

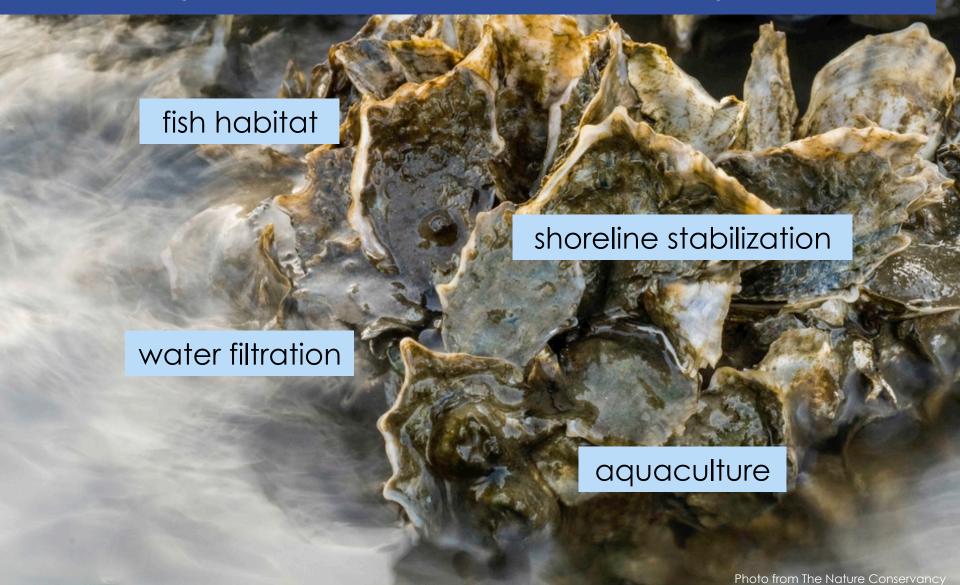
#### Outline

- Introduction to oysters
- Research objectives
- Proposed methods
- Looking forward



