

Western Washington University Western CEDAR

Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference (Seattle, Wash.)

Apr 5th, 10:05 AM - 10:10 AM

Does eelgrass act as an ocean acidification refuge for shellfish in the Salish Sea?

Bonnie Becker *Univ. of Washington Tacoma, United States*, bjbecker@uw.edu

Michelle McCartha *Univ. of Washington Tacoma, United States,* mmcc1234@uw.edu

Micah Horwith

Washington State Dept. of Natural Resources, United States, Micah.Horwith@dnr.wa.gov

Follow this and additional works at: https://cedar.wwu.edu/ssec

Part of the Fresh Water Studies Commons, Marine Biology Commons, Natural Resources and Conservation Commons, and the Terrestrial and Aquatic Ecology Commons

Becker, Bonnie; McCartha, Michelle; and Horwith, Micah, "Does eelgrass act as an ocean acidification refuge for shellfish in the Salish Sea?" (2018). *Salish Sea Ecosystem Conference*. 129. https://cedar.wwu.edu/ssec/2018ssec/allsessions/129

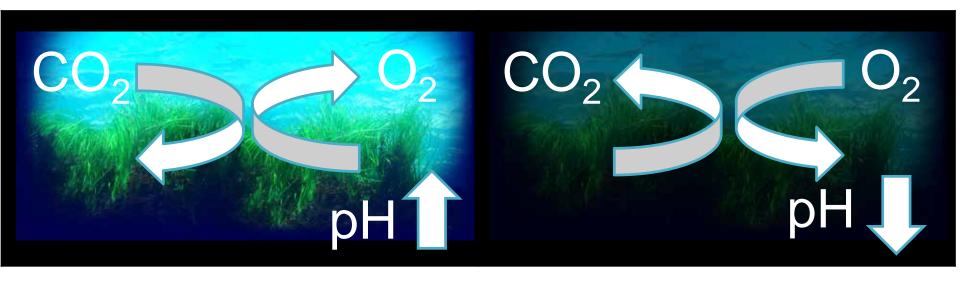
This Event is brought to you for free and open access by the Conferences and Events at Western CEDAR. It has been accepted for inclusion in Salish Sea Ecosystem Conference by an authorized administrator of Western CEDAR. For more information, please contact westerncedar@wwu.edu.

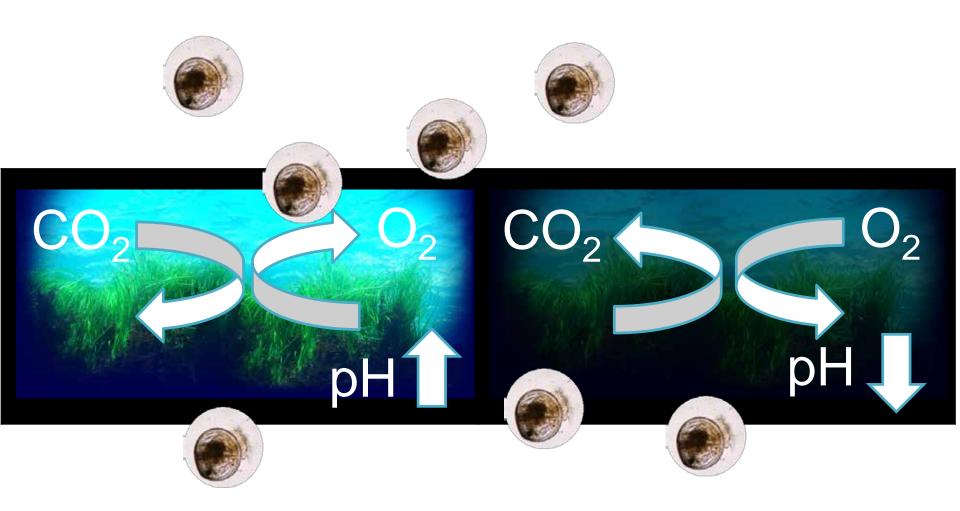
Does eelgrass act as an ocean acidification refuge for shellfish in the Salish Sea?

