The following supplement accompanies the article

Mapping functional groups can provide insight into ecosytem functioning and potential resilience of intertidal sandflats

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Table S1.

Taxonomic ID	Phylum/Class	Subclass/Order	Family	SumN	Occurance	Group#
Austrominius modestus	Maxillopoda, Cirripedia (barnacles)	Sessilia	Austrobalanidae	788	68	1
Crassostrea gigas	Bivalvia	Ostreioda	Crassostreinae	3	1	1
Limnoperna pulex	Bivalvia	Mytiloida	Mytilidae	18	4	1
Austrovenus stutchburyi	Bivalvia	Veneroida	Veneridae	929	218	2
Paphies australis	Bivalvia	Veneroida	Mesodesmatidae	1542	171	2
Arthritica bifurca	Bivalvia	Veneroida	Lasaeidae	70	28	3
Divaricella	Bivalvia	Veneroida	Lucinidae	1	1	3
Felaniella zelandica	Bivalvia	Veneroida	Ungulinidae	2	2	3
Soletellina siliquens	Bivalvia	Myoida	Hiatellidae	1158	198	3
Musculista senhousia	Bivalvia	Mytiloida	Mytilidae	44	23	4
Amaurochiton glaucus	Polyplacophora	Chitonida	Chitonidae	6	5	5
Cominella adspersa	Gastropoda	Neogastropoda	Buccinidae	3	3	5
Cominella glandiforme	Gastropoda	Neogastropoda	Buccinidae	94	69	5
Diloma subrostrata	Gastropoda	Archaeogastropoda	Trochidae	19	17	5
Duplicaria flexicostata	Gastropoda	Neogastropoda	Terebridae	13	12	5
Haminoea zelandica	Gastropoda	Opistobranchia	Haminoeidae	6	6	5
Micrelenchus tenebrosus	Gastropoda	Archaeogastropoda	Trochidae	26	17	5
Neoguraleus sinclairii	Gastropoda	Neogastropoda	Turridae	4	4	5
Notoacmea scapha	Gastropoda	Patellogastropoda (Subclass)	Lottiidae	110	70	5

Taxonomic ID	Phylum/Class	Subclass/Order	Family	SumN	Occurance	Group#
Xymene plebeius	Gastropoda	Neogastropoda	Muricidae	6	6	5
Zeacumantus lutulentus	Gastropoda	Mesogastropoda	Potamididae	152	93	5
Lasaea parangaensis	Bivalvia	Veneroida	Lasaeidae	273	55	6
Nucula hartvigiana	Bivalvia	Nuculoida	Nuculidae	680	162	6
Potamopyrgus estuarine	Gastropoda	Hypsogastropoda	Hydrobiidae	1	1	6
Solemya parkinsoni	Bivalvia	Solemyoida	Solemyidae	2	2	6
Theora lubrica	Bivalvia	Veneroida	Semelidae?	4	3	6
Amalda	Gastropoda	Neogastropoda	Olividae	1	1	7
Eatoniella	Gastropoda	Mesogastropoda	Eatoniellidae	13	11	7
Turbonilla aoteana	Gastropoda	Entomotaeniata	Pyramidellidae	3	3	7
Macomona liliana	Bivalvia	Veneroida	Tellinidae	1952	379	8
Mactra ovata	Bivalvia	Veneroida	Mactridae	34	26	8
Anthopleura aureoradiata	Cnidaria	Anthozoa (anemone) Actiniaria	Actinaria	98	54	9
Boccardia syrtis	Polychaeta	Spionida	Spionidae	472	56	10
Euchone	Polychaeta	Sabellida	Sabellidae	771	105	10
Phoronis or Phoronopsis	Phoronida	Phoronida	Phoronida	415	121	10
Pseudopolydora THIN	Polychaeta	Spionida	Spionidae	416	30	10
Travisia olens	Polychaeta	Opheliida	Opheliidae	94	70	11
Orbinia papillosa	Polychaeta	Scolecida (Subclass)	Orbiniidae	300	116	12
Scolecolepides benhami	Polychaeta	Spionida	Spionidae	90	65	12
Scoloplos cylindrifer	Polychaeta	Scolecida (Subclass)	Orbiniidae	2	2	12
Trochodota dendyi	Echinoidea	Holothuroidea	Apodida	223	129	12
Aonides trifida	Polychaeta	Spionida	Spionidae	3915	229	13
Aricidea	Polychaeta	Scolecida (Subclass)	Paraonidae	73	40	13
Armandia	Polychaeta	Opheliida	Opheliidae	30	13	13
Barantola	Polychaeta	Capitellida	Capitellidae	4	4	13
Capitella sp.	Polychaeta	Capitellida	Capitellidae	34	28	13
Cirratulidae (unspecified), e.g., "cirratulid"	Polychaeta	Spionida	Cirratulidae	7	6	13
Cossura consimilis	Polychaeta	Cossurida	Cossuridae	5	2	13
Heteromastus filiformis	Polychaeta	Capitellida	Capitellidae	575	218	13
Levinsinia gracilis	Polychaeta	Scolecida (Subclass)	Paraonidae	4	3	13
Magelona ?dakini	Polychaeta	Spionida	Magelonidae	550	196	13
Paradoneis lyra	Polychaeta	Scolecida (Subclass)	Paraonidae	18	15	13
Prionospio aucklandica	Polychaeta	Spionida	Spionidae	566	124	13
Scolelepis	Polychaeta	Spionida	Spionidae	17	12	13

