

Supplementary Information

Table S1. Complete list of taxa identified during the degradation with their corresponding trophic group: detritus feeders (DF), grazers (G), predators (P) and suspension-feeders (SF). The sum of the abundance of the three replicate cages is reported for each sampling time.

Taxons	Trophic group	Abundance / sampling time (weeks)						
		2	4	6	11	15	20	24
Annelida								
Polychaeta								
<i>Amblyosyllis</i> sp. - Grube, 1857	P	0	0	0	0	0	0	1
<i>Branchiomma bairdi</i> - (McIntosh, 1885)	SF	0	0	0	0	0	0	5
<i>Branchiomma bombyx</i> - (Dalyell, 1853)	SF	0	0	0	0	1	0	6
<i>Eumida sanguinea</i> - (Ørsted, 1843)	P	0	1	0	1	0	0	0
<i>Eupolymnia nebulosa</i> - (Montagu, 1819)	DF	0	0	0	0	1	0	0
<i>Eupolymnia nesidensis</i> - (Delle Chiaje, 1828)	DF	0	0	0	0	0	0	4
<i>Flabelligera affinis</i> - M. Sars, 1829	DF	0	1	0	0	0	0	0
<i>Harmothoe extenuata</i> - (Grube, 1840)	P	0	0	0	0	0	0	1
<i>Harmothoe</i> sp. - Kinberg, 1856	P	0	0	0	4	0	0	0
<i>Hydroides norvegica</i> - Gunnerus, 1768	SF	0	0	0	0	0	0	1
<i>Lanice conchilega</i> - (Pallas, 1766)	DF	0	0	0	0	1	0	0
<i>Lepidonotus clava</i> - (Montagu, 1808)	P	0	0	0	0	2	0	5
<i>Lepidonotus squamatus</i> - (Linnaeus, 1758)	P	0	0	0	0	0	0	2
<i>Malmgrenia</i> sp. - McIntosh, 1874	P	0	0	0	0	1	0	0
<i>Micronereis</i> sp. - Claparède, 1863	DF	0	0	0	4	6	0	2
<i>Micronereis variegata</i> - Claparède, 1863	DF	0	0	1	6	6	0	2
<i>Microspio</i> sp. - Mesnil, 1896	DF	0	0	0	14	3	0	0
<i>Mysta picta</i> - (Quatrefages, 1866)	P	0	0	0	2	0	0	0
<i>Nicolea venustula</i> - (Montagu, 1819)	DF	0	0	0	2	3	0	7
<i>Paranaitis kosteriensis</i> - (Malmgren, 1867)	P	0	0	0	1	0	0	0
<i>Platynereis dumerilii</i> - (Audouin & Milne Edwards, 1833)	G	4	13	19	17	11	6	25
<i>Prionospio steenstrupi</i> - Malmgren, 1867	DF	0	0	0	2	0	0	0

<i>Sabella discifera</i> - Grube, 1874	SF	0	0	0	0	1	0	0
<i>Spio cf decorata</i> - Bobretzky, 1870	DF	0	0	0	0	5	0	0
<i>Spio filicornis</i> - (Müller, 1776)	DF	0	0	0	1	0	0	0
<i>Spio</i> sp. - Fabricius, 1785	DF	0	0	1	0	0	0	1
<i>Spirobranchus triqueter</i> - (Linnaeus, 1758)	SF	0	0	0	0	18	178	276
<i>Spirorbis</i> sp. - Daudin, 1800	SF	0	0	0	0	3	3	3
<i>Subadyte pellucida</i> - (Ehlers, 1864)	P	0	0	0	0	0	0	1
<i>Syllis prolifera</i> - Krohn, 1852	P	0	0	0	0	0	0	2
Terebellidae sp. - Johnston, 1846	DF	0	0	0	0	0	0	1
<i>Thelepus</i> sp. - Leuckart, 1849	SF	0	0	0	1	0	0	0
<i>Websterinereis glauca</i> - (Claparède, 1870)	DF	0	1	0	0	0	0	0

