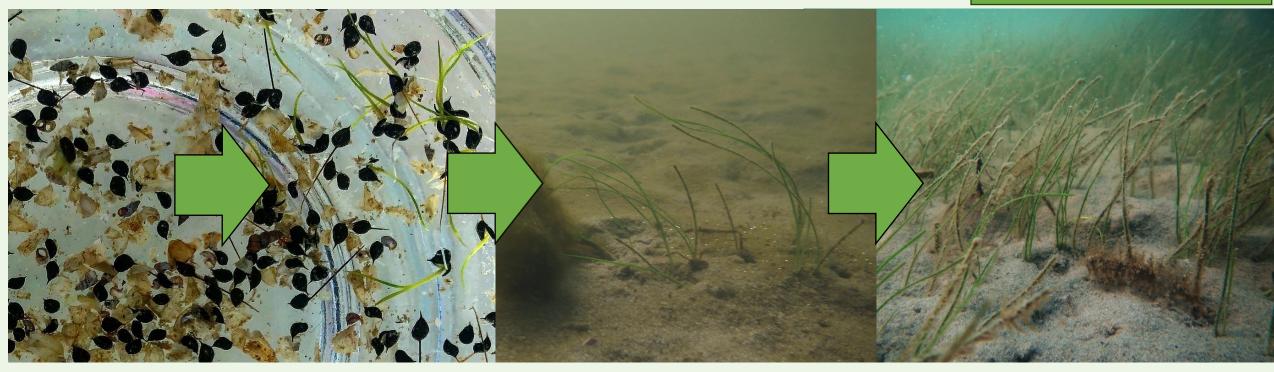
MUD FLAT TO UNDERWATER GRASSLAND Ruppia seed based planting experiment



