

Table S1. Extra regional characteristics. Regional environmental parameters (2006-2014 minimum depth averages) were obtained from BioORACLEv2.1 (Assis et al., 2018).

	Churchill	Deception Bay	Iqaluit	Steensby Inlet
Phosphate ($\mu\text{m m}^{-3}$)	1.18	0.53	0.37	0.6
Nitrate ($\mu\text{m m}^{-3}$)	8.5	0.6	1.0	1.3
Salinity (P.S.U.)	33.2	31.9	32.2	30.2
Dissolved oxygen ($\mu\text{m m}^{-3}$)	283	363	353	365
Sea Surface Temperature ($^{\circ}\text{C}$)	-0.2-3.6	-0.4-2.0	-0.8-1.8	-1.0-0.3
Chlorophyll (mg m^{-3})	0.02	0.31	0.47	0.32
Water velocity (m s^{-1})	0.006	0.043	0.004	0.008
Ship traffic 2007-2011 (vessels y^{-1})¹	21.8	29.4	29.4	4.8
Population (2021)²	~870	0	~7400	0
Historical ice period³	Mid-November to mid-June	Late November to late June	Late November to mid-July	Mid-october to late July

¹ Statistics Canada Archives (2023). Shipping in Canada from 2007 to 2011: Tables 11 and 12, International and Domestic shipping – Number of movements, vessel capacity and tonnage transported by province or territory and port. <https://www150.statcan.gc.ca/n1/en/catalogue/54-205-X>

² Statistics Canada (2023). Census Profile, 2021 Census of Population. <https://www12.statcan.gc.ca/census-recensement/2021/dp-pd/prof/index.cfm?Lang=E>

³ Canadian Ice Service (2023). 30-year ice climate normals (1991-2020). <https://iceweb1.cis.ec.gc.ca/30Atlas/page1.xhtml?grp=Guest&lang=en>

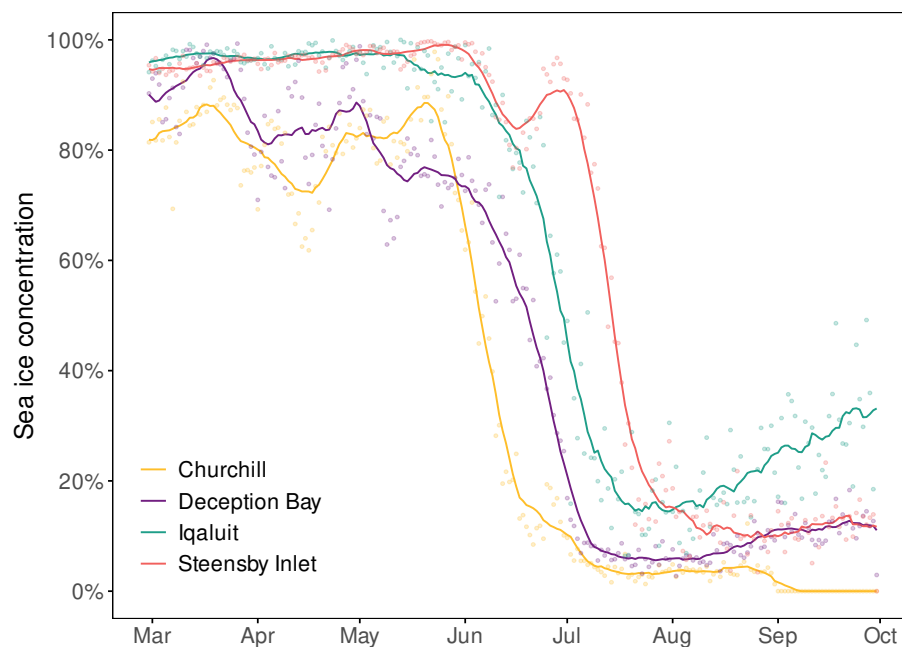


Figure S1. Sea ice concentration in the four regions. Daily average between 2006 and 2011 (data obtained from the National Snow and Ice Data Center (https://nsidc.org/data/ae_si12/versions/3), 2023). Lines correspond to a 14-days rolling mean.

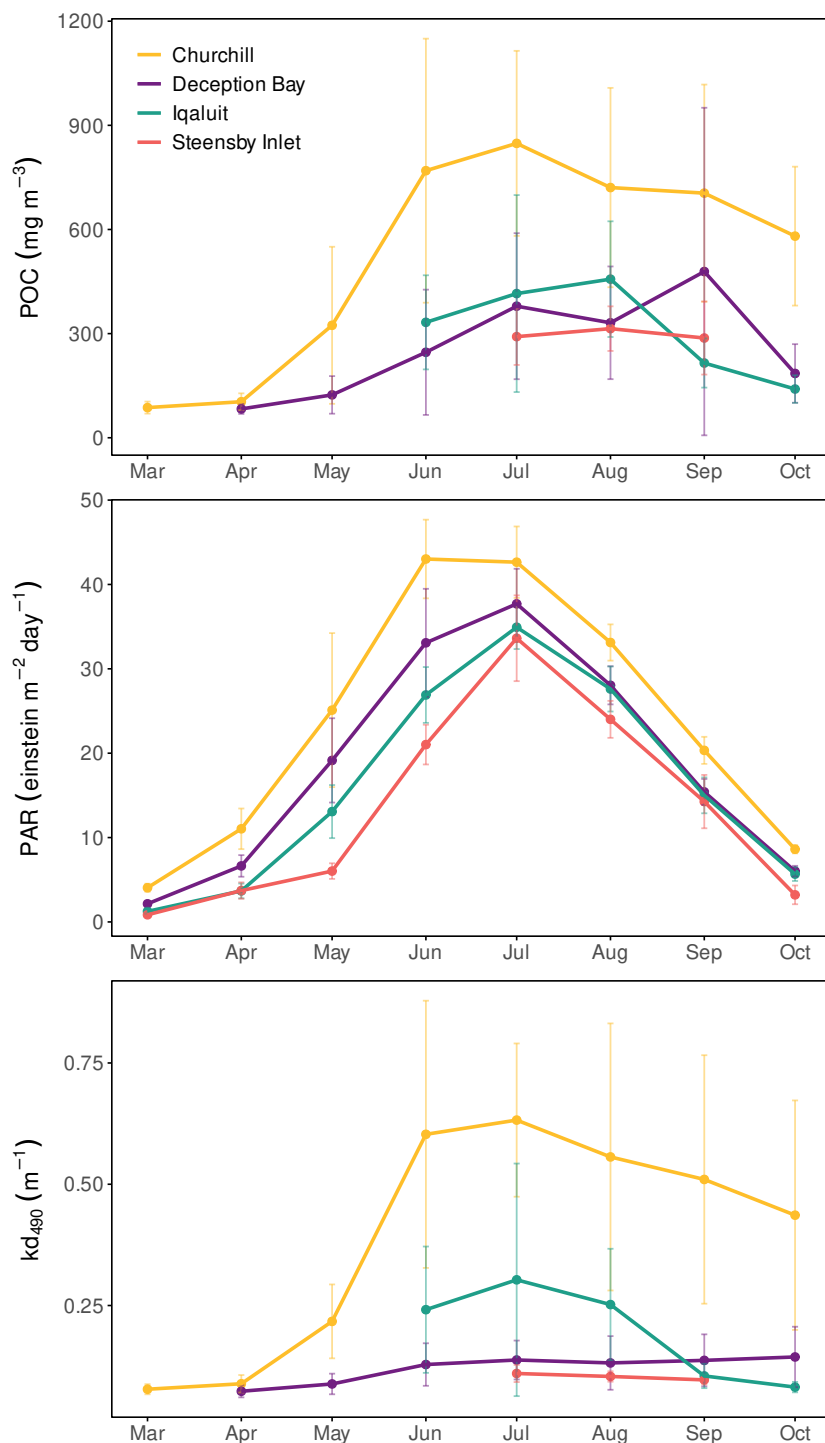


Figure S2. Other characteristics to explain differences in light availability to the seafloor among regions. A) Particulate organic carbon, B) photosynthetically active radiation and C) diffuse attenuation coefficient (the rate at which light at 490 nm is attenuated with depth). All graphs show monthly averages between 2006 and 2011 (data obtained from the NASA Ocean Biology Distributed Active Archive Center, 2023). Waters with kd_{490} values over 0.3 are considered turbid, while waters with values below 0.1 are mostly transparent. Most Arctic regions have values below 0.1 (Shi & Wang 2010).

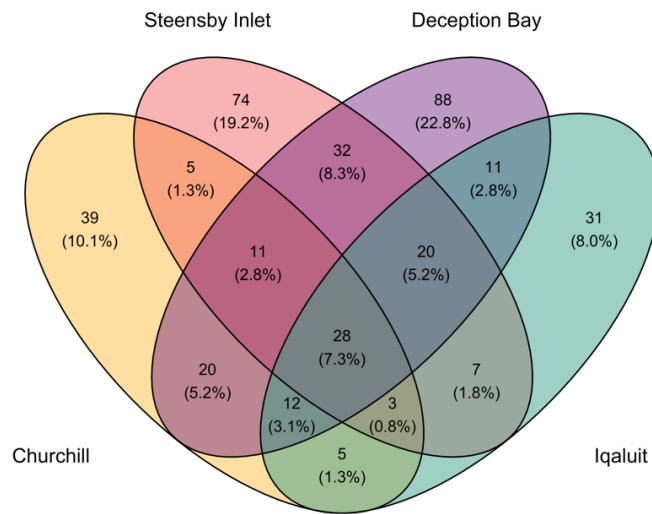


Figure S3. Venn diagram showing the taxa shared - in total number (top) and percentage (bottom) - between all four regions.

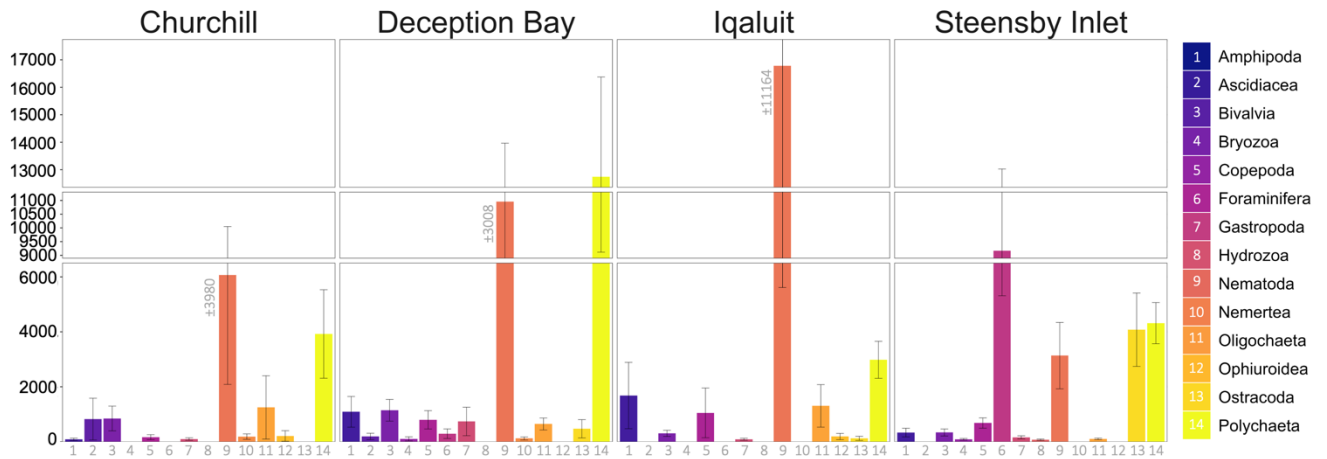


Figure S4. Class-level densities (mean ind. m⁻² ± SE) among the four regions sampled.

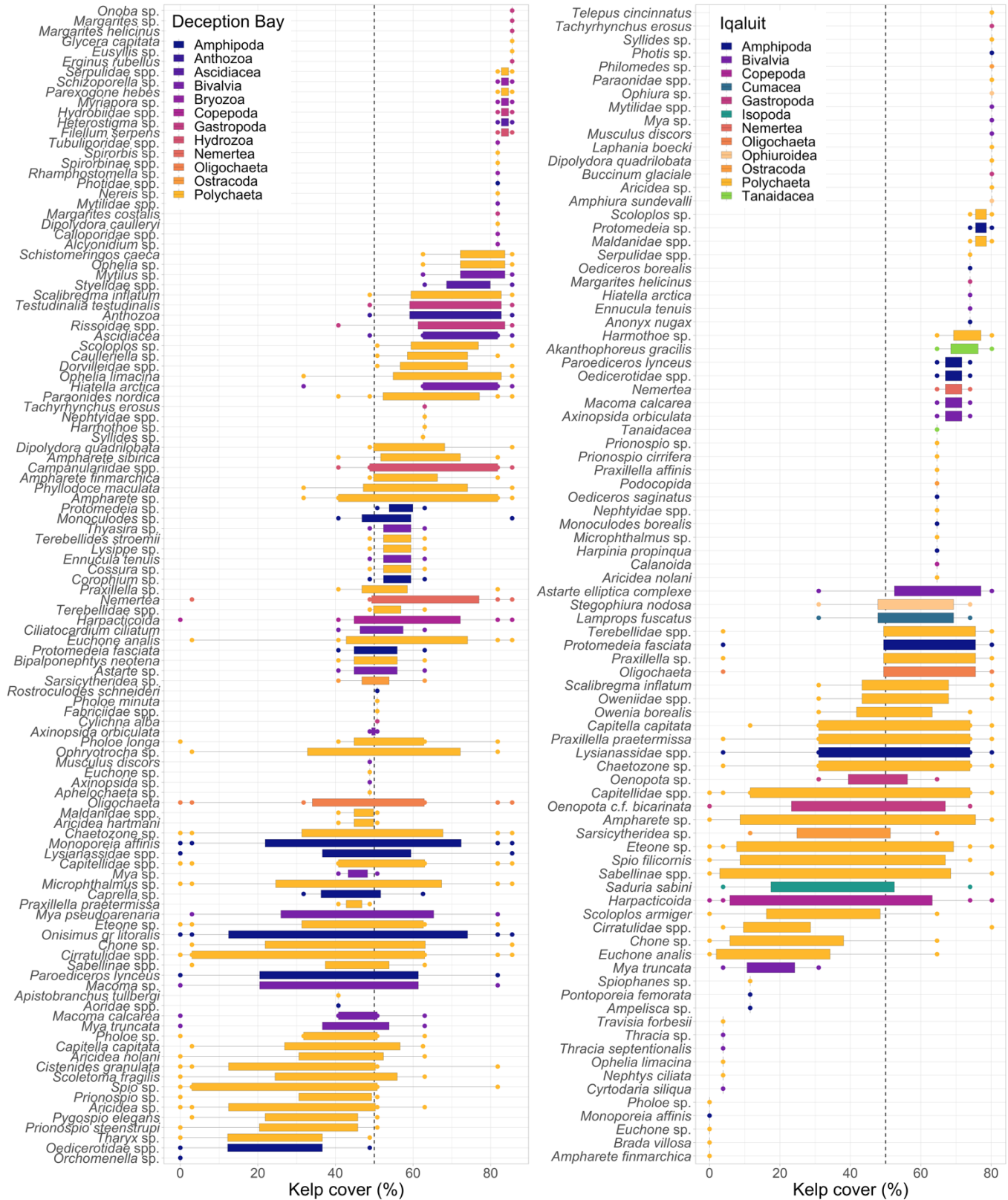


Figure S5. Densities of invertebrate taxa (at lowest identifiable taxonomic level) relative to percent kelp cover in Deception Bay ($N=10$) and Iqaluit ($N=7$), color-coded by broad taxonomic groups (class level).