Taxonomic ID	Phylum/Class	Subclass/Order	Family	SumN	Occurance	Group#
Barantola	Polychaeta	Capitellida	Capitellidae	4	4	14
Notomastus	Polychaeta	Capitellida	Capitellidae	22	16	14
Scalibregmatidae (unspecified)	Polychaeta	Scolecida (Subclass)	Scalibregmatidae	18	13	14
Asychis	Polychaeta	Scolecida (Subclass)	Maldanidae	9	8	15
Macroclymenella stewartensis	Polychaeta	Scolecida (Subclass)	Maldanidae	373	138	15
Owenia	Polychaeta	Sabellida	Oweniidae	490	119	15
Pectinaria australis	Polychaeta	Terebellida	Pectinariidae	5	5	15
Pseudopolydora FAT	Polychaeta	Spionida	Spionidae	169	75	15
Pseudopolydora THIN	Polychaeta	Spionida	Spionidae	416	30	15
Chaetognath (arrow worm)	Chaetognatha	Chaetognatha	Chaetognatha	1	1	16
Dorvilleidae (unspecified)	Polychaeta	Eunicida	Dorvilleidae	4	2	16
Pholoe	Polychaeta	Phyllodocida	Pholoidae	1	1	16
Bumpy cirri syllid (Trypanosyllis)	Polychaeta	Phyllodocida	Syllidae	454	135	17
Edwardsia sp.	Cnidaria	Anthozoa (anemone) Actiniaria	Edwardsiidae	3	3	17
Exogoninae (unspecified), e.g., "exogonid"	Polychaeta	Phyllodocida	Syllidae	1	1	17
Oligochaeta FAT	Oligochaeta	Oligochaeta	Oligochaeta	1	1	17
Oligochaeta THIN	Oligochaeta	Oligochaeta	Oligochaeta	82	59	17
Aglaophamus macroura	Polychaeta	Phyllodocida	Nephtyidae	207	137	18
Ceratonereis	Polychaeta	Phyllodocida	Nereididae	126	59	18
Glyceridae (unspecified)	Polychaeta	Phyllodocida	Glyceridae	18	18	18
Glycinde grahami	Polychaeta	Phyllodocida	Goniadidae	1	1	18
Glycinde trifida	Polychaeta	Phyllodocida	Goniadidae	1	1	18
Lepidonotinae	Polychaeta	Phyllodocida	Polynoidae	3	3	18
Lumbrineridae (unspecified)	Polychaeta	Eunicida	Lumbrineridae	2	2	18
nemertean	Nemertea	Nemertea	Nemertea	808	275	18
Nicon aestuariensis	Polychaeta	Phyllodocida	Nereididae	80	48	18
Ophiodromus angustifrons	Polychaeta	Phyllodocida	Hesionidae	1	1	18
Perinereis vallata	Polychaeta	Phyllodocida	Nereididae	20	17	18
Phyllodocidae (unspecified)	Polychaeta	Phyllodocida	Phyllodocidae	1	1	18
Platynereis australis	Polychaeta	Phyllodocida	Nereididae	74	51	18
Hesionidae (unspecified)	Polychaeta	Phyllodocida	Hesionidae	222	115	19
Oligochaeta FAT	Oligochaeta	Oligochaeta	Oligochaeta	1	1	19
Oligochaeta THIN	Oligochaeta	Oligochaeta	Oligochaeta	82	59	19
Macroclymenella stewartensis	Polychaeta	Scolecida (Subclass)	Maldanidae	373	138	20
Owenia	Polychaeta	Sabellida	Oweniidae	490	119	20

