

Supplementary material for:

## **Experimental bottom trawling finds resilience in large-bodied infauna but vulnerability for epifauna and juveniles in the Frisian Front**

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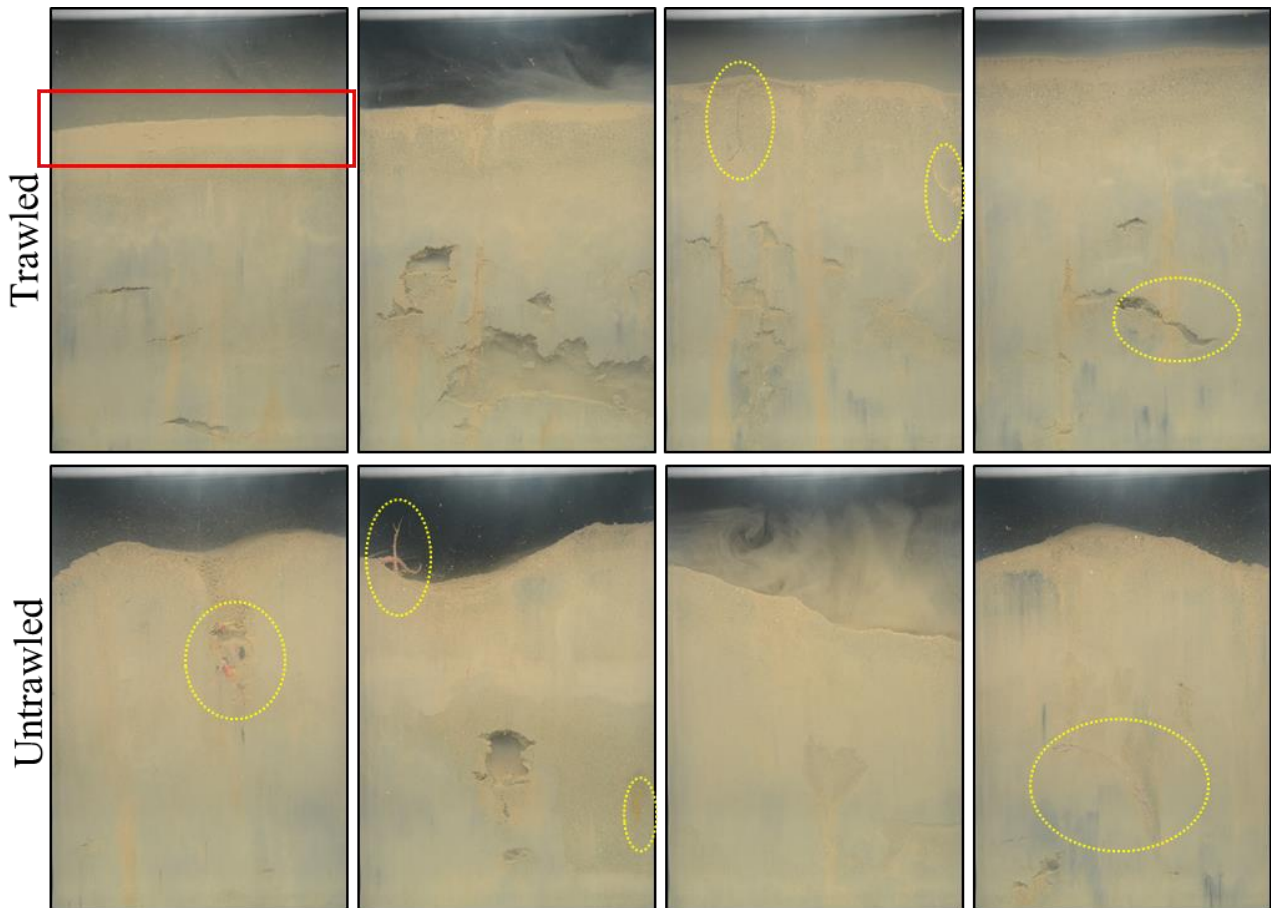
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**Fig. S1.** An assortment of sediment profile images (SPI) displaying beam trawled sediment (top) compared with images from an untrawled reference area (bottom). The red box highlights the characteristic fine sediment layer found in beam trawled images. Infauna from the images are circled in yellow.