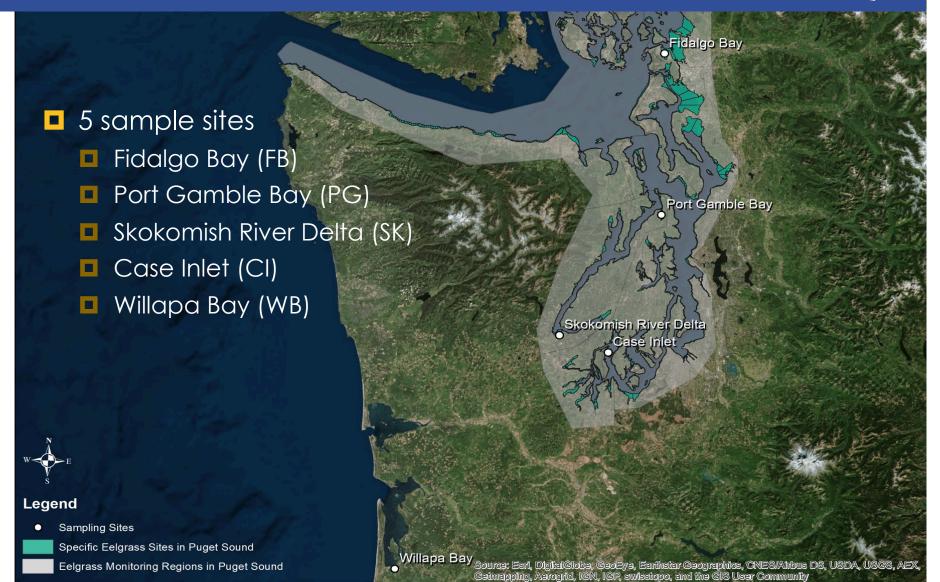


#### Oysters and the Ecosystem

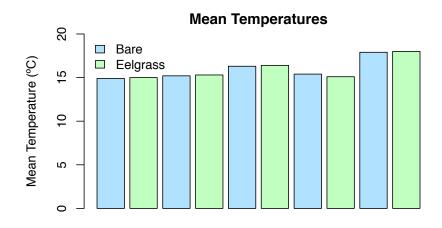


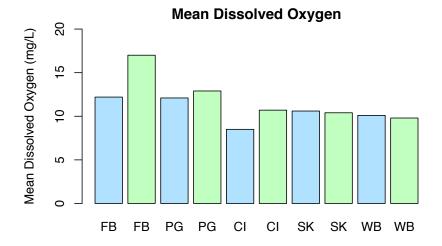


### **Environmental Variability**



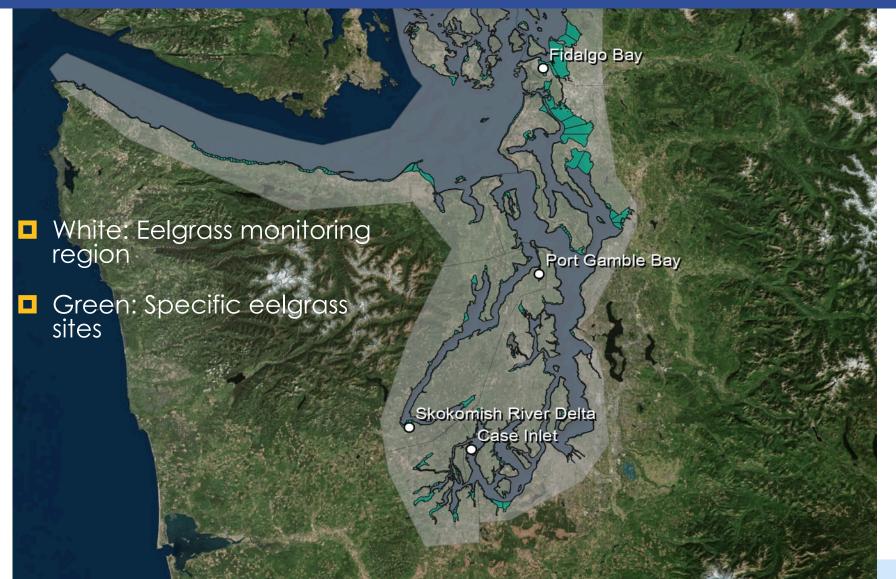
## **Environmental Variability**



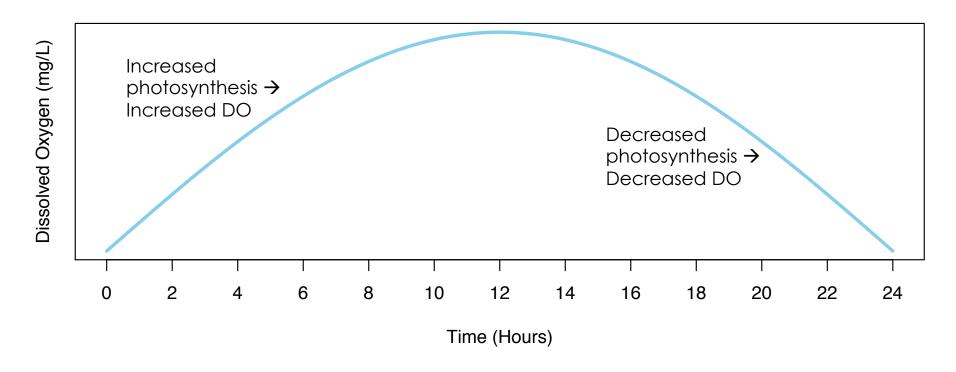


- □ WB warmest site (18°C)
- FB had highest DO
  - Bare: 12.2 mg/L
  - Eelgrass: 17 mg/L
- CI had lowest DO
  - Bare: 8.5 mg/L
  - Eelgrass: 10.7 mg/L

