Figures for South Slough NERR / NOAA CBRP Native Oyster Final Report:

Figure 1. Native Olympia oyster (*Ostrea lurida*) in eelgrass habitat (*Zostera marina*) along the shoreline of Coos Bay, Oregon

![Image of a native Olympia oyster in eelgrass habitat](image1.jpg)

Figure 2. Multi-generational cluster of Olympia oysters (*Ostrea lurida*) within Coos Bay, Oregon

![Image of a multi-generational cluster of Olympia oysters](image2.jpg)
Figure 3. Geographic comparison of oyster shell length and width relationships for adult Olympia oysters (Ostrea lurida (conchaphila)) from Coos Bay (OR) and Willapa Bay (WA). We did not observe any significant differences between the shell dimensions between locations.
Figure 4. Coos Bay / South Slough estuary, OR. Map indicates the location for deployment of paired common-garden experiments to investigate the ecological performance of adult Olympia oysters collected from Coos Bay and Willapa Bay. Map also indicates the location of ABS fouling panels with Olympia oysters to monitor the extent of overgrowth competition by epifouling invertebrates.
Figure 5. Location of the Younker Point Oyster Transplant Site, South Slough Estuary, OR.

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Figure 6. Adult Olympia oyster (Ostrea lurida) affixed to an ABS plastic plate with Gorilla glue. Plates with oysters were deployed from docks and piers throughout Coos Bay to gauge the extent of overgrowth competition from epifouling invertebrates such as tunicates, sponges, and bryozoans.

Figure 7. Non-native colonial tunicate (Botrylloides violaceus) growing on the shell of a native Olympia oyster (Ostrea lurida) in Charleston Marina, OR.
Figure 8. Native Olympia oyster (*Ostrea lurida*) affixed to the shell of a non-native Pacific oyster (*Crassostrea gigas*) in Coos Bay, OR.
Figure 9. Natural recruitment of several juvenile Olympia oysters (*Ostrea lurida*) onto shells of living adult Olympia oysters (Isthmus Slough/Coalbank Slough; Coos Bay, OR).
Figure 10. South Slough Estuary: Time-series measurements of ambient estuarine water parameters recorded by the NERR System-Wide Monitoring Program moored station at Valino Island. A. Dry season (July 2008; Temperature range: 10.1 to 18.6 °C / Salinity range: 30.4 to 33.2). B. Wet season (November 2008; Temperature range: 10.2 to 14.4 °C / Salinity range: 17.7 to 30.4).
Figure 11. South Slough Estuary: Time-series measurements of ambient estuarine water parameters recorded by a moored YSI-6600 dataloger deployed adjacent to the Olympia oyster grow-out site at Younker Point. A. Dry season (August 2008; Temperature range: 11.5 to 18.2 °C / Salinity range: 30.5 to 33.1). B. Wet season (December 2008; Temperature range: 8.1 to 11.4 °C / Salinity range: 27.7 to 32.2).
Figure 12. Grow-out of Olympia oyster (*Ostrea lurida*) cultch bags on PVC racks at Younker Point, South Slough estuary, OR.
Figure 13. Measurement of the shell length and growth of juvenile Olympia oysters (*Ostrea lurida*) with digital calipers (South Slough NERR; Estuarine and Coastal Science Laboratory). Living juvenile Olympia oyster is attached to the shell of a non-living Pacific oyster (*Crassostrea gigas*).
Figure 14. Comparison of growth rates for juvenile Olympia oysters (*Ostrea lurida*) in Coos Bay and the South Slough.
Figure 15. Size-frequency distributions for Olympia oysters (*Ostrea lurida*) within Coos Bay over the period from January to April 2009. The population experienced natural settlement and recruitment of juvenile oysters.
Figure 16. Size-frequency distributions for broodstock Olympia oysters (*Ostrea lurida*) at the Younker Point transplant site (South Slough estuary) over the period from January to May 2009.
Figure 17. Transfer of Olympia oyster cultch (*Ostrea lurida*) produced by the Whiskey Creek Shellfish Hatchery to the grow-out site at Younker Point, South Slough estuary (July 7, 2009).
Figure 18. Transfer of Olympia oyster cultch (*Ostrea lurida*) produced by the Whiskey Creek Shellfish Hatchery to the grow-out site at Younker Point, South Slough estuary (July 7, 2009).
Figure 19. Transfer of Olympia oyster cultch bags (*Ostrea lurida*) produced by the Whiskey Creek Shellfish Hatchery to the grow-out site at Younker Point, South Slough estuary (July 7, 2009).
Figure 20. Repositioning of Olympia oyster cultch bags (*Ostrea lurida*) in the lower intertidal zone at the oyster grow-out site at Younker Point, South Slough estuary (July 8, 2009).
Figure 21. Olympia oyster cultch bags (*Ostrea lurida*) stacked in the lower intertidal zone at the oyster grow-out site at Younker Point, South Slough estuary (July 8, 2009).
Figure 22. Olympia oyster cultch bags (*Ostrea lurida*) stacked on wooden pallet in the lower intertidal zone at the oyster grow-out site at Younker Point, South Slough estuary (July 8, 2009).

Figure 23. Olympia oyster cultch bags (*Ostrea lurida*) stacked on wooden pallet in the lower intertidal zone at the oyster grow-out site at Younker Point, South Slough estuary (July 8, 2009).
Figure 24. Juvenile Olympia oysters (*Ostrea lurida*) growing inside cultch bags on shells of non-living Pacific oysters (*Crassostrea gigas*) in the lower intertidal zone at the oyster grow-out site at Younker Point, South Slough estuary.