**Table S1**  
Biological traits and modalities

Biological Trait	Modality
<i>Burrowing Depth</i>	0 cm
	0 – 5 cm
	5 – 15 cm
	> 15 cm
<i>Burrowing Depth</i>	< 1 cm
	1 – 3 cm
	3 – 10 cm
	10 – 20 cm
	> 20 cm
<i>Body Mass</i>	Very small
	Small
	Intermediate
	Large
<i>Fragility</i>	Very Large
	Fragile
	Intermediate
<i>Motility</i>	Robust
	Sessile
	Tuberculous
	Crawler
	Crawler – Swimmer

**Table S2**

Trawled vs. untrawled comparisons of epibenthos density (individuals m<sup>-2</sup>), burrow hole density (holes m<sup>-2</sup>), burrow hole size (cm<sup>2</sup>), and burrow hole coverage (%) from video transects covering beam trawled sediments (27 h and 50 h after disturbance).

Parameter	Time step	Disturbance	Observer 1	Observer 2	<i>n</i>	p-value	
Epibenthos Density	~ 27 h	<i>Trawled</i>	0.70 ± 1.79	0.51 ± 0.9	41	<b>&lt;0.0001</b>	
		<i>Untrawled</i>	2.28 ± 4.42	2.46 ± 5.1	288		
	~ 50 h	<i>Trawled</i>	1.91 ± 2.95	1.59 ± 3.2	293		
		<i>Untrawled</i>	3.80 ± 6.44	2.19 ± 4.2	95		<b>&lt;0.0001</b>
Hole Density	~ 27 h	<i>Trawled</i>	112.2 ± 36.3	62.6 ± 27.6	41	<b>&lt;0.0001</b>	
		<i>Untrawled</i>	112.3 ± 40.1	80.4 ± 31.3	288		
	~ 50 h	<i>Trawled</i>	128.8 ± 37.8	109.2 ± 52.6	293		0.68
		<i>Untrawled</i>	131.0 ± 31.6	133.2 ± 202.4	95		
Hole Size	~ 27 h	<i>Trawled</i>	0.0006 ± 0.0003	0.0006 ± 0.0003	41	<b>0.002</b>	
		<i>Untrawled</i>	0.0009 ± 0.0004	0.0007 ± 0.0004	288		
	~ 50 h	<i>Trawled</i>	0.0008 ± 0.0004	0.0008 ± 0.0004	293		0.67
		<i>Untrawled</i>	0.0005 ± 0.0004	0.0006 ± 0.0003	95		
Hole coverage	~ 27 h	<i>Trawled</i>	0.07 ± 0.03	0.04 ± 0.02	41	<b>&lt;0.0001</b>	
		<i>Untrawled</i>	0.10 ± 0.04	0.05 ± 0.04	288		
	~ 50 h	<i>Trawled</i>	0.10 ± 0.04	0.05 ± 0.04	293		<b>0.005</b>
		<i>Untrawled</i>	0.10 ± 0.04	0.08 ± 0.12	95		

**Table S3**

Mean individual densities of juvenile *Abra alba* and Ophiuroidea per sample per m<sup>2</sup>

Station	Shallow cores	
	<i>Abra juv.</i>	<i>Ophiuroidea juv.</i>
P0	3683.0	1126.6
P1	993.5	241.4
T0	2161.1	1462.4
T1	942.4	357.5
T2	844.9	649.9
T3	0	433.3
Station	Deep cores	
	<i>Abra juv.</i>	<i>Ophiuroidea juv.</i>
P0	2700.6	382.2
P1	396.3	127.4
Ref	3543.3	509.5
T1	2809.6	990.8

**Table S4.**

Top five highest and lowest ordination scores for taxa for Axis 1 (x-axis) and Axis 2 (y-axis) from the Between-Class Analysis (BCA) from shallow subcore and deep boxcores. Scores correspond to the location of the different treatments (T0, T1, T2, T3, P0, P1, Ref) in the BCA ordination plots.

