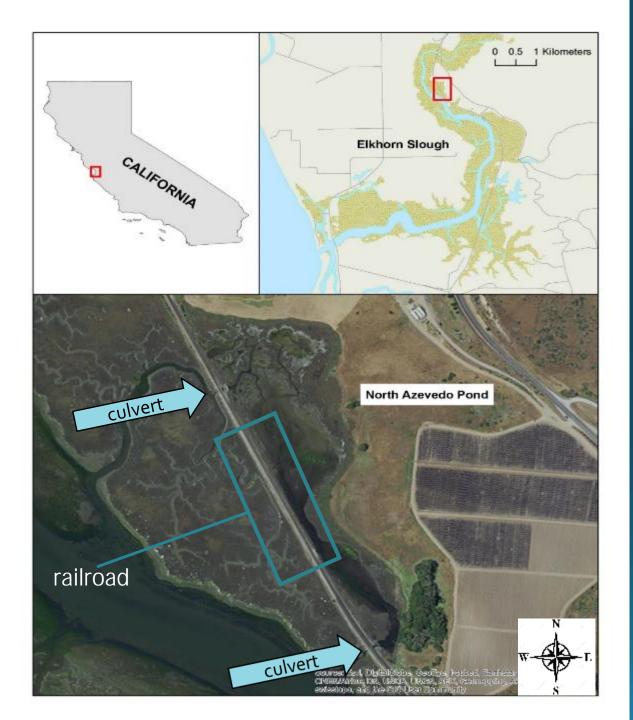
Impacts of water control structures on the infauna of a tidally restricted wetland by Christine Mann

- Elkhorn Slough-many tidally restricted wetlands
- Water control structures: culverts, dikes, levees, tidal gates → poor WQ & restrict flow





North Azevedo Pond, Elkhorn Slough, CA-Tidally restricted system

After Water Control Structures	
South	North
1 Inundation	↑ Inundation
↓Tidal Range	↓ Tidal range





Benthic Sampling

- Before and After Infaunal Sampling
- North and South areas of North Azevedo Pond







