Table S1. Mean cumulative abundance of live organisms separated by species or taxa sampled from replicate quarts separated by vector stage (Maine field source or Maryland post-shipment distributor baitbox) and season (spring, summer, or fall). Plantae and algae species or taxa are recorded as present (Y) or absent (N). All other taxa were quantified by number of individuals and are denoted as not present (0), <1 individual (-), 1-10 individuals (+), or >10 individuals (++). Bolded species indicate those that are known successful invaders. The functional group for each species or taxa is composed of the five ecological traits considered the most relevant to competition in benthic communities (for abbreviations see Fowler et al. 2016).

		Spring		Summer		Fall	
Taxa	Functional Group	Field	Baitbox	Field	Baitbox	Field	Baitbox
Macroalgae							
Ascophyllum nodosum* ecad *scorpioides	XBASA	Y	Y	Y	Y	Y	Y
Ascophyllum nodosum	XBASA	Y	Y	Y	Y	Y	Y
Elachista fucicola	XBASA	N	N	N	N	Y	Y
Fucus distichus	XBASA	N	Y	N	N	N	Y
Fucus spiralis	XBASA	Y	Y	Y	Y	Y	Y
Fucus spp.	XBASA	Y	Y	Y	Y	Y	Y
Fucus vesiculosus	XBASA	N	Y	Y	Y	N	Y
Vertebrata lanosa	LBASA	N	Y	N	N	Y	N
Ulva sp.	XBASA	Y	Y	Y	Y	Y	Y
Plantae							
Spartina alterniflora	XBASA	Y	Y	Y	Y	Y	Y
Zostera marina	XBASA	Y	Y	Y	Y	N	Y
Crustacea: Amphipoda							
Americorchestia megalophthalma	MMGSC	0	0	0	-	0	0
Ampithoe valida	MMGSC	0	0	0	-	0	0
Corophium sp.	MMGSC	+	0	-	0	-	-
Gammarus duebeni	MMGSC	0	0	+	0	+	-

Gammarus finmarchicus	MMGSC	+	-	0	0	0	0
Gammarus lawrencianus	MMGSC	+	0	0	0	0	0
Gammarus mucronatus	MMGSC	-	0	+	0	-	-
Echinogammarus obtusatus	MMGSC	-	-	0	0	0	0
Gammarus oceanicus	MMGSC	+	-	-	+	+	-
Gammarus setosus	MMGSC	-	0	+	0	+	-
Gammarus sp.	MMGSC	0	-	-	-	-	-
Gammarus tigrinus	MMGSC	0	0	-	0	-	+
Gammarus palustris	MMGSC	0	0	-	0	0	0
Apohyale prevostii	MMGSC	+	+	+	++	++	++
Orchestia grillus	MMGSC	0	0	-	-	0	-
Crustacea: Isopoda							
Cyathura polita	MMGSC	0	0	0	0	-	-
Edotia triloba	MMGSC	0	-	0	0	0	0
Jaera albifrons	MMGSC	++	++	++	++	++	+
Littorophiloscia vittata	MMGSC	0	0	0	-	0	0
Crustacea: Cirripedia							
Balanus crenatus	LMSSA	0	0	-	0	0	0
Crustacea: Decapoda							
Tanaidacea	MMGSC	0	-	0	0	0	0
Carcinus maenas	LMPSC	+	0	-	0	+	0
Molluscs							
Gemma gemma	MMSSA	-	0	0	0	-	0
Hybrobia sp.	MMGSC	+	-	+	+	+	-
Onoba aculeus	MMGSC	-	0	0	0	0	0
Lacuna vincta	MMGSC	-	0	0	0	0	0

Lasaea adansoni	MMGSC	0	0	-	-	0	0
Littorina littorea	MMGSC	+	-	++	+	++	-
Littorina obstusata	MMGSC	-	+	++	+	+	+
Littorina saxatilis	MMGSC	++	+	++	+	++	+
Littorina sp.	MMGSC	0	0	-	-	0	0
Melampus bidentatus	MMGSC	0	-	0	0	0	0
Mya arenaria	LMSSB	-	-	-	+	+	-
Mysella planulata	LMSSB	0	-	-	-	0	-
Mytilus spp.	LMSSA	-	-	-	+	+	-
Boonea bisuturalis	MMGSC	0	-	0	-	0	-
Skeneopsis planorbis	SMSSC	-	-	-	-	+	0
Arachnida							
Bdellidae	SMGSC	0	-	-	-	0	-
Halacaridae	SMGSC	++	++	++	+	++	++
Oribatida	SMGSC	+	++	+	+	+	+
Bryozoa							
Alcyconidium sp.	LMSCA	-	0	0	-	0	0
Flustrellidra hispida	XMSCA	0	0	0	-	-	0
Ostracoda							
Ostracoda	SMSSC	++	-	+	-	++	-
Cnidaria							
Astrangia poculata	XBSCA	0	0	0	0	-	0
Sertulariidae	LBSCA	-	0	0	0	-	0
Polychaeta							
Capitellidae	MMDSB	++	+	+	+	++	-
Nemertea	MMDSB	++	-	-	-	+	0

