Temporal and habitual assemblage of nekton community in Back Bay Tia Offner, Rebecca Gilpin, Keith Chenier, Just Cebrian, Eric Sparks

Objectives

- Determine species assemblage, along with abundance and diversity of nekton communities in Back Bay, Biloxi, MS: an understudied brackish environment (0-12 ppt).
- Assess marsh and SAV habitat usage by the • nekton community.

Fig 1. Map of study sites.



Field methods

- Study sites: five blocks 120m wide, adjacent to marsh habitat, sampled once a month for a year (Nov '20 - Nov '21).
- At each block, one seine pull of 20x10m and one fyke net placed over a 24 hr tidal cycle, across the seine net path on the marsh edge.



Fig 2. Fyke net at low tide.

Results to Date

VANDER VIEW

Preliminary sampling has uncovered 27 nekton species in this habitat, with some species having



Lab methods

Fish and invertebrates processed in lab by site to determine species, standard length, and wet weight.

Bayou topminnow (Fundulus pulverous)



suggested habitat preferences.





Callinectus sapidus abundance per month per habitat





Micropogonias undulatus abundance per month per habitat





Lepomis microlophus abundance per month per habitat















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