoe inornata</i>	C-O	2	3.36	11.64 ± 0.10	-16.62 ± 0.62				
<i>Nephtys hombergii</i>	C-O	3	3.52	12.18 ± 0.44					
<i>Nereidae</i> sp.A	C-O					1	2.58	8.98	-21.24
<i>Nereis</i> sp.A	C-O	2	2.67	9.31 ± 0.50	-24.71 ± 1.31				
<i>Nereis</i> sp.B	C-O	1	3.56	12.31	-17.86	2	3.22	11.17 ± 1.88	-20.27 ± 3.37
<i>Hilbigneris gracilis</i>	C-O	2	3.4	11.78 ± 0.65	-18.39 ± 0.27	3	3.22	11.16 ± 0.87	-18.75 ± 0.85
<i>Lumbrineridae</i> sp. A	C-O	1	3.22	11.16	-17.08				
<i>Schistomeringos rudolphii</i>	C-O					1	3.35	11.61	-20.48
<i>Eunice vittata</i>	C-O	1	3.71	12.84	-19.62	2	3.35	11.60 ± 1.00	-17.54 ± 0.13
<i>Nematonereis unicornis</i>	C-O	1	3.48	12.05	-17.98	3	3.45	11.94 ± 0.72	-18.36 ± 0.52
<i>Arabella iricolor</i>	C-O	2	3.79	13.10 ± 0.05	-17.81 ± 0.21				
<i>Hyalinoecia bilineata</i>	C-O	3	3.09	10.74 ± 0.15	-18.69 ± 0.41				
<i>Sternaspis scutata</i>	SDF	1	2.62	9.14	-15.67				
<i>Notomastus latericeus</i>	SSDF	3	3.32	11.50 ± 0.19	-17.52 ± 0.07				
<i>Dasybranchus caducus</i>	SSDF					2	2.67	9.30 ± 0.26	-17.81 ± 0.30
<i>Euclymene oerstedii</i>	SSDF	2	2.88	10.01 ± 0.34	-18.87 ± 0.03				
<i>Euclymene robusta</i>	SSDF	1	3.74	12.95	-17.33				
<i>Praxillura longissima</i>	SSDF	1	3.2	11.12	-19.39				
<i>Macroclymene santandarensis</i>	SSDF	4	3.31	11.48 ± 0.82	-17.99 ± 1.07	2	3.29	11.40 ± 0.07	-18.42 ± 0.14
<i>Maldane glebifex</i>	SSDF	3	3.44	11.90 ± 0.44	-16.15 ± 1.38	6	3.23	11.22 ± 0.14	-16.74 ± 0.42
<i>Metasychis gotoi</i>	SSDF					1	3.22	11.17	-17.89
<i>Piromis eruca</i>	SDF					3	2.75	9.57 ± 0.21	-15.03 ± 0.46
<i>Pherusa plumosa</i>	SDF	1	2.85	9.91	-17.96				
<i>Ampharete finmarchica</i>	SDF	1	2.04	7.17	-20.18				
<i>Terebellides stroemii</i>	SDF	3	2.77	9.65 ± 0.32	-19.09 ± 0.86	3	3.05	10.59 ± 0.38	-18.65 ± 0.06
<i>Pista cristata</i>	SDF					2	3.32	11.50 ± 0.32	-18.67 ± 0.89
<i>Pectinaria (Amphictene) auricoma</i>	SSDF	3	2.72	9.48 ± 0.50	-17.82 ± 0.57				
<i>Sabellidae</i> sp.	SF	1	2.41	8.41	-20.87				
<i>Euchone rubrocincta</i>	SF					1	2.63	9.15	-20.07
<i>Orbinia cuvierii</i>	SSDF	1	3.68	12.73	-17.73	2	3.64	12.58 ± 0.25	-18.00 ± 0.13
<i>Owenia fusiformis</i>	SDF	3	2.76	9.61 ± 0.46	-17.50 ± 0.17				
<b>Gatropods</b>									
<i>Scaphander lignarius</i>	SSDF	1	3.32	11.52	-15.28				
<i>Crepidula fornicata</i>	SF					3	2.19	7.66 ± 0.21	-17.59 ± 1.01
<i>Nassarius reticulatus</i>	C-O	4	3.18	11.04 ± 2.64	-15.91 ± 0.67				
<i>Buccinum undatum</i>	C-O					3	3.52	12.20 ± 0.28	-14.86 ± 0.14
<i>Gibbula cineraria</i>	G	3	2.75	9.56 ± 0.10	-17.25 ± 1.52				
<i>Philine aperta</i>	C-O	3	2.76	9.61 ± 0.07	-16.53 ± 0.31				
