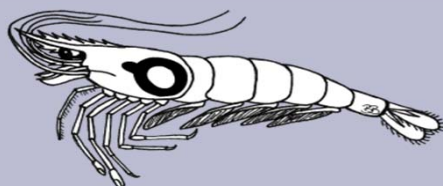
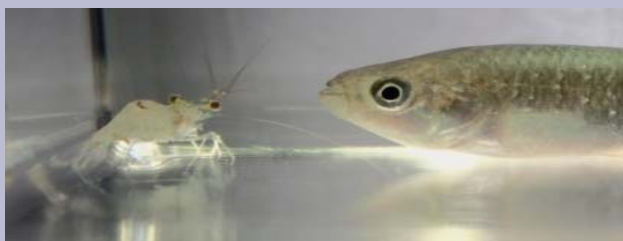




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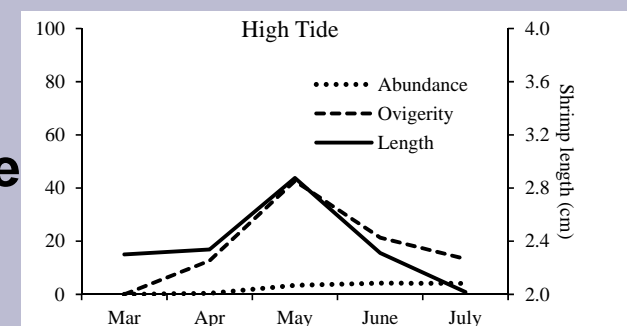


The effect of the bopyrid isopod parasite *Probopyrus pandalicola* and/or the trematode *Microphallus turgidus* on the behavior of *Palaemonetes pugio*



The effect of seasonality and tidal stage on the abundance of the grass shrimp *Palaemonetes pugio* and *P. vulgaris* and their parasites.

Shaiane Pinto



Abiotic influences on the abundance of juvenile flatfishes



Jennie Wiggins

2018



Purpose

- To determine which abiotic factors (e.g., salinity, temperature, wind speed/direction), if any, had an effect on the seasonal abundance of flatfish species in small tidally influenced creek near Savannah, GA

Materials and Methods

- Monthly sampling using a 1 m wide beam trawl
- 3 sequential tows conducted at 2 min each
- Temperature and salinity recorded using thermometer and refractometer, respectively
- Flatfishes counted, measured (1 mm TL), and identified to species



Results

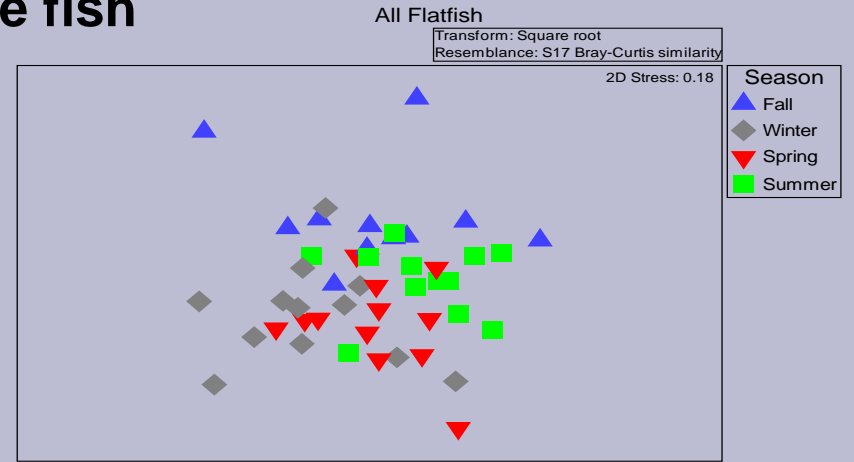
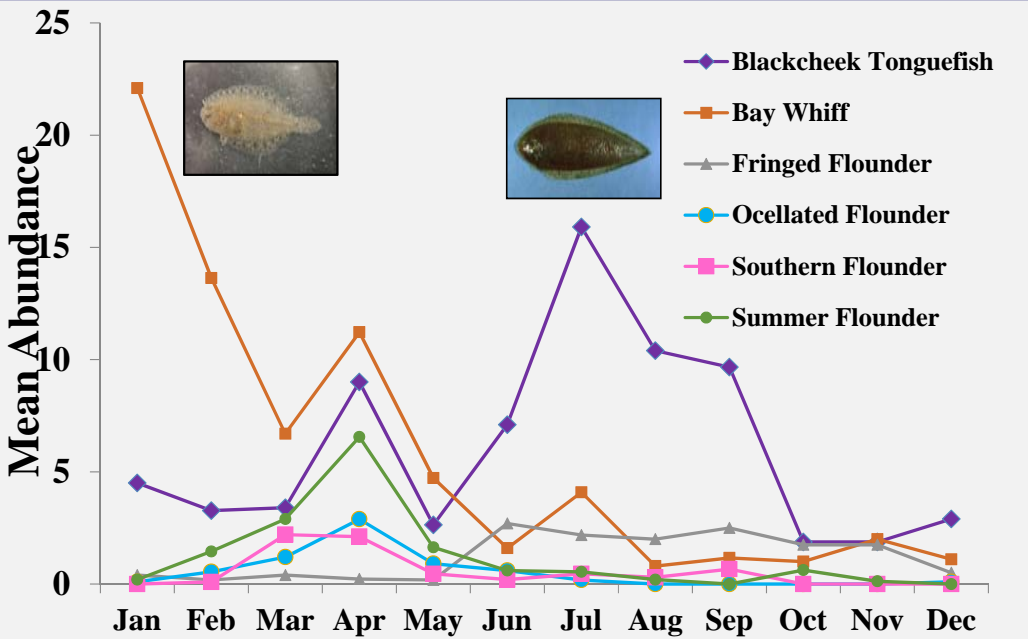
- The bay whiff *Citharichthys spilopterus*, blackcheek tonguefish *Symphurus plagiusa*, and fringed flounder *Etropus crossotus* were collected every season, while the other 4 species were only collected in the winter and spring
- Salinity was generally consistent from season to season, but temperature varied seasonally ranging from $14.1 \pm 2.56^\circ\text{C}$ to $29.0 \pm 1.79^\circ\text{C}$



Table 2. Mean number of flatfishes collected in Wylly Creek, GA from January 2015 – August 2018 according to CPUE. Mean CPUE was calculated as the mean number of individuals per sampling date in each season.

Species	Winter	Spring	Summer	Fall
Bay Whiff	25.0 ± 15.67	6.4 ± 8.00	0.5 ± 0.53	0.6 ± 0.79
Blackcheek Tonguefish	3.3 ± 2.53	2.6 ± 1.48	7.0 ± 5.58	1.0 ± 0.87
Fringed Flounder	0.1 ± 0.06	2.7 ± 2.33	1.1 ± 0.83	0.2 ± 0.17
Gulf Flounder	0.5 ± 0.90	0.6 ± 1.15	0.0 ± 0.00	0.0 ± 0.00
Ocellated Flounder	0.1 ± 0.25	0.3 ± 0.50	0.0 ± 0.00	0.0 ± 0.00
Southern Flounder	0.1 ± 0.20	0.5 ± 1.00	0.0 ± 0.00	0.0 ± 0.00
Summer Flounder	0.1 ± 0.19	1.6 ± 1.66	0.0 ± 0.00	0.0 ± 0.00
# of Sample Days	n=26	n=10	n=11	n=11

How well can you LISTEN to the data on mean abundance (you will hear 12 musical notes – one for each month) Higher pitch means more fish



Contact information
30+ K-12 activities

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