

Table S1: Correlation matrix of pairwise Pearson correlations of environmental variables used to model polychaete abundance and species richness.

	longitude	latitude	depth	chlorophyll	sst	dist. 200m isobath	dist. coast
longitude	1						
latitude	-0.38	1					
depth	-0.38	0.06	1				
chlorophyll	0.57	-0.29	0.06	1			
sst	-0.90	0.71	0.26	-0.64	1		
dist. 200m isobath	0.31	0.01	-0.64	-0.06	-0.22	1	
dist. coast	0.07	0.18	-0.44	-0.18	0.05	0.56	1

Table S2: Complete summary of the GLM fits modeling polychaete total abundance, holoplankton abundance, meroplankton abundance, taxon richness, holoplankton richness, and meroplankton richness. Significant parameter estimates are highlighted in bold.

Total abundance					Taxon richness				
	Estimate	S.E.	z-value	p-value		Estimate	S.E.	z-value	p-value
(Intercept)	-0.095	0.114	-0.84	0.4	(Intercept)	0.621	0.278	2.24	<b>0.03</b>
Trawl type: DiSalvo	1.948	0.041	47.75	<b>&lt;0.0001</b>	Trawl type: DiSalvo	0.362	0.187	1.94	<b>0.05</b>
Longitude	-2.048	0.115	-17.85	<b>&lt;0.0001</b>	Longitude	0.052	0.525	0.10	0.9
Latitude	-1.040	0.127	-8.21	<b>&lt;0.0001</b>	Latitude	-0.056	0.378	-0.15	0.9
Depth	-1.204	0.037	-32.42	<b>&lt;0.0001</b>	Depth	0.044	0.169	0.26	0.8
Chlorophyll-a	0.061	0.074	0.82	0.4	Chlorophyll-a	-0.260	0.687	-0.38	0.7
SST	-1.028	0.215	-4.78	<b>&lt;0.0001</b>	SST	0.259	0.819	0.32	0.8
Dist. 200 m isobath	-2.484	0.148	-16.76	<b>&lt;0.0001</b>	Dist. 200 m isobath	0.492	0.410	1.20	0.2
Dist. nearest coast	-1.562	0.242	-6.47	<b>&lt;0.0001</b>	Dist. nearest coast	-0.925	0.688	-1.34	0.2
Null deviance: 19689.8 on 91 df					Null deviance: 52.289 on 41 df				
Residual deviance: 6855.4 on 83 df					Residual deviance: 31.193 on 33 df				
Holoplankton abundance					Holoplankton richness				
	Estimate	S.E.	z-value	p-value		Estimate	S.E.	z-value	p-value
(Intercept)	-0.906	0.221	-4.11	<b>&lt;0.0001</b>	(Intercept)	0.087	0.503	0.17	0.9
Trawl type: DiSalvo	0.375	0.247	1.52	0.1	Trawl type: DiSalvo	0.868	0.827	1.05	0.3
Longitude	3.870	0.962	4.02	<b>&lt;0.0001</b>	Longitude	-0.536	2.038	-0.26	0.8
Latitude	-1.532	0.590	-2.60	<b>&lt;0.01</b>	Latitude	0.545	1.210	0.45	0.7
Depth	0.431	0.176	2.46	<b>0.01</b>	Depth	-0.418	0.493	-0.85	0.4
Chlorophyll-a	-0.687	0.448	-1.53	0.1	Chlorophyll-a	-1.010	1.315	-0.77	0.4
SST	4.547	1.347	3.38	<b>&lt;0.001</b>	SST	-1.188	2.767	-0.43	0.7
Dist. 200 m isobath	0.060	0.249	0.24	0.8	Dist. 200 m isobath	-0.069	0.718	-0.10	0.9
Dist. nearest coast	-0.627	0.278	-2.26	<b>0.02</b>	Dist. nearest coast	-0.166	0.984	-0.17	0.9
Null deviance: 242.29 on 91 df					Null deviance: 6.3962 on 14 df				
Residual deviance: 176.01 on 83 df					Residual deviance: 2.6192 on 6 df				
Meroplankton abundance					Meroplankton richness				
	Estimate	S.E.	z-value	p-value		Estimate	S.E.	z-value	p-value
(Intercept)	-1.481	0.268	-5.52	<b>&lt;0.0001</b>	(Intercept)	0.806	5.031	0.16	0.9
Trawl type: DiSalvo	2.017	0.042	47.80	<b>&lt;0.0001</b>	Trawl type: DiSalvo	0.258	0.253	1.02	0.3
Longitude	-2.293	0.121	-18.98	<b>&lt;0.0001</b>	Longitude	-0.402	0.630	-0.64	0.5
Latitude	-2.076	0.216	-9.62	<b>&lt;0.0001</b>	Latitude	0.020	0.491	0.04	1
Depth	-1.320	0.041	-32.53	<b>&lt;0.0001</b>	Depth	0.047	0.274	0.17	0.9
Chlorophyll-a	0.528	0.101	5.23	<b>&lt;0.0001</b>	Chlorophyll-a	-0.571	1.074	-0.53	0.6
SST	-0.010	0.293	-0.04	1	SST	-0.403	1.072	-0.38	0.7
Dist. 200 m isobath	-2.070	0.319	-6.48	<b>&lt;0.0001</b>	Dist. 200 m isobath	-0.686	6.781	-0.10	0.9
Dist. nearest coast	-3.020	0.734	-4.11	<b>&lt;0.0001</b>	Dist. nearest coast	1.064	15.655	0.07	0.9
Null deviance: 20046.7 on 91 df					Null deviance: 21.743 on 32 df				
Residual deviance: 6706.3 on 83 df					Residual deviance: 12.337 on 24 df				