Nephtyidae	MMDSB	0	0	0	0	-	0
Nereididae	MMDSB	-	-	-	-	-	0
Ophellidae	MMDSB	0	0	-	0	0	0
Sabellidae : *Fabricia* sp.	MMDSB	-	-	-	-	-	-
Spionidae	MMDSB	+	0	-	-	+	0
Spirorbidae	MMDSB	-	0	0	0	-	0
Oligochaeta							
Oligochaeta	MMDSB	0	0	0	0	0	-
Platyhelminthes							
Platyhelminthes	MMDSB	+	-	++	+	++	-
Nematoda							
Nematoda	MMDSB	++	+	++	+	++	+
Terrestrial							
Anurida maritima	Terrestrial	-	0	+	0	0	0
Aranea	Terrestrial	0	0	-	-	0	0
Ceratopogonidae larvae/pupae	Terrestrial	0	0	-	0	0	0
Chironomidae larvae	Terrestrial	0	0	+	0	0	0
Collembella	Terrestrial	0	0	-	0	0	0
Cyclorrhapha: Sphaeroceridae	Terrestrial	0	0	-	-	0	0
Hydrophilidae	Terrestrial	0	0	0	-	0	0
Hymenoptera: Cercopidae	Terrestrial	0	0	0	-	0	0
Hymenoptera: Formicidae	Terrestrial	0	0	0	-	0	0
Neuroptera	Terrestrial	0	0	0	-	0	0
Scathophagidae: *Scathophaga*	Terrestrial	0	0	+	0	0	0

Table S2. Jackknife second-order (Jack2) estimated and observed live marine macro-invertebrate taxonomic and functional group richness (sobs) across sampled individuals from Maine field source populations and those in Maryland post-shipment baitboxes calculated from rarefaction analyses and separated by season.

		Maine Field Source			Maryland Post-Shipment Baitboxes		
		Expected	Observed	Difference	Expected	Observed	Difference
Taxonomic	Spring	42.8	34	26%	34.7	23	51%
	Summer	56.6	38	49%	28.5	26	10%
	Fall	53.2	36	48%	34.7	23	51%
Functional	Spring	10.19	10	0.02%	6	6	0%
	Summer	11.99	10	20%	10.74	8	34.3%
	Fall	17.4	12	45%	15	8	87.5%

Table S3. SIMPER analysis from two-factor PERMANOVA where both vector stage (Maine field source and Maryland post-shipment distributor baitbox) and season (spring, summer, fall) operated as fixed factors for live marine invertebrates collected from replicate quarts. Average dissimilarity is shown between the field and distributor stages across all seasons and between seasons across both vector stages and those taxa or functional groupings contributing the most to the dissimilarity. Values are reported as percentages and whether their contribution to dissimilarity increased (+) or decreased (-) between the two stages or seasons.

	LIVE ABUNDANCE			LIVE FUNCTIONAL GROUP		
Comparison	Mean Dissimilarity	Taxa	Contribution (%)	Mean Dissimilarity	Group	Contribution (%)
Maine Field Source vs. Maryland Post-shipment Distributor Baitbox	72.38	*Jaera albifrons*	15.89 (-)	56.13	MMGSC	30.89 (-)
		Nematoda	12.92 (-)		MMDSB	14.86 (-)
		Halacaridae	9.96 (-)		XMSSA	12.78 (-)
		Ostracoda	5.99 (-)		LMGSC	12.08 (-)
		Littorina saxatilis	5.92 (-)		SMGSC	6.68 (-)
Spring vs. Summer	62.41	*Jaera albifrons*	16.84 (-)	55.34	MMGSC	27.21 (+)
		Halacaridae	10.73 (-)		SMGSC	20.42 (-)
		Nematoda	9.29 (-)		MMDSB	17.01 (-)
		Littorina saxatilis	7.54 (+)		LMGSC	12.47 (+)
		Capitellidae	5.14 (-)		SMSSC	9.54 (-)
Spring vs. Fall	54.62	*Jaera albifrons*	14.42 (-)	66.79	MMDSB	18.84 (-)
		Halacaridae	11.47 (-)		SMGSC	16.44 (-)
		Nematoda	10.05 (-)		MMGSC	15.95 (-)
		Capitellidae	6.19 (-)		XMSSA	15.50 (+)
		Apohyale prevostii	5.74 (+)		LMGSC	12.66 (+)
Summer vs. Fall	61.06	*Jaera albifrons*	14.35 (-)	51.78	MMGSC	24.59 (-)
		Halacaridae	9.37 (+)		XMSSA	21.52 (+)
		Nematoda	8.31 (+)		LMGSC	14.57 (+)
		Littorina saxatilis	8.19 (-)		MMDSB	12.83 (-)
		Apohyale prevostii	6.59 (+)		XESCA	5.42 (+)

Table S4. Average percent (± standard error - SE), maximum percent, and minimum percent dead marine macroinvertebrates found in replicate quarts during each season in Maine field source samples and Maryland post-shipment distributor baitboxes.