<b>Shallow cores</b>			
Taxa with <i>lowest</i> ordination scores	<b>Axis 1</b>	Taxa with <i>highest</i> ordination scores	<b>Axis 1</b>
<i>Abra alba</i> juveniles*	-0.58	<i>Callianassa subterranea</i>	0.15
Ophiuroidea juveniles*	-0.35	<i>Gyge branchialis</i>	0.06
<i>Amphiura filiformis</i>	-0.27	Phoronida	0.05
Spatangoida juveniles*	-0.26	Bopyroidea	0.04
<i>Lumbrineris cingulata</i>	-0.25	<i>Ione thoracica</i>	0.04
Taxa with <i>lowest</i> ordination scores	<b>Axis 2</b>	Taxa with <i>highest</i> ordination scores	<b>Axis 2</b>
<i>Amphiura filiformis</i>	-0.31	Spatangoida juveniles*	0.47
<i>Lumbrineris cingulata</i>	-0.25	Ophiuroidea juveniles*	0.43
<i>Nucula nitidosa</i>	-0.21	Phoronida	0.29
<i>Oxydromus flexuosus</i>	-0.18	<i>Tellimya ferruginosa</i>	0.13
<i>Pholoe baltica</i>	-0.16	<i>Corystes cassivelaunus</i> juveniles*	0.12
<b>Deep cores</b>			
Taxa with <i>lowest</i> ordination scores	<b>Axis 1</b>	Taxa with <i>highest</i> ordination scores	<b>Axis 1</b>
<i>Abra alba</i> juveniles*	-0.37	<i>Mediomastus fragilis</i>	0.35
<i>Diplocirrus glaucus</i>	-0.37	Atherospio	0.21
Ophiuroidea juveniles*	-0.33	<i>Parexogone hebes</i>	0.16
<i>Eudorella truncatula</i>	-0.257	<i>Nucula nitidosa</i>	0.13
Echinoida juveniles*	-0.25	Prionospio	0.13
Taxa with <i>lowest</i> ordination scores	<b>Axis 2</b>	Taxa with <i>highest</i> ordination scores	<b>Axis 2</b>
Prionospio	-0.27	<i>Scalibregma inflatum</i>	0.36
<i>Phaxas pellucidus</i>	-0.22	<i>Diplocirrus glaucus</i>	0.26
<i>Podarkeopsis capensis</i>	-0.18	<i>Abra alba</i> juveniles*	0.22
<i>Eudorella truncatula</i>	-0.17	Nemertea	0.21
Aphroditidae	-0.15	Polynoidae juveniles*	0.21

\* indicates juvenile taxa

**Table S5. (1 of 11)**

Macrofauna individual densities found in shallow cores.

Station	<i>Abra juv.</i>	<i>Abra alba</i>	<i>Abra nitida</i>	<i>Abyssoninoe hibernica</i>	<i>Actinopterygii (eggs)</i>	<i>Ampelisca brevicornis</i>	<i>Amphiura filiformis</i>	<i>Aphroditidae juv.</i>
P0	31	2	0	0	0	0	5	0
P0	12	0	0	1	0	0	4	0
P0	127	7	0	1	0	0	9	0
P1	11	2	0	0	0	0	14	1
P1	16	1	0	0	0	0	4	0
P1	7	2	0	1	0	0	5	0
P1	24	1	0	0	0	0	13	0
P1	21	0	0	1	0	1	7	0
P1	9	1	0	2	1	0	7	0
P1	19	0	0	0	0	0	5	0
T0	64	1	0	0	2	0	3	0
T0	42	0	0	0	0	0	19	0
T0	9	1	0	0	0	0	18	0
T0	18	1	0	1	0	0	4	1
T1	14	0	1	0	0	0	22	0
T1	19	1	0	0	2	0	12	0
T1	15	1	0	2	0	0	1	1
T1	10	0	0	0	0	0	0	0
T2	14	0	0	0	0	0	5	0
T2	12	0	0	0	1	0	0	0
T3	0	0	0	0	0	0	6	0
T3	0	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0	0

**Table S5. continued (2 of 11)**

Station	<i>Argissa hamatipes</i>	<i>Atherospio guillei</i>	<i>Bopyroidea</i>	<i>Callianassa subterranea</i>	<i>Chamelea striatula juv.</i>	<i>Corbula gibba</i>	<i>Corystes cassivelaunus juv.</i>
P0	0	0	0	0	0	2	0
P0	0	0	0	0	0	2	0
P0	2	0	0	0	0	1	0
P1	0	0	0	0	0	1	0
P1	0	0	0	0	0	4	0
P1	0	0	0	2	0	0	0
P1	0	0	0	0	0	3	0
P1	0	0	0	2	0	0	0
P1	0	0	0	0	0	0	0
P1	0	0	0	0	1	3	0
T0	0	0	0	0	0	6	0
T0	0	0	0	0	0	6	0
T0	1	0	0	1	0	6	1
T0	0	0	0	1	0	3	0
T1	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0
T1	0	1	0	0	0	0	0
T1	0	0	0	1	0	1	0
T2	0	0	0	1	0	2	2
T2	0	0	0	0	0	2	1
T3	0	0	0	2	0	0	0
T3	0	0	0	2	0	0	0
T3	0	0	1	2	0	0	0

