

Table S1. List of sciaenids that were stocked in the Great Salt Pond near Chechessee Creek, SC between June 2015 and February 2016.

Common Name	Scientific Name	Abundance of Size Classes - kg (m)				Unknown Sizes	Total Abundance
		< 2.3 (0.6)	2.3-4.5 (0.6-0.8)	4.5-9.0 (0.8-0.9)	>9.0 (0.9)		
Black drum	<i>Pogonias cromis</i>	116	41	15	0	333	505
Spot	<i>Leiostomus xanthurus</i>	0	0	0	0	1	1
Atlantic croaker	<i>Micropogonias undulatus</i>	0	0	0	0	58	58
Spotted seatrout	<i>Cynoscion nebulosus</i>	10	0	0	0	102	112
Red drum	<i>Sciaenops ocellatus</i>	43	47	16	6	0	112

Abundances in bold indicate that fish were most likely reproductively mature.

Male *P. cromis* reach reproductive maturity at 0.61 – 0.62 mm (Nieland and Wilson, 1993).

Male *C. nebulosus* reach reproductive maturity at ~ 0.60 mm (Brown-Peterson and Warren, 2001).

Male *S ocellatus* reach reproductive maturity at ~ 0.65 mm (Wilson and Nieland, 1994).

Table S2. Spatial passive acoustic surveys performed in Chechessee Creek, SC. H = high tide; L = low tide.

Date	Survey ID	Start Time	End Time	Tidal Time	Track Distance (km)
8/9/16	1-Out	18:33	20:00	H 14:53	2.8
8/9/16	1-Return	20:16	22:22	L 20:40	5.1
8/23/16	2-Out	14:52	15:42	H 13:55	3.3
8/23/16	2-Return	18:44	20:57	L 20:01	5.6
9/21/16	3-Out	15:46	17:16	H 13:36 L 19:45	5.0

Table S3. Water quality data from Chechessee Creek (CC1, CC2) and the Great Salt Pond (GSP). Std = standard deviation; Range = Max – Min.

		CC1	CC2	GSP
Salinity (ppt)	Mean ±	25.55 ±	25.36 ±	24.94 ±
	Std	2.75	2.73	2.31
	Max	28.23	28.26	27.27
	Min	22.34	22.31	22.00
	Range	5.89	5.95	5.27
Temperature (°C)	Mean ±	27.97 ±	28.14 ±	27.50 ±
	Std	3.15	3.21	2.88
	Max	33.89	34.47	33.97
	Min	19.96	19.96	16.61
	Range	13.93	14.51	17.36
pH	Mean ±			
	Std	7.36 ± 0.13	7.40 ± 0.21	7.64
	Max	7.45	7.55	na
	Min	7.26	7.25	na
	Range	0.19	0.30	na