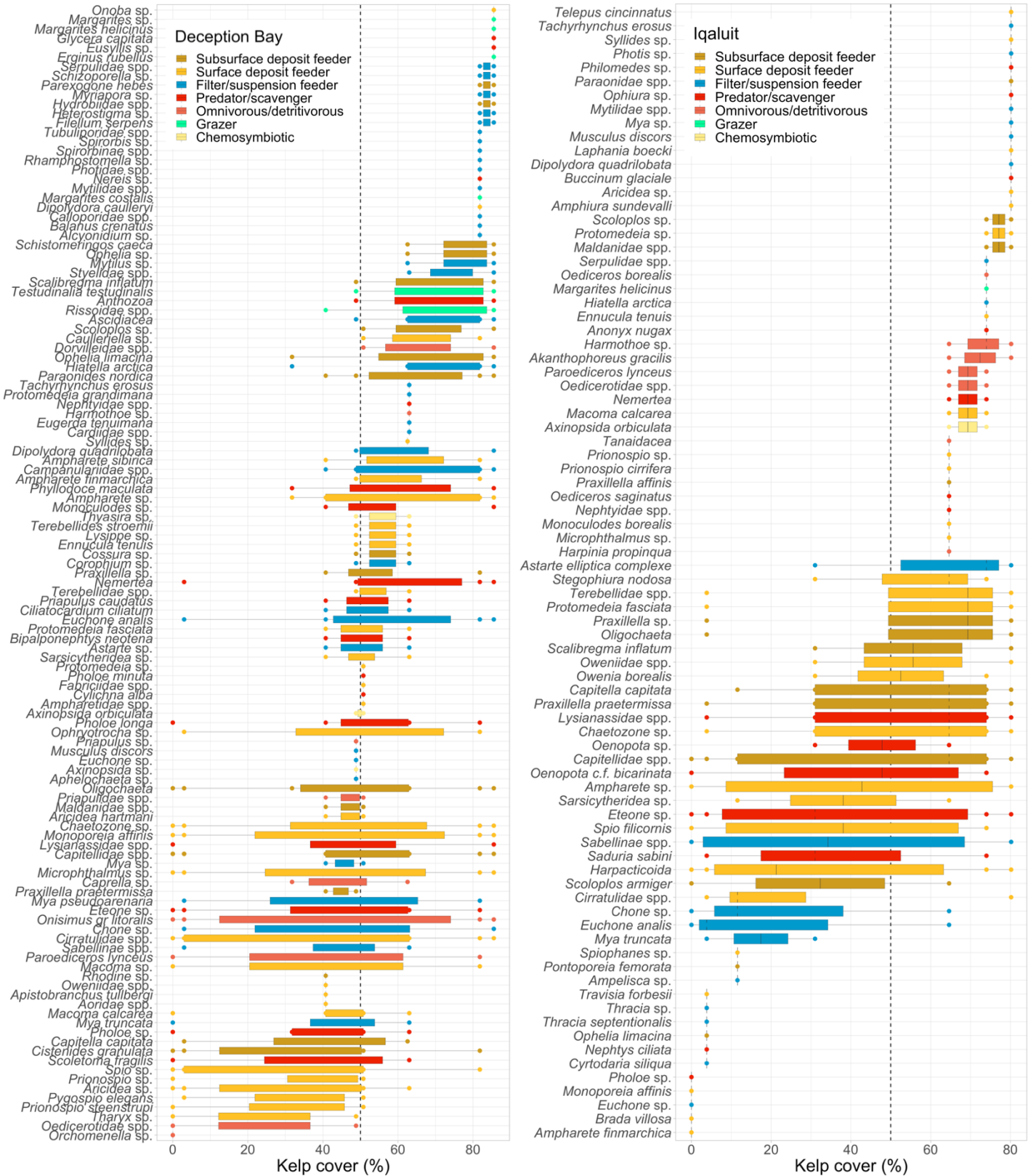


Figure S6. Densities of invertebrate taxa (at lowest identifiable taxonomic level) relative to kelp percent cover in Deception Bay ($N=10$) and Iqaluit ($N=7$), color-coded by feeding guild.

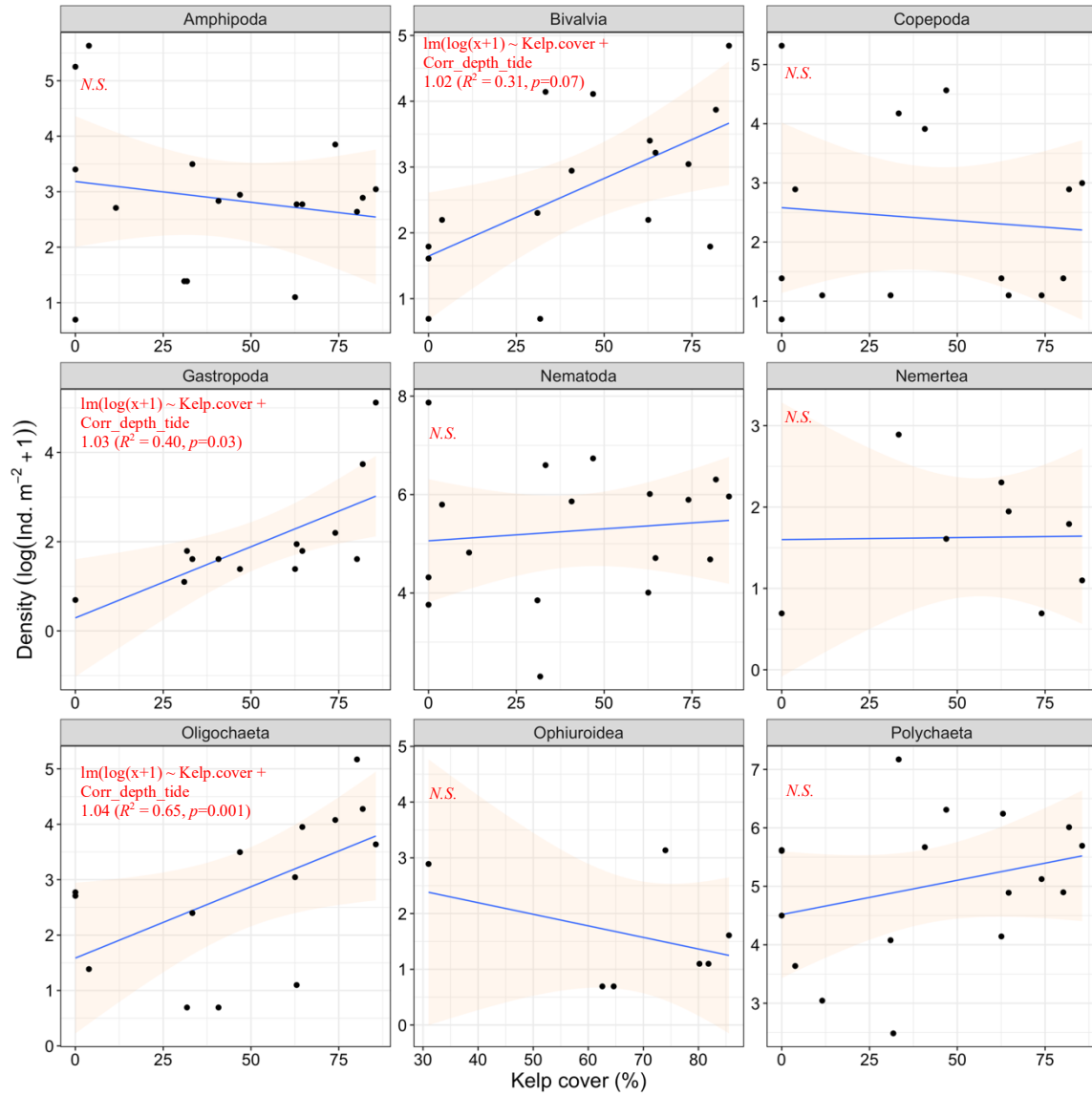


Figure S7. Total density of each taxonomical group in relation to kelp percent cover in Deception Bay and Iqaluit. Only groups present at most of the sites were investigated.

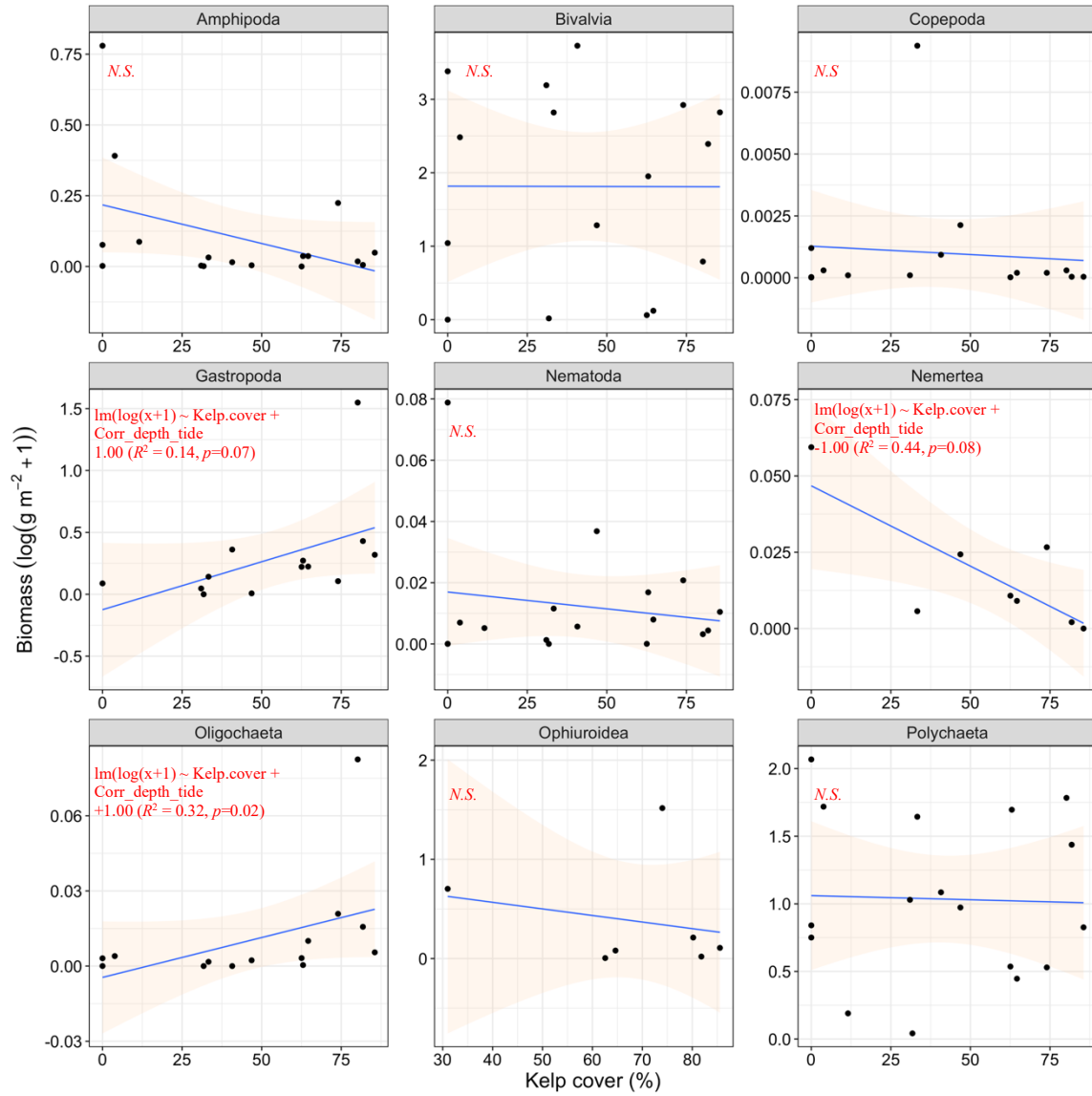


Figure S8. Total biomass of each taxonomical group in relation to kelp percent cover in Deception Bay and Iqaluit. Only groups present at most of the sites were investigated.

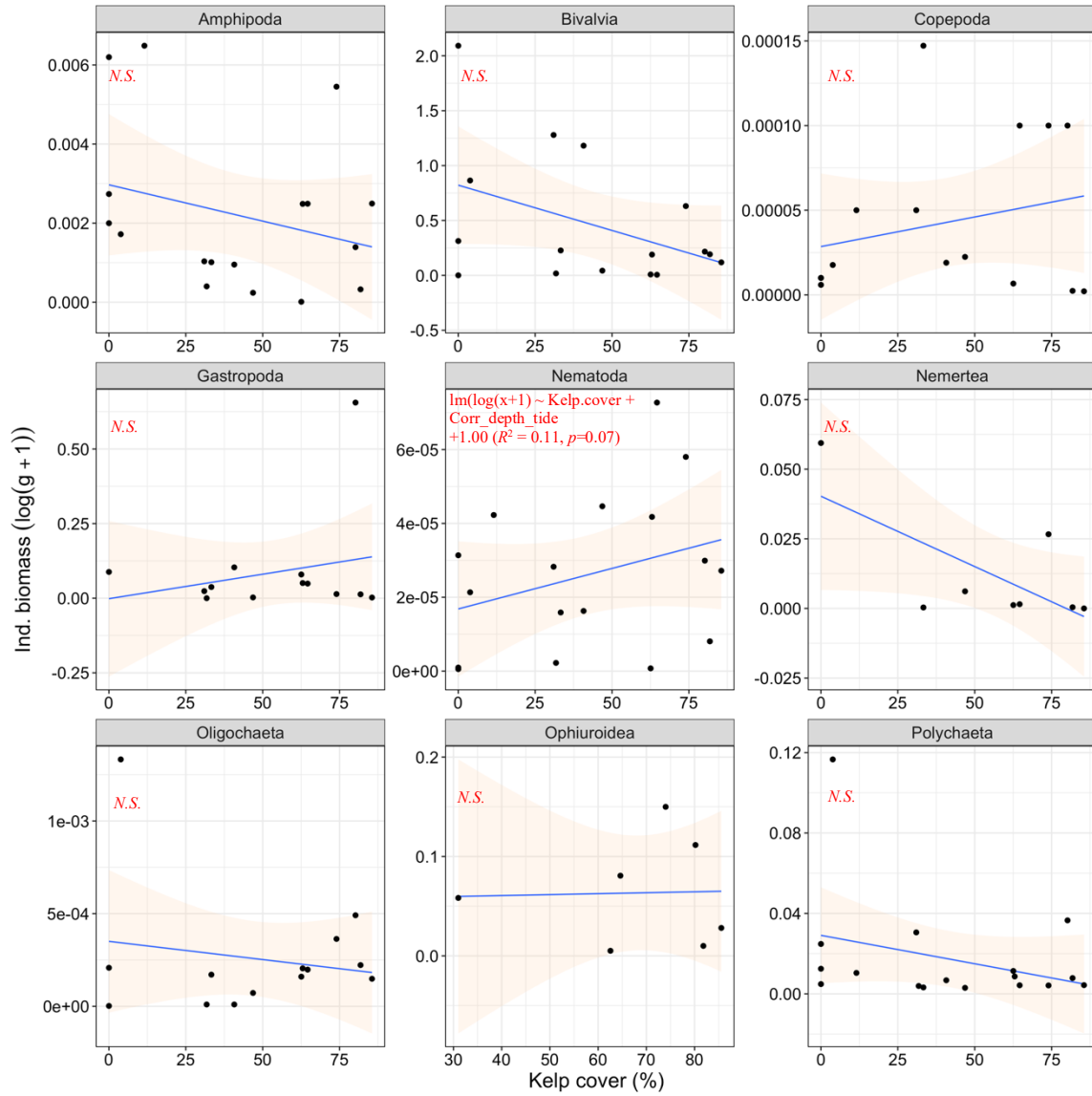


Figure S9. Mean individual biomass (total abundance/total biomass) vs kelp percent cover for each taxonomical group in Deception Bay and Iqaluit. Only groups present at most of the sites were investigated.

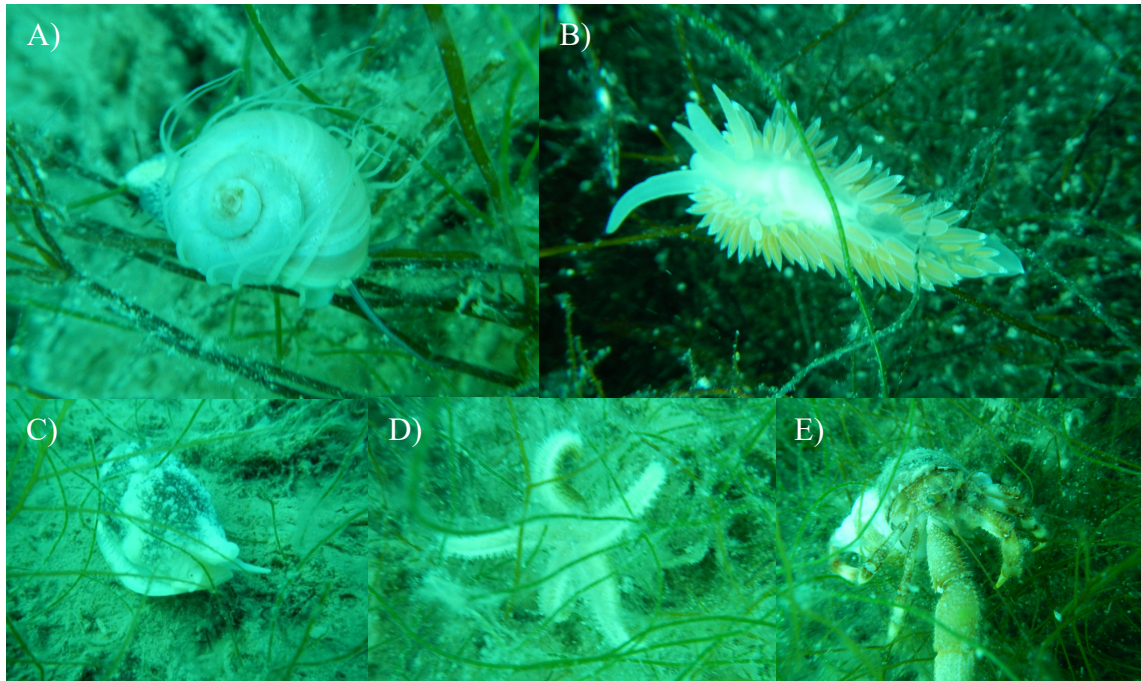


Figure S10. Small fauna encountered in Steensby Inlet's Desmarestiales. A) *Margarites* sp. B) *Ziminella salmonacea* C) Gastopoda D) Asteriidae spp. E) Paguridae spp.