Taxonomic ID	Phylum/Class	Subclass/Order	Family	SumN	Occurance	Group#
Phoronis or Phoronopsis	Phoronida	Phoronida	Phoronida	415	121	20
Caprellidae	Peracarida	Amphipoda	Caprellidae	1	1	21
Corophium sp	Peracarida	Amphipoda	Corophidae	20	5	21
crab zoea / juvenile (unspecified)	Eucarida, Decapoda	Brachyura	Brachyura	18	18	21
Gammaropsis spp.	Peracarida	Amphipoda	Caprellida, Photidae (Family)	1	1	21
Paracorophium	Peracarida	Amphipoda	Corophidae	18	4	21
Caprellidae	Peracarida	Amphipoda	Caprellidae	1	1	22
Dexaminidae	Peracarida	Amphipoda	Dexaminidae	5	3	22
Ischyroceridae spp.	Peracarida	Amphipoda	Ischyroceridae spp.	6	3	22
Lysianassidae	Peracarida	Amphipoda	Lysianassidae	48	31	22
Methalimedon sp.	Peracarida	Amphipoda	Exoedicerotidae	30	26	22
Mysid shrimp	Peracarida	Mysida	Mysidacea	77	54	22
Paracalliope spp.	Peracarida	Amphipoda	Paracalliopiidae	688	158	22
Phoxocephalidae (unspecified), e.g., "phoxocephalid"	Peracarida	Amphipoda	Phoxocephalidae	34	17	22
Protohyale	Peracarida	Amphipoda	Protohyale	1	1	22
Torridoharpinia hurleyi	Peracarida	Amphipoda	Phoxocephalidae	57	45	22
Waitangi sp. (Waitangi brevirostris)	Peracarida	Amphipoda	Phoxocephalidae	83	66	22
Colurostylis lemurum	Peracarida	Cumacea	Diastylidae	556	220	23
Cyclaspis thomsoni	Peracarida	Cumacea	Bodotriidae	30	15	23
Exosphaeroma falcatum	Peracarida	Isopoda	Sphaeromatidae	133	84	23
Exosphaeroma waitemataensis	Peracarida	Isopoda	Sphaeromatidae	5	4	23
Halicarcinus cookii	Eucarida, Decapoda	Brachyura	Hymenosomatidae	34	20	23
Halicarcinus whitei	Eucarida, Decapoda	Brachyura	Hymenosomatidae	86	59	23
Ophiuroida (unspecified), e.g., "ophiuroid"	Ophiuroidea	Ophiuroida	Ophiuroida	2	2	24
Patiriella	Asteroidea	Valvatida	Asterinidae	1	1	24
Pinnotheres novaezelandiae	Eucarida, Decapoda	Brachyura	Pinnotheridae	1	1	25
Alpheus sp.	Eucarida, Decapoda	Caridea	Alpheidae	1	1	26
Austrohelice crassa	Eucarida, Decapoda	Brachyura	Grapsidae	8	8	26
Callianassa	Eucarida, Decapoda	Gebiidea	Callianassidae	3	2	26
Hemigrapsus edwardsi	Eucarida, Decapoda	Brachyura	Grapsidae	1	1	26
Hemiplax hirtipes	Eucarida, Decapoda	Brachyura	Ocypodidae	41	33	26
Palaemon	Eucarida, Decapoda	Caridea	Palaemonidae	1	1	26
Pontophilus	Eucarida, Decapoda	Caridea	Crangonidae	21	16	26
Squilla armata (Mantis shrimp)	Eucarida, Decapoda	Stomatapoda	Tetrasquillidae	2	2	26

