Table S1: Individual regression data for body length (cm) and the number of suspected microparticles ingested across genera. Embolden numbers indicate a significant relationship. Four individual genera were unable to be analyzed due to insufficient size and sample data.

Genus	Animal Type	Common Name	Adjusted R^2	p-value
Magallana	Mollusk	Pacific oyster	-0.0993	0.9384
Pyrosoma	Gelatinous	Sea pickle	-	-
Pleuroncodes	Crustacean	Pelagic red crab	-0.1118	0.7659
Euphausia	Crustacean	Krill	0.1039	0.1907
Periphylla	Gelatinous	Red helmet jellyfish	-0.1923	0.8649
Sergestes	Crustacean	Pacific sergestid	0.0801	0.0747
Pandalus	Crustacean	California spot prawn	-0.1209	0.5346
Gnathophausia	Crustacean	Giant red mysid	-0.1017	0.6913
Nanomia	Gelatinous	Agalmid siphonophore	-	-
Doryteuthis	Cephalopod	California market squid	0.1034	0.2275
Engraulis	Fish	Californian anchovy	0.1039	0.1907
Cyclothone	Fish	Bristlemouth	-	-
Scomber	Fish	Chub mackerel	0.5206	0.0022
Stenobrachius	Fish	Northern lampfish	-0.1366	0.8499
Bathylagus	Fish	Deep-sea smelt	-	-
Chauliodus	Fish	Pacific viperfish	-0.3850	0.6258
Merluccius	Fish	Pacific hake	-0.3317	0.9559

Table S2: Individual regression data for body mass (wet weight, g) and the number of suspected microparticles ingested across genera. Numbers in bold font indicate a significant relationship.

Genus	Animal Type	Common Name	Adjusted R^2	p-value
Magallana	Mollusk	Pacific oyster	-0.0878	0.7455
Pyrosoma	Gelatinous	Sea pickle	-0.1060	0.7207
Pleuroncodes	Crustacean	Pelagic red crab	**0.3537**	**0.0409**
Euphausia	Crustacean	Krill	0.2532	0.0882
Periphylla	Gelatinous	Red helmet jellyfish	-0.1969	0.9144
Sergestes	Crustacean	Pacific sergestid	0.0150	0.2426
Pandalus	Crustacean	California spot prawn	0.2310	0.8162
Gnathophausia	Crustacean	Giant red mysid	-0.1204	0.8614
Nanomia	Gelatinous	Agalmid siphonophore	-0.1141	0.7867
Doryteuthis	Cephalopod	California market squid	-0.0435	0.4324
Engraulis	Fish	Californian anchovy	0.2352	0.0882
Cyclothone	Fish	Bristlemouth	-0.2987	0.6337
Scomber	Fish	Chub mackerel	**0.5461**	**0.0015**
Stenobrachius	Fish	Northern lampfish	-0.0426	0.4390
Bathylagus	Fish	Deep-sea smelt	-0.3306	0.9427
Chauliodus	Fish	Pacific viperfish	0.7510	0.2000
Merluccius	Fish	Pacific hake	-0.1011	0.4845

Table S3: Overview of microparticle data for all sampled animal genera.

Genus	Number of Samples	Number of Samples with Zero Microplastics	Detergent soak (Y/N)	Range # particles	Mean # Particles	StDev # particles
Magallana	12	2	N	0-7	2.5	2.2
Pyrosoma	10	0	Y	4-15	6.5	3.3
Pleuroncodes	10	0	N	1-10	4.5	3.3
Euphausia	5	0	N	4-8	5.6	1.8
Periphylla	7	0	N	1-6	3.4	1.6
Sergestes	28	13	N	0-6	1	1.4
Pandalus	6	1	N	0-3	1.7	1
Gnathophausia	10	1	N	0-5	3.5	1.7
Nanomia	10	0	N	3-17	9	4.3
Doryteuthis	8	2	N	0-2	1.4	0.9
Engraulis	10	0	N	2-18	7	4.8
Cyclothone	4	0	N	4-8	5.3	2.2
Scomber	14	0	N	3-27	12.4	7.7
Stenobrachius	9	2	N	0-4	2.1	1.5
Bathylagus	5	0	N	1-5	2.8	1.6
Chauliodus	3	0	N	2-5	3.7	1.5
Merluccius	5	2	N	0-4	1.2	1.6