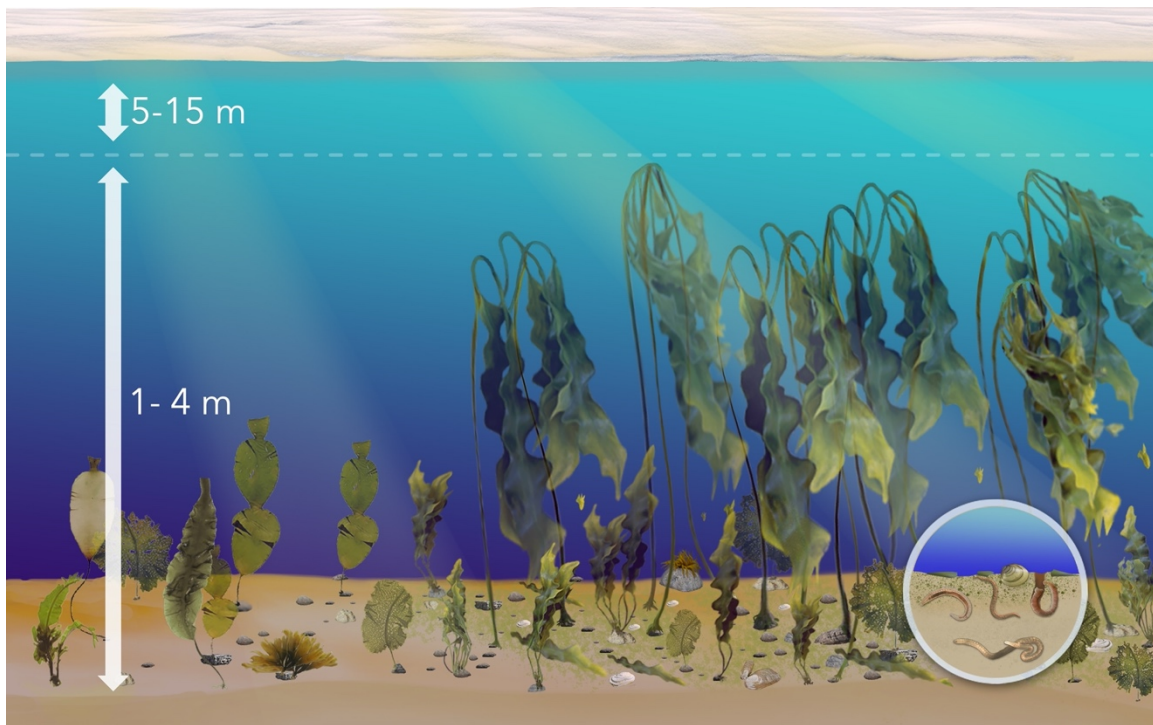


Figure S11. Tall kelp forest over soft substratum and some associated subsurface deposit-feeders.

Table S2. Taxa list per region.

	Churchill		Deception Bay		Iqaluit		Steensby Inlet	
	Taxa	Aphia	Taxa	AphiaID	Taxa	AphiaID	Taxa	AphiaID
1	Actiniidae spp.	10065	<i>Acanthocythereis dunelmensis</i>	128359	<i>Akanthophoreus gracilis</i>	136340	Acari	1349
2	<i>Alcyonidium</i> sp.	11099	Actiniaria	1360	<i>Alcyonidium</i> sp.	110993	<i>Akanthophoreus gracilis</i>	136340
3	<i>Ampharete acutifrons</i>	12977	<i>Alcyonidium</i> sp.	110993	<i>Ampelisca</i> sp.	101445	<i>Ampharete baltica</i>	129776
4	<i>Ampharete</i> sp.	12915	<i>Ampharete finmarchica</i>	129778	<i>Ampharete finmarchica</i>	129778	<i>Ampharete sibirica</i>	332933
5	Ampharetidae spp.	15225	<i>Ampharete sibirica</i>	332933	<i>Ampharete</i> sp.	129155	<i>Ariadnaria borealis</i>	714762
6	Ampharetidae spp.	981	<i>Ampharete</i> sp.	129155	Ampharetidae spp.	981	<i>Aricidea nolani</i>	157218
7	<i>Anonyx nugax</i>	10251	Ampharetidae spp.	152252	<i>Amphiura sundevalli</i>	125100	<i>Aricidea</i> sp.	129430
8	Anthozoa	1292	Anthozoa	1292	<i>Anonyx nugax</i>	102514	<i>Astarte borealis complex</i>	138818
9	<i>Aricidea hartmani</i>	13056	Aoridae spp.	101368	<i>Aricidea nolani</i>	157218	<i>Astarte</i> sp.	137683
10	<i>Aricidea</i> sp.	12943	<i>Aphelochaeta</i> sp.	129240	<i>Aricidea</i> sp.	129430	<i>Asterias</i> sp.	393252
11	Ascidacea	1839	<i>Apistobranthus tullbergi</i>	129851	<i>Aricidea</i> sp.	137683	<i>Boltenia echinata</i>	103814
12	<i>Balanus crenatus</i>	10621	<i>Argis dentata</i>	107550	<i>Axinopsida orbiculata</i>	141652	Buccinidae spp.	149
13	<i>Bipalponephrys neotena</i>	55819	<i>Aricidea hartmani</i>	130561	<i>Axiothella catenata</i>	130275	Calanoida	1100
14	Buccinidae spp.	149	<i>Aricidea nolani</i>	157218	<i>Brada villosa</i>	130099	Calliopiidae spp.	146744
15	Calanoida	1100	<i>Aricidea</i> sp.	129430	<i>Buccinum glaciale</i>	138864	Calloporidae spp.	110733
16	Campanulariidae spp.	1606	Ascidacea	1839	Calanoida	1100	Campanulariidae spp.	1606
17	<i>Campanulina pumila</i>	15064	<i>Astarte elliptica complexe</i>	138821	<i>Capitella capitata</i>	129876	Campanulinidae spp.	1607
18	<i>Capitella</i> sp. A	12921	<i>Astarte montagui</i>	138823	<i>Capitella</i> sp. A	129211	Candidae spp.	110734
19	Capitellidae spp.	921	<i>Astarte</i> sp.	137683	<i>Capitella</i> sp. B	129211	<i>Capitella</i> sp. B	129211
20	Capitellidae spp. A	921	Autolytinae spp.	152231	Capitellidae spp.	921	Capitellidae spp. A	921
21	Capitellidae spp. B	921	<i>Axinopsida orbiculata</i>	141652	Capitellidae spp. A	921	<i>Caprella septentrionalis</i>	101851
22	<i>Cauloramphus intermedius</i>	42325	<i>Axinopsida</i> sp.	138550	Capitellidae spp. B	921	Caprellidae spp.	101361
23	Chironomidae spp.	11810	<i>Axinulus</i> sp.	152413	<i>Chaetozone</i> sp.	129242	<i>Chaetozone</i> sp.	129242
24	<i>Chone</i> sp.	12952	<i>Axiothella catenata</i>	130275	<i>Chone</i> sp.	129525	<i>Circeis spirillum</i>	131201
25	Cirratulidae spp.	919	<i>Balanus crenatus</i>	106215	Cirratulidae spp.	919	Cirratulidae spp.	919
26	Cirratulidae spp. A	919	<i>Boltenia echinata</i>	103814	Cirratulidae spp. A	919	Cirratulidae spp. A	919
27	<i>Cistenides granulata</i>	23837	<i>Boreocingula castanea</i>	141265	Cyclopoida	1101	<i>Cistenides granulata</i>	238377
28	<i>Cistenides hyperborea</i>	15731	Brachiopoda	1803	<i>Cyrtodaria siliqua</i>	140102	<i>Cistenides</i> sp.	157316
29	Crinoidea	12308	Brachyura	106673	<i>Dipolydora quadrilobata</i>	131121	<i>Clymenura polaris</i>	130286
30	<i>Dendrodoa</i> sp.	10353	Calanoida	1100	<i>Ennucula tenuis</i>	140584	<i>Cossura</i> sp.	129251
31	Diastylidae spp.	11038	<i>Callopora</i> sp.	110851	<i>Eteone</i> sp.	129443	<i>Cribrilina</i> sp.	110892
32	<i>Diastylis rathkei</i>	11048	Calloporidae spp.	110733	<i>Euchone analis</i>	130903	<i>Crisia</i> sp.	111032

33	<i>Diastylis</i> sp.	11039	<i>Campanularia</i> sp.	117029	<i>Euchone</i> sp.	129528	Cytheroidea spp.	127477
34	<i>Eteone</i> sp.	12944	Campanulariidae spp.	1606	Foraminifera	1410	<i>Diplocirrus</i> sp.	129290
35	<i>Eucratea loricata</i>	11136	<i>Capitella capitata</i>	129876	Gammaridae spp.	1207	<i>Dipolydora caulleryi</i>	131116
36	<i>Exogone</i> sp.	12965	<i>Capitella</i> sp. B	129211	<i>Gammarus oceanicus</i>	102285	<i>Dipolydora quadrilobata</i>	131121
37	Foraminifera	1410	<i>Caprella</i> sp.	101430	<i>Gammarus</i> sp.	101537	<i>Dipolydora socialis</i> group	131124
38	<i>Galathowenia oculata</i>	14695	Cardiidae spp.	229	<i>Harmothoe</i> sp.	129491	Echiura	1269
39	Gammaridae spp.	1207	<i>Caulleriella</i> sp.	129241	Harpacticoida	1102	<i>Ehtonodiastylis robusta</i>	160614
40	<i>Gammarus oceanicus</i>	10228	<i>Cellepora</i> sp.	110873	<i>Harpinia propinqua</i>	102974	<i>Elofsonella</i> sp.	127623
41	<i>Gammarus setosus</i>	10229	Chaetodermatida	2088	Hesionidae sp. A	946	<i>Ennucula delphinodonta</i>	506605
42	<i>Gattyana cirrhosa</i>	13074	<i>Chaetozone</i> sp.	129242	Hesionidae spp.	946	<i>Ennucula tenuis</i>	140584
43	<i>Gattyana</i> sp.	12948	Cheilostatomata	110722	<i>Hiatella arctica</i>	140103	<i>Escharella</i> sp.	110965
44	<i>Glycera capitata</i>	13011	<i>Chone</i> sp.	129525	<i>Lamprops fuscatus</i>	110517	<i>Eteone</i> sp.	129443
45	<i>Glycera</i> sp.	12929	<i>Ciliatocardium ciliatum</i>	139000	<i>Laphania boeckii</i>	131496	<i>Eualus fabricii</i>	158357
46	Halacaridae spp.	1484	<i>Circeis spirillum</i>	131201	<i>Lichenopora crassiuscula</i>	156210	<i>Euchone incolor</i>	155202
47	<i>Halicryptus spinulosus</i>	10115	Cirripedia	1082	Lysianassidae spp.	101395	<i>Eucratea loricata</i>	111361
48	<i>Hardametopa carinata</i>	15809	<i>Cistenides granulata</i>	238377	<i>Macoma calcarea</i>	141580	Eudendriidae spp.	1600
49	<i>Harmothoe imbricata</i>	13076	Copepoda	1080	Maldanidae spp.	923	<i>Eugerda tenuimana</i>	118559
50	<i>Harmothoe</i> sp.	12949	<i>Corophium</i> sp.	101489	<i>Margarites helicinus</i>	141821	<i>Eulalia viridis</i>	130639
51	Harpacticoida	1102	<i>Cossura</i> sp.	129251	<i>Microphthalmus</i> sp.	129313	Eusyllinae spp.	152233
52	<i>Hemithiris psittacea</i>	10405	Cyclopoida	1101	<i>Monocolodes borealis</i>	102881	<i>Exogone (Exogone) naidina</i>	131304
53	<i>Hiatella arctica</i>	14010	<i>Cylichna alba</i>	139474	<i>Monoculopsis longicornis</i>	102901	<i>Filellum serpens</i>	117690
54	<i>Lafoeina maxima</i>	11741	Cytheroidea spp.	127477	<i>Monoporeia affinis</i>	103077	Foraminifera	1410
55	<i>Lamprops fuscatus</i>	11051	<i>Dipolydora caulleryi</i>	131116	<i>Musculus discors</i>	140472	Gammaridae spp.	1207
56	<i>Lanassa</i> sp.	12969	<i>Dipolydora quadrilobata</i>	131121	<i>Mya</i> sp.	138211	<i>Gammarus oceanicus</i>	102285
57	<i>Littorina obtusata</i>	14026	<i>Dipolydora socialis</i>	131124	<i>Mya truncata</i>	140431	<i>Gammarus</i> sp.	740304
58	<i>Littorina</i> sp.	13813	<i>Dipolydora</i> sp.	129611	Mytilidae spp.	211	<i>Gattyana cirrhosa</i>	130749
59	<i>Macoma balthica</i>	14157	<i>Ehtonodiastylis robusta</i>	160614	<i>Nebalia bipes</i>	147032	<i>Guerneia (Prinassus) nordenskioldi</i>	158095
60	Maldanidae spp.	923	<i>Ennucula tenuis</i>	140584	Nematoda	799	<i>Halecium</i> sp.	117103
61	<i>Manayunkia</i> sp.	1859	<i>Erginus rubellus</i>	140275	Nemertea	152391	<i>Hardametopa carinata</i>	158099
62	<i>Margarites groenlandicus umbilica</i>	23679	<i>Erinaceusyllis</i> sp.	195949	Nephtyidae spp.	956	<i>Hardametopa nasuta</i>	103110
63	<i>Micronephthys</i> sp.	12936	<i>Escharella</i> sp.	110965	<i>Nephtys ciliata</i>	130356	<i>Harmothoe imbricata</i>	130769
64	<i>Microphthalmus aberrans</i>	13016	<i>Escharoides</i> sp.	110966	<i>Oedicerus borealis</i>	102906	<i>Harmothoe</i> sp.	129491
65	<i>Microphthalmus</i> sp.	12931	<i>Eteone</i> sp.	129443	<i>Oedicerus saginatus</i>	102908	Harpacticoida	1102
66	<i>Microspio</i> sp.	12961	<i>Euchone analis</i>	130903	Oedicerotidae spp.	101400	<i>Hiatella arctica</i>	140103