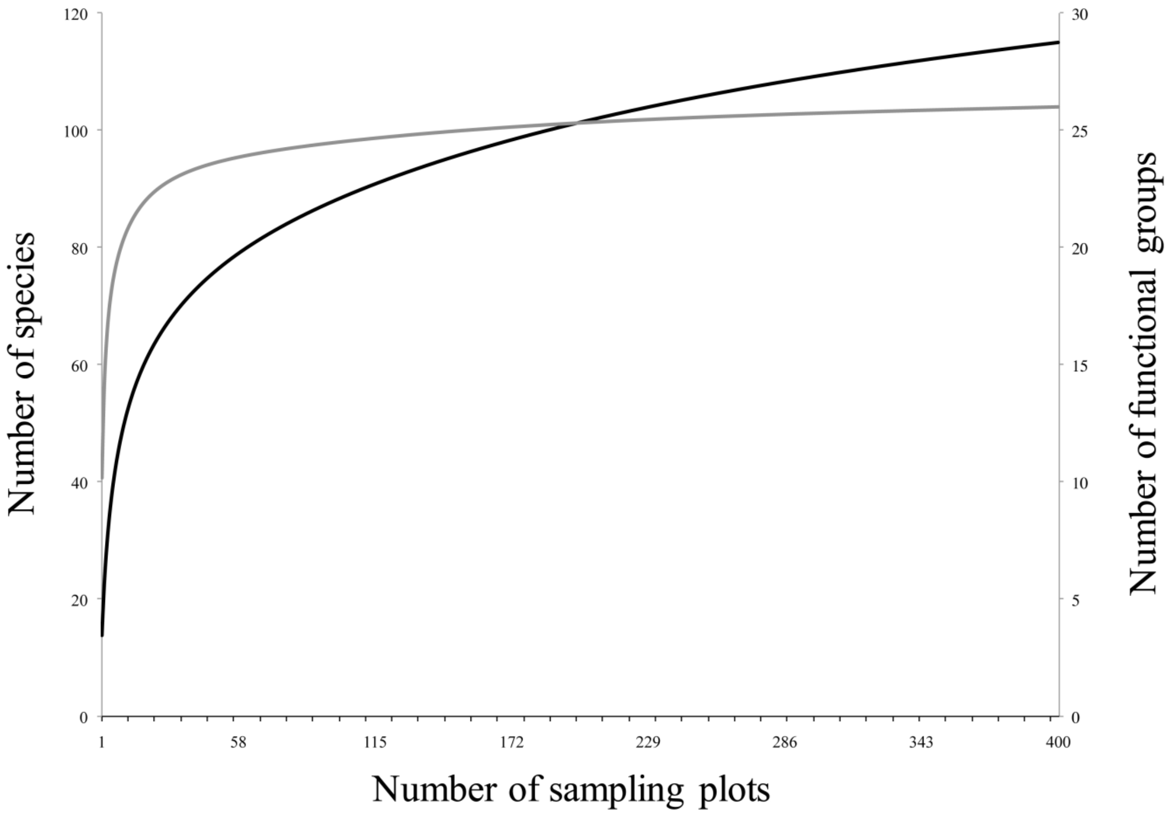
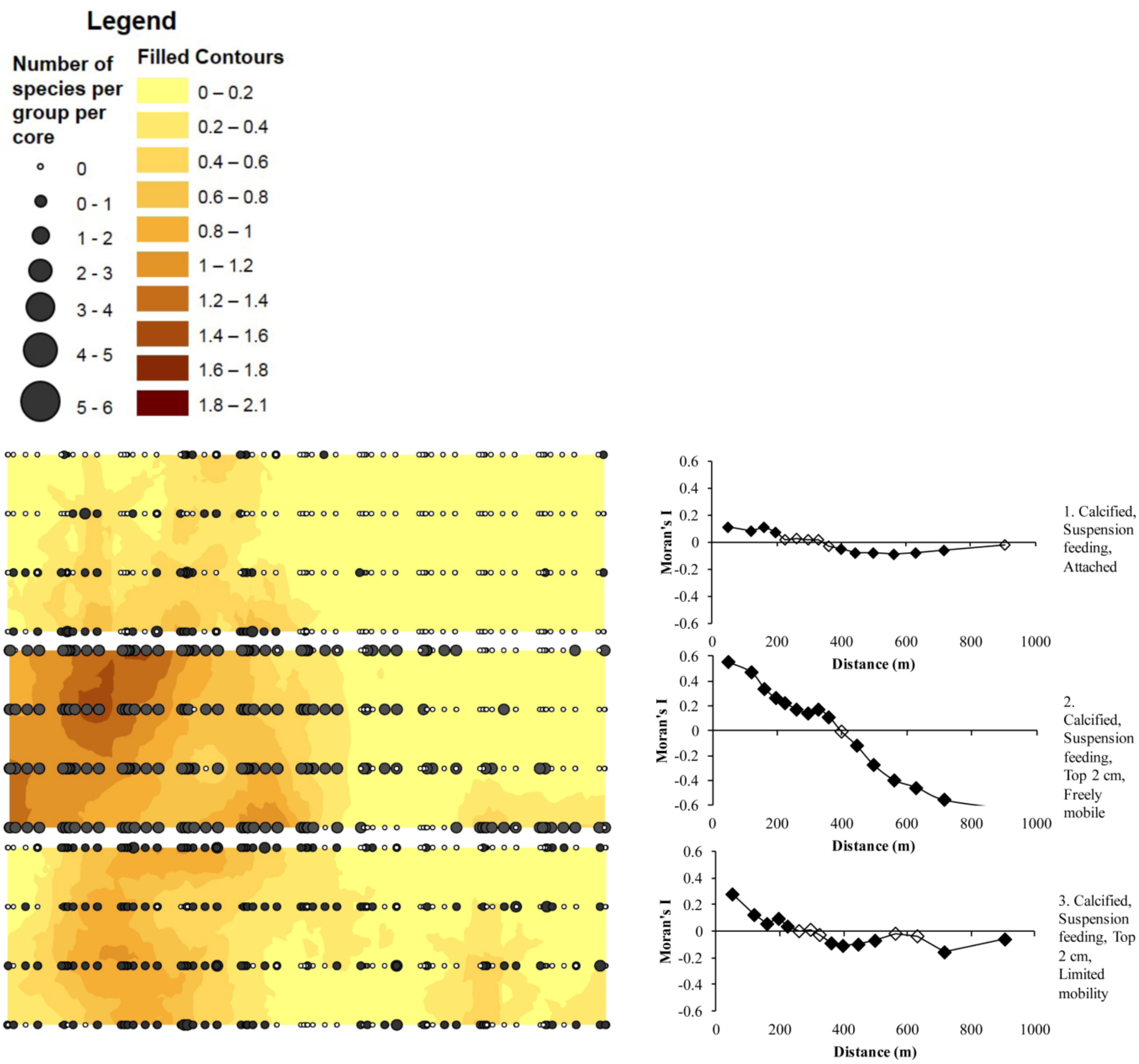