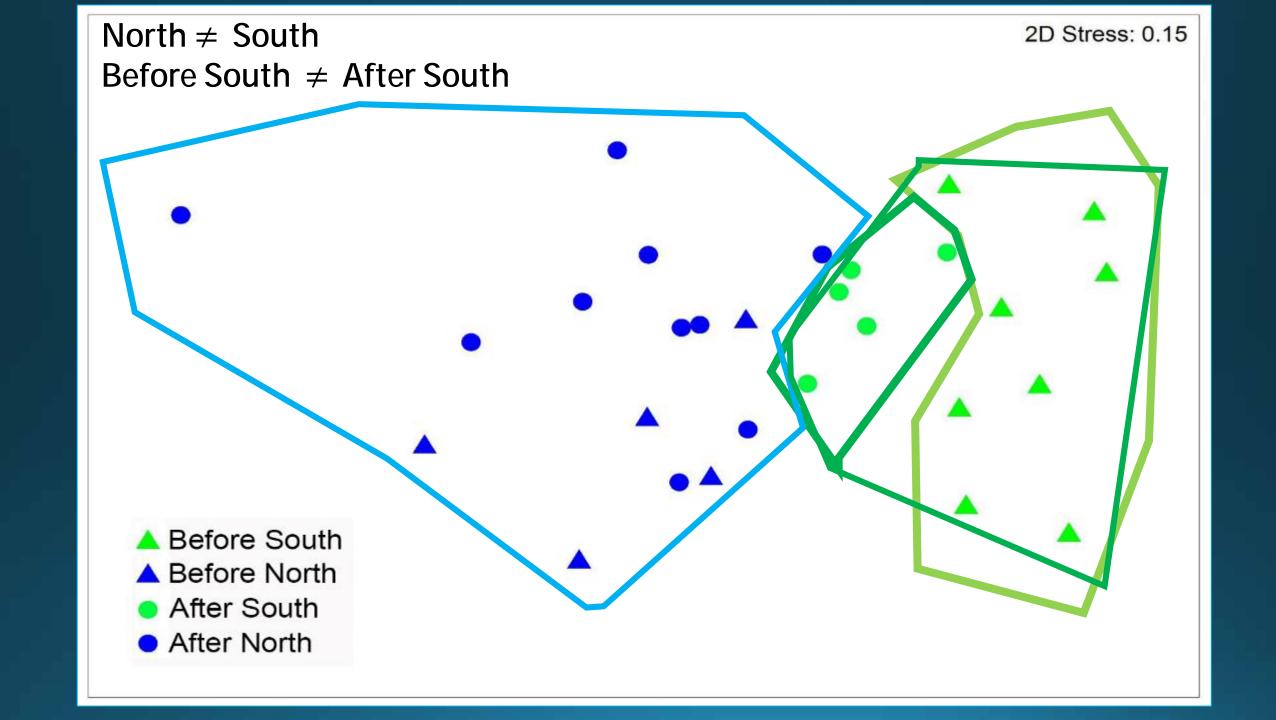




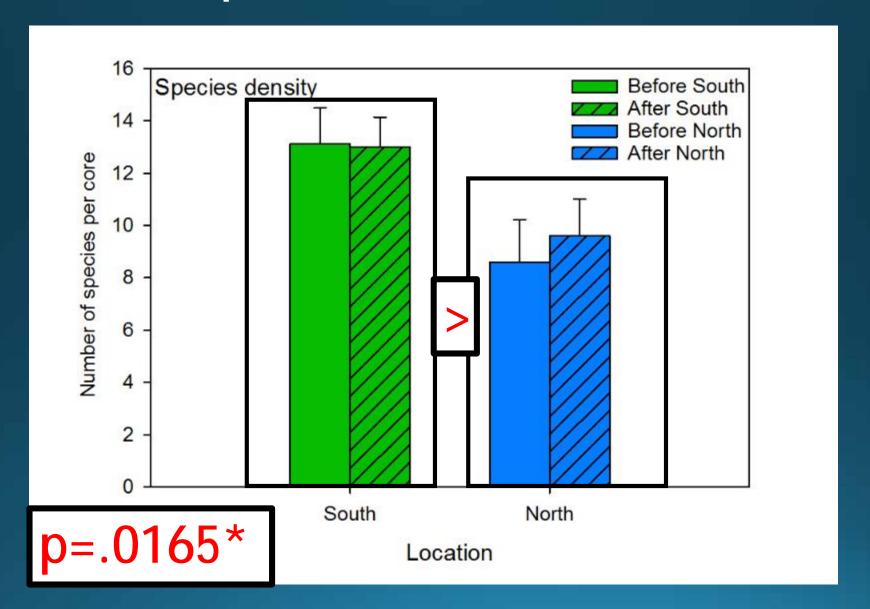








Species Richness



Community drivers



Stress Sensitive Stress Tolerant



South=Mollusks & Crustaceans

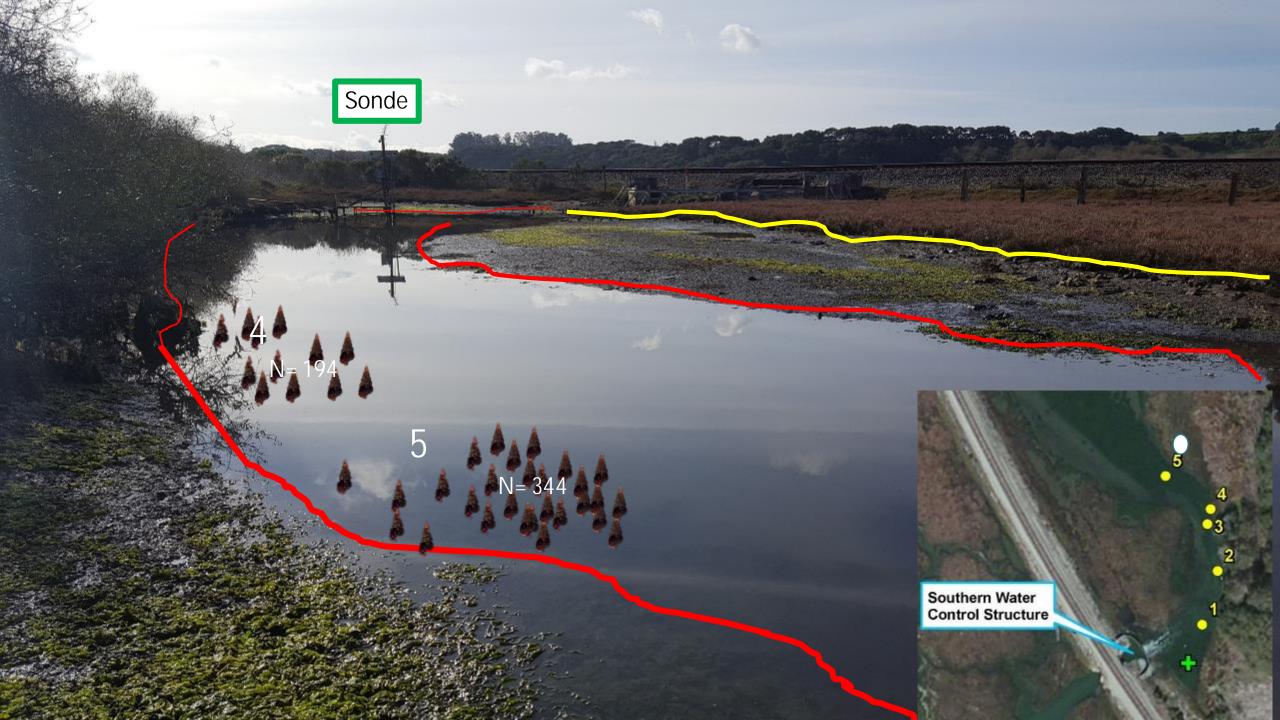


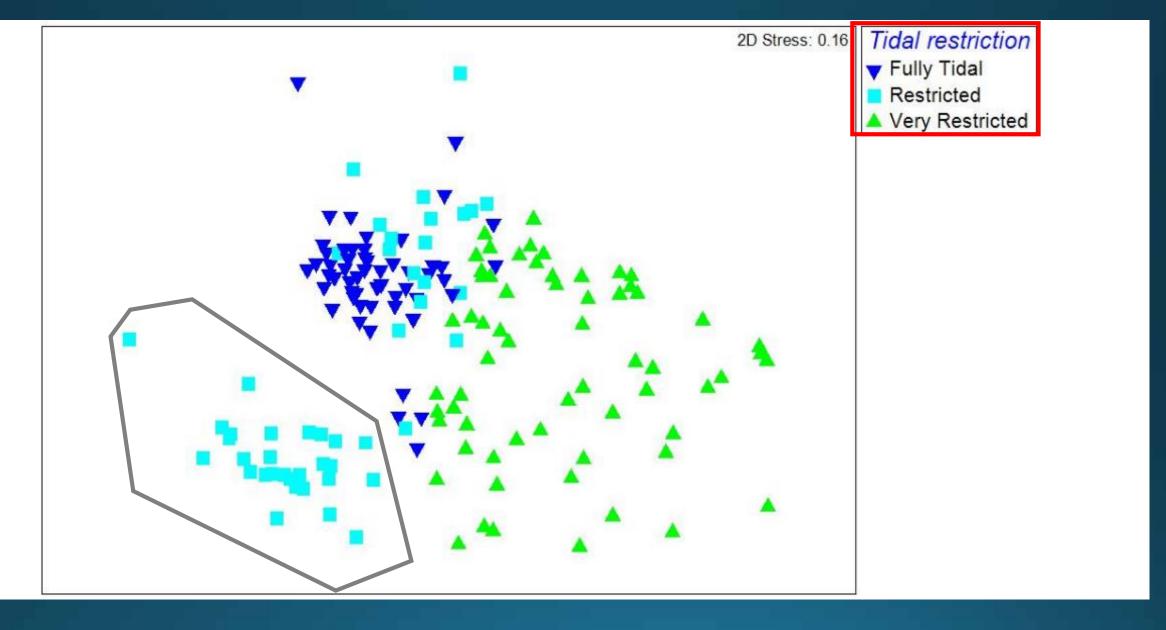
Batillaria- invasive snail



More stress tolerant worm Less stress tolerant worm







North Azevedo Overall ≠ Other Tidal wetlands in Slough

Management implications

- Model of ponding restoration, other places might benefit
- High marsh-limitations
- Continue to monitor Batillaria populations to further explore what about the habitat makes it a unique refuge for it





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