	Maine Field Source		Maryland Post-Shipment Baitboxes	
	Avg % ± SE	Max % - Min %	Avg % ± SE	Max % - Min %
Spring	1.58 ± 0.31	3.96 - 0.17	34.90 ± 7.39	82.8 – 4.61
Summer	14.8 ± 6.21	84.19 - 0	37.31 ± 5.25	63.70 – 7.27
Fall	1.06 ± 0.51	7.72 - 0	30.45 ± 5.92	64.24 - 6.98

Table S5. SIMPER analysis from two-factor PERMANOVA where both vector stage (Maine field source and Maryland post-shipment distributor baitbox) and season (spring, summer, fall) operated as fixed factors for dead marine invertebrates collected from replicate quarts. Average dissimilarity is shown between the field and distributor stages across all seasons and between seasons across both vector stages and those taxa or functional groupings contributing the most to the dissimilarity. Values are reported as percentages and whether their contribution to dissimilarity increased (+) or decreased (-) between the two stages or seasons

	DEAD ABUNDANCE			DEAD FUNCTIONAL GROUP		
Comparison	Mean Dissimilarity	Taxa	Contribution (%)	Mean Dissimilarity	Group	Contribution (%)
Maine Field Source vs. Maryland Post-shipment Distributor Baitbox	73.36	*Jaera albifrons*	28.95 (+)	54.33	MMGSC	56.46 (+)
		Apohyale prevostii	14.21 (+)		MMDSB	11.86 (-)
		Oribatidae	5.00 (+)		SMGSC	9.57 (+)
		Gammarid amphipod	4.76 (+)		LBSCA	7.73 (-)
		Gammarus sp.	4.41 (+)		LMSSA	6.76 (+)
Spring vs. Summer	68.88	*Jaera albifrons*	32.38 (+)	55.34	MMGSC	53.08 (+)
		Capitellidae	11.42 (+)		MMDSB	25.72 (+)
		Apohyale prevostii	8.04 (-)		SMGSC	7.87 (+)
		Gammarid amphipod	6.77 (+)		LBSCA	5.31 (-)
		Nematoda	5.66 (+)		LMSSA	4.33 (+)
Spring vs. Fall	69.40	*Jaera albifrons*	39.74 (-)	52.08	MMGSC	63.87 (-)
		Apohyale prevostii	10.10 (-)		LBSCA	14.25 (+)
		Sertulariidae	9.97 (+)		SMGSC	5.86 (-)
		Gammarus finmarchicus	4.93 (-)		LMSSB	4.55 (+)
		Gammarid amphipod	4.15 (+)		LMSSA	3.44 (-)
Summer vs. Fall	73.70	*Jaera albifrons*	31.09 (-)	59.32	MMGSC	54.73 (-)
		Capitellidae	9.69 (-)		MMDSB	20.25 (-)
		Apohyale prevostii	7.12 (-)		SMGSC	6.78 (-)
		Gammarid amphipod	7.05 (-)		LBSCA	5.70 (+)
		Nematoda	4.79 (-)		LMSSA	4.59 (-)

