

Supplementary Table 1. Scale distance measurements for the Atlantic menhaden and Gulf menhaden subsamples by method to each annulus. Focus to annulus is defined as follows: F_1 is focus to first annulus, F_2 is focus to second annulus, F_3 is focus to third annulus, and F_4 is focus to fourth annulus. Repeated measures ANOVA test results for comparisons across methods by region and annulus measurement.

Region	Method	Focus to annulus	Mean	<i>n</i>	Min	Max	Std Dev	df	<i>F</i> -value	<i>P</i> -value
Atlantic	Microscope	F_1	2.58	136	1.35	3.82	0.54	405	2.899	0.056
Atlantic	Eberbach	F_1	2.67	136	1.43	3.90	0.54			
Atlantic	Blue card	F_1	2.74	136	1.53	3.98	0.55			
Atlantic	Microscope	F_2	3.81	86	2.54	4.73	0.40	255	8.822	<0.001
Atlantic	Eberbach	F_2	3.98	86	2.98	4.88	0.39			
Atlantic	Blue card	F_2	4.07	86	3.13	4.98	0.40			
Atlantic	Microscope	F_3	4.40	29	3.79	4.91	0.32	84	6.505	0.002
Atlantic	Eberbach	F_3	4.58	29	3.95	5.08	0.27			
Atlantic	Blue card	F_3	4.67	29	4.03	5.13	0.27			
Atlantic	Microscope	F_4	4.88	9	4.34	5.14	0.24	24	3.102	0.063
Atlantic	Eberbach	F_4	5.06	9	4.58	5.35	0.23			
Atlantic	Blue card	F_4	5.16	9	4.63	5.45	0.24			
Gulf	Microscope	F_1	1.98	142	1.15	3.24	0.45	423	0.844	0.431
Gulf	Eberbach	F_1	2.01	142	1.15	3.33	0.46			
Gulf	Blue card	F_1	2.05	142	1.18	3.40	0.47			
Gulf	Microscope	F_2	3.16	86	2.13	4.35	0.40	255	5.161	0.006
Gulf	Eberbach	F_2	3.31	86	2.28	4.43	0.41			
Gulf	Blue card	F_2	3.36	86	2.33	4.58	0.43			
Gulf	Microscope	F_3	3.64	24	2.69	4.47	0.40	69	2.237	0.115
Gulf	Eberbach	F_3	3.82	24	2.88	4.50	0.38			
Gulf	Blue card	F_3	3.86	24	2.85	4.58	0.40			
Gulf	Microscope	F_4	4.27	5	3.61	4.77	0.48	12	0.429	0.661
Gulf	Eberbach	F_4	4.47	5	3.95	4.78	0.40			
Gulf	Blue card	F_4	4.50	5	4.03	4.80	0.39			