<i>Aplysia punctata</i>	G	3	2.75	9.57 ± 0.16	-29.41 ± 1.62	1	2.53	8.83	-30.81
<b>Bivalves</b>									
<i>Nucula nitidosa</i>	SF	3	2.28	7.97 ± 0.22	-17.29 ± 0.43	2	2.4	8.39 ± 0.02	-17.54 ± 0.08
<i>Thyasira flexuosa</i>	SF	3	-0.15	-0.30 ± 0.46	-26.40 ± 0.29				
<i>Kurtiella bidentata</i>	SF	1	2.4	8.37	-17.69				
<i>Polititapes virgineus</i>	SF					9	2.39	8.34 ± 0.77	-17.38 ± 0.97
<i>Chamelea striatula</i>	SF	2	2.38	8.32 ± 0.05	-18.46 ± 0.83				
<i>Dosinia lupinus</i>	SF	3	2.49	8.69 ± 0.12	-17.09 ± 0.22				
<i>Spisula subtruncata</i>	SF	1	2.1	7.35	-18.69				

<i>Gari fervensis</i>	SF	2	2.09	7.33 ± 0.07	-18.71 ± 0.40				
<i>Solecurtus scopula</i>	SF					1	3.14	10.91	-17.45
<i>Abra alba</i>	SF	3	2.51	8.74 ± 0.25	-18.65 ± 0.22				
<i>Phaxas pellucidus</i>	SF	3	2.13	7.46 ± 0.04	-19.21 ± 0.47				
<i>Aequipecten opercularis</i>	SF	3	2.37	8.27 ± 0.26	-17.06 ± 0.17	2	2.29	8.02 ± 0.20	-17.83 ± 0.86
<i>Pecten maximus</i>	SF	1	2.92	10.16	-17.51	7	2.61	9.09 ± 0.24	-15.63 ± 0.43
<i>Palliolum tigerinum</i>	SF					1	2.32	8.12	-19.47
<b>Crustaceans</b>									
<i>Natatolana neglecta</i>	C-O	1	2.98	10.37	-18.36	1	3.18	11.02	-16.73
<i>Ampelisca spinipes</i>	SF	1	2.14	7.5	-20.74				
<i>Haploops nirae</i>	SF					3	2	7.02 ± 0.29	-19.79 ± 0.24
<i>Palaemon serratus</i>	C-O	3	3.87	13.38 ± 0.71	-17.76 ± 0.99	3	3.8	13.16 ± 0.32	-17.21 ± 0.18
<i>Anapagurus hyndmanni</i>	SF	2	2.35	8.22 ± 0.51	-21.42 ± 0.34	1	2.31	8.07	-19.07
<i>Pagurus bernhardus</i>	C-O					3	3.43	11.90 ± 0.19	-17.25 ± 0.51
<i>Pagurus cuanensis</i>	SF					2	2.52	8.80 ± 0.01	-18.93 ± 0.72
<i>Pagurus prideaux</i>	C-O	3	3.57	12.35 ± 0.40	-16.11 ± 0.28	3	3.61	12.49 ± 0.14	-16.42 ± 0.64
<i>Inachus dorsettensis</i>	C-O	3	2.9	10.09 ± 1.08	-17.50 ± 0.73	3	3.55	12.31 ± 0.73	-16.79 ± 0.24
<i>Macropodia rostrata</i>	C-O	1	3.1	10.76	-19.34				
<i>Maja squinado</i>	C-O					1	3.84	13.28	-16.04
<i>Liocarcinus pusillus</i>	C-O	3	3.25	11.26 ± 0.62	-18.27 ± 1.07	1	2.84	9.88	-18.55
<i>Liocarcinus depurator</i>	C-O					3	3.6	12.48 ± 0.66	-16.62 ± 0.14
<i>Pisidia longicornis</i>	SF	1	2.36	8.23	-19.56	1	2.22	7.78	-19.89
<i>Xantho pilipes</i>	C-O					2	3.27	11.33 ± 0.05	-16.66 ± 0.01
<i>Upogebia deltaura</i>	SF	1	2.54	8.85	-19.78				
<b>Echinoderms</b>									
<i>Astropecten irregularis</i>	C-O	3	3.16	10.96 ± 0.30	-16.94 ± 0.62				
<i>Asterias rubens</i>	C-O	3	3.25	11.28 ± 0.16	-15.39 ± 0.95	3	3.17	11.00 ± 0.10	-15.25 ± 0.02
<i>Marthasterias glacialis</i>	C-O	1	3.01	10.46	-17.05	2	3.15	10.94 ± 0.37	-16.11 ± 0.11
<i>Ophiura ophiura</i>	C-O	2	3.31	11.24 ± 1.36	-16.49 ± 1.56				
<i>Ophiura albida</i>	C-O	1	2.88	10.03	-17.58	3	2.9	10.07 ± 0.55	-17.89 ± 0.15