67	<i>Moelleria costulata</i>	14185	<i>Euchone</i> sp.	129528	<i>Oenopota c.f. bicarinata</i>	158012	Holothuroidea	123083
68	<i>Molgula griffithsii</i>	25088	Eudendriidae spp.	1600	<i>Oenopota</i> sp.	137826	Isacidae spp.	101388
69	<i>Mya pseudoarenaria</i>	15624	<i>Eugerdia tenuimana</i>	118559	Oligochaeta	2036	<i>Ischyrocerus anguipes</i>	102412
70	<i>Myrianida prolifera</i>	23820	Eusyllinae spp.	152233	<i>Ophelia limacina</i>	130494	<i>Lafoea</i> sp.	117136
71	<i>Mytilus</i> sp.	13822	<i>Eusyllis</i> sp.	129653	<i>Ophiura</i> sp.	123574	<i>Lamprops fuscatus</i>	110517
72	Nematoda	799	<i>Exogone (Exogone) naidina</i>	131304	Ophiuroidea	123084	<i>Lamprops</i> sp.	110408
73	Nemertea	15239	Fabriciidae spp.	154918	Orbiniidae spp.	902	<i>Lanassa venusta</i>	131494
74	Nephtyidae spp.	956	<i>Filellum serpens</i>	117690	Ostracoda	1078	<i>Laphania boeckii</i>	131496
75	<i>Nephtys ciliata</i>	13035	Foraminifera	1410	<i>Owenia borealis</i>	329882	<i>Leaena abranchiata</i>	155008
76	<i>Nephtys incisa</i>	13036	<i>Galathowenia oculata</i>	146950	Oweniidae spp.	975	<i>Lepeta caeca</i>	140187
77	Oligochaeta	2036	Gammaridae spp.	1207	<i>Paraonella nordica</i>	156316	Leptognathiidae spp.	237596
78	<i>Opercularella lacerata</i>	11741	<i>Gammarus oceanicus</i>	102285	Paraonidae spp.	903	Leuconidae spp.	110382
79	<i>Ophelia limacina</i>	13049	<i>Gammarus setosus</i>	102293	<i>Paraxogone longicirris</i>	152251	<i>Levinsenia gracilis</i>	130578
80	Opheliidae spp.	924	<i>Gammarus</i> sp.	101537	<i>Paroediceros lynceus</i>	102911	Lichenoporidae spp.	110809
81	Ophiomyxidae spp.	24213	<i>Glyceria capitata</i>	130118	<i>Philomedes</i> sp.	127524	Lysianassidae spp.	101395
82	<i>Ophiopholis aculeata</i>	12512	<i>Guernea (Prinassus) nordenskioldi</i>	158095	<i>Pholoe</i> sp.	129439	<i>Macoma calcarea</i>	141580
83	<i>Ophiura robusta</i>	12493	<i>Guernea</i> sp.	101499	<i>Photis</i> sp.	101563	<i>Macoma</i> sp.	138531
84	<i>Ophiura</i> sp.	12357	Halacaridae spp.	1484	<i>Phoxocephalus holbolli</i>	102989	<i>Maldane</i> sp.	129352
85	Ophiurida	12311	<i>Hardametopa carinata</i>	158099	Podocopida	1091	Maldanidae spp.	923
86	Ophiuroidea	12308	<i>Harmeria scutulata</i>	111344	<i>Pontoporeia femorata</i>	103079	Mangeliidae spp.	153853
87	Oweniidae spp.	975	<i>Harmothoe imbricata</i>	130769	Porifera	558	<i>Margarites helacinus</i>	141821
88	<i>Paraonides nordica</i>	33034	<i>Harmothoe</i> sp.	129491	<i>Praxillella affinis</i>	130322	<i>Margarites</i> sp.	138592
89	<i>Paraonis</i> sp.	12943	Harpacticoida	1102	<i>Praxillella praetermissa</i>	130326	<i>Melinna elisabethae</i>	129805
90	<i>Paraxogone longicirris</i>	15225	<i>Hartmania moorei</i>	157434	<i>Praxillella</i> sp.	129360	<i>Metopa</i> sp.	101764
91	Patellogastropoda	38215	<i>Heterostigma</i> sp.	103521	<i>Prionospio cirrifera</i>	131153	<i>Micronephthys minuta</i>	130348
92	Pectinariidae spp.	980	<i>Hiatella arctica</i>	140103	<i>Prionospio</i> sp.	129620	<i>Microphthalmus</i> sp.	129313
93	<i>Pholoe longa</i>	13060	Hydrobiidae spp.	120	<i>Protomedeia fasciata</i>	102443	<i>Monoculodes</i> sp.	101694
94	<i>Pholoe</i> sp.	12943	<i>Laonome kroyeri</i>	254745	<i>Protomedeia</i> sp.	101574	<i>Monticellina</i> sp.	1961
95	<i>Phyllodoce</i> sp.	12945	Lichenoporidae spp.	110809	<i>Sabellides octocirrata</i>	129818	<i>Munna fabricii</i>	118754
96	Phyllococida	892	<i>Lumbrineris zatsepini</i>	327207	Sabellinae spp.	154917	<i>Musculus discors</i>	140472
97	<i>Phyllococidae</i> spp.	931	Lysianassidae spp.	101395	<i>Saduria sabini</i>	119036	<i>Mya</i> sp.	138211
98	Porifera	558	<i>Lysippe labiata</i>	129800	<i>Sarsicytheridea</i> sp.	127599	<i>Mya truncata</i>	140431
99	<i>Praxillella</i> sp.	12936	<i>Lysippe</i> sp.	129166	<i>Scalibregma inflatum</i>	130980	<i>Myriotrochus</i> sp.	123441
100	<i>Prionospio steenstrupi</i>	13116	<i>Macoma calcarea</i>	141580	<i>Scoloplos armiger</i>	334772	Nematoda	799
102	<i>Procerea</i> sp.	32506	<i>Macoma</i> sp.	138531	<i>Scoloplos</i> sp.	129425	Nephtyidae spp.	956

103	<i>Protomedeia</i> sp.	10157	<i>Manayunkia aestuarina</i>	130926	Serpulidae spp.	988	<i>Nephtys ciliata</i>	130356
104	<i>Pygospio elegans</i>	13117	<i>Margarites costalis</i>	141819	<i>Spio filicornis</i>	131183	<i>Nephtys incisa</i>	130362
105	<i>Robertsonites</i> sp.	12767	<i>Margarites groenlandicus groenlandicus</i>	345370	Spionidae spp.	913	<i>Nephtys longosetosa</i>	130364
106	Sabellidae spp.	985	<i>Margarites helicinus</i>	141821	<i>Spiophanes</i> sp.	129626	<i>Nephtys paradoxa</i>	130365
107	Sabellinae spp.	15491	<i>Margarites</i> sp.	138592	<i>Stegophiura nodosa</i>	124943	<i>Nephtys pente</i>	130352
108	<i>Sarsicytheridea</i> sp.	12759	<i>Melita formosa</i>	102838	Syllidae spp.	948	<i>Nephtys</i> sp.	129370
109	<i>Scalibregma inflatum</i>	13098	<i>Microphthalmus</i> sp.	129313	<i>Syllides</i> sp.	129679	<i>Nereimyra</i> sp.	129314
110	<i>Schistomeringos caeca</i>	13004	<i>Monocolodes</i> sp.	101694	<i>Tachyrhynchus erosus</i>	196391	<i>Nereis zonata</i>	130407
111	<i>Scoloplos armiger</i>	33477	<i>Monoporeia affinis</i>	103077	Tanaidacea	1133	<i>Nuculana minuta</i>	140577
112	<i>Scoloplos</i> sp.	12942	<i>Musculus discors</i>	140472	<i>Telepus cincinnatus</i>	131543	<i>Nymphon microrhynchum</i>	134701
113	Serpulidae spp.	988	<i>Mya pseudoarenaria</i>	156249	Terebellidae spp.	982	Oedicerotidae spp.	101400
114	<i>Spio filicornis</i>	13118	<i>Mya</i> sp.	138211	<i>Thracia septentionalis</i>	156454	Oligochaeta	2036
115	<i>Spio</i> sp.	12962	<i>Mya truncata</i>	140431	<i>Thracia</i> sp.	138549	Ophiuridae spp.	123200
116	Spionidae spp.	913	<i>Myriapora</i> sp.	110949	Thyasiridae spp.	219	Ophiuroidea	123084
117	<i>Stenosemus albus</i>	24777	Mysida	149668	<i>Travisia forbesii</i>	130512	<i>Ophryotrocha</i> sp.	129266
118	Styelidae spp.	10345	Mytilidae spp.	211	<i>Tubulipora c.f. flabellaris</i>	111758	Ostracoda	1078
119	Syllidae spp.	948	<i>Mytilus</i> sp.	138228		116	<i>Pagurus pubescens</i>	107240
120	<i>Syllides</i> sp.	12967	Nemertea	152391		117	<i>Pagurus</i> sp.	106854
121	Terebellidae spp.	982	<i>Neoamphitrite groenlandica</i>	131506			<i>Paraonides nordica</i>	330349
122	<i>Terebellides stroemii</i>	13157	<i>Nereimyra</i> sp.	129314			<i>Parexogone longicirris</i>	152251
123	<i>Testudinalia testudinalis</i>	23420	<i>Nereis</i> sp.	129379			<i>Paroedicerus lynceus</i>	102911
124	Thraciidae spp.	256	<i>Obelia</i> sp.	117034			<i>Petaloproctus tenuis</i>	130320
125	<i>Tonicella rubra</i>	14015	Oedicerotidae spp.	101400			<i>Philomedes</i> sp.	127524
126			Oligochaeta	2036			<i>Pholoe longa</i>	130602
127			<i>Onisimus gr litoralis</i>	102646			<i>Pholoe</i> sp.	129439
128			<i>Onoba</i> sp.	138451			<i>Phyllodoce groenlandica</i>	334506
129			<i>Ophelia limacina</i>	130494			<i>Phyllodoce mucosa</i>	334512
130			<i>Ophelia</i> sp.	129413			Phyllodocidae spp.	129455
131			<i>Ophiura robusta</i>	124933			Podoplea	155879
132			Ophiuroidea	123084			Polycirrinae	181512
133			<i>Ophryotrocha</i> sp.	129266			<i>Polydora</i> sp.	129619
134			<i>Orchomenella</i> sp.	101634			Polynoidae spp.	147006
135			Ostracoda	1078			Polynoidae spp.	939
136			<i>Paradexiospira (Paradexiospira) violacea</i>	334339			Pontoporeiidae spp.	101406
137			<i>Paraonides nordica</i>	330349			<i>Portlandia</i> sp.	138671
138			<i>Parexogone hebes</i>	131302			<i>Praxillella praetermissa</i>	130326

139		<i>Parexogone longicirris</i>	152251		<i>Praxillella</i> sp.	129360
140		<i>Paroedicerus lynceus</i>	102911		<i>Prionospio</i> sp.	129620
141		Patellogastropoda	382158		<i>Propebela harpularia</i>	160451
142		<i>Pholoe longa</i>	130602		<i>Propebela</i> sp.	159999
143		<i>Pholoe minuta</i>	130603		<i>Protomedeia fasciata</i>	102443
144		<i>Pholoe</i> sp.	129439		<i>Pseudoscalibregma parvum</i>	130978
145		Photidae spp.	148558		<i>Pygospio elegans</i>	131170
146		<i>Phyllodoce groenlandica</i>	334506		<i>Retusa obtusa</i>	141134
147		<i>Phyllodoce maculata</i>	334510		<i>Rhamphostomella</i> sp.	110836
148		<i>Phyllodoce</i> sp.	129455		Rissoidae spp.	123
149		Podoplea	155879		<i>Robertsonites</i> sp.	127678
150		<i>Praxillella praetermissa</i>	130326		Sabellinae spp.	154917
151		<i>Praxillella</i> sp.	129360		<i>Saduria sabini</i>	119036
152		Priapulidae spp.	101078		<i>Sarsicytheridea</i> sp.	127599
153		<i>Priapulus caudatus</i>	101160		<i>Scalibregma inflatum</i>	130980
154		<i>Priapulus</i> sp.	101095		<i>Scalibregma</i> sp.	129555
155		<i>Prionospio</i> sp.	129620		Schizoporellidae spp.	110772
156		<i>Prionospio steenstrupi</i>	131164		<i>Sclerochilus</i> sp.	127583
157		<i>Protomedeia fasciata</i>	102443		<i>Sclerocrangon boreas</i>	107568
158		<i>Protomedeia grandimana</i>	102444		<i>Scolecopsis</i> sp.	129623
159		<i>Protomedeia</i> sp.	101574		<i>Scoloplos armiger</i>	334772
160		<i>Puncturella noachina</i>	139975		<i>Scrupocellaria minor</i>	156419
161		<i>Pygospio elegans</i>	131170		<i>Securiflustra securifrons</i>	111374
162		<i>Retusa obtusa</i>	141134		Serpulidae spp.	988
163		<i>Rhamphostomella</i> sp.	110836		<i>Serripes groenlandicus</i>	582749
164		<i>Rhodine</i> sp.	129363		Sertulariidae spp.	1614
165		Rissoidae spp.	123		<i>Sphaerodoropsis minuta</i>	131096
166		<i>Robertsonites</i> sp.	127678		<i>Spio</i> / <i>Pygospio</i>	129625
167		Sabellinae spp.	154917		<i>Spio</i> sp.	129625
168		<i>Sarsicytheridea</i> sp.	127599		Spionidae spp.	913
169		<i>Scalibregma inflatum</i>	130980		<i>Stegophiura nodosa</i>	124943
170		<i>Schistomeringos caeca</i>	130043		<i>Syllides</i> sp.	129679
171		<i>Schizoporella crustacea</i>	111524		<i>Tachyrhynchus erosus</i>	196391
172		<i>Schizoporella</i> sp.	110975		<i>Tachyrhynchus reticulatus</i>	156447
173		Schizoporellidae spp.	110772		Tanaidacea	1133
174		<i>Scoletoma fragilis</i>	130261		<i>Tegella arctica</i>	111223
175		<i>Scoloplos gr armiger</i>	130537		<i>Tegella</i> sp.	110863
176		<i>Scoloplos</i> sp.	129425		Terebellidae spp.	982
177		<i>Spio</i> sp.	129625		<i>Terebellides stroemii</i>	131573

178		<i>Spirorbis</i> sp.	129642		<i>Thyasira</i> sp.	138552
179		Styelidae spp.	103450		Thyasiridae spp.	219
180		<i>Syllides</i> sp.	129679		<i>Tonicella rubra</i>	140152
181		Syllinae spp.	152223		<i>Travisia forbesii</i>	130512
182		<i>Syllis</i> sp.	129680		Tubuliporidae spp.	110814
183		<i>Tachyrhynchus erosus</i>	196391			180
184		<i>Tachyrhynchus</i> sp.	138614			181
185		<i>Tegella arctica</i>	111223			Showing
186		<i>Tegella</i> sp.	110863			
187		<i>Terebellides</i> sp.	129717			
188		<i>Terebellides stroemii</i>	131573			
189		<i>Testudinalia testudinalis</i>	234208			
190		<i>Tharyx</i> sp.	129249			
191		Thraciidae spp.	256			
192		<i>Thyasira gouldi</i>	141663			
193		<i>Thyasira</i> sp.	138552			
194		Thyasiridae spp.	219			
195		Trachyleberididae spp.	127509			
196		<i>Travisia forbesi</i>	156679			
197		Tubuliporidae spp.	110814			
198		Tubuliporina	160488			
199		Umbonulomorpha	152298			

Table S3. Literature review on taxa feeding habits.

Taxa	aphiaID	Feeding habit	Diet	Sources
				Divine, L., Iken, K., Bluhm, B. (2015) Regional benthic food web structure on the Alaska Beaufort Sea shelf. Marine Ecology Progress Series, 531:15-32. McTigue, N.D., Dunton, K.H. (2014) Trophodynamics and organic matter assimilation pathways in the northeast Chukchi Sea, Alaska. Deep Sea Research Part II: Topical Studies in Oceanography, 102:84-96. Roy, V., Iken, K., Gosselin, M., Tremblay, J., Bélanger, S., Archambault, P. (2015) Benthic faunal assimilation pathways and depth-related changes in food-web structure across the Canadian Arctic. Deep Sea Research Part I: Oceanographic Research Papers, 102:55-71. Coyle, K., Highsmith, R. (1994) Benthic amphipod community in the northern Bering Sea: analysis of potential structuring mechanisms. Marine Ecology Progress Series, 107:233-244. Conlan, K., Aitken, A., Hendrycks, E., McClelland, C., Melling, H. (2008) Distribution patterns of Canadian Beaufort Shelf macrobenthos. Journal of Marine Systems, 74:864-886.
<i>Ampelisca</i> sp.	101445	Filter/suspension feeder		
Cirratulidae spp.	919	Surface deposit feeder		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review.
<i>Sarsicytheridea</i> sp.	127599	Surface deposit feeder	Plankton	Gemery, L., Cronin, T. M., Cooper, L. W., Dowsett, H. J., & Grebmeier, J. M. (2021). Biogeography and ecology of Ostracoda in the US northern Bering, Chukchi, and Beaufort Seas. PloS one, 16(5), e0251164. Gemery, L., Cooper, L. W., Magen, C., Cronin, T. M., & Grebmeier, J. M. (2022). Stable oxygen isotopes in shallow marine ostracods from the northern Bering and Chukchi Seas. Marine Micropaleontology, 174, 102001. Majoran, S., & Agrenius, S. (1995). Preliminary observations on living <i>Krithe praetexta praetexta</i> (Sars, 1866), <i>Sarsicytheridea bradii</i> (Norman, 1865) and other marine ostracods in aquaria. Journal of Micropalaeontology, 14(2), 96-96.
<i>Spio filicornis</i>	131183	Surface deposit feeder		Surugiu, V. I. C. T. O. R. (2005). The use of polychaetes as indicators of eutrophication and organic enrichment of coastal waters: A study case–Romanian Black Sea coast. Analele Științifice ale Universității “Al. I. Cuza” Iași, s. Biologie animală, 51, 55-62. Reise, K. (1983). Biotic enrichment of intertidal sediments by experimental aggregates of the deposit-feeding bivalve <i>Macoma balthica</i> . Marine Ecology Progress Series, 229-236.
<i>Eteone</i> sp.	129443	Predator/scavenger		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review.
<i>Chone</i> sp.	129525	Filter/suspension feeder		Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. Annual review of marine science, 7(1), 497-520. Macdonald, T. A., Burd, B. J., Macdonald, V. I., & Van Roodselaar, A. (2010). Taxonomic and feeding guild classification for the marine benthic macroinvertebrates of the Strait of Georgia, British Columbia (p. 63). Fisheries and Oceans Canada= Pêches et océans Canada.
<i>Capitella capitata</i>	129876	Subsurface deposit feeder		Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. Annual review of marine science, 7(1), 497-520.
Harpacticoida	1102	Surface deposit feeder	Phytodetritus (bacteria, algae, diatoms)	Montagna, P. (1995). Rates of metazoan meiofaunal microbivory: a review. Vie et Milieu/Life & Environment, 1-9. Rieper, M. (1982). Feeding Preferences of Marine Harpacticoid. Marine ecologyprogress series, 7, 303-307. Marcotte, B. M. (1977). An introduction to the architecture and kinematics of harpacticoid (Copepoda) feeding: <i>Tisbe furcata</i> (Baird, 1837). Mikrofauna Meeresboden, 61, 183-196.
<i>Pontoporeia femorata</i>	103079	Subsurface deposit feeder	Sediment	Lopez, G., & Elmgren, R. (1989). Feeding depths and organic absorption for the deposit feeding benthic amphipods <i>Pontoporeia affinis</i> and <i>Pontoporeia femorata</i> . Limnology and Oceanography, 34(6), 982-991.
<i>Spiophanes</i> sp.	129626	Surface deposit feeder		Risk, M. J., & Tunnicliffe, V. J. (1978). Intertidal spiral burrows; <i>Paraonis fulgens</i> and <i>Spiophanes wigleyi</i> in the Minas Basin, Bay of Fundy. Journal of Sedimentary Research, 48(4), 1287-1292. Woodin, S. A. (1984). Effects of browsing predators: activity changes in infauna following tissue loss. The Biological Bulletin, 166(3), 558-573.
<i>Gammarus</i> sp.	740304	Omnivorous/detritivorous		MacNeil, C., Dick, J. T., & Elwood, R. W. (1997). The trophic ecology of freshwater <i>Gammarus</i> spp.(Crustacea: Amphipoda): problems and perspectives concerning the functional feeding group concept. Biological Reviews, 72(3), 349-364.
<i>Alcyonidium</i> sp.	110993	Filter/suspension feeder		Sanderson, W. G., & Thorpe, J. P. (1996). Effects of temperature on the feeding activity of some temperate intertidal Bryozoa. Bryozoans in space and time, 271-281.