**Table S5. continued (3 of 11)**

Station	<i>Cylichna cylindracea</i>	<i>Decapoda zoea</i>	<i>Devonia perrieri</i>	<i>Diplocirrus glaucus</i>	<i>Dorvillea</i>	<i>Echinocardium cordatum</i>	<i>Eudorella truncatula</i>
P0	0	0	0	4	0	2	0
P0	0	0	0	1	0	0	1
P0	1	0	0	3	0	0	0
P1	0	0	0	0	0	1	0
P1	0	0	0	0	0	0	1
P1	0	0	0	0	1	0	0
P1	0	0	0	1	0	0	0
P1	0	0	1	3	0	0	0
P1	0	0	0	4	0	0	0
P1	0	0	0	1	0	1	0
T0	0	1	0	3	0	0	2
T0	0	1	0	2	0	0	0
T0	0	0	0	0	0	0	0
T0	0	0	0	1	0	1	0
T1	0	0	0	2	0	2	0
T1	0	0	0	1	0	0	1
T1	0	0	0	3	0	1	0
T1	0	0	0	0	0	0	0
T2	0	0	0	0	0	0	0
T2	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0
T3	0	0	0	1	0	0	0
T3	0	0	0	0	0	0	0

**Table S5. continued (4 of 11)**

Station	<i>Glycera juv.</i>	<i>Glycera alba</i>	<i>Glycera unicornis</i>	<i>Glycinde nordmanni</i>	<i>Goniada juv.</i>	<i>Goniada maculata</i>	<i>Gyge branchialis</i>
P0	0	0	0	0	0	0	0
P0	0	0	0	0	0	0	0
P0	0	0	0	0	0	0	0
P1	0	0	0	0	0	0	0
P1	1	0	0	0	0	0	0
P1	0	0	0	1	0	0	0
P1	0	0	0	0	0	0	0
P1	0	0	0	0	0	0	0
P1	1	0	0	0	0	0	0
P1	0	0	0	1	0	1	0
T0	0	0	0	0	0	0	0
T0	0	1	1	0	0	0	0
T0	0	1	0	0	0	0	0
T0	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0
T2	0	0	0	0	0	0	0
T2	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	2
T3	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0

**Table S5. continued (5 of 11)**

Station	<i>Hyala vitrea</i>	<i>Ione thoracica</i>	<i>Kurtiella bidentata</i>	<i>Leptosynapta inhaerens</i>	<i>Lumbrineridae juv.</i>	<i>Lumbrineris cingulata</i>	<i>Malmgrenia andreapolis</i>
P0	0	0	7	0	0	4	0
P0	0	0	5	0	0	1	0
P0	0	0	4	0	0	3	0
P1	0	0	17	0	0	3	0
P1	0	0	6	0	1	4	0
P1	0	0	3	0	0	0	0
P1	0	0	11	0	0	6	0
P1	0	0	2	1	0	6	1
P1	0	0	1	0	2	5	0
P1	0	0	1	0	1	3	0
T0	0	0	6	0	0	4	0
T0	0	0	13	0	1	7	0
T0	0	0	22	0	1	4	0
T0	0	0	1	0	0	7	0
T1	0	0	2	0	0	2	0
T1	0	0	15	0	2	2	0
T1	0	0	6	0	3	2	0
T1	0	0	1	0	0	0	0
T2	1	0	1	0	0	0	0
T2	0	0	1	0	0	1	0
T3	0	0	2	0	0	1	0
T3	0	1	0	0	0	0	0
T3	0	0	3	0	0	0	0

**Table S5. continued (6 of 11)**

Station	<i>Malmgrenia ljunmani</i>	<i>Mediomastus fragilis</i>	<i>Nemertea</i>	<i>Nephtyidae juv.</i>	<i>Nephtys hombergii</i>	<i>Nephtys incisa</i>	<i>Nereididae juv.</i>
P0	0	1	0	0	0	0	0
P0	0	0	2	0	1	0	1
P0	0	2	0	0	1	0	0
P1	0	0	1	0	1	0	0
P1	0	0	2	1	0	0	0
P1	0	2	0	0	0	0	0
P1	0	1	1	0	0	0	0
P1	0	0	0	0	0	0	0
P1	0	0	0	0	0	0	0
P1	0	0	0	0	0	0	0
P1	0	0	0	0	0	0	0
T0	1	0	0	0	1	0	0
T0	0	0	5	0	0	0	0
T0	0	1	1	0	0	0	0
T0	0	1	1	1	0	0	0
T1	0	0	1	1	0	0	0
T1	0	0	0	0	1	0	0
T1	0	0	0	0	0	1	0
T1	0	0	1	0	1	0	0
T2	0	0	0	0	0	0	0
T2	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0
T3	0	0	0	0	0	0	0