<i>Amphiura filiformis</i>	SF	3	2.87	10.00 ± 0.17	-17.40 ± 0.40				
<i>Ophiothrix fragilis</i>	SF	3	2.47	8.63 ± 0.49	-18.28 ± 0.29				
<i>Psammechinus miliaris</i>	G	3	2.62	9.13 ± 0.89	-21.63 ± 0.87				
<i>Thyone fusus</i>	SF	3	2.4	8.40 ± 0.88	-16.57 ± 0.26				
<i>Oostergrenia digitata</i>	SDF	1	3.25	11.27	-19.71	1	3.36	11.65	-16.86

Table S2. Mean ( $\pm$ SD) carbon and nitrogen isotopic compositions ( $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ ) of all species sampled in summer for both *Amphiura* and *Haploops* habitats. TG = trophic group, n = number of samples, TP = trophic position calculated after Post (2002) using *Haploops nirae* as a trophic baseline. Information on trophic groups gathered from the Biological Traits Information Catalogue developed by the Marine Life Information Network, as C-O = carnivores and/or omnivores, G = grazers or micro-grazers, SDF = surface deposit feeders, SF = suspension feeders, SSDF = subsurface deposit feeders. Species names were checked using the World Register of Marine Species database on November 28, 2013

	<i>Amphiura</i> habitat					<i>Haploops</i> habitat			
	TG	n	TP	$\delta^{15}\text{N}$	$\delta^{13}\text{C}$	n	TP	$\delta^{15}\text{N}$	$\delta^{13}\text{C}$
<b>Cnidarians</b>									
<i>Adamsia carciniopados</i>	C-O					2	3.27	11.84 $\pm$ 0.41	-17.45 $\pm$ 0.42
<i>Epizoanthus incrustatus</i>	C-O	1	2.61	9.6	-17.14				
<b>Sipunculids</b>									
<i>Aspidosiphon muelleri</i>	SDF	3	2.87	10.48 $\pm$ 0.50	-16.56 $\pm$ 0.20	3	2.87	10.50 $\pm$ 0.73	-16.69 $\pm$ 0.41
<i>Golfingia vulgaris</i>	SDF					2	3.08	11.22 $\pm$ 0.59	-17.18 $\pm$ 0.44
<b>Nemertean</b>									
<i>Nemertina</i> sp.A	C-O					2	3.02	11.00 $\pm$ 0.34	-17.54 $\pm$ 0.18
<b>Polychaetes</b>									
<i>Aphrodita aculeata</i>	C-O					1		13.03	-15.56
<i>Glycera alba</i>	C-O	3	3.49	12.60 $\pm$ 0.45	-17.82 $\pm$ 0.40				
<i>Glycera unicornis</i>	C-O					1	4.27	15.24	-16.54
<i>Glycinde nordmanni</i>	C-O	1	3.64	13.1	-17.95				
<i>Labioleanira yhleni</i>	C-O	1	3.12	11.34	-17.46				
<i>Sthenelais boa</i>	C-O					3	3.62	13.05 $\pm$ 0.43	-16.77 $\pm$ 0.16
<i>Sthenelais limicola</i>	C-O	1	2.82	10.33	-17.72				
<i>Nephtys assimilis</i>	C-O	1	3.33	12.06	-16.46				
<i>Nephtys hombergii</i>	C-O	3	3.25	11.78 $\pm$ 0.43	-16.60 $\pm$ 0.26				
<i>Hilbigneris gracilis</i>	C-O	1	3.19	11.59	-17.2				
<i>Scoletoma fragilis</i>	C-O	3	2.89	10.54 $\pm$ 0.36	-17.41 $\pm$ 0.05	1	3.4	12.3	-17.24
<i>Schistomeringos rudolphii</i>	C-O					1	3.35	12.11	-18.73