<i>Ampharete finmarchica</i>	129778	Surface deposit feeder		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. <i>Oceanography and marine Biology annual review</i> .
<i>Pholoe</i> sp.	129439	Predator/scavenger		Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. <i>Annual review of marine science</i> , 7(1), 497-520.
Sabellinae spp.	154917	Filter/suspension feeder		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. <i>Oceanography and marine Biology annual review</i> .
<i>Brada villosa</i>	130099	Surface deposit feeder		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. <i>Oceanography and marine Biology annual review</i> .
<i>Euchone</i> sp.	129528	Filter/suspension feeder		Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. <i>Annual review of marine science</i> , 7(1), 497-520.
Capitellidae spp.	921	Subsurface deposit feeder		Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. <i>Annual review of marine science</i> , 7(1), 497-520.
<i>Oenopota bicarinata</i>	158012	Predator/scavenger	Polychaetes (spionids)	Shimek, R. L. (1983). The biology of the northeastern Pacific Turridae II. <i>Oenopota</i> . <i>Journal of Molluscan Studies</i> , 49(2), 146-163.
<i>Saduria sabini</i>	119036	Predator/scavenger		Premke, K., Muyakshin, S., Klages, M., & Wegner, J. (2003). Evidence for long-range chemoreceptive tracking of food odour in deep-sea scavengers by scanning sonar data. <i>Journal of Experimental Marine Biology and Ecology</i> , 285, 283-294. Haahtela, I. (1990, January). What do Baltic studies tell us about the isopod <i>Saduria entomon</i> (L.)?. In <i>Annales Zoologici Fennici</i> (pp. 269-278). Finnish Zoological Publishing Board, formed by the Finnish Academy of Sciences, Societas Scientiarum Fennica, Societas Biologica Fennica Vanamo and Societas pro Fauna et Flora Fennica.
<i>Thracia</i> sp.	138549	Filter/suspension feeder		Rueda, J. L., Gofas, S., Urrea, J., & Salas, C. (2009). A highly diverse molluscan assemblage associated with eelgrass beds (<i>Zostera marina</i> L.) in the Alboran Sea: Micro-habitat preference, feeding guilds and biogeographical distribution. <i>Scientia Marina</i> , 73(4), 679-700. Macdonald, T.A., Burd, B.J., Macdonald, V.I., Van Roodselaar, A. (2010) Taxonomic and Feeding Guild Classification for the Marine Benthic Macroinvertebrates of the Strait of Georgia, British Columbia. Canadian Technical Report of Fisheries and Aquatic Sciences, 2874:63.
<i>Nephtys ciliata</i>	130356	Predator/scavenger		Link, H., Piepenburg, D., Archambault, P. (2013) Are Hotspots Always Hotspots? The Relationship between Diversity, Resource and Ecosystem Functions in the Arctic. <i>PLoS ONE</i> , 8:e74077-.Penry, D. L., & Jumars, P. A. (1990). Gut architecture, digestive constraints and feeding ecology of deposit-feeding and carnivorous polychaetes. <i>Oecologia</i> , 82(1), 1-11. Liebermann, A. (1999). The diversity of Polychaeta and their feeding habits related to types of sediments in Mellemfjord, Disko Island, West Greenland. <i>Berichte zur Polarforschung</i> , 330, 152-163. Tamelander, T., Renaud, P., Hop, H., Carroll, M., WG, J.A., Hobson, K. (2006) Trophic relationships and pelagic–benthic coupling during summer in the Barents Sea Marginal Ice Zone, revealed by stable carbon and nitrogen isotope measurements. <i>Marine Ecology Progress Series</i> , 310:33-46.
<i>Thracia septentionalis</i>	156454	Filter/suspension feeder		Rueda, J. L., Gofas, S., Urrea, J., & Salas, C. (2009). A highly diverse molluscan assemblage associated with eelgrass beds (<i>Zostera marina</i> L.) in the Alboran Sea: Micro-habitat preference, feeding guilds and biogeographical distribution. <i>Scientia Marina</i> , 73(4), 679-700. Macdonald, T.A., Burd, B.J., Macdonald, V.I., Van Roodselaar, A. (2010) Taxonomic and Feeding Guild Classification for the Marine Benthic Macroinvertebrates of the Strait of Georgia, British Columbia. Canadian Technical Report of Fisheries and Aquatic Sciences, 2874:63.
Terebellidae spp.	982	Surface deposit feeder		Fauchald, K., Jumars, P. (1979) The Diet of Worms: a Study of Polychaete Feeding Guilds. <i>Oceanography and Marine Biology, Annual Review</i> , 17:193-284.
Lysianassidae spp.	101395	Predator/scavenger		Legezynska, J., Wfô≈Çawski, J.M., Presler, P. (2000) Benthic scavengers collected by baited traps in the high Arctic. <i>Polar Biology</i> , 23:539-544.Link, H., Piepenburg, D., Archambault, P. (2013) Are Hotspots Always Hotspots? The Relationship between Diversity, Resource and Ecosystem Functions in the Arctic. <i>PLoS ONE</i> , 8:e74077-. Macdonald, T.A., Burd, B.J., Macdonald, V.I., Van Roodselaar, A. (2010) Taxonomic and Feeding Guild Classification for the Marine Benthic Macroinvertebrates of the Strait of Georgia, British Columbia. Canadian Technical Report of Fisheries and Aquatic Sciences, 2874:63.
Oligochaeta	2036	Subsurface deposit feeder		Giere, O. (2006) Ecology and biology of marine oligochaeta ,Äi an inventory rather than another review. In: Verdonshot, P., Pinder, A., Nijboer, R. (Eds.). <i>Aquatic Oligochaete Biology IX. Developments in Hydrobiology</i> , vol 186.. Springer, Dordrecht. 103-116pp.

<i>Cyrtodaria siliqua</i>	140102	Filter/suspension feeder		Herrmann, M. (2004). Makrozoobenthos–Gemeinschaften arktischer Weichböden: Struktur und Bedeutung als Nahrungsgrundlage demersaler Fische (Doctoral dissertation, Leibnitz Institut fuer Meereswissenschaften in Kiel, IFM-GEOMAR, Alemanha.).
<i>Stegophiura nodosa</i>	124943	Surface deposit feeder		Denisenko, S. G., Denisenko, N. V., Lehtonen, K. K., Andersin, A. B., & Laine, A. O. (2003). Macrozoobenthos of the Pechora Sea (SE Barents Sea): community structure and spatial distribution in relation to environmental conditions. Marine Ecology Progress Series, 258, 109-123.
<i>Lamprospira fuscatus</i>	110517	NA		
Podocopida	1091	Parasite/commensal/symbiotic		Smith, A.J., Horne, D.J. (2002) Ecology of Marine, Marginal Marine and Nonmarine Ostracodes Alison. In: Holmes Jonathan A.; Chivas, A.R. (Eds.). The Ostracoda - Applications in Quarternary Research. American Geophysical Union, Washington, DC. 37-64pp.
Tanaidacea	1133	Omnivorous/detritivorous		Drumm, D. T. (2005). Comparison of feeding mechanisms, respiration, and cleaning behavior in two kalliapseudids, Kalliapseudes macsweenyi and Psammokalliapseudes granulosis (Peracarida: Tanaidacea). Journal of crustacean Biology, 25(2), 203-211. Blazewicz-Paszkwowycz, M., & Ligowski, R. (2002). Diatoms as food source indicator for some Antarctic Cumacea and Tanaidacea (Crustacea). Antarctic Science, 14(1), 11-15.
<i>Harpinia propinqua</i>	102974	Omnivorous/detritivorous		Navarro-Barranco, C., Tierno-de-Figueroa, J. M., Guerra-García, J. M., Sánchez-Tocino, L., & García-Gómez, J. C. (2013). Feeding habits of amphipods (Crustacea: Malacostraca) from shallow soft bottom communities: Comparison between marine caves and open habitats. Journal of Sea Research, 78, 1-7. Fanelli, E., Cartes, J. E., Badalamenti, F., Rumolo, P., & Sprovieri, M. (2009). Trophodynamics of suprabenthic fauna on coastal muddy bottoms of the southern Tyrrhenian Sea (western Mediterranean). Journal of Sea Research, 61(3), 174-187. Fanelli, E., Papiol, V., Cartes, J. E., Rumolo, P., Brunet, C., & Sprovieri, M. (2011). Food web structure of the epibenthic and infaunal invertebrates on the Catalan slope (NW Mediterranean): Evidence from $\delta^{13}C$ and $\delta^{15}N$ analysis. Deep Sea Research Part I: Oceanographic Research Papers, 58(1), 98-109.
<i>Oediceros saginatus</i>	102908	Predator/scavenger		Farlin, J. P., Lewis, L. S., Anderson, T. W., & Lai, C. T. (2010). Functional diversity in amphipods revealed by stable isotopes in an eelgrass ecosystem. Marine Ecology Progress Series, 420, 277-281. Yu, O. H., & Suh, H. L. (2006). Life history and reproduction of the amphipod Synchelidium trioostegitum (Crustacea, Oedicerotidae) on a sandy shore in Korea. Marine biology, 150, 141-148. Guerra-García, J. M., De Figueroa, J. T., Navarro-Barranco, C., Ros, M., Sánchez-Moyano, J. E., & Moreira, J. (2014). Dietary analysis of the marine Amphipoda (Crustacea: Peracarida) from the Iberian Peninsula. Journal of Sea Research, 85, 508-517.
<i>Harmothoe</i> sp.	129491	Omnivorous/detritivorous		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review.
<i>Microphthalmus</i> sp.	129313	Surface deposit feeder		Reise, K. (2002) Sediment mediated species interactions in coastal waters. Journal of Sea Research, 48:127-141. Hartmann-Schröder, G. (1996). Annelida, Borstenwürmer, Polychaeta—Tierwelt Deutschlands, Teil 58. Veb Gustav Fischer Verlag Jena, Hamburg. Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review. Ashley, M., & Marshall, C. (2007). Hesionura elongata and Microphthalmus similis with other interstitial polychaetes in infralittoral mobile coarse sand.
<i>Prionospio</i> sp.	129620	Surface deposit feeder	Phytodetritus (bacteria, algae, diatoms)	Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520.
<i>Oenopota</i> sp.	137826	Predator/scavenger		Shimek, R. (1983) THE BIOLOGY OF THE NORTHEASTERN PACIFIC TURRIDAE: OENOPOTA. Journal of Molluscan Studies, 49:146-163. Serratos, C. (2015) Spatial and temporal patterns of epibenthic community and food web structure in the Chukchi Sea between 2004-2012. Master thesis, University of Alaska Fairbanks.
Nephtyidae spp.	956	Predator/scavenger		Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. Estuarine, Coastal and Shelf Science, 114, 183-191. Penry, D. L., & Jumars, P. A. (1990). Gut architecture, digestive constraints and feeding ecology of deposit-feeding and carnivorous polychaetes. Oecologia, 82(1), 1-11. Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. Annual review of marine science, 7, 497-520.
<i>Akanthophoreus gracilis</i>	136340	Omnivorous/detritivorous		Drumm, D. T. (2005). Comparison of feeding mechanisms, respiration, and cleaning behavior in two kalliapseudids, Kalliapseudes macsweenyi and Psammokalliapseudes granulosis (Peracarida: Tanaidacea). Journal of crustacean Biology, 25(2), 203-211. Blazewicz-Paszkwowycz, M., & Ligowski, R. (2002). Diatoms as food source indicator for some Antarctic Cumacea and Tanaidacea (Crustacea). Antarctic Science, 14(1), 11-15.

<i>Prionospio cirrifera</i>	131153	Surface deposit feeder		Kokarev, V., Vedenin, A., Basin, A., Azovsky, A. (2017) Taxonomic and functional patterns of macrobenthic communities on a high-Arctic shelf: A case study from the Laptev Sea. <i>Journal of Sea Research</i> , 129:61-69. Polychaeta_IOPAN Project Webpage. http://www.iopan.gda.pl/projects/Polychaeta/
Oedicerotidae spp.	101400	Omnivorous/detritivorous	Phytodetritus & meiofauna	Farlin, J. P., Lewis, L. S., Anderson, T. W., & Lai, C. T. (2010). Functional diversity in amphipods revealed by stable isotopes in an eelgrass ecosystem. <i>Marine Ecology Progress Series</i> , 420, 277-281. Legeżyńska, J., Kędra, M., & Walkusz, W. (2012). When season does not matter: summer and winter trophic ecology of Arctic amphipods. <i>Hydrobiologia</i> , 684(1), 189-214. Link, H., Piepenburg, D., Archambault, P. (2013) Are Hotspots Always Hotspots? The Relationship between Diversity, Resource and Ecosystem Functions in the Arctic. <i>PLoS ONE</i> , 8:e74077- Chapman, J.W. (2007) <i>The Light and Smith Manual: Intertidal Invertebrates from Central California to Oregon</i> . Chapter 39: Amphipoda.
<i>Paroedicerus lynceus</i>	102911	Omnivorous/detritivorous	Phytodetritus & meiofauna	Legeżyńska, J., Kędra, M., & Walkusz, W. (2012). When season does not matter: summer and winter trophic ecology of Arctic amphipods. <i>Hydrobiologia</i> , 684(1), 189-214.
Calanoida	1100	NA	Very broad	
<i>Philomedes</i> sp.	127524	Predator/scavenger		Macquart-Moulin, C. (1999). Diel vertical migration and endogenous swimming rhythm in <i>Asterope mariae</i> (Baird) and <i>Philomedes interpuncta</i> (Baird)(Crustacea Ostracoda Cypridinidae). <i>Journal of Plankton Research</i> , 21(10).
<i>Scoloplos</i> sp.	129425	Subsurface deposit feeder		Thomsen, H. A., & Brandt, A. (1999). The 1998 Danish-German excursion to Disko Island, West Greenland. In <i>The 1998 Danish-German Excursion to Disko Island, West Greenland</i> (pp. 1-10). Alfred Wegener Institut für Polar und Meeresforschung. Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. <i>Annual Review of Marine Science</i> , 7:497-520.
<i>Amphiura sundevalli</i>	125100	Surface deposit feeder		Sokołowski, A., Szczepańska, A., Richard, P., Kędra, M., Wołowicz, M., & Węśławski, J. M. (2014). Trophic structure of the macrobenthic community of Hornsund, Spitsbergen, based on the determination of stable carbon and nitrogen isotopic signatures. <i>Polar Biology</i> , 37, 1247-1260. Kędra, M., Gromisz, S., Jaskała, R., Legeżyńska, J., Maciejewska, B., Malec, E., ... & Węśławski, J. M. (2010). Soft bottom macrofauna of an All Taxa biodiversity site: Hornsund (77 N, Svalbard). <i>Polish Polar Research</i> , 309-326.
<i>Astarte elliptica complex</i>	137683	Filter/suspension feeder	Brown macroalgae	Huber, M. (2010) <i>Compendium of Bivalves</i> . ConchBooks, Hackenheim. 901pp. Gaillard, B., Meziane, T., Tremblay, R., Archambault, P., Blicher, M. E., Chauvaud, L., ... & Olivier, F. (2017). Food resources of the bivalve <i>Astarte elliptica</i> in a sub-Arctic fjord: a multi-biomarker approach. <i>Marine Ecology Progress Series</i> , 567, 139-156.
<i>Laphania boeckii</i>	131496	Surface deposit feeder		Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. <i>Estuarine, Coastal and Shelf Science</i> , 114, 183-191. Holte, B., Oug, E., & Dahle, S. (2005). Soft-bottom fauna and oxygen minima in sub-arctic north Norwegian marine sill basins. <i>Marine Biology Research</i> , 1(2), 85-96. Oug, E., Sundet, J. H., & Cochrane, S. K. (2018). Structural and functional changes of soft-bottom ecosystems in northern fjords invaded by the red king crab (<i>Paralithodes camtschaticus</i>). <i>Journal of Marine Systems</i> , 180, 255-264.
Paraonidae spp.	903	Subsurface deposit feeder		Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. <i>Annual Review of Marine Science</i> , 7:497-520. Thomsen, H. A., & Brandt, A. (1999). The 1998 Danish-German excursion to Disko Island, West Greenland. In <i>The 1998 Danish-German Excursion to Disko Island, West Greenland</i> (pp. 1-10). Alfred Wegener Institut für Polar und Meeresforschung.
<i>Syllides</i> sp.	129679	Surface deposit feeder		Haines, J. L., & Maurer, D. (1980). Benthic invertebrates associated with a serpulid polychaete assemblage in a temperate estuary. <i>Internationale Revue der gesamten Hydrobiologie und Hydrographie</i> , 65(5), 643-656.
Maldanidae spp.	923	Subsurface deposit feeder		Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. <i>Annual Review of Marine Science</i> , 7:497-520. Thomsen, H. A., & Brandt, A. (1999). The 1998 Danish-German excursion to Disko Island, West Greenland. In <i>The 1998 Danish-German Excursion to Disko Island, West Greenland</i> (pp. 1-10). Alfred Wegener Institut für Polar und Meeresforschung.
<i>Thelepus cincinnatus</i>	131543	Surface deposit feeder		Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. <i>Annual Review of Marine Science</i> , 7:497-520. Pabis, K., & Sicinski, J. (2010). Distribution and diversity of polychaetes collected by trawling in Admiralty Bay: an Antarctic glacial fjord. <i>Polar Biology</i> , 33, 141-151.
<i>Ophiura</i> sp.	123574	Predator/scavenger		Boos, K., Gutow, L., Mundry, R., & Franke, H. D. (2010). Sediment preference and burrowing behaviour in the sympatric brittlestars <i>Ophiura albida</i> Forbes, 1839 and <i>Ophiura ophiura</i> (Linnaeus, 1758)(Ophiuroidea, Echinodermata). <i>Journal of Experimental Marine Biology and Ecology</i> , 393(1-2), 176-181.