Arthropoda

Malacostraca

<i>Abludomelita gladiosa</i> - (Spence Bate, 1862)	DF	1	0	0	13	8	0	3
<i>Ampithoe ramondi</i> - Audouin, 1826	G	4	2	4	23	14	0	48
<i>Anapagurus hyndmanni</i> - (Bell, 1845)	P	5	6	1	2	37	12	9
<i>Animoceradocus semiserratus</i> - (Spence Bate, 1862)	DF	0	0	0	1	0	0	0
<i>Aora gracilis</i> - (Spence Bate, 1857)	SF	0	3	6	26	29	10	57
<i>Athanas nitescens</i> - (Leach, 1813)	DF	9	6	2	1	1	0	0
<i>Carcinus maenas</i> - (Linnaeus, 1758)	P	0	0	0	1	0	0	0
<i>Cymodoce truncata</i> - Leach, 1814	G	0	0	0	1	2	0	1
<i>Dexamine spinosa</i> - (Montagu, 1813)	DF	0	0	0	6	0	0	0
<i>Dynamene bidentata</i> - (Adams, 1800)	DF	2	0	1	2	0	2	3
<i>Erichthonius brasiliensis</i> - (Dana, 1853)	DF	0	1	0	7	4	1	45
<i>Erichthonius punctatus</i> - (Spence Bate, 1857)	DF	1	0	0	0	0	0	16
<i>Eualus cranchii</i> - (Leach, 1817)	P	0	2	6	20	13	0	5
<i>Eualus occultus</i> - (Lebour, 1936)	P	0	0	1	0	4	0	1
<i>Galathea intermedia</i> - Lilljeborg, 1851	DF	12	25	41	69	0	0	0
<i>Galathea squamifera</i> - Leach, 1814	DF	1	0	1	46	103	84	93
<i>Gammarella fucicola</i> - (Leach, 1814)	DF	1	6	0	52	31	1	1
<i>Gammaropsis maculata</i> - (Johnston, 1828)	G	0	0	2	1	0	0	8

<i>Gammarus locusta</i> - (Linnaeus, 1758)	G	1475	1172	305	1	0	0	0
<i>Gnathia</i> sp. - Leach, 1814	P	0	0	0	0	0	1	0
<i>Hippolyte leptocerus</i> - (Heller, 1863)	P	0	0	3	0	0	0	0
<i>Hippolyte varians</i> - Leach, 1814	P	0	4	2	3	0	0	1
Hippolytidae sp. - Spence Bate, 1888	P	0	0	0	0	0	0	2
<i>Idotea balthica</i> - (Pallas, 1772)	G	154	231	129	1	0	0	0
<i>Idotea neglecta</i> - G. O. Sars, 1897	G	33	45	25	0	0	0	0
<i>Inachus phalangium</i> - (Fabricius, 1775)	P	0	0	1	1	0	0	2
<i>Iphimedia perplexa</i> - Myers & Costello, 1987	DF	0	0	0	0	0	0	2
<i>Iphinoe trispinosa</i> - (Goodsir, 1843)	DF	0	0	0	1	0	0	0
<i>Janira maculosa</i> - Leach, 1814	DF	0	1	0	0	0	0	0
<i>Jassa</i> spp. - Leach, 1814	SF	2	4	4	0	1	9	1
<i>Lembos websteri</i> - Spence Bate, 1857	DF	0	0	0	1	0	0	0
<i>Liocarcinus holsatus</i> - (Fabricius, 1798)	P	0	2	1	0	0	0	0
<i>Liocarcinus</i> sp. - Stimpson, 1871	P	0	2	1	0	0	0	0
<i>Macropodia rostrata</i> - (Linnaeus, 1761)	P	0	0	1	0	0	0	1
<i>Macropodia</i> sp. - Leach, 1814	P	1	0	0	0	0	0	0
<i>Maera grossimana</i> - (Montagu, 1808)	DF	8	6	1	11	2	0	0
<i>Microdeutopus anomalus</i> - (Rathke, 1843)	DF	0	0	0	0	0	0	1
<i>Microdeutopus versiculatus</i> - (Spence Bate, 1857)	DF	0	0	0	9	0	0	1
<i>Nebalia</i> spp. - Leach, 1814	DF	5	0	0	0	0	0	0
<i>Necora puber</i> - (Linnaeus, 1767)	P	0	0	0	0	4	0	2
<i>Nototropis guttatus</i> - Costa, 1853	DF	0	1	1	3	1	0	2
<i>Nototropis swammerdamei</i> - (H. Milne Edwards, 1830)	DF	0	1	0	0	0	0	0
<i>Orchomene humilis</i> - (Costa, 1853)	P	0	0	0	9	5	2	7
<i>Pagurus bernhardus</i> - (Linnaeus, 1758)	P	0	0	0	10	0	0	0
<i>Pagurus cuanensis</i> - Bell, 1845	P	0	0	0	1	1	0	0
<i>Pagurus forbesii</i> - Bell, 1845	P	0	0	5	0	1	0	0
<i>Pagurus pubescens</i> - Krøyer, 1838	P	0	1	1	2	3	0	0
<i>Pagurus</i> sp. - Fabricius, 1775	P	0	1	0	4	2	1	0
<i>Palaemon longirostris</i> - H. Milne Edwards, 1837	P	0	0	0	0	2	0	0
<i>Palaemon serratus</i> - (Pennant, 1777)	P	0	0	2	0	6	20	0

