



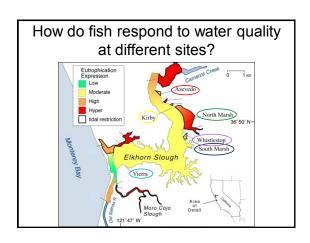


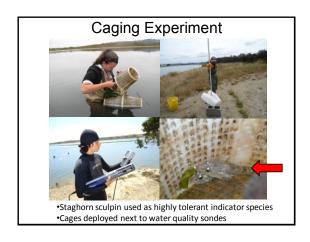


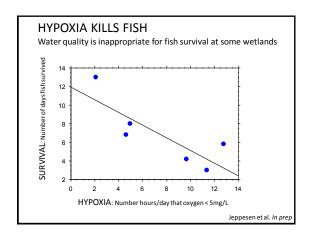


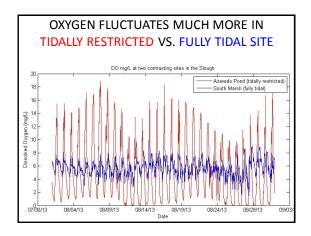


ROAD MAP How are animals and plants affected by high nutrient levels in the estuary? How does artificial restriction of tidal exchange interact with effects of nutrients? - Eelgrass - Fish - Oysters - Overall biodiversity - Salt marsh

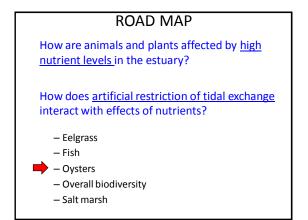


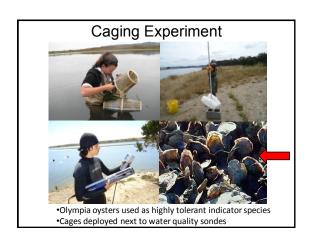


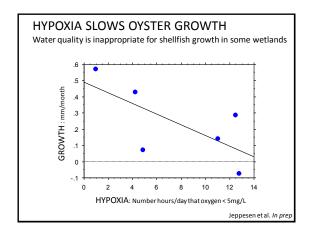


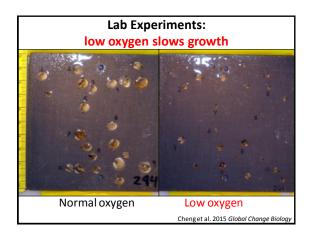


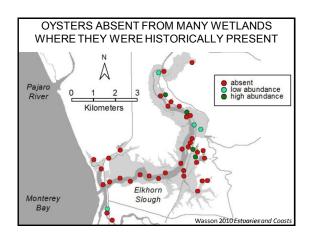






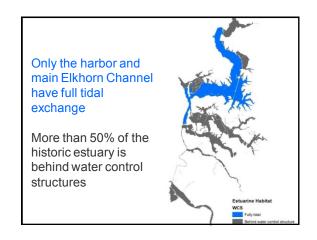












ROAD MAP

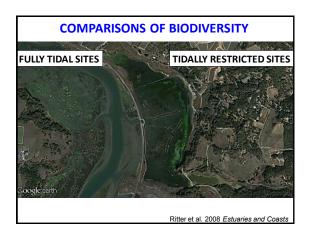
How are animals and plants affected by <u>high</u> <u>nutrient levels</u> in the estuary?

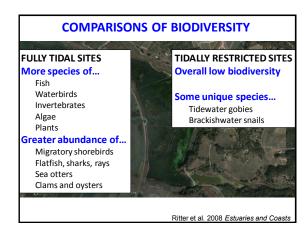
How does <u>artificial restriction of tidal exchange</u> interact with effects of nutrients?

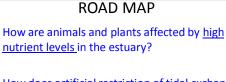
- Eelgrass
- Fish
- Oysters
- Overall biodiversity
 - Salt marsh











How does <u>artificial restriction of tidal exchange</u> interact with effects of nutrients?

- Eelgrass
- Fish
- Oysters
- Overall biodiversity
- → Salt marsh





Linear Otenson, 1843, 2009, 1854–1842

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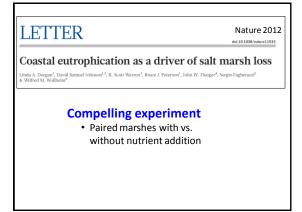
Salt marshes and eutrophication: An unsustainable outcome

R. Eugene Turner,** Brian L. Howes,* John M. Teal,* Charles S. Milan,* Erick M. Swenson,* Dale D. Gochringer-Toneré

Nutrients lead to

- Fewer marsh roots
- · Less organic matter below ground
- Higher decomposition rates
- Decreased ability to build marsh upward
- Loss of sustainability in the face of sea level rise

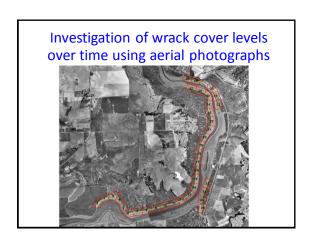


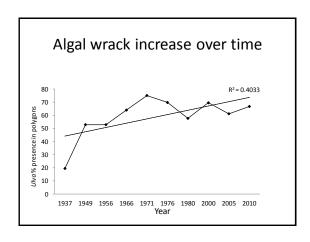






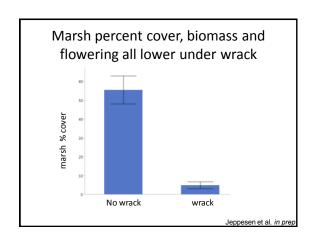


















ROAD MAP

How are animals and plants affected by high nutrient levels in the estuary?

How does artificial restriction of tidal exchange interact with effects of nutrients?

- Fish die and oysters stop growing in Elkhorn Slough wetlands with poor water quality
- Biodiversity is decreased in diked wetlands due to reduced water quality
- Nutrients harm marshes by increasing wrack mats
- Nutrients also decrease marsh sustainability in the face of sea level rise