<i>Eunice vittata</i>	C-O					3	3.05	11.11 $\pm$ 0.10	-17.61 $\pm$ 0.06
<i>Nematonereis unicornis</i>	C-O					3	3.5	12.62 $\pm$ 0.35	-17.35 $\pm$ 0.55
<i>Arabella iricolor</i>	C-O					3	3.69	13.29 $\pm$ 0.64	-17.05 $\pm$ 0.22
<i>Sternaspis scutata</i>	SDF					1	2.46	9.09	-19.43
<i>Notomastus latericeus</i>	SSDF	2	3.24	11.76 $\pm$ 0.31	-16.37 $\pm$ 0.13				
<i>Dasybranchus caducus</i>	SSDF					1	2.58	9.51	-18.08
<i>Euclymene oerstedii</i>	SSDF	1	2.93	10.69	-18				
<i>Euclymene lombricoides</i>	SSDF					1	3.15	11.46	-17.4
<i>Praxillura longissima</i>	SSDF	1	3.08	11.19	-18.33				
<i>Macroclymene santandarensis</i>	SSDF					3	3.31	11.97 $\pm$ 0.18	-18.18 $\pm$ 0.18
<i>Maldane glebifex</i>	SSDF	3	3.23	11.72 $\pm$ 0.19	-16.21 $\pm$ 0.64	3	3.22	11.67 $\pm$ 0.71	-17.82 $\pm$ 0.12
<i>Metasychis gotoi</i>	SSDF					1	3.23	11.7	-17.31
<i>Piromis eruca</i>	SDF					2	2.76	10.13 $\pm$ 0.56	-17.53 $\pm$ 0.14
<i>Pherusa plumosa</i>	SDF					1	2.37	8.79	-17.98
<i>Lysippe labiata</i>	SDF					1	2.6	9.57	-19.97
<i>Terebellides stroemii</i>	SDF					3	2.88	10.54 $\pm$ 0.19	-18.95 $\pm$ 0.27
<i>Lanice conchilega</i>	SF	1	2.24	8.36	-18.67				
<i>Pista cristata</i>	SDF					2	3.24	11.74 $\pm$ 0.06	-18.56 $\pm$ 0.20
<i>Amaeana trilobata</i>	SDF	1	3.12	11.33	-18.28				
<i>Lagis koreni</i>	SSDF	2	2.71	9.94 $\pm$ 0.21	-17.81 $\pm$ 0.83				

<i>Sabellidae</i> sp.	SF	1	2.46	9.11	-18.92	1	2.04	7.67	-19.25
<i>Euchone rubrocincta</i>	SF	1	2.47	9.14	-19.25				
<i>Demonax brachychona</i>	SF	1	2.25	8.4	-20.14				
<i>Sabellaria spinulosa</i>	SF	1	2.08	7.8	-18.58	2	2.44	9.02	-19.36
<i>Hydroides elegans</i>	SF	1	2.23	8.31	-19.07				
<i>Orbinia cuvierii</i>	SSDF	1	3.55	12.8	-16.85	3	3.57	12.86 ± 0.81	-18.01 ± 0.29
<i>Owenia fusiformis</i>	SDF	3	2.27	8.44 ± 1.04	-18.38 ± 0.59				
<i>Aricidea (Aricidea) pseudoarticulata</i>	SDF					1	3.34	12.08	-18.55
<i>Scalibregma inflatum</i>	SDF	2	2.26	8.43 ± 0.60	-18.24 ± 0.24				
<b>Gastropods</b>									
<i>Scaphander lignarius</i>	SSDF	1	3.02	10.99	-15.83				
<i>Crepidula fornicata</i>	SF	3	2.02	7.60 ± 0.08	-18.48 ± 0.07	3	2.19	8.17 ± 0.14	-17.12 ± 0.48
<i>Euspira pulchella</i>	C-O	2	2.65	9.74 ± 0.29	-16.28 ± 0.07	1	2.53	9.32	-16.81
<i>Buccinum undatum</i>	C-O	1	3.15	11.45	-16	2	3.22	11.68 ± 1.02	-15.47 ± 0.96
<i>Turritella communis</i>	SF	2	1.96	7.41 ± 0.70	-17.30 ± 0.47	1	2.01	7.57	-16.57
<i>Gibbula</i> sp.	G	3	2.55	9.40 ± 0.98	-17.27 ± 0.68				
<i>Trivia monacha</i>	C-O	1	2.75	10.08	-18.49				
<i>Philine aperta</i>	C-O	1	2.65	9.74	-13.98				
<i>Geitodoris planata</i>	G	2	3.04	11.06 ± 0.33	-11.83 ± 0.90	1	2.93	10.71	-11.64
<b>Bivalves</b>									