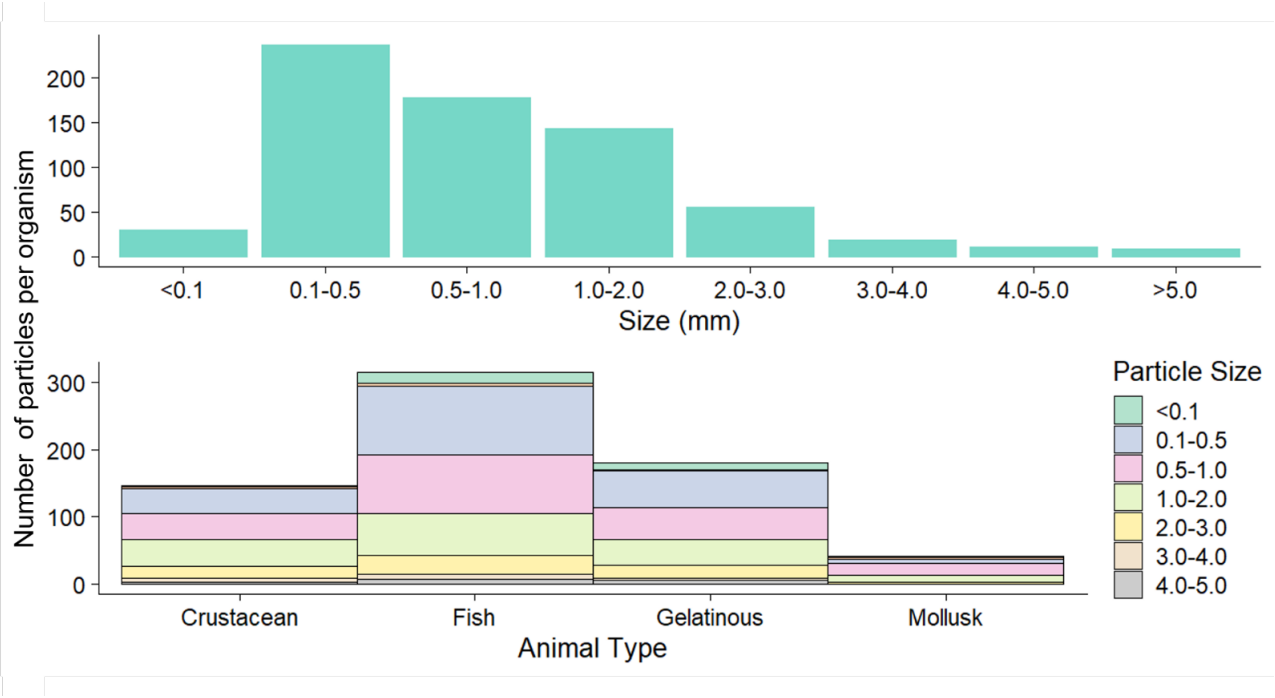

Figure S1: *Top Panel*: Frequency of detection of suspected anthropogenic microparticles identified within distinct particle size ranges (millimeters). *Bottom Panel*: Frequency of detection of suspected anthropogenic microparticles identified across animal types.

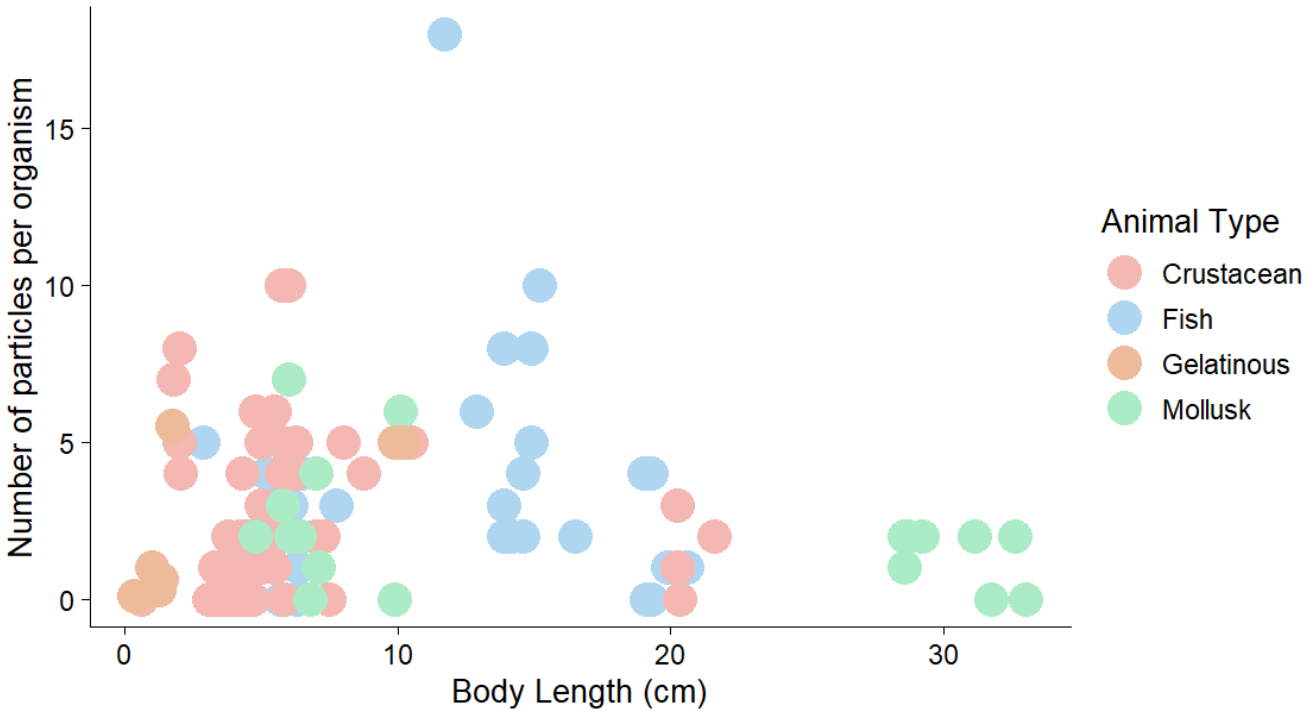

Figure S2: A non-significant relationship between body mass and the number of microparticles identified per organism according to animal type ($p = 0.981$; $R^2 = 4.872e\text{-}06$).