				Harris, J. L., MacIsaac, K., Gilkinson, K. D., & Kenchington, E. L. (2009). Feeding biology of <i>Ophiura sarsii</i> Lütken, 1855 on Banquereau bank and the effects of fishing. <i>Marine biology</i> , 156, 1891-1902. Feder, H. M. (1981). Aspects of the feeding biology of the brittle star <i>Ophiura texturata</i> . <i>Ophelia</i> , 20(2), 215-235. Pearson, M., & Gage, J. D. (1984). Diets of some deep-sea brittle stars in the Rockall Trough. <i>Marine Biology</i> , 82, 247-258.
Mytilidae spp.	211	Filter/suspension feeder		Beesley P.L.; Ross G.J.B.; Wells, A.(1998) Mollusca - The Southern Synthesis. CSIRO Publishing, Melbourne. 1-1234pp.
<i>Photis</i> sp.	101563	Filter/suspension feeder		Wildish, D.J., Dadswell, M.J. (1985) Sublittoral Gammaridean Amphipods of soft sediments in the Bay of Fundy. <i>Proceedings of the National Institute of Science</i> , 35:1-15. Sivasdas, S.K., Ingole, B.S., Fernandes, C.E.G. (2013) Environmental Gradient Favours Functionally Diverse Macrobenthic Community in a Placer Rich Tropical Bay. <i>The Scientific World Journal</i> , 2013:1-12.
Oweniidae spp.	975	Surface deposit feeder		Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. <i>Annual Review of Marine Science</i> , 7:497-520. Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. <i>Oceanography and marine Biology annual review</i> .
<i>Musculus discors</i>	140472	Filter/suspension feeder		Tyler-Walters, H. (2001). <i>Musculus discors</i> . Green crenella. Aitken, A. E., & Fournier, J. (1993). Macrobenthos communities of Cambridge, McBeth and Itirbilung Fiords, Baffin Island, Northwest Territories, Canada. <i>Arctic</i> , 60-71.
<i>Buccinum glaciale</i>	138864	Predator/scavenger		Heller, J. (2015) <i>Sea Snails. A natural history</i> . Springer International Publishing, Cham. 354pp.
<i>Owenia borealis</i>	329882	Surface deposit feeder		Link, H., Piepenburg, D., Archambault, P. (2013) Are Hotspots Always Hotspots? The Relationship between Diversity, Resource and Ecosystem Functions in the Arctic. <i>PLoS ONE</i> , 8:e74077-.
<i>Anonyx nugax</i>	102514	Predator/scavenger		Nygård, H., Berge, J., Søreide, J. E., Vihtakari, M., & Falk-Petersen, S. (2012). The amphipod scavenging guild in two Arctic fjords: seasonal variations, abundance and trophic interactions. <i>Aquatic Biology</i> , 14(3), 247-264. Sainte-Marie, B., Lamarche, G. (1985) The diets of six species of the carrion-feeding lysianassid amphipod genus <i>Anonyx</i> and their relation with morphology and swimming behaviour. <i>Sarsia</i> , 70:119-126.
Porifera	558	Filter/suspension feeder		
<i>Oedicerus borealis</i>	102906	Omnivorous/detritivorous	Red algae	Farlin, J. P., Lewis, L. S., Anderson, T. W., & Lai, C. T. (2010). Functional diversity in amphipods revealed by stable isotopes in an eelgrass ecosystem. <i>Marine Ecology Progress Series</i> , 420, 277-281.
<i>Lichenopora crassiuscula</i>	156210	Filter/suspension feeder		Hayward, P.J., Ryland, J.S., Taylor, P.D. (1994) <i>Biology and Palaeobiology of Bryozoans</i> . Olsen & Olsen, Fredensborg. 240pp.
<i>Hiatella arctica</i>	140103	Filter/suspension feeder	Phytodetritus	Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. <i>Estuarine, Coastal and Shelf Science</i> , 114, 183-191. McMeans, B. C., Rooney, N., Arts, M. T., & Fisk, A. T. (2013). Food web structure of a coastal Arctic marine ecosystem and implications for stability. <i>Marine Ecology Progress Series</i> , 482, 17-28.
<i>Margarites helicinus</i>	141821	Grazer		Wiencke, C., Hop, H. (2016) Ecosystem Kongsfjorden: new views after more than a decade of research. <i>Polar Biology</i> , 39:1679-1687.
Serpulidae spp.	988	Filter/suspension feeder		Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. <i>Annual Review of Marine Science</i> , 7:497-520.
<i>Nebalia bipes</i>	147032	Surface deposit feeder		Vassilenko S V & Petryashov, V.V. (2009) <i>Illustrated Keys to Free-Living Invertebrates of Eurasian Arctic Seas and Adjacent Deep Waters</i> , Vol. 1 Rotifera, Pycnogonida, Cirripedia, Leptostraca, Mysidacea, Hyperidea, Caprellidea, Euphausiacea, Dendrobranchiata, Pleocyemata, Anomura, and Brachyura. Alaska Sea Grant College Program, Fairbanks. 186pp.
Ampharetidae spp.	152252	Surface deposit feeder		Fauchald, K., Jumars, P. (1979) <i>The Diet of Worms : a Study of Polychaete Feeding Guilds</i> . <i>Oceanography and Marine Biology, Annual Review</i> , 17:193-284.
Hydrobiidae spp.	120	Subsurface deposit feeder		Newell, R. (1965, January). The role of detritus in the nutrition of two marine deposit feeders, the prosobranch <i>Hydrobia ulvae</i> and the bivalve <i>Macoma balthica</i> . In <i>Proceedings of the Zoological Society of London</i> (Vol. 144, No. 1, pp. 25-45). Oxford, UK: Blackwell Publishing Ltd. Forbes, V. E., & Lopez, G. R. (1986). Changes in feeding and crawling rates of <i>Hydrobia truncata</i> (Prosobranchia: Hydrobiidae) in response to sedimentary chlorophyll-a and recently egested sediment. <i>Mar Ecol Prog Ser</i> , 33, 287-294.
<i>Parexogone hebes</i>	131302	Subsurface deposit feeder		Maurer, D., & Leathem, W. (1981). Polychaete feeding guilds from Georges Bank, USA. <i>Marine Biology</i> , 62(2), 161-171.

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<i>Eusyllis</i> sp.	129653	Predator/scavenger		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review. Macdonald, T. A., Burd, B. J., Macdonald, V. I., & Van Roodselaar, A. (2010). Taxonomic and feeding guild classification for the marine benthic macroinvertebrates of the Strait of Georgia, British Columbia (p. 63). Fisheries and Oceans Canada= Pêches et océans Canada.
<i>Ampharete sibirica</i>	332933	Surface deposit feeder		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review. Macdonald, T. A., Burd, B. J., Macdonald, V. I., & Van Roodselaar, A. (2010). Taxonomic and feeding guild classification for the marine benthic macroinvertebrates of the Strait of Georgia, British Columbia (p. 63). Fisheries and Oceans Canada= Pêches et océans Canada.
<i>Ampharete</i> sp.	129155	Surface deposit feeder		Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review. Macdonald, T. A., Burd, B. J., Macdonald, V. I., & Van Roodselaar, A. (2010). Taxonomic and feeding guild classification for the marine benthic macroinvertebrates of the Strait of Georgia, British Columbia (p. 63). Fisheries and Oceans Canada= Pêches et océans Canada.
<i>Ophryotrocha</i> sp.	129266	Surface deposit feeder		Salvo, F., Hamoutene, D., & Dufour, S. C. (2015). Trophic analyses of opportunistic polychaetes (<i>Ophryotrocha cyclops</i>) at salmonid aquaculture sites. Journal of the Marine Biological Association of the United Kingdom, 95(4), 713-722. Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review. Macdonald, T. A., Burd, B. J., Macdonald, V. I., & Van Roodselaar, A. (2010). Taxonomic and feeding guild classification for the marine benthic macroinvertebrates of the Strait of Georgia, British Columbia (p. 63). Fisheries and Oceans Canada= Pêches et océans Canada.
<i>Dipolydora quadrilobata</i>	131121	Filter/suspension feeder		Riordan Jr, T. J., & Lindsay, S. M. (2002). Feeding responses to particle-bound cues by a deposit-feeding spionid polychaete, <i>Dipolydora quadrilobata</i> (Jacobi 1883). Journal of Experimental Marine Biology and Ecology, 277(1), 79-95. Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review. Macdonald, T. A., Burd, B. J., Macdonald, V. I., & Van Roodselaar, A. (2010). Taxonomic and feeding guild classification for the marine benthic macroinvertebrates of the Strait of Georgia, British Columbia (p. 63). Fisheries and Oceans Canada= Pêches et océans Canada.
<i>Spirorbis</i> sp.	129642	Filter/suspension feeder		Ni, S., Taubner, I., Böhm, F., Winde, V., & Böttcher, M. E. (2018). Effect of temperature rise and ocean acidification on growth of calcifying tubeworm shells (<i>Spirorbis spirorbis</i>): an in situ benthocosm approach. Biogeosciences, 15(5), 1425-1445.
<i>Macoma</i> sp.	138531	Surface deposit feeder		Rossi, F., Herman, P. M. J., & Middelburg, J. J. (2004). Interspecific and intraspecific variation of δC and δN in deposit-and suspension-feeding bivalves (<i>Macoma balthica</i> and <i>Cerastoderma edule</i>): Evidence of ontogenetic changes in feeding mode of <i>Macoma balthica</i> . Limnology and Oceanography, 49(2), 408-414. Hummel, H. (1985). Food intake of <i>Macoma balthica</i> (Mollusca) in relation to seasonal changes in its potential food on a tidal flat in the Dutch Wadden Sea. Netherlands Journal of Sea Research, 19(1), 52-76.
<i>Macoma calcarea</i>	141580	Surface deposit feeder		Iken, K., Bluhm, B., Dunton, K. (2010) Benthic food-web structure under differing water mass properties in the southern Chukchi Sea. Deep Sea Research Part II: Topical Studies in Oceanography, 57:71-85. Sun, M., Clough, L.M., Carroll, M.L., Dai, J., Ambrose, W.G., Lopez, G.R. (2009) Different responses of two common Arctic macrobenthic species (<i>Macoma balthica</i> and <i>Monoporeia affinis</i>) to phytoplankton and ice algae: Will climate change impacts be species specific? Journal of Experimental Marine Biology and Ecology, 376:110-121. Naumov, A., Scarlato, O., Fedyakov, V. (1987) Class Bivalvia. In: Scarlato, O., Naumov, A. (Eds.). Molluscs of the White Sea. Opredeliteli po faune SSSR, izdavaemye zoologicheskoin institutom Akademii nauk SSSR, 151. Nauka, Leningrad. 205-258pp.
<i>Balanus crenatus</i>	106215	Filter/suspension feeder		Glasstetter, M., & Senn, D. G. (1986). Oral feeding apparatus and feeding behaviour of <i>Balanus crenatus</i> (Cirripedia, Crustacea) on the coast of Luc-sur-Mer (Normandy, France). Vie et Milieu/Life & Environment, 75-79.
<i>Ophelia</i> sp.	129413	Subsurface deposit feeder		Clifton, H. E., & Thompson, J. K. (1978). <i>Macaronichnus segregatis</i> : a feeding structure of shallow marine polychaetes. Journal of Sedimentary Research, 48(4), 1293-1302. Würzberg, L., Peters, J., Schüller, M., & Brandt, A. (2011). Diet insights of deep-sea polychaetes derived from fatty acid analyses. Deep Sea Research Part II: Topical Studies in Oceanography, 58(1-2), 153-162.