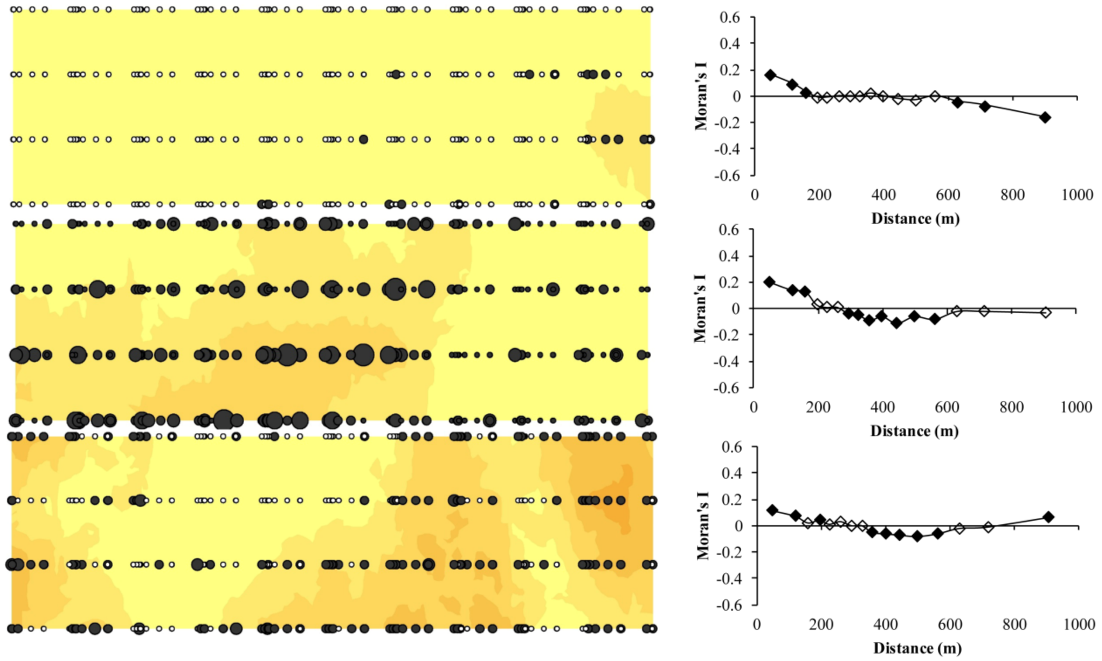


