

Dataset: VIMS led trawls in Chesapeake Bay collecting fish, crabs, and shrimp since 2012. Data shown here is June/July in order to compare to collected 2020 data. Analyses are comparing pre (2012-2019) to post-lockdown (2020). We summarize Shannon diversity (mean Shannon richness/trawl for each month or year), richness (mean species richness/trawl for each month or year) and abundance (mean individuals/trawl for each month or year). Each data point is a summarization of 6 trawls (i.e., 6 trawls conducted in June, 6 in July, thus 12 trawls in yearly summarized data).

Figure:

Shannon diversity, Richness (spp/trawl), and Abundance (individuals/trawl), and 95% CI, summarized per year for June and July 2012-2020.

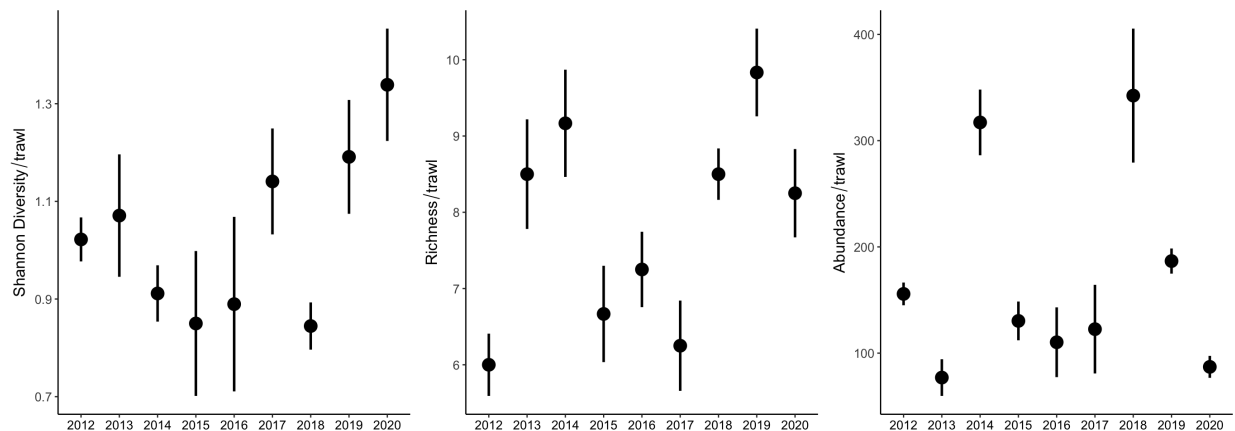
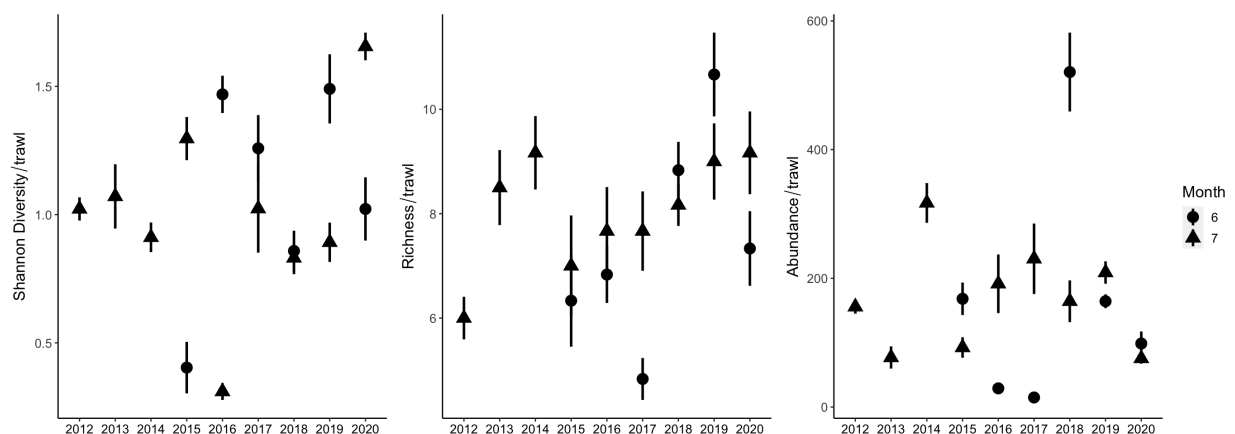


Figure:

Shannon diversity, Richness (spp/trawl), and Abundance (individuals/trawl) summarized per year for June (6) and July (7) 2012-2020. Note: while there is clearly some June/July variation, Month was not a significant predictor of our response variables and thus were not included in analyses below.



Data table: Yearly trawl data- Richness, Abundance, and Shannon diversity, and standard error, of fish, crabs, and shrimp per trawl. 6 trawls per month, 12 trawls per year.

Pre/Post Lockdown	Year	Abundance (mean/trawl)	SE	Richness (mean/trawl)	SE	Shannon Diversity (mean/trawl)	SE
Lock	2020	87.08	10.33	8.25	0.58	1.34	0.12
Pre	2012	155.75	10.7	6	0.41	1.02	0.05
Pre	2013	77	17.26	8.5	0.72	1.07	0.13
Pre	2014	317.17	30.92	9.17	0.7	0.91	0.06
Pre	2015	130.33	18.24	6.67	0.63	0.85	0.15
Pre	2016	110.25	32.84	7.25	0.49	0.89	0.18
Pre	2017	122.58	41.72	6.25	0.59	1.14	0.11
Pre	2018	342.42	63.06	8.5	0.34	0.84	0.05
Pre	2019	186.67	11.83	9.83	0.58	1.19	0.12

Results from linear models, pre/post lockdown predicting Abundance, Richness, and Shannon Diversity in June and July, from 2012-present. Summary tables presented:

Abundance (mean abundance per trawl)

Term	estimate	Std Error	t-statistic	P-value
Intercept	87.083	39.815	2.187	0.031
Pre/Post Lockdown Abundance	93.114	42.843	2.173	0.033

Richness (mean richness per trawl)

Term	estimate	Std Error	t-statistic	P-value
Intercept	8.25	0.62	13.303	< 0.001
Pre/Post Lockdown Richness	-0.461	0.667	-0.69	0.49

Shannon Diversity (mean Shannon diversity per trawl)

Term	estimate	Std Error	t-statistic	P-value
Intercept	1.339	0.119	11.268	< 0.001
Pre/Post Lockdown Shannon Diversity	-0.352	0.128	-2.755	0.007