Bonnie J Becker Michelle McCartha

Micah Horwith

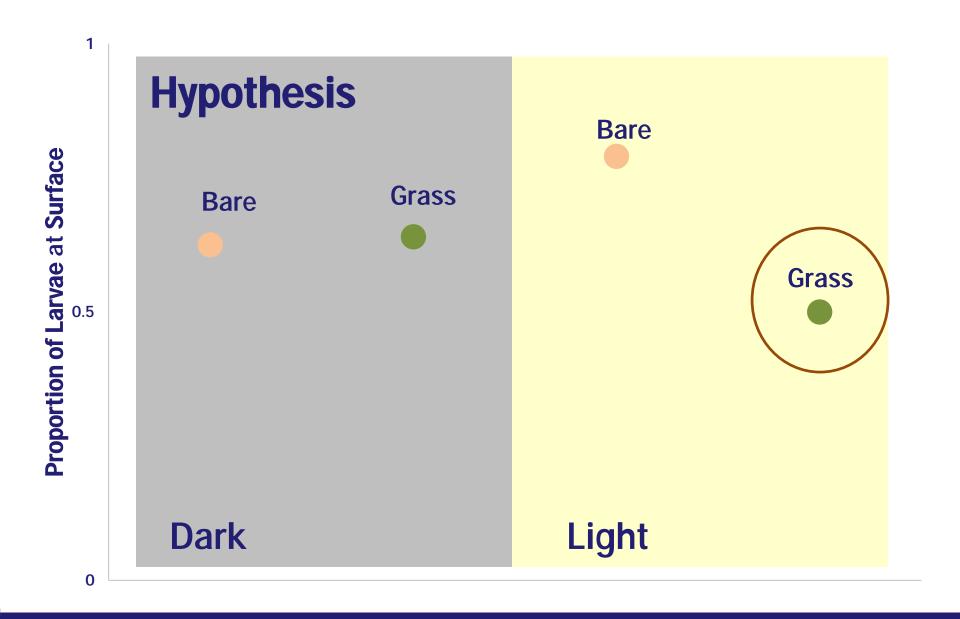


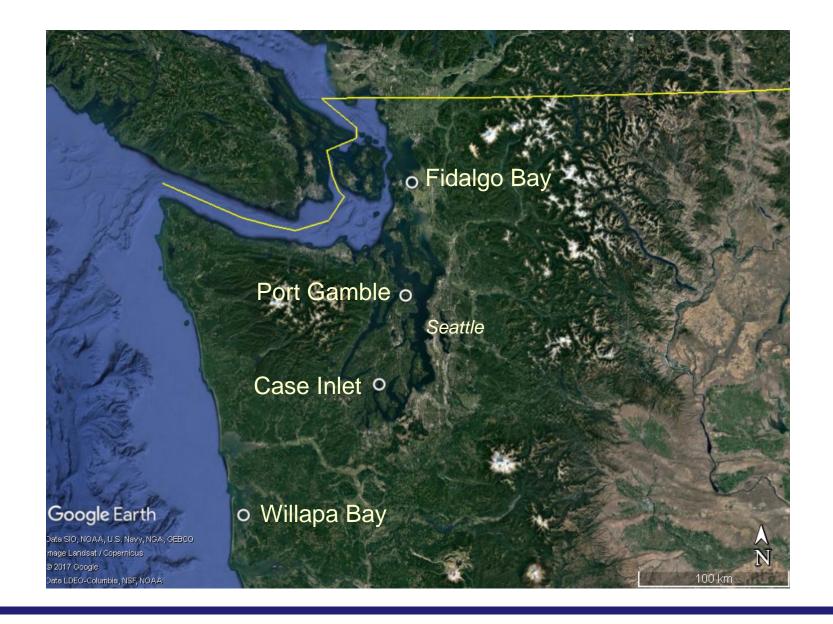






Summer 2015







Pacific oyster (Crassostrea gigas)



Mussels (Mytilus spp.)