Figure S1. Species accumulation curve (black line; primary *y*-axis). Functional group accumulation curve (grey line; secondary *y*-axis).

Figure S2. Spatial distribution of functional groups (1-26) based on interpolated log-transformed abundances (filled contours) and functional group richness (scaled points). Correlograms, based on functional group abundance, illustrate random distributions, gradients, a single large patch, or multiple patches. Filled symbols denote significant Moran's *I* values.

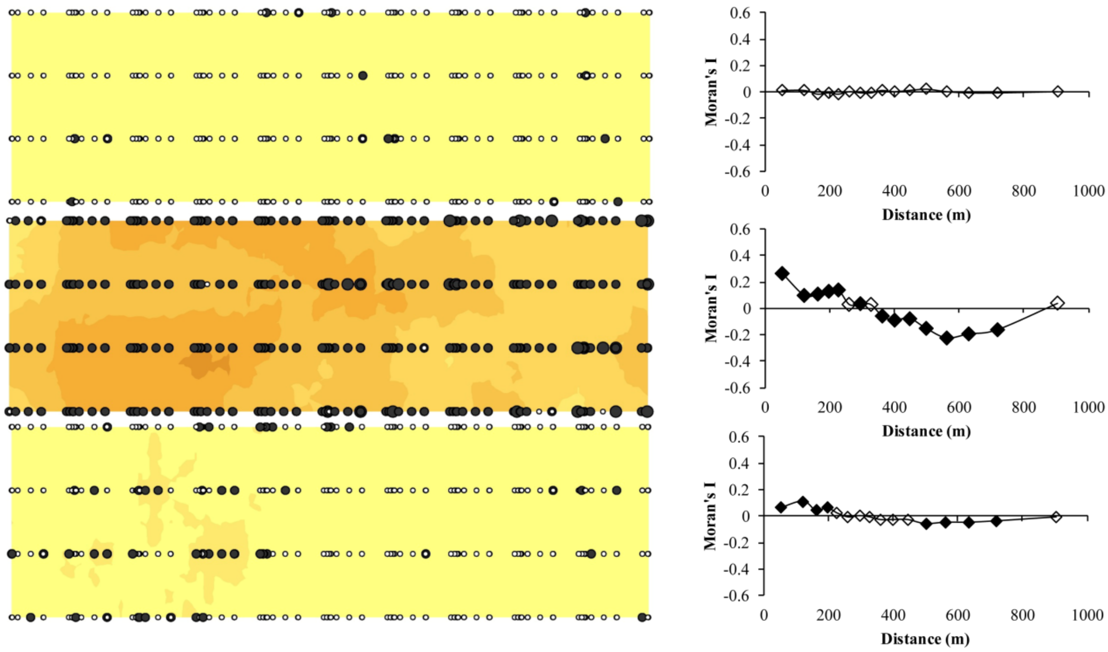




4. Calcified, Suspension feeding, Top 2 cm, Sedentary

5. Calcified, Deposit/Pred.Scav/Grazer, Above surface, Freely mobile

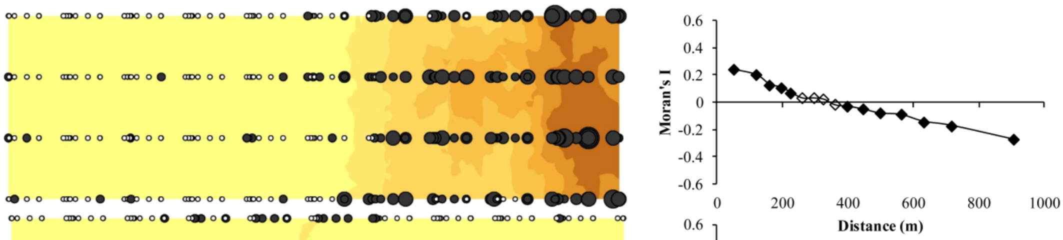
6. Calcified, Deposit feeding, Top 2 cm, Limited mobility



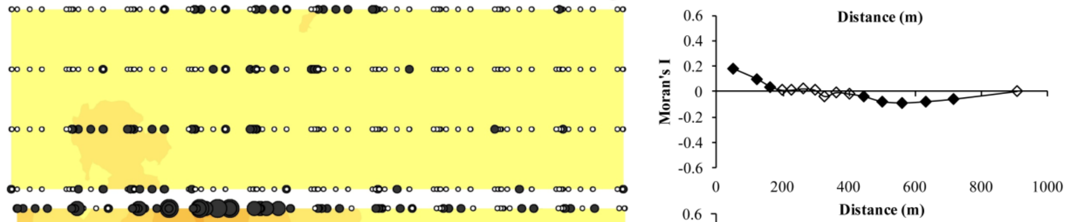
7. Calcified, Deposit feeding, Predator/Scavenger, Top 2 cm, Freely mobile

8. Calcified, Deposit feeding, Deep, Limited mobility, No habitat structure, Large

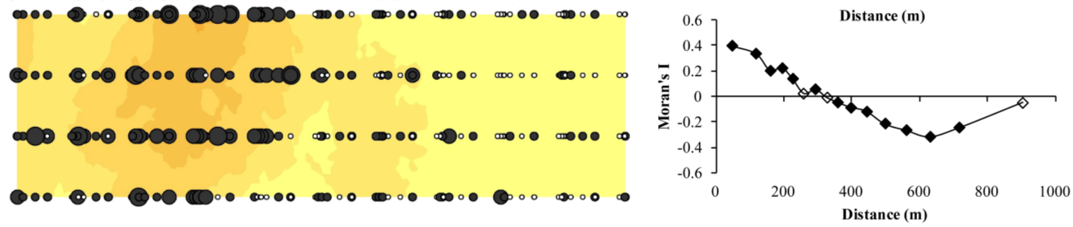
9. Soft-bodied, Suspension feeding, Attached