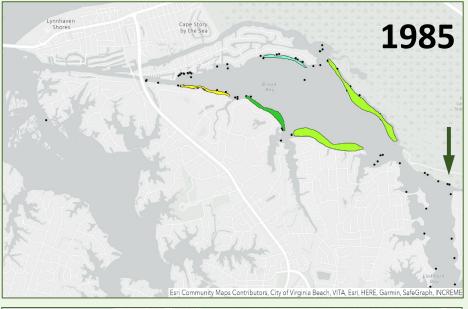


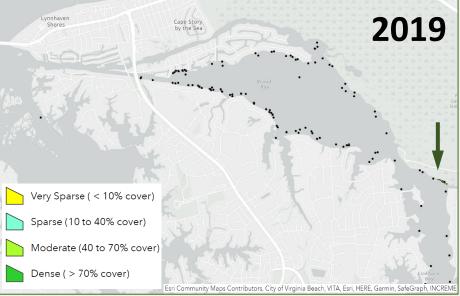
presented by

Dr. Enie Hensel eniehensel@gmail.com



Lynnhaven River SAV History



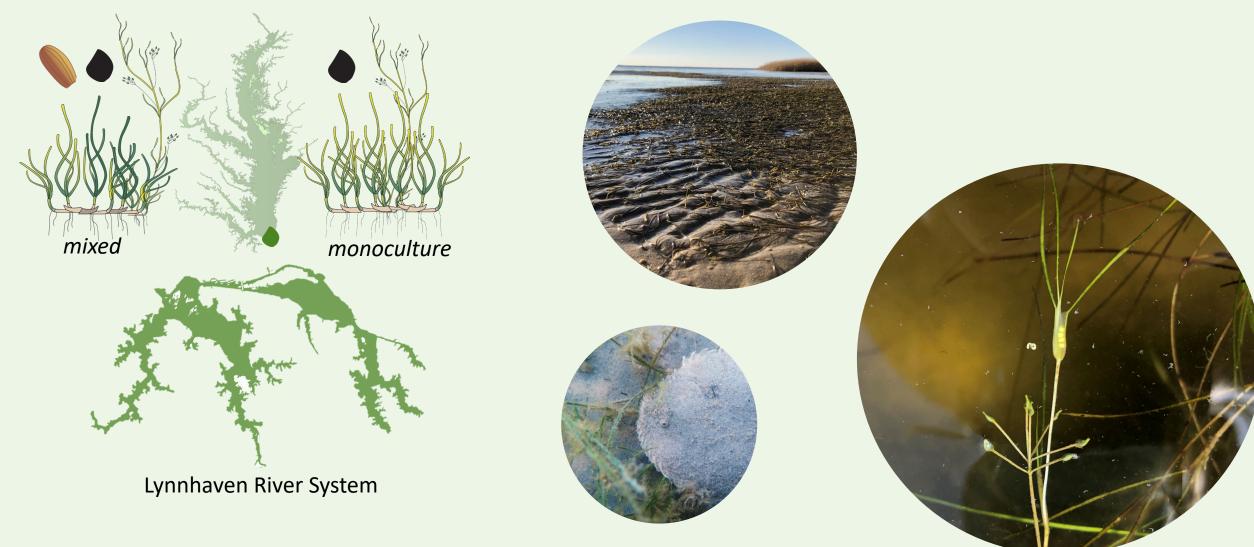




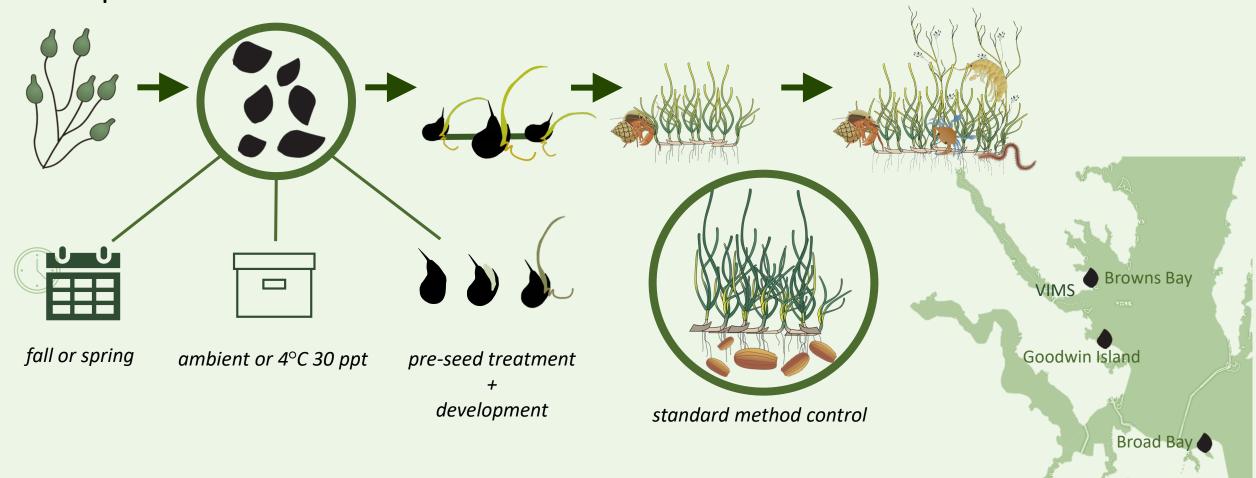
Introduction / Objectives + Methods / Current Observations • Ruppia maritima seed-based planting experiment w/ Enie Hensel (she/her-s)

Q & A at end of presentation — chat box & reactions encouraged

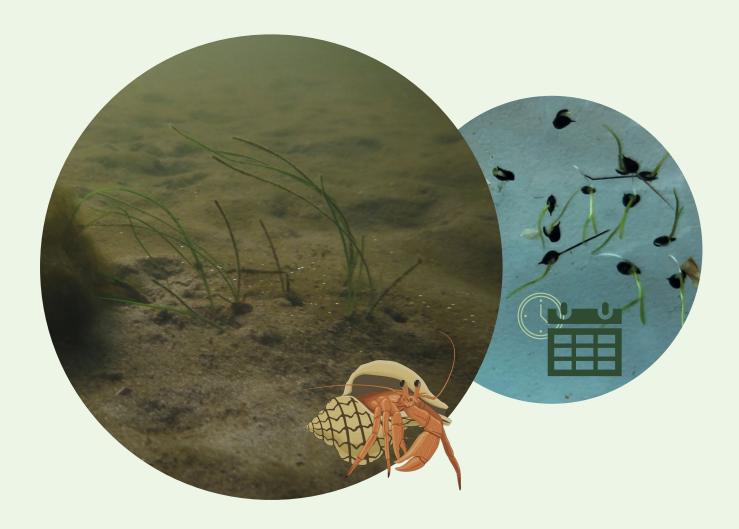
Ruppia maritima | ecology & restoration



How does *Ruppia maritima* broadcast seed dispersal method alter bed establishment and composition?



Current Observations





Acknowledgements | collaborators & funding

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Experimental design + set up

TREATMENTS

- ♠ Ruppia maritima fall
- Zostera maritima fall, method control
- ♠ Ruppia maritima spring
- ♠ Ruppia maritima spring, freshwater shock
- ♠ Ruppia maritima spring, FW shock + germination initiated
- bare control

FIELD SET UP

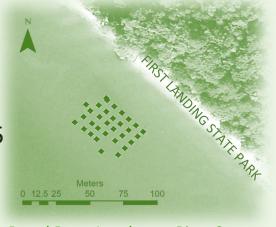
- 3 sites, tow tide depth 0.7 1.0 m
- 5 replicates per treatment per site
- 1m² plot centered in 4m² buffer
- control established beds, transplants of both SAV species at Broad Bay





FIELD SET UP

- estimate 500 seeds for each treatment
- plot ID is randomized
- treatment plots are at least 5 meters apart within ~50m² experimental area



Broad Bay – Lynnhaven River System

SAV + Fauna



- density
- bed expansion area
- canopy height
- above and below ground biomass (15 cm core to root depth)
- other flora present

ZOOM Presenter Spot DELETE AFTER PPT MADE



via 15 cm cores per plot

- abundance/biomass
- species identity + density
- community structure

via 50 g tube cores

- microbial diversity
- microbial N activity