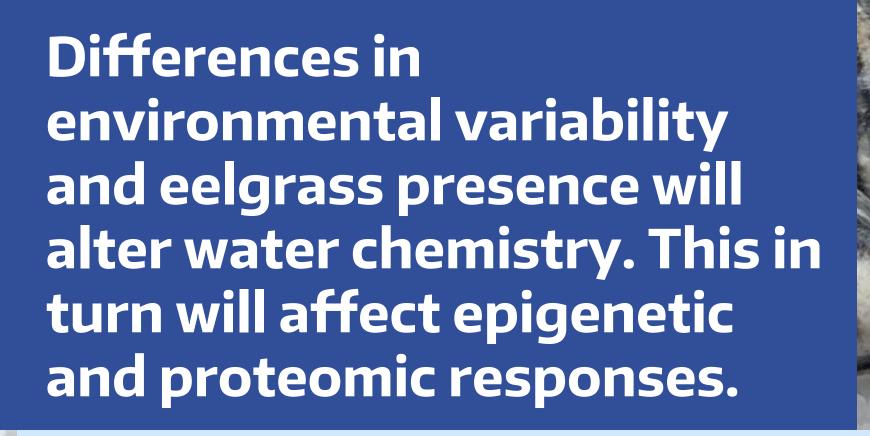
# **Eelgrass Presence**



## **Eelgrass Presence**

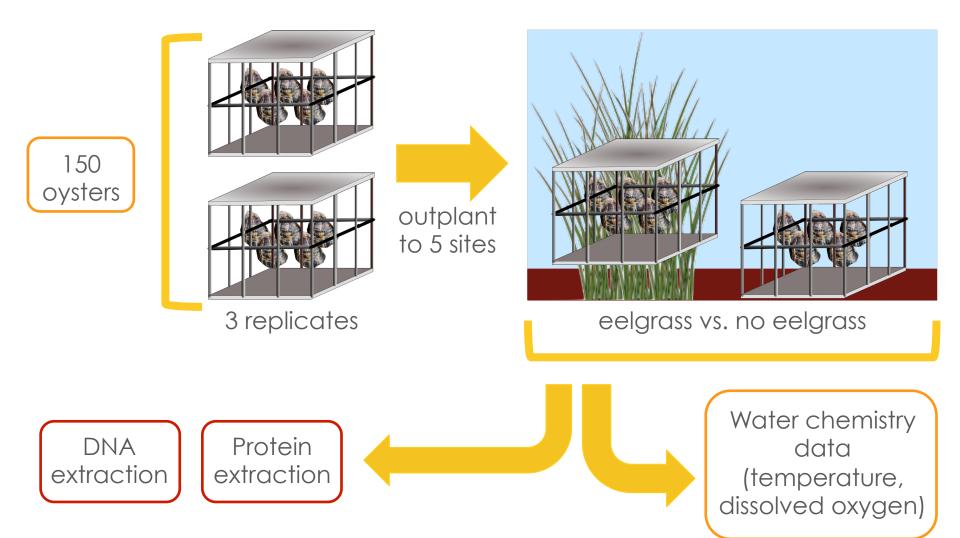


- Does eelgrass buffer or contribute to stress?
  - Buffer: Decreased expression of proteins for oxidative stress
  - Contribute: Increased expression of proteins for oxidative stress

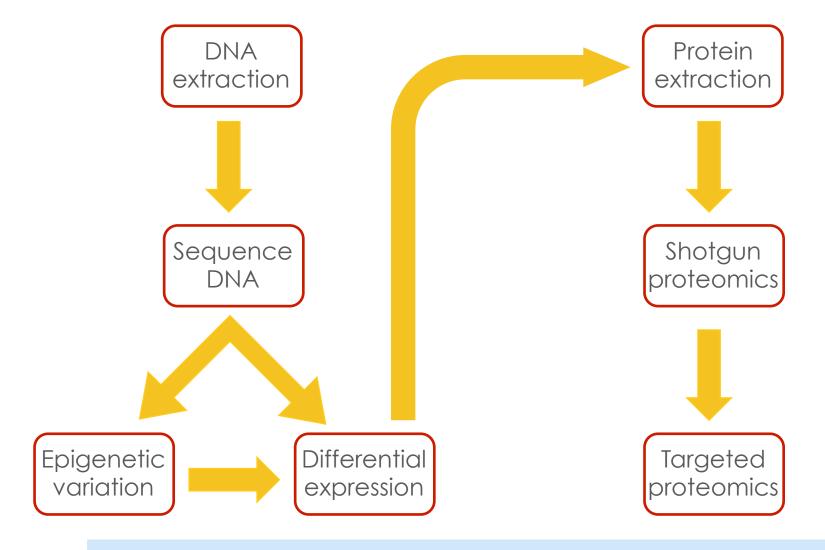


How can we test this?

## **Experimental Overview**



#### Methods



## **Looking Forward**

- Study effects of several environmental conditions in one experiment
- Hypotheses
  - Eelgrass
  - Temperature
  - DO (pH)
- Land management
- Apply findings to mechanistic lab study





Yaamini Venkataraman yaaminiv@uw.edu http://bit.ly/project-oyster-oa