**Table S5. continued (7 of 11)**

Station	<i>Notomastus</i>	<i>Nucula juv.</i>	<i>Nucula nitidosa</i>	<i>Ophiura albida</i>	<i>Ophiuroidea juv.</i>	<i>Oxydromus flexuosus</i>	<i>Parexogone hebes</i>
P0	0	2	0	0	27	3	0
P0	0	4	0	1	8	1	0
P0	0	3	0	1	17	0	0
P1	0	3	1	0	1	2	1
P1	0	2	1	0	2	1	0
P1	0	3	1	0	6	0	0
P1	0	4	0	0	2	0	0
P1	2	2	1	1	3	1	0
P1	1	3	1	1	6	1	0
P1	2	2	1	0	6	0	0
T0	0	2	0	0	27	0	1
T0	0	5	0	0	24	0	0
T0	0	3	3	0	19	0	0
T0	1	3	1	0	20	0	0
T1	0	2	0	0	7	0	0
T1	1	2	0	0	6	0	0
T1	0	2	1	0	8	0	0
T1	0	2	0	0	1	0	0
T2	0	2	0	1	10	0	0
T2	1	2	0	1	10	1	0
T3	0	2	0	0	20	0	0
T3	0	2	0	0	0	0	0
T3	0	2	0	0	0	0	0

**Table S5. continued (8 of 11)**

Station	<i>Pariambus typicus</i>	<i>Periocolodes longimanus</i>	<i>Phaxas pellucidus juv.</i>	<i>Philinidae juv.</i>	<i>Pholoe baltica</i>	<i>Phoronida</i>	<i>Podarkeopsis capensis</i>
P0	0	0	0	0	3	0	2
P0	1	0	1	0	0	0	2
P0	0	0	2	0	0	1	2
P1	0	0	1	0	3	0	1
P1	0	0	0	0	0	0	0
P1	0	0	0	0	2	0	2
P1	0	0	0	0	0	0	1
P1	0	0	0	0	0	0	0
P1	0	0	0	0	1	0	2
P1	0	0	1	0	1	0	0
T0	0	1	0	0	0	0	0
T0	0	0	0	0	1	0	1
T0	0	0	0	0	0	2	1
T0	0	0	0	0	0	1	0
T1	0	0	1	0	1	3	0
T1	0	0	0	1	1	6	0
T1	0	0	0	1	0	0	1
T1	0	0	0	0	0	1	1
T2	1	0	0	0	0	0	0
T2	0	0	0	0	1	0	0
T3	0	0	0	0	0	1	0
T3	0	0	0	0	0	1	0
T3	0	0	0	0	0	1	0

**Table S5. continued (9 of 11)**

Station	<i>Podocopida</i>	<i>Prionospio multibranchiata</i>	<i>Pseudocumatidae</i>	<i>Scalibregma inflatum</i>	<i>Sigalionidae juv.</i>	<i>Spatangoida juv.</i>
P0	1	0	0	1	0	1
P0	0	0	0	4	0	3
P0	0	2	1	3	0	8
P1	0	0	0	0	0	0
P1	0	1	0	0	0	1
P1	0	3	0	3	0	1
P1	0	0	0	2	0	0
P1	0	1	0	2	0	0
P1	0	0	0	1	0	1
P1	0	0	0	1	1	3
T0	0	1	0	1	0	18
T0	0	1	0	2	0	3
T0	0	0	0	1	0	2
T0	0	3	0	3	0	7
T1	0	0	0	2	0	3
T1	0	0	0	3	0	9
T1	0	0	0	3	0	12
T1	0	0	0	0	0	1
T2	0	0	0	0	0	1
T2	0	0	0	1	0	2
T3	0	0	0	0	0	1
T3	0	0	0	0	0	0
T3	0	0	0	0	0	0

**Table S5. continued (10 of 11)**

Station	<i>Spiophanes bombyx</i>	<i>Spisula juv.</i>	<i>Sthenelais juv.</i>	<i>Sthenelais limicola</i>	<i>Tellimya ferruginosa</i>	<i>Tellinoidea juv.</i>
P0	0	0	0	0	14	0
P0	1	0	0	0	2	0
P0	0	0	2	0	0	1
P1	0	0	0	0	0	0
P1	0	0	0	0	0	0
P1	0	0	0	0	0	0
P1	0	0	0	0	1	0
P1	0	0	0	0	0	0
P1	0	0	0	0	0	0
P1	0	0	0	0	0	0
T0	1	0	1	0	0	0
T0	2	0	0	0	1	0
T0	0	1	0	0	0	0
T0	0	0	0	0	0	0
T1	0	0	0	0	0	0
T1	0	1	0	0	1	0
T1	0	0	0	0	2	0
T1	0	0	0	0	0	0
T2	0	0	0	0	1	0
T2	0	0	0	0	0	0
T3	0	0	0	0	0	0
T3	0	0	0	0	0	0
T3	0	0	0	0	0	0