<i>Pilumnus hirtellus</i> - (Linnaeus, 1761)	P	0	0	0	0	1	1	12
<i>Pisidia longicornis</i> - (Linnaeus, 1767)	SF	9	21	59	116	132	145	305
<i>Siriella clausii</i> - G.O. Sars, 1877	SF	0	0	1	0	0	0	0
<i>Siriella dayi</i> - O. Tattersall, 1952	SF	0	0	1	0	0	0	0
<i>Tryphosella nanooides</i> - (Lilljeborg, 1865)	P	0	0	0	0	0	1	0
Pycnogonida								
<i>Endeis spinosa</i> - (Montagu, 1808)	P	0	0	0	1	0	0	0
<i>Nymphon brevirostre</i> - Hodge, 1863	P	0	0	0	1	0	0	0
Bryozoa								
<i>Cradoscrupocellaria reptans</i> - (Linnaeus, 1758)	SF	0	0	0	0	0	1	1
<i>Schizomavella</i> sp. - Canu & Bassler, 1917	SF	0	0	0	0	0	0	1
<i>Tubuliporina</i> spp.		0	0	0	0	1	1	1
Chordata								
Actinopterygii								
<i>Apletodon dentatus</i> - (Facciola, 1887)	P	2	2	3	0	1	2	3
<i>Ciliata mustela</i> - (Linnaeus, 1758)	P	0	20	17	6	5	0	4
<i>Entelurus aequoreus</i> - (Linnaeus, 1758)	P	0	0	1	1	3	0	0
<i>Gaidropsarus vulgaris</i> - (Cloquet, 1824)	P	2	0	0	0	0	0	0
<i>Gobius paganellus</i> - Linnaeus, 1758	P	0	0	0	2	0	5	3
<i>Lepadogaster candolii</i> - Risso, 1810	P	0	0	0	1	0	0	1
<i>Nerophis lumbriciformis</i> - (Jenyns, 1835)	P	0	0	0	1	0	0	0
<i>Phrynorhombus norvegicus</i> - (Günther, 1862)	P	0	0	2	0	0	0	0
Ascidiacea								
<i>Aplidium elegans</i> - (Giard, 1872)	SF	0	0	0	0	1	0	0
<i>Asciidiella aspersa</i> - (Müller, 1776)	SF	0	0	0	0	1	0	0
<i>Botrylloides</i> sp. - Milne Edwards, 1841	SF	0	0	0	1	1	1	1
<i>Botryllus schlosseri</i> - (Pallas, 1766)	SF	0	0	0	1	1	1	1
<i>Corella eumyota</i> - Traustedt, 1882	SF	0	0	0	0	0	0	1
<i>Didemnum maculosum</i> - (Milne Edwards, 1841)	SF	0	0	0	0	0	0	1
<i>Didemnum vexillum</i> - Kott, 2002	SF	0	0	0	0	0	0	1

<i>Distomus variolosus</i> - Gaertner, 1774	SF	0	0	0	0	0	0	1
<i>Phallusia mammillata</i> - (Cuvier, 1815)	SF	0	0	0	1	1	1	1
Cnidaria								
Staurozoa								
<i>Calvadosia</i> sp. - James-Clark, 1863	P	0	0	0	0	1	0	0
Echinodermata								
Ophiuroidea								
<i>Ophiocomina nigra</i> - (Abildgaard in O.F. Müller, 1789)	DF	0	0	0	1	0	0	0
<i>Ophiothrix fragilis</i> - (Abildgaard in O.F. Müller, 1789)	DF	0	0	0	3	0	0	0
Mollusca								
Bivalvia								
<i>Aequipecten opercularis</i> - (Linnaeus, 1758)	SF	0	0	0	0	0	6	3
<i>Anomia ephippium</i> - Linnaeus, 1758	SF	0	0	0	5	13	32	218
<i>Dosinia lupinus</i> - (Linnaeus, 1758)	SF	0	0	0	0	1	0	0
<i>Mimachlamys varia</i> - (Linnaeus, 1758)	SF	0	0	0	0	0	4	6
<i>Musculus</i> sp. - Röding, 1798	SF	0	0	0	0	0	0	2
<i>Mytilus edulis</i> - Linnaeus, 1758	SF	0	0	0	1	0	0	0
<i>Parvicardium scabrum</i> - (Philippi, 1844)	SF	0	0	0	0	9	6	0
<i>Timoclea ovata</i> - (Pennant, 1777)	SF	3	0	0	1	0	3	0
<i>Venus casina</i> - Linnaeus, 1758	SF	0	0	0	0	1	0	0
Gastropoda								
<i>Barleeia unifasciata</i> - (Montagu, 1803)	DF	0	1	1	0	0	0	4
<i>Berthella plumula</i> - (Montagu, 1803)	P	0	0	0	0	0	0	2
<i>Bittium reticulatum</i> - (da Costa, 1778)	DF	0	0	0	0	14	18	3
<i>Calliostoma zizyphinum</i> - (Linnaeus, 1758)	P	0	0	0	0	0	1	2
<i>Cerithiopsis tubercularis</i> - (Montagu, 1803)	DF	0	0	0	0	0	0	1
<i>Chauvetia brunnea</i> - (Donovan, 1804)	DF	0	0	0	0	0	0	1
<i>Cingula</i> sp. - J. Fleming, 1818	G	0	0	0	0	0	0	1