<i>Ophelia limacina</i>	130494	Subsurface deposit feeder		Clifton, H. E., & Thompson, J. K. (1978). Macaronichnus segregatis; a feeding structure of shallow marine polychaetes. Journal of Sedimentary Research, 48(4), 1293-1302. Würzberg, L., Peters, J., Schüller, M., & Brandt, A. (2011). Diet insights of deep-sea polychaetes derived from fatty acid analyses. Deep Sea Research Part II: Topical Studies in Oceanography, 58(1-2), 153-162.
<i>Schistomeringos caeca</i>	130043	Subsurface deposit feeder		Gaston, G. R. (1987). Benthic polychaeta of the Middle Atlantic Bight: feeding and distribution. Marine Ecology Progress Series, 36(3), 251-262.
Nemertea	152391	Predator/scavenger		Thiel, M., & Kruse, I. (2001). Status of the Nemertea as predators in marine ecosystems. Hydrobiologia, 456(1), 21-32.
<i>Scalibregma inflatum</i>	130980	Subsurface deposit feeder		Blair, N. E., Levin, L. A., DeMaster, D. J., & Plaia, G. (1996). The short-term fate of fresh algal carbon in continental slope sediments. Limnology and Oceanography, 41(6), 1208-1219.
<i>Terebellides stroemii</i>	131573	Surface deposit feeder		Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. Annual review of marine science, 7, 497-520. Dales, R. P. (1955). Feeding and digestion in terebellid polychaetes. Journal of the marine Biological Association of the United Kingdom, 34(1), 55-79.
<i>Tachyrhynchus erosus</i>	196391	Filter/suspension feeder		Allmon, W. D. (1988). Ecology of Recent turrilline gastropods (Prosobranchia, Turritellidae): current knowledge and paleontological implications. Palaios, 259-284. Allmon, W. D. (2011). Natural history of turrilline gastropods (Cerithioidea: Turritellidae): a status report. Malacologia, 54(1-2), 159-202. Iken, K., Bluhm, B., & Dunton, K. (2010). Benthic food-web structure under differing water mass properties in the southern Chukchi Sea. Deep Sea Research Part II: Topical Studies in Oceanography, 57(1-2), 71-85. Link, H., Piepenburg, D., & Archambault, P. (2013). Are hotspots always hotspots? The relationship between diversity, resource, and ecosystem functions in the Arctic. PLoS One, 8(9), e74077.
<i>Corophium</i> sp.	101489	Filter/suspension feeder		Fenchel, T., Kofoed, L. H., & Lappalainen, A. (1975). Particle size-selection of two deposit feeders: the amphipod Corophium volutator and the prosobranch Hydrobia ulvae. Marine Biology, 30(2), 119-128.
<i>Erginus rubellus</i>	140275	Grazer		Kaczmarek, H., Włodarska-Kowalczyk, M., Legeżyńska, J., & Zajączkowski, M. (2005). Shallow sublittoral macrozoobenthos in Kongsfjord, west Spitsbergen, Svalbard. Polish Polar Research, 137-155.
<i>Testudinalia testudinalis</i>	234208	Grazer	Coralline, macroalgae	Lord, J. P., Lyczkowski, E. R., & Wilson Jr, W. H. (2011). Behavior and microhabitat selection of the tortoiseshell limpet Testudinalia testudinalis in the northwest Atlantic intertidal zone. Journal of experimental marine biology and ecology, 407(2), 234-240.
<i>Paraonides nordica</i>	330349	Subsurface deposit feeder		Gaston, G. R., McLelland, J. A., & Heard, R. W. (1992). Feeding biology, distribution, and ecology of two species of benthic polychaetes: Paraonis fulgens and Paraonis pygoenigmatica (Polychaeta: Paraonidae). Gulf and Caribbean Research, 8(4), 395-399. Flint, R. W., & Rabalais, N. N. (1980). Polychaete ecology and niche patterns: Texas continental shelf. Mar. Ecol. Prog. Ser, 3(3), 193-202. JUMARS, P. A. Environmental grain and polychaete species' diversity in a bathyal benthic community. Marine Biology, 1975, vol. 30, p. 253-266.
<i>Lysippe</i> sp.	129166	Surface deposit feeder		Liebermann, A. (1999). The diversity of Polychaeta and their feeding habits related to types of sediments in Mellemfjord, Disko Island, West Greenland. Berichte zur Polarforschung, 330, 152-163. Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. Estuarine, Coastal and Shelf Science, 114, 183-191.
<i>Praxillella</i> sp.	129360	Subsurface deposit feeder		Hughes, T. G. (1979). Mode of life and feeding in maldanid polychaetes from St. Margaret's Bay, Nova Scotia. Journal of the Fisheries Board of Canada, 36(12), 1503-1507. Iken, K., Bluhm, B., & Dunton, K. (2010). Benthic food-web structure under differing water mass properties in the southern Chukchi Sea. Deep Sea Research Part II: Topical Studies in Oceanography, 57(1-2), 71-85.
<i>Praxillella praetermissa</i>	130326	Subsurface deposit feeder		Kokarev, V., Vedenin, A., Basin, A., Azovsky, A. (2017) Taxonomic and functional patterns of macrobenthic communities on a high-Arctic shelf: A case study from the Laptev Sea. Journal of Sea Research, 129:61-69. Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520.
<i>Praxillella affinis</i>	130322	Subsurface deposit feeder		Macdonald, T.A., Burd, B.J., Macdonald, V.I., Van Roodselaar, A. (2010) Taxonomic and Feeding Guild Classification for the Marine Benthic Macroinvertebrates of the Strait of Georgia, British Columbia. Canadian Technical Report of Fisheries and Aquatic Sciences, 2874:63.
<i>Euchone analis</i>	130903	Filter/suspension feeder		McMahon KW, Ambrose WG, Johnson BJ, Sun M-Y, Lopez GR, et al. 2006. Benthic community response to ice algae and phytoplankton in Ny Ålesund, Svalbard. Mar. Ecol. Prog. Ser. 310:1–14
<i>Chaetozone</i> sp.	129242	Surface deposit feeder		Iken, K., Bluhm, B., & Dunton, K. (2010). Benthic food-web structure under differing water mass properties in the southern Chukchi Sea. Deep Sea Research Part II: Topical Studies in Oceanography, 57(1-2), 71-85.

<i>Travisia forbesii</i>	130512	Surface deposit feeder	Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. Annual review of marine science, 7, 497-520.
<i>Rostroculodes schneideri</i>	423729	NA	
<i>Monoculodes borealis</i>	102881	Surface deposit feeder	Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. Estuarine, Coastal and Shelf Science, 114, 183-191. Bousfield, E. L., & Chevrier, A. (1996). The amphipod family Oedicerotidae on the Pacific coast of North America. Part 1. The Monoculodes and Synchelidium generic complexes: Systematics and distributional ecology. AMPHIPACIFICA-VICTORIA BC-, 2, 75-148.
<i>Monoculodes</i> sp.	101694	Predator/scavenger	Beare, D. J., & Moore, P. G. (1994). Observations on the biology of a rare British marine amphipod: <i>Monoculodes gibbosus</i> (Crustacea: Amphipoda: Oedicerotidae). Journal of the Marine Biological Association of the United Kingdom, 74(1), 193-201. Beare, D. J., & Moore, P. G. (1998). The life histories of the offshore oedicerotids <i>Westwoodilla caecula</i> and <i>Monoculodes packardii</i> (Crustacea: Amphipoda) from Loch Fyne, Scotland. Journal of the Marine Biological Association of the United Kingdom, 78(3), 835-852. Navarro-Barranco, C., Tierno-de-Figueroa, J. M., Guerra-García, J. M., Sánchez-Tocino, L., & García-Gómez, J. C. (2013). Feeding habits of amphipods (Crustacea: Malacostraca) from shallow soft bottom communities: Comparison between marine caves and open habitats. Journal of Sea Research, 78, 1-7.
<i>Protomeдея</i> sp.	101574	Surface deposit feeder	Feder, H. M., Jewett, S. C., & Blanchard, A. L. (2007). Southeastern Chukchi Sea (Alaska) macrobenthos. Polar Biology, 30(3), 261-275.
<i>Protomeдея fasciata</i>	102443	Surface deposit feeder	Serratos, C. (2015) Spatial and temporal patterns of epibenthic community and food web structure in the Chukchi Sea between 2004-2012. Master thesis, University of Alaska Fairbanks. Stoker, S.W. (1978) Benthic invertebrate macrofauna of the Eastern continental shelf of the Bering and Chukchi Seas. Doctoral thesis, University of Alaska. 259 pp.
<i>Protomeдея grandimana</i>	102444	Filter/suspension feeder	Serratos, C. (2015) Spatial and temporal patterns of epibenthic community and food web structure in the Chukchi Sea between 2004-2012. Master thesis, University of Alaska Fairbanks.
<i>Pholoe minuta</i>	130603	Predator/scavenger	Pleijel, F. (1983). On feeding of <i>Pholoe minuta</i> (Fabricus, 1780)(Polychaeta: Sigalioidae). Sarsia, 68(1), 21-23.
<i>Mya truncata</i>	140431	Filter/suspension feeder	Wood, J. M. (2020). Keeping Arctic fisheries as happy as a clam: assessing the life history and density of truncated soft-shell clams (<i>Mya truncata</i>) of southern Baffin Island, Nunavut, to promote sustainable fishery development (Doctoral dissertation, Memorial University of Newfoundland). Birkely, S. R., Grahl-Nielsen, O., & Gulliksen, B. (2003). Temporal variations and anatomical distributions of fatty acids in the bivalve <i>Mya truncata</i> , L. 1758, from Isfjorden, Spitsbergen. Polar Biology, 26(2), 83-92.
<i>Mya</i> sp.	138211	Filter/suspension feeder	Yonge, C. M. (1923). Studies on the Comparative Physiology of Digestion: I.--The Mechanism of Feeding, Digestion, and Assimilation in the Lamellibranch <i>Mya</i> . Journal of Experimental Biology, 1(1), 15-64.
<i>Mya pseudoarenaria</i>	156249	Filter/suspension feeder	Renz, J., Powilleit, M., Gogina, M., Zettler, M., Morys, C., Forster, S. (2018) Community bioirrigation potential (BIPc), an index to quantify the potential for solute exchange at the sediment-water interface. Marine Environmental Research, :-. Fish, J., Fish, S. (2011) A student's Guide to the Seashore. Cambridge University Press, Cambridge. 527pp.
<i>Caulleriella</i> sp.	129241	Surface deposit feeder	Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review. Dolbeth, M., Teixeira, H., Marques, J. C., & Pardal, M. Â. (2009). Feeding guild composition of a macrobenthic subtidal community along a depth gradient. Scientia Marina, 73(2), 225-237.
<i>Axinopsida</i> sp.	138550	Chemosymbiotic	Kamenev, G. M. (1995). Fatty acids as markers of food sources in a shallow-water hydrothermal ecosystem (Kraternaya Bight, Yankich Island, Kurile Islands). Marine Ecology Progress Series, 120, 231-241. Zhukova, N. V., Kharlamenko, V. I., Svetashev, V. I., & Rodionov, I. A. (1992). Fatty acids as markers of bacterial symbionts of marine bivalve molluscs. Journal of Experimental Marine Biology and Ecology, 162(2), 253-263.
<i>Axinopsida orbiculata</i>	141652	Chemosymbiotic	Kamenev, G. M. (1995). Fatty acids as markers of food sources in a shallow-water hydrothermal ecosystem (Kraternaya Bight, Yankich Island, Kurile Islands). Marine Ecology Progress Series, 120, 231-241. Zhukova, N. V., Kharlamenko, V. I., Svetashev, V. I., & Rodionov, I. A. (1992). Fatty acids as markers of bacterial symbionts of marine bivalve molluscs. Journal of Experimental Marine Biology and Ecology, 162(2), 253-263.
<i>Aphelochaeta</i> sp.	129240	Filter/suspension feeder	Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. Annual review of marine science, 7, 497-520.

				Magalhães, W. F., & Bailey-Brock, J. H. (2017). Particle selection and feeding behaviour in two cirratulid polychaetes. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 97(5), 1069-1074.
<i>Scoloplos armiger</i>	334772	Subsurface deposit feeder		Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. <i>Estuarine, Coastal and Shelf Science</i> , 114, 183-191. Herman, P. M., Middelburg, J. J., Widdows, J., Lucas, C. H., & Heip, C. H. (2000). Stable isotopes as trophic tracers: combining field sampling and manipulative labelling of food resources for macrobenthos. <i>Marine Ecology Progress Series</i> , 204, 79-92. Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. <i>Annual review of marine science</i> , 7(1), 497-520.
<i>Priapulus caudatus</i>	101160	Predator/scavenger		Iken, K., Bluhm, B., & Dunton, K. (2010). Benthic food-web structure under differing water mass properties in the southern Chukchi Sea. <i>Deep Sea Research Part II: Topical Studies in Oceanography</i> , 57(1-2), 71-85. Shirley, T. C. (1990). Ecology of <i>Priapulus caudatus</i> Lamarck, 1816 (Priapulida) in an Alaskan subarctic ecosystem. <i>Bulletin of Marine Science</i> , 47(1), 149-158.
<i>Ennucula tenuis</i>	140584	Surface deposit feeder		Oxtoby, L. E., Budge, S. M., Iken, K., Brien, D. O., & Wooller, M. J. (2016). Feeding ecologies of key bivalve and polychaete species in the Bering Sea as elucidated by fatty acid and compound-specific stable isotope analyses. <i>Marine Ecology Progress Series</i> , 557, 161-175.
<i>Onisimus littoralis</i>	102646	Omnivorous/detritivorous		Carey, A. G., & Boudrias, M. A. (1987). Feeding ecology of <i>Pseudalibrotus</i> (= <i>Onisimus</i>) <i>littoralis</i> Krøyer (Crustacea: Amphipoda) on the Beaufort Sea inner continental shelf. <i>Polar Biology</i> , 8(1), 29-33. Gradinger, R., & Bluhm, B. (2010). Timing of ice algal grazing by the Arctic nearshore benthic amphipod <i>Onisimus littoralis</i> . <i>Arctic</i> , 355-358.
<i>Spio</i> sp.	129625	Surface deposit feeder		Dauer, D. M. (2000). Functional morphology and feeding behavior of <i>Spio setosa</i> (Polychaeta: Spionidae). <i>Bulletin of marine science</i> , 67(1), 269-275. Dauer, D. M., Maybury, C. A., & Ewing, R. M. (1981). Feeding behavior and general ecology of several spionid polychaetes from the Chesapeake Bay. <i>Journal of Experimental Marine Biology and Ecology</i> , 54(1), 21-38.
<i>Rhodine</i> sp.	129363	Subsurface deposit feeder		Josefson, A. B., Forbes, T. L., & Rosenberg, R. (2002). Fate of phytodetritus in marine sediments: functional importance of macrofaunal community. <i>Marine Ecology Progress Series</i> , 230, 71-85.
Aoridae spp.	101368	Surface deposit feeder		Myers, A. A. (1981). Amphipod Crustacea I. Family Aoridae. Norderhaug, K. M., Fredriksen, S., & Nygaard, K. (2003). Trophic importance of <i>Laminaria hyperborea</i> to kelp forest consumers and the importance of bacterial degradation to food quality. <i>Marine Ecology Progress Series</i> , 255, 135-144. Taylor, R. B., & Brown, P. J. (2006). Herbivory in the gammarid amphipod <i>Aora typica</i> : relationships between consumption rates, performance and abundance across ten seaweed species. <i>Marine Biology</i> , 149(3), 455-463.
<i>Aricidea</i> sp.	129430	Surface deposit feeder		Blair, N. E., Levin, L. A., DeMaster, D. J., & Plaia, G. (1996). The short-term fate of fresh algal carbon in continental slope sediments. <i>Limnology and Oceanography</i> , 41(6), 1208-1219. Levin, L. A., Blair, N. E., Martin, C. M., DeMaster, D. J., Plaia, G., & Thomas, C. J. (1999). Macrofaunal processing of phytodetritus at two sites on the Carolina margin: in situ experiments using ¹³ C-labeled diatoms. <i>Marine Ecology Progress Series</i> , 182, 37-54. Pagliosa, P. R. (2005). Another diet of worms: the applicability of polychaete feeding guilds as a useful conceptual framework and biological variable. <i>Marine Ecology</i> , 26(3-4), 246-254.
<i>Aricidea hartmani</i>	130561	Surface deposit feeder		Kokarev, V., Vedenin, A., Basin, A., Azovsky, A. (2017) Taxonomic and functional patterns of macrobenthic communities on a high-Arctic shelf: A case study from the Laptev Sea. <i>Journal of Sea Research</i> , 129:61-69.
<i>Aricidea nolani</i>	157218	NA		
<i>Monoporeia affinis</i>	103077	Surface deposit feeder	Fresh phytodetritus	Byrén, L., Ejdung, G., & Elmgren, R. (2006). Uptake of sedimentary organic matter by the deposit-feeding Baltic amphipods <i>Monoporeia affinis</i> and <i>Pontoporeia femorata</i> . <i>Marine Ecology Progress Series</i> , 313, 135-143. Kotta, J., & Ólafsson, E. (2003). Competition for food between the introduced polychaete <i>Marenzelleria viridis</i> (Verrill) and the native amphipod <i>Monoporeia affinis</i> Lindström in the Baltic Sea. <i>Journal of Sea Research</i> , 50(1), 27-35.
<i>Pygospio elegans</i>	131170	Surface deposit feeder		Piesik, Z., & Obolewski, K. (2007). Is the bristleworm <i>Pygospio elegans</i> Claparede (Spionidae) really a deposit-feeder? <i>Baltic Coastal Zone. Journal of Ecology and Protection of the Coastline</i> , 11.
<i>Cistenides granulata</i>	238377	Subsurface deposit feeder		Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. <i>Annual Review of Marine Science</i> , 7:497-520.
<i>Onoba</i> sp.	138451	Surface deposit feeder		Stolyarov, A. (2017) Peculiarities of the Structure of and Trends in the Macrobenthos Community of the Ermolinskaya Bay Lagoon Ecosystem, Kandalaksha Bay, White Sea. <i>Biology Bulletin</i> , 44:1019-1034.