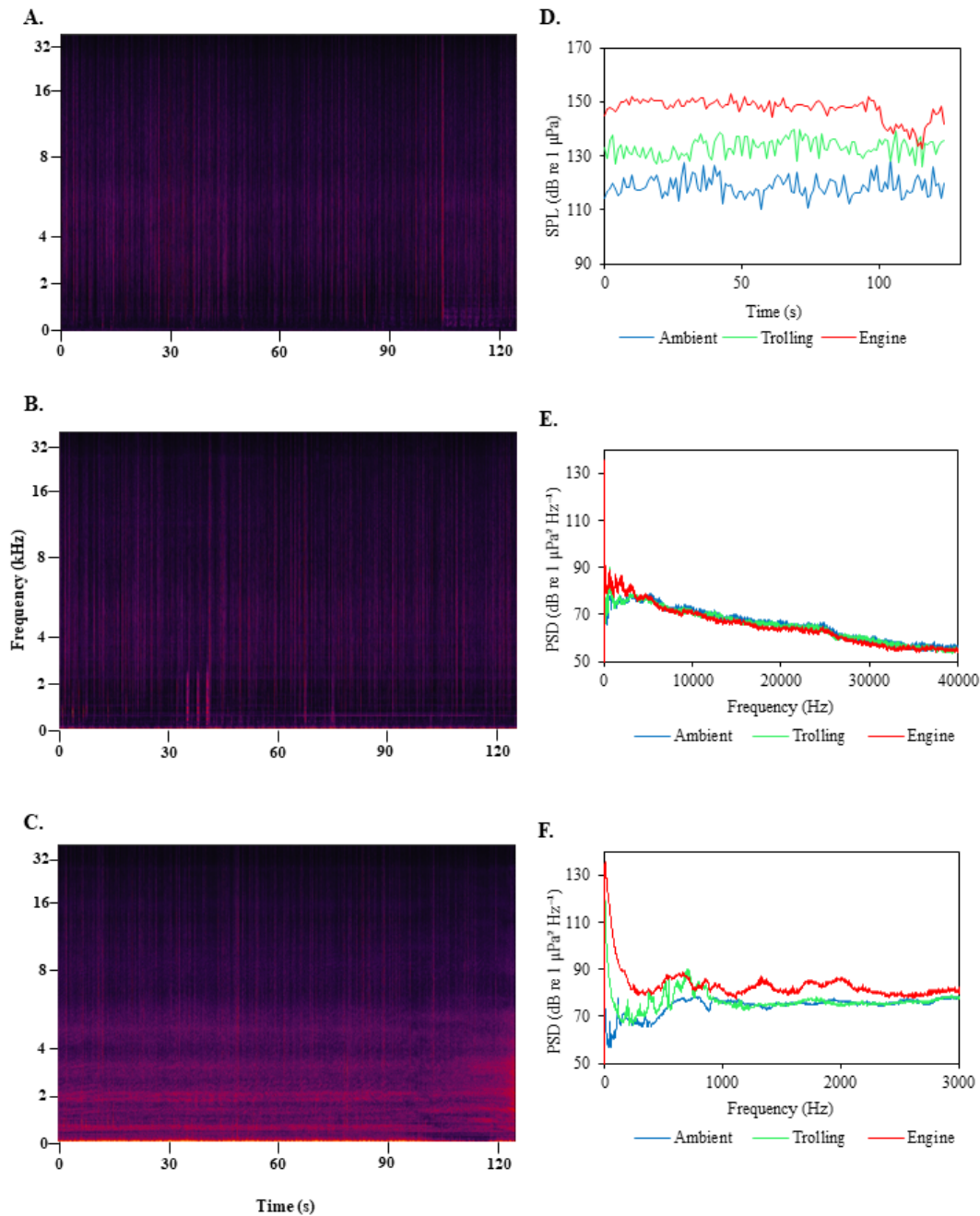


Fig. S1. A comparison of the noise contribution associated with using a trolling motor (i.e. 1 hp Minn Kota EO Transom-Mount Electric Outboard Motor) versus a boat engine (i.e. 90 hp Yamaha Four Stroke) for passive acoustic surveys. Spectrograms of (A) ambient sound (i.e. snapping shrimp) where the SPL was 119 dB re 1 μ Pa on average; (B) ambient sound and trolling motor noise where the SPL was 132.6 dB re 1 μ Pa on average; and (C) ambient sound and boat motor noise where the SPL was 146.8 dB re 1 μ Pa on average. (D) Broadband sound pressure levels (1 – 40,000 Hz) of ambient, trolling motor, and boat engine versus time. (E) Power spectral density analysis from 1 to 40,000 Hz and (F) from 1 to 3,000 Hz

LITERATURE CITED

Brown-Peterson NJ, Warren JW (2001) The reproductive biology of spotted seatrout, *Cynoscion nebulosus*, along the Mississippi Gulf Coast. *Gulf Mex Sci* 1: 61–73 doi:10.18785/goms.1901.07

Nieland DL, Wilson CA (1993) Reproductive biology and annual variation of reproductive variables of black drum in the northern Gulf of Mexico. *Trans Am Fish Soc* 122:18–327

Wilson CA, Nieland DL (1994) Reproductive biology of red drum, *Sciaenops ocellatus*, from the neritic waters of the northern Gulf of Mexico. *Fish Bull* 92: 841–850

Supplemental Audio Files

1_ Alligator

This file is an alligator bellowing in the Great Salt Pond (GSP) on Spring Island, SC. Recorded on May 18, 2016 at 18:40 Eastern Standard Time (EST).

2_ Atlantic Croaker

This file is an Atlantic croaker calling at station 9M in the May River, SC. Recorded on May 10, 2018 at 11:00 EST.

3_ Atlantic Bottlenose Dolphin

3.1_ Atlantic Bottlenose Dolphin - Burst Pulse

This file contains burst pulse vocalizations from Atlantic bottlenose dolphins at station 37M in the May River, SC. Recorded on March 9, 2014 at 0:20 EST.

3.2_ Atlantic Bottlenose Dolphin - Echolocation

This file contains echolocation signals from Atlantic bottlenose dolphins at station 37M in the May River, SC. Recorded on November 23, 2015 at 9:00 EST.

3.3_ Atlantic Bottlenose Dolphin - Whistles

This file is an Atlantic bottlenose dolphin whistling at station 37M in the May River, SC. Recorded on March 11, 2013 at 5:00 EST.

4_ Oyster Toadfish

4.1_ Oyster Toadfish - Boatwhistle

This file is an example of an oyster toadfish boatwhistle at station 14M in the May River, SC. Recorded on March 21, 2013 at 19:00 EST.

4.2_ Oyster Toadfish - Boatwhistle Chorus

This file is an example of an oyster toadfish boatwhistle chorus at station 14M in the May River, SC. Recorded on April 1, 2013 at 19:40 EST.

4.3_ Oyster Toadfish - Grunt

This file is an example of an oyster toadfish grunt at station 14M in the May River, SC. Recorded on October 9, 2018 at 21:00.

5_ Red Drum

5.1_ Red Drum - Calling

This file is red drum calling at station 37M in the May River, SC. Recorded on June 30, 2013 at 1:40 EST.

5.2_ Red Drum - Chorusing

This file is red drum chorusing at station 37M in the May River, SC. Recorded on September 14, 2014 at 17:00 EST.

6_Silver Perch

6.1_Silver Perch - Calling

This file is silver perch calling at station 37M in the May River, SC. Recorded on March 19, 2013 at 20:40 EST.

6.2_Silver Perch - Chorusing

This file is silver perch chorusing at station 37M in the May River, SC. Recorded on April 12, 2013 at 16:20 EST.

7_Snapping Shrimp

This file is an example of snapping shrimp snaps at station 14M in the May River, SC. Recorded on February 21, 2013 at 11:20 EST.

8_Spotted Seatrout

8.1_Spotted seatrout - Calling

This file is spotted seatrout calling at station 9M in the May River, SC. Recorded on September 8, 2013 at 20:20 EST.

8.2_Spotted seatrout - Chorusing

This file is spotted seatrout chorusing at station 9M in the May River, SC. Recorded on September 7, 2013 at 21:00 EST.