Olympia oyster (Ostrea lurida)



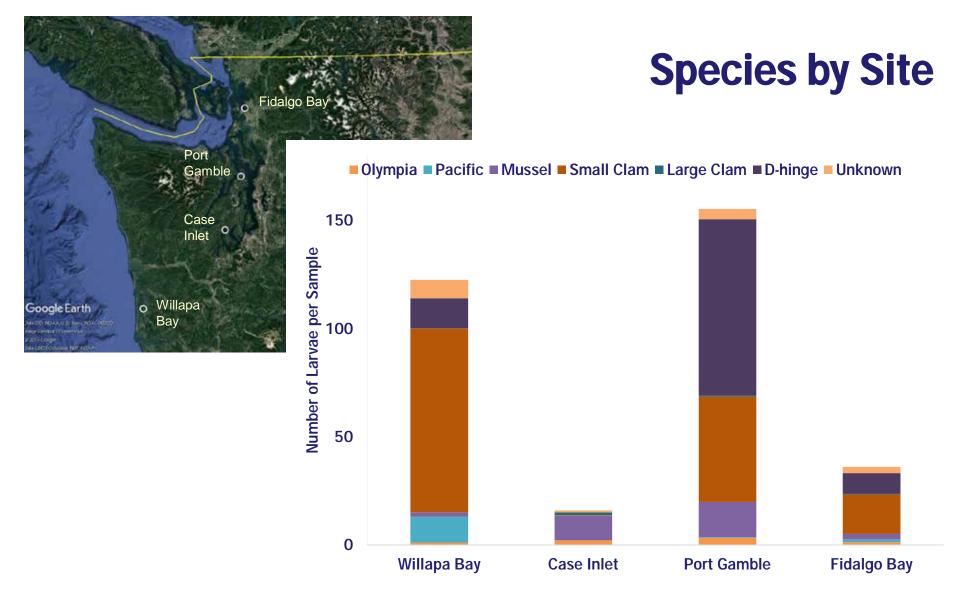
Large clams>251 mm length

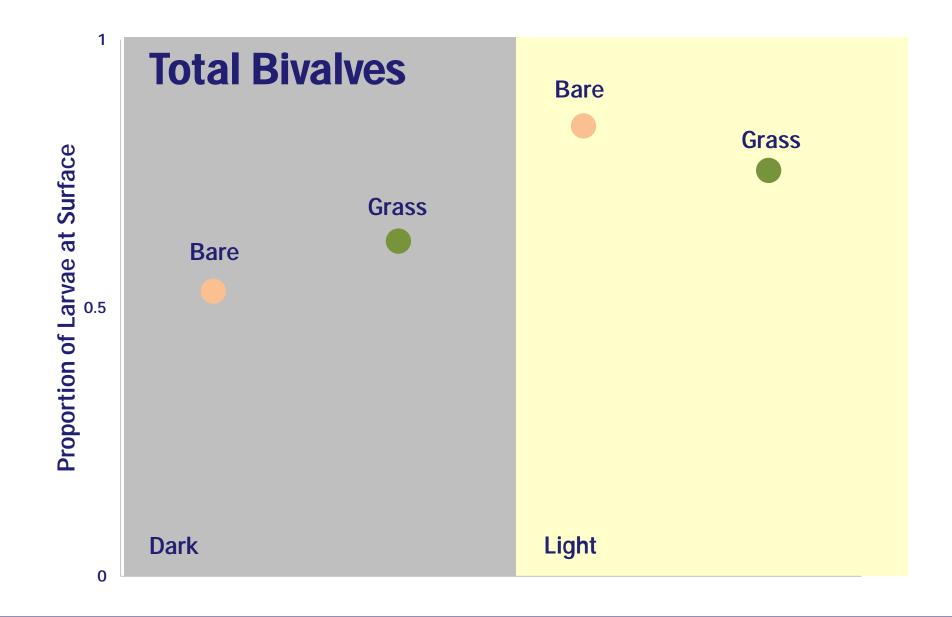


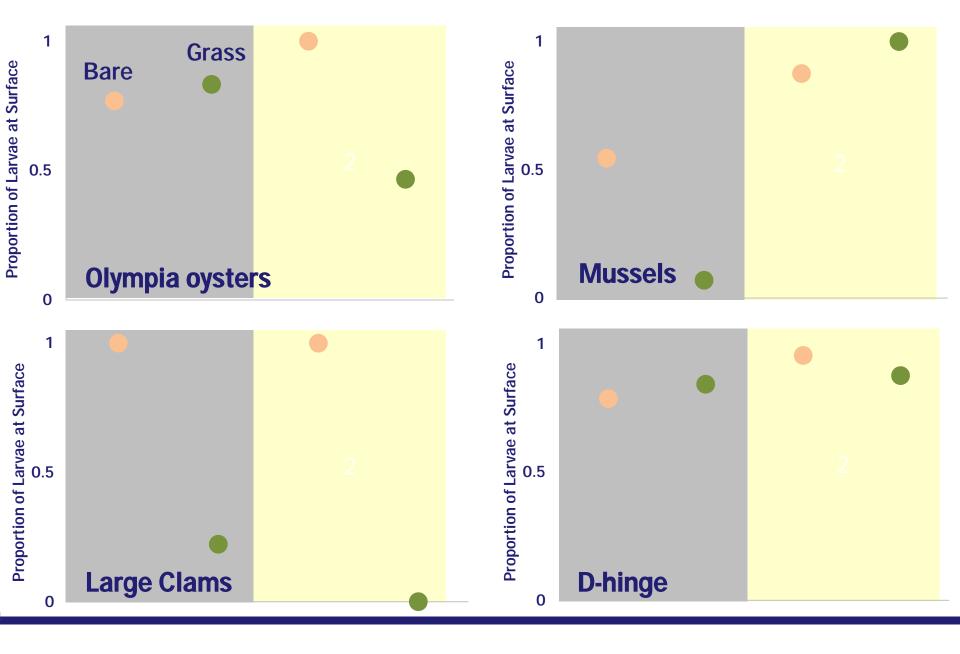
Small clams <250 mm length

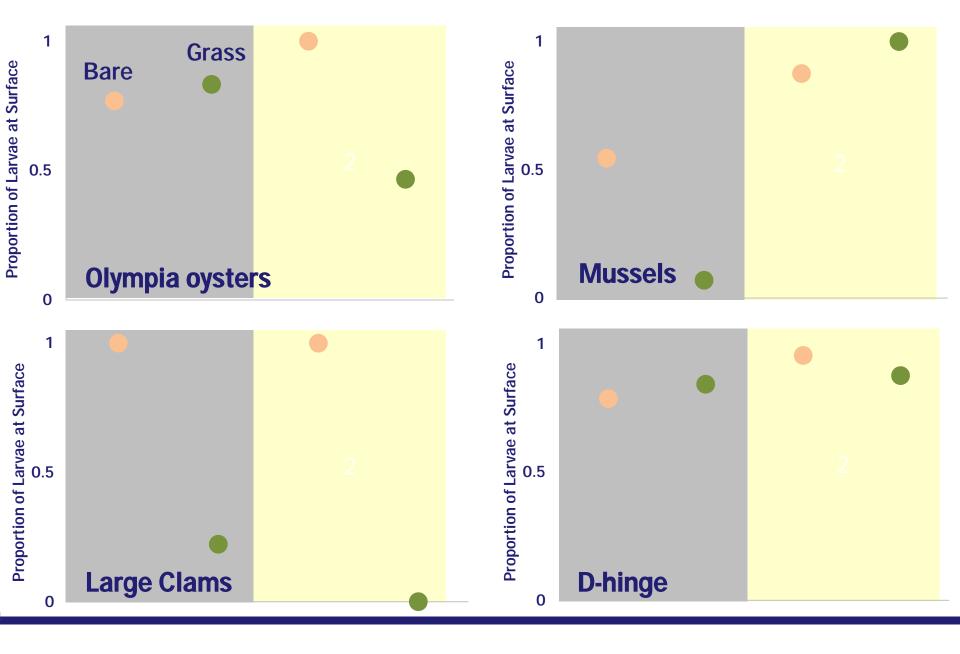


D-shaped veliger (mixed species)









Preliminary Conclusions

- Seagrass could be a refuge from low pH for bivalve larvae, but...
 - Likely will be species-specific and sizedependent behaviors
 - Other ecological drivers are also present

Funding Washington DNR UW Tacoma School of IAS

Thank You!

Technical Support Steven Roberts Brent Vadopalas Sam White

Counting Romina Centurion Justin Drake Stevie Collins Suji Kim Brianna Loucks Grace McKenney David Mullins Sarah White

Field and Other Support Cinde Donoghue Megan Hintz Brenda Smithhisler Alan Trimble Katie Zentner



Time's Up!