<i>Colus</i> sp. - Röding, 1798	P	0	0	0	0	0	0	1
<i>Crisilla semistriata</i> - (Montagu, 1808)	DF	0	0	1	0	0	0	0
<i>Cyrellia aequalis</i> - (Jeffreys, 1867)	P	1	1	0	0	0	1	0
Dorididae sp. - Rafinesque, 1815	P	0	0	0	0	0	1	0
<i>Gibbula magus</i> - (Linnaeus, 1758)	G	5	0	0	0	4	2	1
<i>Gibbula tumida</i> - (Montagu, 1803)	G	1	0	0	0	0	0	0
<i>Jujubinus exasperatus</i> - (Pennant, 1777)	DF	0	2	3	11	10	16	14
<i>Jujubinus montagui</i> - (Wood, 1828)	DF	2	1	0	0	0	0	0
<i>Jujubinus striatus</i> - (Linnaeus, 1758)	DF	1	2	0	0	5	10	4
<i>Lamellaria perspicua</i> - (Linnaeus, 1758)	G	0	0	0	0	0	9	6
<i>Manzonina crassa</i> - (Kanmacher, 1798)	DF	0	0	0	0	2	0	0
<i>Ocenebra erinaceus</i> - (Linnaeus, 1758)	P	0	0	0	0	3	6	5
<i>Ocenebrina aciculata</i> - (Lamarck, 1822)	P	1	0	0	0	0	0	0
<i>Patella pellucida</i> - Linnaeus, 1758	G	1	1	0	3	4	3	0
<i>Polycera quadrilineata</i> - (O. F. Müller, 1776)	P	0	1	0	0	0	0	0
<i>Pusillina inconspicua</i> - (Alder, 1844)	DF	0	8	16	0	0	0	0
<i>Pusillina</i> sp. - Monterosato, 1884	DF	0	0	0	0	2	1	0
<i>Retusa obtusa</i> - (Montagu, 1803)	P	0	0	0	1	0	0	0
<i>Rissoa guerinii</i> - Récluz, 1843	G	0	3	2	2	5	23	28
<i>Rissoa lilacina</i> - Récluz, 1843	G	0	0	1	1	4	54	77
<i>Rissoa membranacea</i> - (J. Adams, 1800)	G	4	0	2	0	5	20	0
<i>Rissoa parva</i> - (da Costa, 1778)	G	38	187	211	76	70	58	224
<i>Rissoa</i> spp. - Desmarest, 1814	G	0	169	104	66	16	20	304
<i>Setia pulcherrima</i> - (Jeffreys, 1848)	G	0	0	3	0	0	5	0
<i>Steromphala cineraria</i> - (Linnaeus, 1758)	G	38	104	94	126	147	55	80
<i>Steromphala umbilicalis</i> - (da Costa, 1778)	G	0	0	1	0	3	0	0
<i>Tectura virginea</i> - (O. F. Müller, 1776)	G	0	0	0	0	0	0	1
<i>Tricolia pullus</i> - (Linnaeus, 1758)	G	37	71	104	36	13	33	116
<i>Tritia pygmaea</i> - (Schlotheim, 1820)	P	0	0	0	0	3	5	0
<i>Tritia reticulata</i> - (Linnaeus, 1758)	P	0	0	0	0	0	1	0
<i>Trivia arctica</i> - (Pulteney, 1799)	P	0	0	0	1	2	1	1
<i>Trivia monacha</i> - (da Costa, 1778)	P	0	0	0	0	0	0	4

<i>Trophonopsis</i> sp. - Bucquoy & Dautzenberg, 1882	P	0	0	0	0	0	0	5
Nemertea								
Nemertea sp.	P	0	0	1	2	0	0	0
Platyhelminthes								
<i>Leptoplana tremellaris</i> - (Müller OF, 1773)	P	0	0	0	0	1	0	0
Platyhelminthes spp. - Minot, 1876	P	0	0	0	0	0	0	8