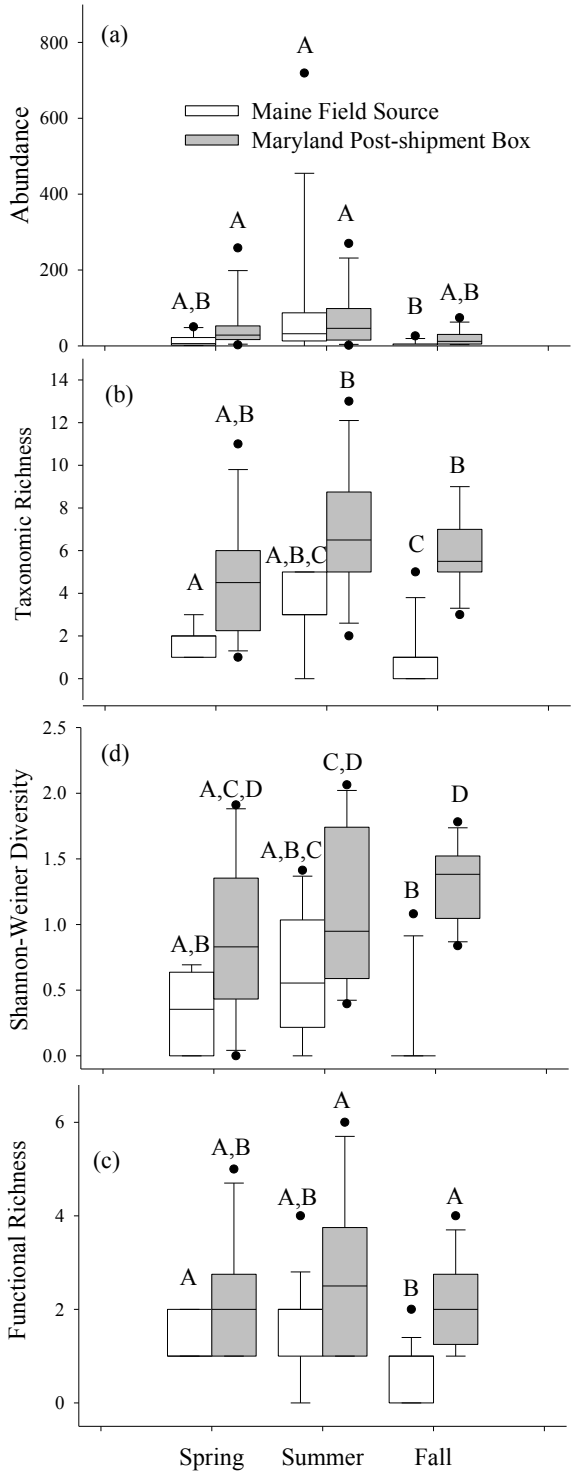

Figure S1. Mean abundance (± SE), taxonomic richness (± SE), functional group richness (± SE), and Shannon-Weiner diversity (± SE) of dead marine macroinvertebrates found in replicate quarts during each season in Maine field source samples and Maryland post-shipment distributor baitboxes. Note different y-axes. Bars that share letters indicate lack of statistical difference at $\alpha = 0.05$. The upper and lower limits of the box plots represent the 75th and 25th percentiles, and the horizontal bars at the ends of the lines outside the boxes represent the 90th and 10th percentiles. The horizontal line within the box plots is the median measure, and black circles represent measures that fell outside of the 90th and 10th percentile boundaries.

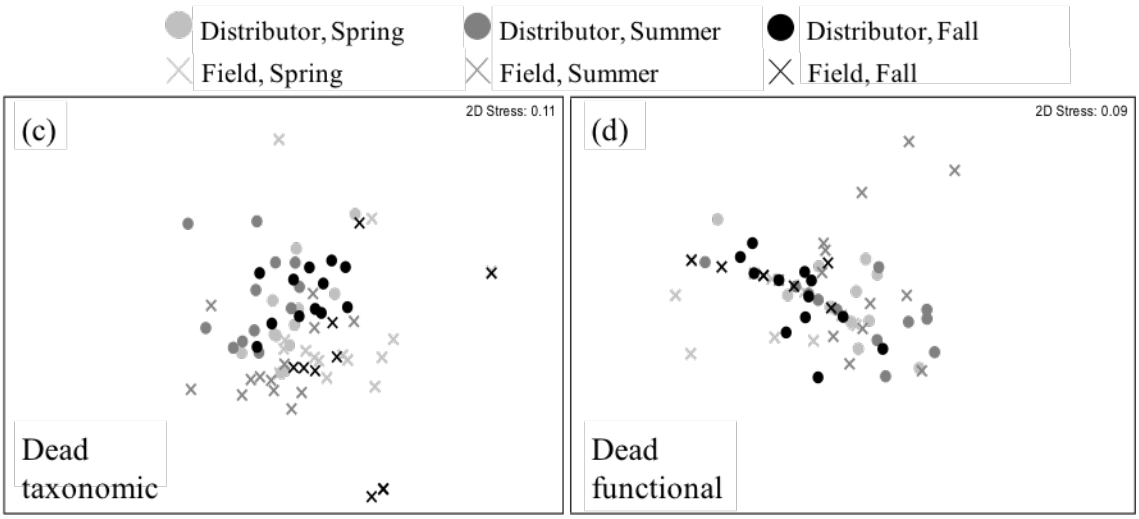

Figure S2. Non-metric multidimensional scaling plots displaying taxonomic and functional similarity of dead marine invertebrates sampled across seasons (spring = light grey, summer = dark grey, and fall = black) for Maine field source samples (cross mark) and Maine post-shipment distributor baitboxes (circles). PERMANOVA results for effect of vector x stage (C) Dead taxonomic $F_{2,75} = 1.57$, $P = 0.05$ and (D) Dead functional $F_{2,75} = 2.42$, $P = 0.018$.