<i>Nucula nitidosa</i>	SF	4	2.16	8.06 ± 0.35	-17.29 ± 0.12	2	2.14	8.02 ± 0.04	-16.91 ± 0.05
<i>Corbula gibba</i>	SF					1	1.97	7.43	-19.19
<i>Polititapes virgineus</i>	SF					6	2.38	8.84 ± 0.26	-16.83 ± 0.33
<i>Timoclea ovata</i>	SF					1	1.67	6.4	-17.98
<i>Chamelea striatula</i>	SF	1	2.15	8.03	-17.38				
<i>Dosinia lupinus</i>	SF	3	2.32	8.60 ± 0.46	-17.43 ± 0.62	1	2.23	8.32	-18.38
<i>Abra alba</i>	SF	3	2.23	8.33 ± 0.62	-17.61 ± 0.20				
<i>Phaxas pellucidus</i>	SF	2	1.82	6.93 ± 0.54	-18.35 ± 0.01				
<i>Lyonsia norwegica</i>	SF					1	2.02	7.6	-18.87
<i>Aequipecten opercularis</i>	SF	9	2.2	8.20 ± 0.36	-17.36 ± 0.46	9	2.22	8.27 ± 0.58	-17.36 ± 0.30
<i>Pecten maximus</i>	SF					7	2.53	9.33 ± 0.37	-16.26 ± 0.30
<i>Anomia ephippium</i>	SF					1	1.85	7.02	-18.42
<i>Antalis novemcostata</i>	SDF	1	3.04	11.08	-17.69				
<b>Crustaceans</b>									
<i>Ampelisca brevicornis</i>	SF	1	2	7.54	-18.11				
<i>Ampelisca spinifer</i>	SF	1	2.27	8.44	-19.61				
<i>Ampelisca spinipes</i>	SF	2	1.9	7.19 ± 0.64	-20.91 ± 0.66	3	1.9	7.20 ± 1.33	-20.17 ± 0.45
<i>Ampelisca typica</i>	SF					1	2.01	7.55	-20.43
<i>Haploops nirae</i>	SF					3	2	7.53 ± 0.15	-19.74 ± 0.67
<i>Pandalina brevirostris</i>	C-O					3	3.41	12.34 ± 0.59	-17.33 ± 0.19
<i>Pontophilus spinosus</i>	C-O					2	3.69	13.29 ± 0.20	-16.28 ± 0.57
<i>Paguroidea</i> spp.	SF					1	2.29	8.53	-20.22
<i>Pagurus prideaux</i>	C-O					3	3.32	12.02 ± 0.25	-16.03 ± 0.11
<i>Galathea intermedia</i>	SF					1	2.34	8.7	-20.71
<i>Inachus dorsettensis</i>	C-O					3	3.32	12.03 ± 0.45	-16.47 ± 0.12
<i>Macropodia rostrata</i>	C-O					1	2.46	9.09	-19.19
<i>Atelecyclus rotundatus</i>	C-O					1	3.12	11.33	-16.55
<i>Liocarcinus navigator</i>	C-O					1	3.41	12.33	-16.59
<i>Liocarcinus pusillus</i>	C-O					3	3.35	12.13 ± 0.09	-17.00 ± 0.20
<i>Xantho pilipes</i>	C-O					3	3.18	11.56 ± 0.19	-16.93 ± 0.26

<b>Echinoderms</b>									
<i>Luidia ciliaris</i>	C-O	1	3.74	13.45	-14.41	1	4.19	14.99	-14.26
<i>Marthasterias glacialis</i>	C-O	2	3.59	12.92 ± 0.65	-14.79 ± 0.31	3	3.49	12.61 ± 0.35	-14.54 ± 0.03
<i>Amphiura filiformis</i>	SF	3	2.44	9.01 ± 0.54	-17.95 ± 0.33				
<i>Psammechinus miliaris</i>	G	1	2.68	9.86	-17.88				
<i>Thyone fusus</i>	SF	3	2.6	9.58 ± 0.75	-16.17 ± 0.86				
<i>Leptopentacta elongata</i>	SSDF	2	3.18	11.54 ± 0.26	-15.16 ± 0.29				
<b>Sponges</b>									
<i>Sycon ciliatum</i>	SF					1	1.97	7.43	-19.21
<i>Suberites suberia</i>	SF					1	2.25	8.39	-19.91

#### LITERATURE CITED

Post DM (2002) Using stable isotopes to estimate trophic position: models, methods, and assumptions. Ecology 83:703–718