10. Soft-bodied, Suspension feeding, Tube structure

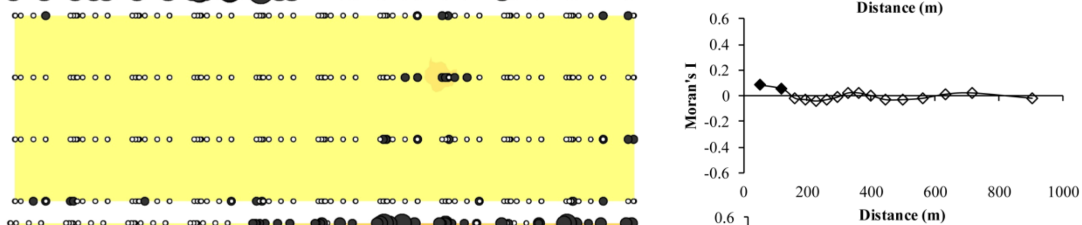


11. Soft-bodied, Deposit feeding, Top 2 cm, Freely mobile

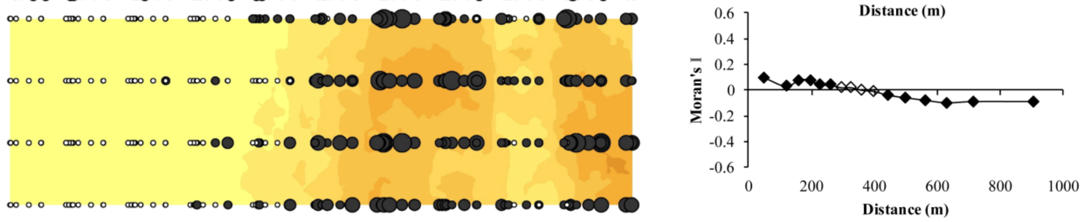


12. Soft-bodied, Deposit feeding, Below surface, Freely mobile

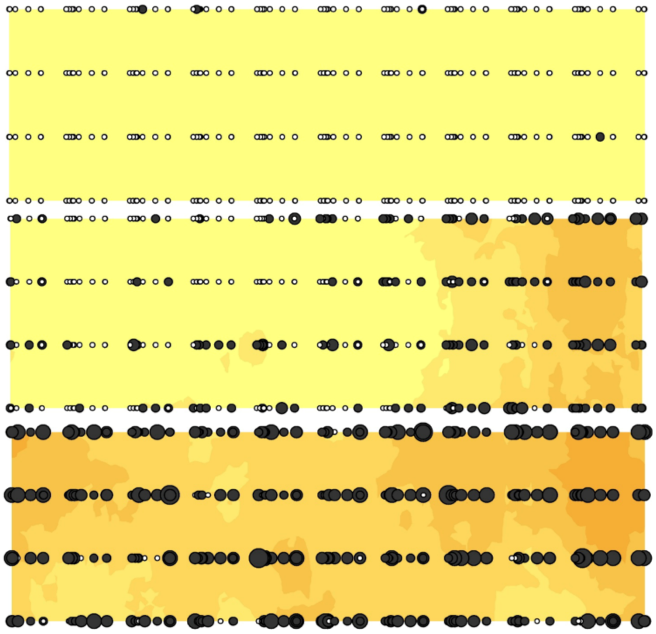
13. Soft-bodied, Deposit feeding, Below surface, Limited mobility

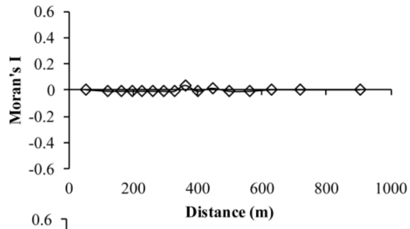


14. Soft-bodied, Deposit feeding, Deep

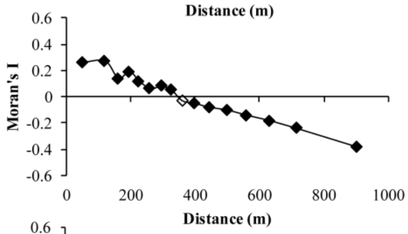


15. Soft-bodied, Below surface, Tube structure

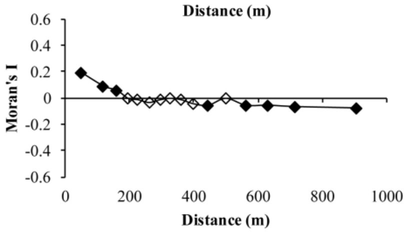




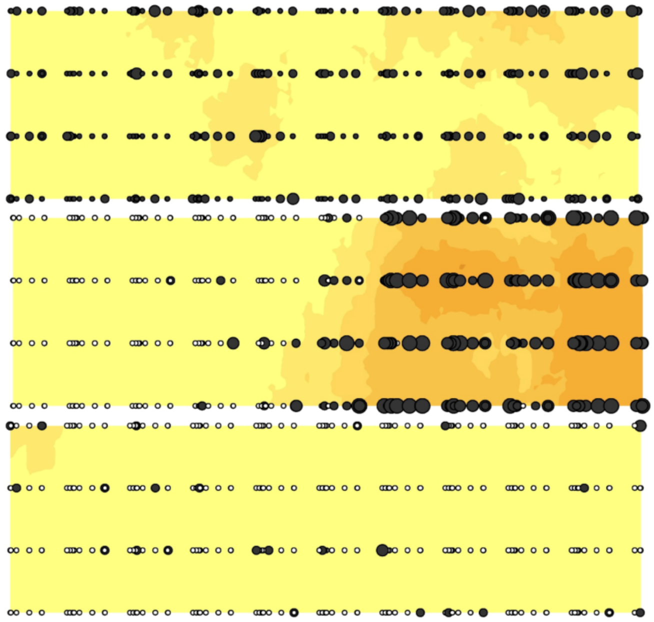
16. Soft-bodied, Predator/Scavenger, Top 2 cm, Freely mobile