<i>Myriapora</i> sp.	110949	Filter/suspension feeder		Hayward, P.J., Ryland, J.S., Taylor, P.D. (1994) <i>Biology and Palaeobiology of Bryozoans</i> . Olsen & Olsen, Fredensborg. 240pp.
<i>Margarites</i> sp.	138592	Grazer		Weslawski, J.M., Kwasniewski, S., Stempniewicz, L., Blachowiak-Samolyk, K. (2006) Biodiversity and energy transfer to top trophic levels in two contrasting Arctic fjords. <i>Polish Polar Research</i> , 27:259-278. Graham, A. (1988) <i>Molluscs: Prosobranch and Pyramidellid Gastropods</i> . E.J. Brill/Dr W. Backhuys, Leiden, New York, K ^v [benhavn, K ^v ∂ln. 662pp.
<i>Glycera capitata</i>	130118	Predator/scavenger		Renaud, P.E., Tessmann, M., Evenset, A., Christensen, G.N. (2010) Benthic food-web structure of an Arctic fjord (Kongsfjorden, Svalbard). <i>Marine Biology Research</i> , 7:13-26. Jumars, P. A., Dorgan, K. M., & Lindsay, S. M. (2015). Diet of worms emended: an update of polychaete feeding guilds. <i>Annual review of marine science</i> , 7, 497-520.
Rissoidae spp.	123	Grazer		Thormar, J., Hasler-Sheetal, H., Baden, S., Boström, C., Clausen, K. K., Krause-Jensen, D., ... & Holmer, M. (2016). Eelgrass (<i>Zostera marina</i>) food web structure in different environmental settings. <i>PLoS One</i> , 11(1), e0146479. Hoffman, L., & Freiwald, A. Bathyal species in Rissoidae (Gastropoda) from Azorean seamounts. Warén, A. (1996). Ecology and systematics of the north European species of Rissoa and Pusillina (Prosobranchia: Rissoidae). <i>Journal of the Marine Biological Association of the United Kingdom</i> , 76(4), 1013-1059.
<i>Filicium serpens</i>	117690	Filter/suspension feeder	Epiphyte on algae	Llobet, I., Gili, J. M., & Hughes, R. G. (1991). Horizontal, vertical and seasonal distributions of epiphytic hydrozoa on the alga <i>Halimeda tuna</i> in the Northwestern Mediterranean Sea. <i>Marine Biology</i> , 110(1), 151-159.
Tubuliporidae spp.	110814	Filter/suspension feeder		Hayward, P.J., Ryland, J.S., Taylor, P.D. (1994) <i>Biology and Palaeobiology of Bryozoans</i> . Olsen & Olsen, Fredensborg. 240pp.
Spirorbinae spp.	989	Filter/suspension feeder	Epiphyte on algae	Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. <i>Oceanography and marine Biology annual review</i> .
<i>Schizoporella</i> sp.	110975	Filter/suspension feeder		Hayward, P.J., Ryland, J.S., Taylor, P.D. (1994) <i>Biology and Palaeobiology of Bryozoans</i> . Olsen & Olsen, Fredensborg. 240pp. Macdonald, T.A., Burd, B.J., Macdonald, V.I., Van Roodselaar, A. (2010) Taxonomic and Feeding Guild Classification for the Marine Benthic Macroinvertebrates of the Strait of Georgia, British Columbia. Canadian Technical Report of Fisheries and Aquatic Sciences, 2874:63.
<i>Rhamphostomella</i> sp.	110836	Filter/suspension feeder		Hayward, P.J., Ryland, J.S., Taylor, P.D. (1994) <i>Biology and Palaeobiology of Bryozoans</i> . Olsen & Olsen, Fredensborg. 240pp.
Photidae spp.	148558	Filter/suspension feeder		Sivadas, S.K., Ingole, B.S., Fernandes, C.E.G. (2013) Environmental Gradient Favours Functionally Diverse Macrobenthic Community in a Placer Rich Tropical Bay. <i>The Scientific World Journal</i> , 2013:1-12.
<i>Nereis</i> sp.	129379	Predator/scavenger		Hartmann-Schröder, G. (1996). Annelida, Borstenwürmer, Polychaeta—Tierwelt Deutschlands, Teil 58. Veb Gustav Fischer Verlag Jena, Hamburg. Roy, V., Iken, K., Gosselin, M., Tremblay, J., Bélanger, S., Archambault, P. (2015) Benthic faunal assimilation pathways and depth-related changes in food-web structure across the Canadian Arctic. <i>Deep Sea Research Part I: Oceanographic Research Papers</i> , 102:55-71.
<i>Margarites costalis</i>	141819	Grazer		Smith, B., Cabot, E., Foreman, R. (1985) Seaweed detritus versus benthic diatoms as important food resources for two dominant subtidal gastropods. <i>Journal of Experimental Marine Biology and Ecology</i> , 92:143-156.
<i>Heterostigma</i> sp.	103521	Filter/suspension feeder		https://www.marinespecies.org/aphia.php?p=taxdetails&id=103521#attributes
<i>Dipolydora caulleryi</i>	131116	Surface deposit feeder		Flint, R. W., & Kalke, R. D. (1986). Biological enhancement of estuarine benthic community structure. <i>Marine Ecology Progress Series</i> , 23-33. Link, H., Piepenburg, D., Archambault, P. (2013) Are Hotspots Always Hotspots? The Relationship between Diversity, Resource and Ecosystem Functions in the Arctic. <i>PLoS ONE</i> , 8:e74077-. Macdonald, T.A., Burd, B.J., Macdonald, V.I., Van Roodselaar, A. (2010) Taxonomic and Feeding Guild Classification for the Marine Benthic Macroinvertebrates of the Strait of Georgia, British Columbia. Canadian Technical Report of Fisheries and Aquatic Sciences, 2874:63. Lindsay, S. M., Jackson, J. L., & Forest, D. L. (2008). Morphology of anterior regeneration in two spionid polychaete species: implications for feeding efficiency. <i>Invertebrate Biology</i> , 127(1), 65-79.
Campanulariidae spp.	1606	Filter/suspension feeder		Macdonald, T.A., Burd, B.J., Macdonald, V.I., Van Roodselaar, A. (2010) Taxonomic and Feeding Guild Classification for the Marine Benthic Macroinvertebrates of the Strait of Georgia, British Columbia. Canadian Technical Report of Fisheries and Aquatic Sciences, 2874:63.
Calloporidae spp.	110733	Filter/suspension feeder		Hayward, P.J., Ryland, J.S., Taylor, P.D. (1994) <i>Biology and Palaeobiology of Bryozoans</i> . Olsen & Olsen, Fredensborg. 240pp.

<i>Ampharete</i> sp.	129155	Surface deposit feeder	Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520. Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review.
Ascidacea	1839	Filter/suspension feeder	Brusca, R.C., Brusca, G.J. (2003) Invertebrates, 2nd Ed.. Sinauer Associates, Sunderland, Massachusetts. 936pp.
Styelidae spp.	103450	Filter/suspension feeder	Brusca, R.C., Brusca, G.J. (2003) Invertebrates, 2nd Ed.. Sinauer Associates, Sunderland, Massachusetts. 936pp.
Anthozoa	1292	Predator/scavenger	Brusca, R.C., Brusca, G.J. (2003) Invertebrates, 2nd Ed.. Sinauer Associates, Sunderland, Massachusetts. 936pp.
Dorvilleidae spp.	971	Omnivorous/detritivorous	Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520. Fauchald, K., Jumars, P. (1979) The Diet of Worms : a Study of Polychaete Feeding Guilds. Oceanography and Marine Biology, Annual Review, 17:193-284.
<i>Eugerda tenuimana</i>	118559	Filter/suspension feeder	Węślawski, J. M., Opanowski, A., Legeżyńska, J., Maciejewska, B., Włodarska-Kowalczyk, M., & Kędra, M. (2010). Hidden diversity in Arctic crustaceans. How many roles can a species play. Pol. Polar Res, 31(3), 205-216. Link, H., Piepenburg, D., Archambault, P. (2013) Are Hotspots Always Hotspots? The Relationship between Diversity, Resource and Ecosystem Functions in the Arctic. PLoS ONE, 8:e74077-.
<i>Cossura</i> sp.	129251	Subsurface deposit feeder	Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520.
<i>Ciliocardium ciliatum</i>	139000	Filter/suspension feeder	Huber, M. (2010) Compendium of Bivalves. ConchBooks, Hackenheim. 901pp.Serratos, C. (2015) Spatial and temporal patterns of epibenthic community and food web structure in the Chukchi Sea between 2004-2012. Master thesis, University of Alaska Fairbanks. Beesley P.L.; Ross G.J.B.; Wells, A.(.1998) Mollusca - The Southern Synthesis. CSIRO Publishing, Melbourne. 1-1234pp.
Cardiidae spp.	229	Filter/suspension feeder	Huber, M. (2010) Compendium of Bivalves. ConchBooks, Hackenheim. 901pp. Beesley P.L.; Ross G.J.B.; Wells, A.(.1998) Mollusca - The Southern Synthesis. CSIRO Publishing, Melbourne. 1-1234pp.
<i>Mytilus</i> sp.	138228	Filter/suspension feeder	Riisgård, H. U., Egede, P. P., & Barreiro Saavedra, I. (2011). Feeding behaviour of the mussel, <i>Mytilus edulis</i> : new observations, with a minireview of current knowledge. Journal of Marine Biology, 2011.
<i>Pholoe longa</i>	130602	Predator/scavenger	Kokarev, V., Vedenin, A., Basin, A., Azovsky, A. (2017) Taxonomic and functional patterns of macrobenthic communities on a high-Arctic shelf: A case study from the Laptev Sea. Journal of Sea Research, 129:61-69. Link, H., Piepenburg, D., Archambault, P. (2013) Are Hotspots Always Hotspots? The Relationship between Diversity, Resource and Ecosystem Functions in the Arctic. PLoS ONE, 8:e74077-. Macdonald, T.A., Burd, B.J., Macdonald, V.I., Van Roodselaar, A. (2010) Taxonomic and Feeding Guild Classification for the Marine Benthic Macroinvertebrates of the Strait of Georgia, British Columbia. Canadian Technical Report of Fisheries and Aquatic Sciences, 2874:63.
<i>Thyasira</i> sp.	138552	Chemosymbiotic	Dufour, S. C., & Felbeck, H. (2006). Symbiont abundance in thyasirids (Bivalvia) is related to particulate food and sulphide availability. Marine Ecology Progress Series, 320, 185-194.
<i>Astarte</i> sp.	137683	Filter/suspension feeder	Huber, M. (2010) Compendium of Bivalves. ConchBooks, Hackenheim. 901pp.
<i>Bipalponephlys neotena</i>	558192	Predator/scavenger	Link, H., Piepenburg, D., Archambault, P. (2013) Are Hotspots Always Hotspots? The Relationship between Diversity, Resource and Ecosystem Functions in the Arctic. PLoS ONE, 8:e74077-. Penry, D. L., & Jumars, P. A. (1990). Gut architecture, digestive constraints and feeding ecology of deposit-feeding and carnivorous polychaetes. Oecologia, 82(1), 1-11. Liebermann, A. (1999). The diversity of Polychaeta and their feeding habits related to types of sediments in Mellemfjord, Disko Island, West Greenland. Berichte zur Polarforschung, 330, 152-163.
Fabriciidae spp.	154918	Surface deposit feeder	Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520. Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review.
<i>Dipolydora</i> sp.	129611	NA	
<i>Cylichna alba</i>	139474	Predator/scavenger	Taylor, J. D., Cleevely, R. J., & Morris, N. J. (1983). Greensand (Albian) of England. Palaeontology, 26(Part 3), 521-553.

				Cedhagen, T. (1996). Foraminiferans as food for cephalaspideans (Gastropoda: Opisthobranchia), with notes on secondary tests around calcareous foraminiferans. Phuket Marine Biological Center Special Publication, 16, 279-290. Shonman, D. (1979). A study of feeding in two sympatric opisthobranch snails from Monterey Bay, California (Master's thesis, Calif. State University, Hayward.). Feder, H.M., Naidu, A.S., Hameedi, J.M., Jewett, S.C., Johnson, W.R.(1991)The Chukchi Sea continental shelf: benthos environmental interactions.In: IMS Report. Institute of Marine Science, University of Alaska Fairbanks:250
<i>Priapulid</i> sp.	101095	Omnivorous/detritivorous		Shirley, T. C. (1990). Ecology of <i>Priapulid</i> caudatus Lamarck, 1816 (<i>Priapulid</i>) in an Alaskan subarctic ecosystem. Bulletin of Marine Science, 47(1), 149-158.Trott, T. J. (1998). Gustatory responses of <i>Priapulid</i> caudatus de Lamarck, 1816 (<i>Priapulid</i> , <i>Priapulidae</i>): feeding behavior and chemoreception by a living fossil.
<i>Priapulidae</i> spp.	101078	Omnivorous/detritivorous		Shirley, T. C. (1990). Ecology of <i>Priapulid</i> caudatus Lamarck, 1816 (<i>Priapulid</i>) in an Alaskan subarctic ecosystem. Bulletin of Marine Science, 47(1), 149-158. Trott, T. J. (1998). Gustatory responses of <i>Priapulid</i> caudatus de Lamarck, 1816 (<i>Priapulid</i> , <i>Priapulidae</i>): feeding behavior and chemoreception by a living fossil.
<i>Apistobranchus tullbergi</i>	129851	Surface deposit feeder		Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520. Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. Estuarine, Coastal and Shelf Science, 114, 183-191.
<i>Scoletoma fragilis</i>	130261	Predator/scavenger		Morata, N., Michaud, E. (2013) Impact of early food input on the Arctic benthos activities during the polar night. Polar Biology, 38:99-114. Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520.
<i>Tharyx</i> sp.	129249	Surface deposit feeder		Penry, D. L., & Jumars, P. A. (1990). Gut architecture, digestive constraints and feeding ecology of deposit-feeding and carnivorous polychaetes. Oecologia, 82(1), 1-11. Fauchald, K., & Jumars, P. A. (1979). The diet of worms: a study of polychaete feeding guilds. Oceanography and marine Biology annual review.
<i>Phyllodoce maculata</i>	334510	Predator/scavenger		Hartmann-Schröder, G. (1996). Annelida, Borstenwürmer, Polychaeta—Tierwelt Deutschlands, Teil 58. Veb Gustav Fischer Verlag Jena, Hamburg, 648. Blake, J. A. (1994). Family Phyllodocidae Savigny 1818. Taxonomic atlas of the benthic fauna of the Santa Maria Basin and Western Santa Barbara Channel. The Annelida, (Part 2), 115-186.
<i>Caprella</i> sp.	101430	Omnivorous/detritivorous		Guerra-García, J. M., & Tierno de Figueroa, J. M. (2009). What do caprellids (Crustacea: Amphipoda) feed on?. Marine Biology, 156(9), 1881-1890.
<i>Prionospio steenstrupi</i>	131164	Surface deposit feeder		Abd-Elnaby, F. A. (2009). Polychaete study in Northeastern Mediterranean coast of Egypt. World Journal of Fish and Marine Sciences, 1(2), 85-93. Jumars, P., Dorgan, K.M., Lindsay, S.M. (2015) Diet of Worms Emended: An Update of Polychaete Feeding Guilds. Annual Review of Marine Science, 7:497-520.
<i>Orchomenella</i> sp.	101634	Omnivorous/detritivorous		Thiel, M., Hinojosa, I. (2009) Peracarida ,Äi Amphipods, Isopods, Tanaidaceans & Cumaceans. In: Haussermann Vreni; Gorsterra, G. (Eds.). Marine Benthic Fauna of Chilean Patagonia. Nature in Focus. 671-738pp. Chapman, J.W. (2007) Amphipoda: Chapter 39 of The Light and Smith Manual: Intertidal Invertebrates from Central California to Oregon. Univ of California Press Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. Estuarine, Coastal and Shelf Science, 114, 183-191.Sainte-Marie, B., Percy, J. A., & Shea, J. R. (1989). A comparison of meal size and feeding rate of the lysianassid amphipods <i>Anonyx nugax</i> , <i>Onisimus</i> (= <i>Pseudalibrotus</i>) <i>litoralis</i> and <i>Orchomenella pinguis</i> . Marine Biology, 102(3), 361-368. Legeżyńska, J. (2008). Food resource partitioning among Arctic sublittoral lysianassoid amphipods in summer. Polar Biology, 31(6), 663-670.
<i>Phyllodoce groenlandica</i>	334506	Predator/scavenger		Hartmann-Schröder, G. (1996). Annelida, Borstenwürmer, Polychaeta—Tierwelt Deutschlands, Teil 58. Veb Gustav Fischer Verlag Jena, Hamburg, 648. Blake, J. A. (1994). Family Phyllodocidae Savigny 1818. Taxonomic atlas of the benthic fauna of the Santa Maria Basin and Western Santa Barbara Channel. The Annelida, (Part 2), 115-186.

<i>Phyllodoce</i> sp.	129455	Predator/scavenger	Hartmann-Schröder, G. (1996). Annelida, Borstenwürmer, Polychaeta—Tierwelt Deutschlands, Teil 58. Veb Gustav Fischer Verlag Jena, Hamburg, 648. Blake, J. A. (1994). Family Phyllodocidae Savigny 1818. Taxonomic atlas of the benthic fauna of the Santa Maria Basin and Western Santa Barbara Channel. The Annelida, (Part 2), 115-186.
<i>Astarte montagui</i>	138823	Filter/suspension feeder	Huber, M. (2010) Compendium of Bivalves. ConchBooks, Hackenheim. 901pp.
<i>Lysippe labiata</i>	129800	Surface deposit feeder	Liebermann, A. (1999). The diversity of Polychaeta and their feeding habits related to types of sediments in Mellemfjord, Disko Island, West Greenland. Berichte zur Polarforschung, 330, 152-163. Kędra, M., Kuliński, K., Walkusz, W., & Legeżyńska, J. (2012). The shallow benthic food web structure in the high Arctic does not follow seasonal changes in the surrounding environment. Estuarine, Coastal and Shelf Science, 114, 183-191.
<i>Thyasira gouldi</i>	141663	Chemosymbiotic	Dufour, S. C., & Felbeck, H. (2006). Symbiont abundance in thyasirids (Bivalvia) is related to particulate food and sulphide availability. Marine Ecology Progress Series, 320, 185-194.
Thyasiridae spp.	219	Chemosymbiotic	Dufour, S. C., & Felbeck, H. (2006). Symbiont abundance in thyasirids (Bivalvia) is related to particulate food and sulphide availability. Marine Ecology Progress Series, 320, 185-194.

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