Estuarine Soundscape Observatory Network in the Southeast (ESONS)

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Overview of the Project

- Sound pressure levels of various bandwidths
- Snapping shrimp acoustic behavior
- Courtship sounds and spawning potential of soniferous fish
- Marine mammal vocalizations
- Anthropogenic noise
- Water temp, depth
Accomplishments

- Serviced all nine recorders successfully
- Standardized long-term datasets of soundscape endpoints for May River (n=3), Charleston Harbor (n=3), Chechessee Creek (n=1), Colleton River (n=1), & NI-WB NERRS (n=1) to spring 2021
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Challenges and Looking Ahead

• Challenges
  • Manual review of acoustic files can be time consuming and labor intensive
  • NI-WB NERRS station contains minimal biological sounds, so we may move this station to Port Royal Sound or ACE Basin NERRS

• Objectives for year 2
  • Continue servicing recorders
  • Finish soundscape endpoints through 2022
  • “The Biological and Anthropogenic Soundscape of an Urbanized Port – The Charleston Harbor Estuary”