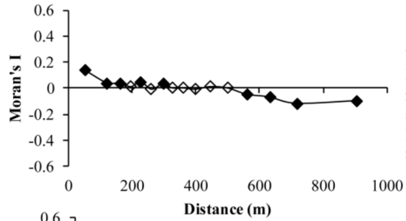


17. Soft-bodied, Predator/Scavenger, Top 2 cm, Limited mobility

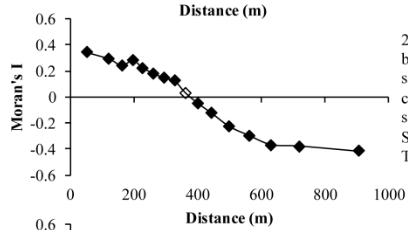


18. Soft-bodied, Predator/Scavenger, Below surface+Deep, Freely mobile, No habitat structure

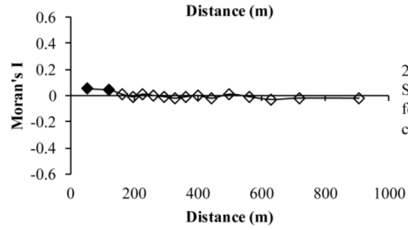




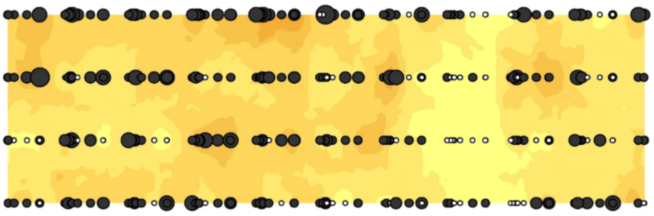
19. Soft-bodied, Predator/Scavenger, Below surface, Limited mobility

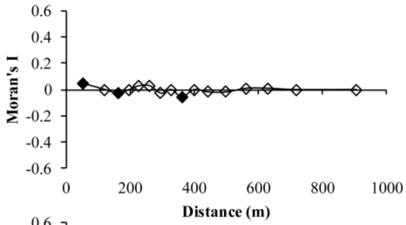


20. Soft-bodied, Above surface, Top 2 cm, Below surface, Deep, Sedentary, Tube structure

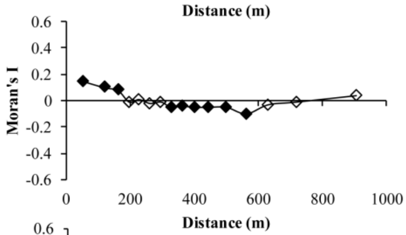


21. Rigid, Suspension feeding, Top 2 cm

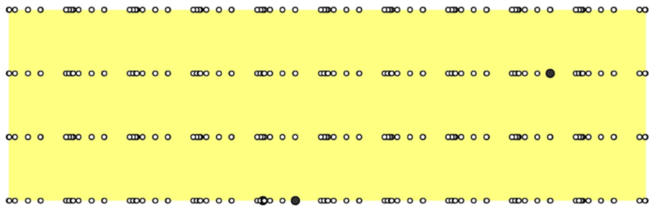


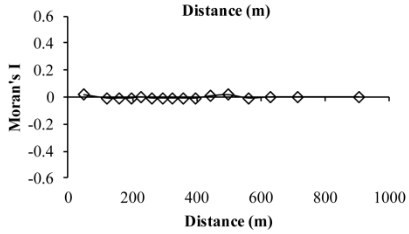


22. Rigid, Deposit feeding, Predator/Scavenger, Top 2 cm, Freely mobile, No habitat structure

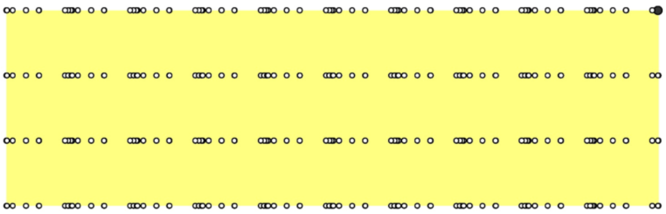


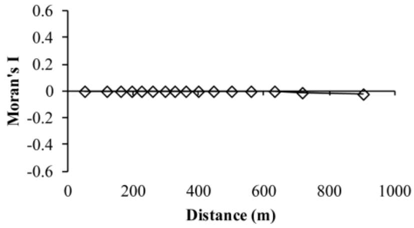
23. Rigid, Above surface, Freely mobile



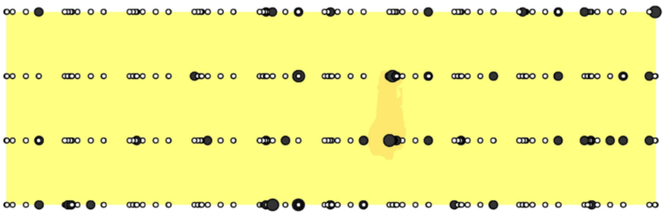


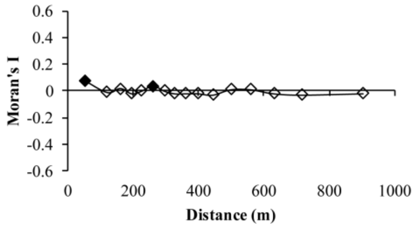
24. Rigid, Above surface, Freely mobile, Large





25. Rigid, Predator/Scavenger, Attached





26. Rigid, Predator/Scavenger, Below surface, Freely mobile, Large burrow former