**Table S5. continued (11 of 11)**

Station	<i>Thracia convexa</i>	<i>Thracioidea juv.</i>	<i>Thyasira flexuosa</i>	<i>Thysanocardia procera</i>	<i>Turbellaria</i>	<i>Upogebia deltaura</i>
P0	1	1	0	0	0	0
P0	0	1	0	0	0	0
P0	0	0	1	0	0	0
P1	0	0	0	1	0	0
P1	0	0	0	0	0	0
P1	0	0	1	2	0	0
P1	0	0	0	1	0	0
P1	0	1	0	0	0	0
P1	0	0	0	0	0	0
P1	0	0	0	0	0	0
T0	0	2	0	0	1	1
T0	0	0	0	1	0	0
T0	0	0	0	0	0	0
T0	0	0	1	0	0	0
T1	0	0	0	0	0	0
T1	0	2	0	0	0	1
T1	0	0	0	0	0	0
T1	0	0	0	0	0	0
T2	0	0	0	0	0	0
T2	0	0	0	0	0	0
T3	0	0	0	0	0	1
T3	1	0	0	0	0	0
T3	0	0	0	1	0	0

**Table S6. (1 of 13)**

Macrofauna individual densities found in deep cores.

Station	<i>Abra alba</i>	<i>Abra nitida</i>	<i>Abra juv.</i>	<i>Amphiura filiformis</i>	<i>Aphroditidae</i>	<i>Argissa hamatipes</i>	<i>Atherospio</i>	<i>Bathyporeia guilliamsoniana</i>
T1	0	0	62	34	6	0	0	0
T1	0	0	335	54	1	0	0	0
P0	0	0	177	15	0	0	4	0
P0	0	0	62	30	0	0	0	0
P0	2	1	202	32	1	0	2	0
P0	0	0	110	19	1	0	8	0
P0	0	0	403	37	2	0	7	0
Ref	0	0	140	17	0	1	11	0
Ref	2	0	403	36	3	0	6	0
Ref	0	0	208	15	3	0	1	0
P1	7	0	26	32	0	0	10	0
P1	0	0	35	50	2	0	31	0
P1	0	0	20	12	1	0	0	0
P1	0	0	31	40	0	0	14	1

**Table S6. continued (2 of 13)**

Station	<i>Bopyridae</i>	<i>Brachyura</i>	<i>Callianassa subterranea</i>	<i>Caprellidae</i>	<i>Chamelea striatula</i>	<i>Corbula gibba</i>	<i>Corystes cassivelaunus</i>
T1	0	0	9	0	0	6	2
T1	0	0	4	0	0	3	1
P0	0	0	7	0	0	9	2
P0	0	0	10	0	0	0	0
P0	0	0	7	0	0	9	1
P0	0	2	10	0	0	17	1
P0	0	0	4	0	0	0	0
Ref	0	0	8	0	0	12	4
Ref	0	1	5	0	0	21	0
Ref	4	0	9	0	0	3	1
P1	0	0	10	0	0	4	0
P1	0	0	6	0	0	4	0
P1	0	0	8	0	1	11	0
P1	2	0	9	0	0	5	1

**Table S6. continued (3 of 13)**

Station	<i>Crangon crangon</i>	<i>Cylichna cylindracea</i>	<i>Decapoda juv.</i>	<i>Devonia perrieri</i>	<i>Diplocirrus glaucus</i>	<i>Echinocardium cordatum</i>	<i>Echinoidea juv.</i>
T1	0	0	0	0	8	3	6
T1	0	0	0	0	5	0	6
P0	0	0	1	0	21	1	9
P0	0	0	0	0	5	0	2
P0	0	0	0	0	10	2	13
P0	0	1	0	0	8	4	0
P0	0	1	0	0	9	2	0
Ref	1	1	0	0	28	3	0
Ref	0	0	0	0	16	3	7
Ref	0	0	0	1	9	2	24
P1	0	1	0	0	0	0	1
P1	0	0	0	0	2	1	1
P1	0	0	0	0	1	0	1
P1	0	0	0	0	1	2	0

