

The following supplement accompanies the article

Composition and temporal patterns of larval fish communities in Chesapeake and Delaware Bays, USA

Filipe Ribeiro*, Edward Hale, Eric J. Hilton, Todd R. Clardy, Alison L. Deary, Timothy E. Targett, John E. Olney

*Corresponding author: fmvribeiro@gmail.com

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Table S1. Results of the Multi-Response Permutation Procedure (MRPP) for Bay, Year, Seasonal difference in composition of the 15 most dominant and shared ichthyoplankton taxa.

Test	MRPP A-statistic	p-value
Bay	0.0156	0.001
Year	0.0077	0.021
Season 3 years	0.1855	0.001
YRS Season 07/08	0.1904	0.001
Season 08/09	0.2761	0.001
Season 09/10	0.1653	0.001
Year	0.0148	0.001
Season 3 years	0.1885	0.001
RIS Season 07/08	0.2044	0.001
Season 08/09	0.2543	0.001
Season 09/10	0.1858	0.001

Table S2. Mean annual densities (Nr./1000m³) for the 15 most abundant species collected in Chesapeake Bay (YRS). Confidence intervals at 95% were not included to improve table's readability. Results of Kruskal-Wallis test (H) and Dunn's pos-hoc comparison test. Significant results or near the significance level are in bold. Statistical differences among years for each site were obtained by Kruskal-Wallis tests (H). Results of a posteriori Dunn's test are indicated; Considered significance values: n.s.: not significant, *P < 0.05, **P < 0.01, ***P < 0.001

Species	2007-2008	2008-2009	2009-2010	H ; Dunn's test
<i>Anchoa</i> spp.	178.64	234.25	249.15	n.s. P=0.377
<i>Microgobius thalassinus</i>	51.79	80.20	39.65	n.s. P=0.119
<i>Gobiosoma</i> spp.	46.34	59.25	57.79	n.s. P=0.090
<i>Micropogonias undulatus</i>	58.75	19.23	23.53	n.s. P=0.303
<i>Brevoortia tyrannus</i>	10.06	22.02	16.54	n.s. P=0.512
<i>Leiostomus xanthurus</i>	4.11	1.46	9.65	n.s. P=0.067
<i>Anguilla rostrata</i>	5.77	3.49	2.60	n.s. P=0.97
<i>Symphurus plagiusa</i>	4.31	2.21	0.97	n.s. P=0.059
<i>Syngnathus</i> sp.	1.80	3.41	1.93	n.s. P=0.86
<i>Paralichthys</i> spp.	0.93	0.78	3.33	n.s. P=0.61
<i>Menidia</i> sp.	1.83	1.20	1.29	n.s. P=0.51
<i>Sciaenops ocellatus</i>	1.11	0.38	1.53	n.s. P=0.90
<i>Bairdiella chrysoura</i>	0.28	0.69	0.91	n.s. P=0.45
<i>Hypsoblennius hentz</i>	0.56	0.62	0.62	n.s. P=0.17
<i>Cynoscion regalis</i>	0.59	0.42	0.79	n.s. P=0.98

Table S3. Mean annual densities (Nr./1000m³) for the 15 most abundant species collected in Delaware Bay (RIS). Confidence intervals at 95% were not included to improve table's readability. Results of Kruskal-Wallis test (H) and Dunn's pos-hoc comparison test. Significant results or near the significance level are in bold. Statistical differences among years for each site were obtained by Kruskal-Wallis tests (H). Results of a posteriori Dunn's test are indicated; Considered significance values: n.s.: not significant, *P < 0.05, **P < 0.01, ***P < 0.001.

Species	2007- 2008	2008- 2009	2009- 2010	H ; Dunn's test
<i>Anchoa</i> spp.	232.18	223.38	229.12	n.s. P=0.58
<i>Micropogonias undulatus</i>	157.83	224.82	137.30	n.s. P=0.059 *** P<0.001; 2007-2008 >
<i>Brevoortia tyrannus</i>	285.58	14.63	11.68	than remaining
<i>Gobiosoma</i> spp.	75.86	40.69	107.57	n.s. P=0.66
<i>Paralichthys</i> spp.	9.92	9.95	10.40	n.s. P=0.056
<i>Anguilla rostrata</i>	7.55	6.18	7.61	n.s. P=0.59
<i>Leiostomus xanthurus</i>	5.69	0.42	0.12	** P=0.005; Dunn's: n.s.
<i>Ctenogobius boleosoma</i>	0.90	0.99	3.62	n.s. P=0.45
<i>Menidia</i> sp.	1.22	0.70	2.89	n.s. P=0.094
<i>Syngnathus</i> sp.	1.80	1.54	1.13	n.s. P=0.49
<i>Microgobius thalassinus</i>	2.41	0.45	1.27	n.s. P=0.44
<i>Pseudopleuronectes</i> <i>americanus</i>	0.37	0.45	1.51	n.s. P=0.98
<i>Gobionellus oceanicus</i>	0.36	0.05	1.39	* P=0.047; Dunn's: n.s.
<i>Conger oceanicus</i>	0.81	0.67	0.15	n.s. P=0.12
<i>Cynoscion regalis</i>	0.00	0.30	1.17	n.s. P=0.063