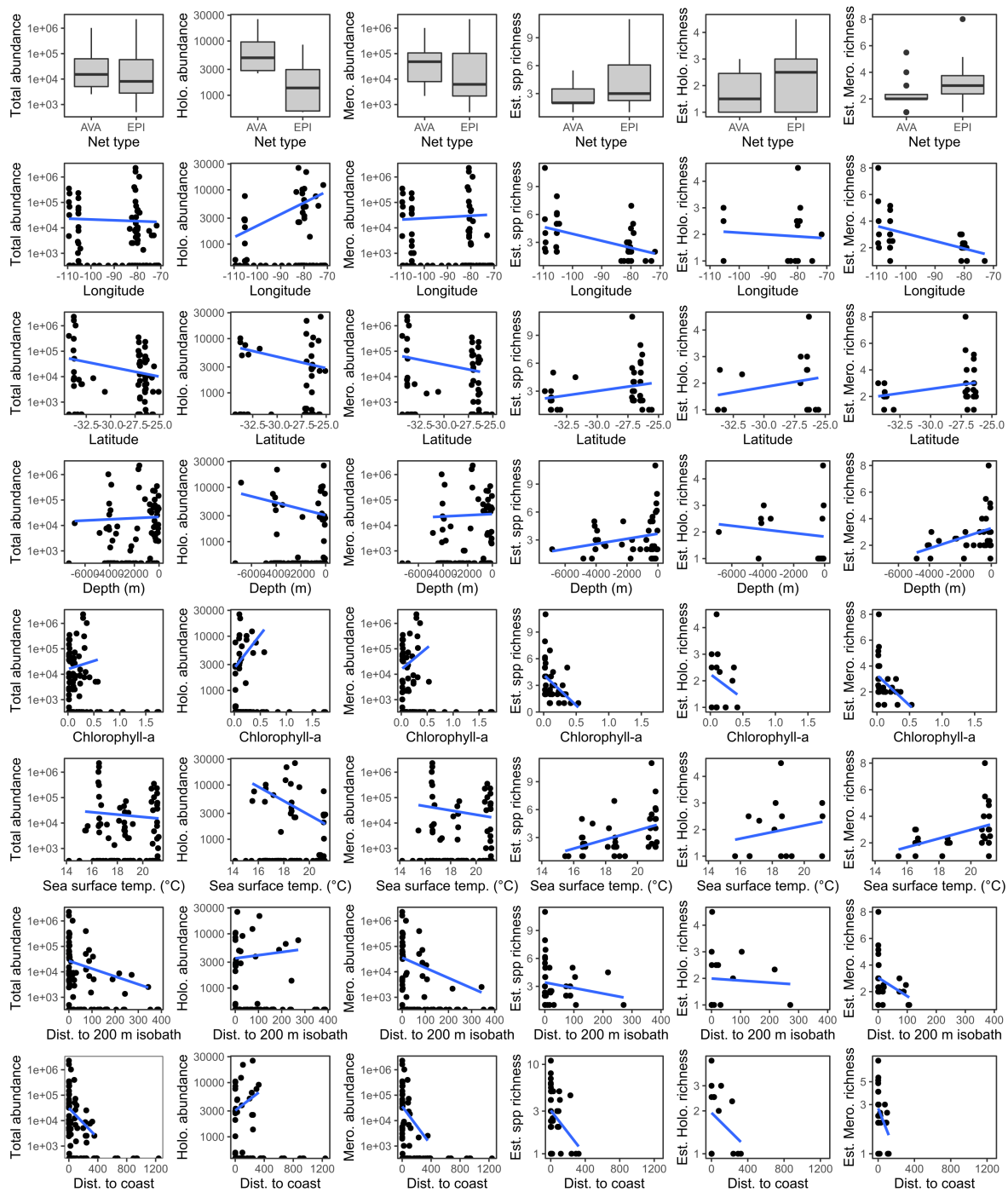


Fig. S1: Scatterplots depicting the general (simple) relationships between dependent variables (polychaete total abundance, holoplankton abundance, meroplankton abundance, species richness, holoplankton richness and meroplankton richness) and the environmental predictors considered in our study. Blue lines represent linear regression fits.