**Table S6. continued (4 of 13)**

Station	<i>Eudorella truncatula</i>	<i>Eunereis longissima</i>	<i>Fabulina fabula</i> juv.	<i>Gammaroidea</i> juv.	<i>Gastrosaccus sanctus</i>	<i>Gattyana cirrhosa</i>	<i>Glycera alba</i>
T1	3	0	0	0	0	0	1
T1	3	1	0	0	0	0	0
P0	0	0	0	2	0	0	0
P0	0	0	0	0	0	0	0
P0	6	0	0	0	0	0	0
P0	0	2	0	0	0	1	0
P0	0	2	1	0	0	0	0
Ref	1	1	0	0	0	0	0
Ref	10	2	0	0	0	0	2
Ref	2	1	0	0	0	0	1
P1	0	1	0	0	1	0	0
P1	0	2	0	0	0	0	0
P1	0	2	0	0	0	0	0
P1	0	2	0	0	0	0	0

**Table S6. continued (5 of 13)**

Station	<i>Glycera</i> juv.	<i>Glycinde nordmanni</i>	<i>Goneplax rhomboides</i>	<i>Goniada maculata</i>	<i>Goniadidae</i> juv.	<i>Holothuroidea</i>	<i>Hyala vitrea</i>
T1	0	0	0	0	0	0	0
T1	0	0	0	0	0	0	0
P0	3	0	0	0	0	0	0
P0	0	0	0	0	3	0	0
P0	0	1	0	1	0	1	0
P0	1	0	0	0	0	2	0
P0	0	0	1	0	4	0	0
Ref	0	1	0	1	1	1	1
Ref	0	1	0	0	1	0	0
Ref	0	0	0	1	0	1	0
P1	0	0	0	0	1	0	0
P1	0	0	0	0	4	1	0
P1	0	0	0	0	0	0	0
P1	0	0	0	3	0	1	0

**Table S6. continued (6 of 13)**

Station	<i>Isopoda</i>	<i>Kurtiella bidentata</i>	<i>Lepton squamosum</i>	<i>Leucothoe incisa</i>	<i>Leucothoe lilljeborgi</i>	<i>Leucothoe procera</i>	<i>Lumbrineris</i>
T1	0	13	0	0	0	0	19
T1	0	43	0	0	0	0	13
P0	0	11	0	0	0	0	29
P0	0	9	0	0	0	0	19
P0	0	6	0	0	1	0	22
P0	1	10	0	1	0	0	11
P0	0	7	0	0	0	0	37
Ref	0	9	0	0	0	0	30
Ref	0	21	0	0	0	0	25
Ref	0	10	2	0	0	0	12
P1	0	7	0	1	0	0	18
P1	0	15	0	2	0	0	19
P1	0	5	0	0	0	0	7
P1	0	4	0	0	0	0	15

**Table S6. continued (7 of 13)**

Station	<i>Malmgrenia andreapolis</i>	<i>Mediomastus fragilis</i>	<i>Megaluropus agilis</i>	<i>Mytilidae juv.</i>	<i>Nemertea</i>	<i>Nephtyidae juv.</i>	<i>Nephtys hombergii</i>
T1	0	0	0	0	1	2	1
T1	0	1	0	0	1	1	1
P0	0	0	0	0	13	2	1
P0	0	4	1	0	14	0	1
P0	0	3	0	0	3	3	1
P0	0	2	3	0	2	4	1
P0	0	7	1	0	0	3	0
Ref	1	2	0	0	3	7	1
Ref	0	0	0	0	5	4	1
Ref	0	0	0	0	0	1	0
P1	0	11	0	0	5	0	2
P1	0	6	0	0	1	0	0
P1	0	9	0	0	1	0	0
P1	0	7	0	0	4	3	0

**Table S6. continued (8 of 13)**

Station	<i>Nephtys incisa</i>	<i>Nereididae juv.</i>	<i>Notomastus latericeus</i>	<i>Nucula nitidosa</i>	<i>Nucula juv.</i>	<i>Oligochaeta</i>	<i>Ophiura albida</i>
T1	0	1	1	3	0	0	2
T1	2	0	0	0	0	1	0
P0	0	0	1	0	0	7	0
P0	0	2	0	3	0	0	0
P0	0	0	0	3	5	0	0
P0	0	2	0	15	0	0	5
P0	0	1	1	3	0	0	1
Ref	0	0	3	3	0	0	0
Ref	0	0	2	1	0	0	0
Ref	1	0	3	0	0	0	2
P1	0	0	0	3	0	0	0
P1	0	0	0	0	0	0	1
P1	0	0	1	6	0	0	0
P1	1	0	1	9	0	0	0

**Table S6. continued (9 of 13)**

Station	<i>Ophiuroidea juv.</i>	<i>Oxydromus flexuosus</i>	<i>Parexogone hebes</i>	<i>Pariambus typicus</i>	<i>Perioculodes longimanus</i>	<i>Pharidae juv.</i>	<i>Phaxas pellucidus</i>
T1	64	4	0	0	0	0	2
T1	76	1	0	0	0	0	2
P0	14	11	0	0	0	0	0
P0	8	9	2	0	0	0	0
P0	72	0	0	0	0	0	0
P0	10	4	0	0	0	0	0
P0	31	3	1	0	0	1	0
Ref	45	4	1	0	0	0	4
Ref	34	1	0	1	2	0	1
Ref	29	0	0	0	1	0	0
P1	5	3	3	0	0	0	0
P1	4	5	1	0	0	0	0
P1	6	4	2	0	0	0	0
P1	21	2	1	0	0	0	0

**Table S6. continued (10 of 13)**

Station	<i>Philine</i>	<i>Pholoe baltica</i>	<i>Phoronida</i>	<i>Podarkeopsis capensis</i>	<i>Polynoidae juv.</i>	<i>Portumnus latipes</i>	<i>Portumnus latipes juv.</i>
T1	0	3	15	3	0	0	0
T1	5	4	11	1	0	0	0
P0	0	0	5	0	0	0	0
P0	0	3	9	0	1	0	0
P0	0	4	7	2	2	0	0
P0	0	7	23	0	0	0	0
P0	0	4	16	0	4	0	0
Ref	0	0	14	0	0	1	1
Ref	0	9	22	1	0	0	0
Ref	0	2	5	3	0	0	0
P1	0	4	25	0	0	0	0
P1	0	2	39	0	2	0	0
P1	0	3	19	0	0	0	0
P1	0	0	6	3	0	0	0

**Table S6. continued (11 of 13)**

Station	<i>Prionospio</i>	<i>Pseudione borealis</i>	<i>Pseudocuma longicornis</i>	<i>Pseudocuma simile</i>	<i>Scalibregma inflatum</i>	<i>Sigalionidae juv.</i>	<i>Sipuncula</i>
T1	0	0	0	0	12	0	3
T1	4	0	0	0	4	0	0
P0	0	0	0	0	22	0	1
P0	0	0	1	0	17	0	1
P0	1	0	0	0	22	2	1
P0	0	0	1	0	16	0	2
P0	0	0	2	0	31	0	1
Ref	3	0	1	0	39	0	2
Ref	0	0	1	0	11	2	0
Ref	0	0	0	0	6	0	0
P1	2	0	0	0	4	0	1
P1	1	0	0	2	7	0	0
P1	1	1	0	0	3	0	1
P1	9	0	2	0	8	1	2

**Table S6. continued (12 of 13)**

Station	<i>Spio gonocephala</i>	<i>Spiophanes bombyx</i>	<i>Spisula juv.</i>	<i>Tellimya ferruginosa</i>	<i>Tellinoidea juv.</i>	<i>Terebellidae juv.</i>	<i>Thracia convexa</i>
T1	0	0	0	0	1	0	0
T1	0	0	0	2	1	0	0
P0	0	1	0	0	1	0	0
P0	0	2	0	0	1	0	0
P0	0	1	0	2	0	0	0
P0	0	1	0	4	0	0	0
P0	0	0	1	1	2	0	0
Ref	0	1	0	5	0	1	1
Ref	0	0	0	2	0	0	0
Ref	0	0	0	2	0	0	0
P1	2	1	0	0	1	0	0
P1	0	0	0	3	0	0	0
P1	0	5	0	1	0	0	0
P1	0	0	0	1	0	0	0

**Table S6. continued (13 of 13)**

Station	<i>Thracioidea juv.</i>	<i>Thyasira flexuosa</i>	<i>Thyasira juv.</i>	<i>Upogebia deltaura</i>	<i>Upogebia juv.</i>
T1	0	0	0	0	0
T1	1	0	0	1	0
P0	0	0	0	1	0
P0	0	0	0	1	0
P0	1	0	0	0	0
P0	0	0	1	2	1
P0	0	0	0	1	0
Ref	0	2	0	2	0
Ref	0	0	0	2	0
Ref	0	0	0	0	0
P1	0	0	0	4	0
P1	0	0	0	2	1
P1	0	0	0	0	0
P1	0	0	0	1	0