

Patterns of *Ichthyophonus* infection in Age 0 Pacific herring

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Poster Summary

The monthly prevalence of *Ichthyophonus* infection was assessed in age 0 Pacific herring at index locations including Cordova Harbor, AK (2015) and three sites in the Salish Sea, WA (Port Angeles Harbor, Port Ludlow Harbor, and Admiralty Inlet) during 2018. A marked temporal increase in infection prevalence (nearly 70%) occurred in Cordova Harbor; however, analogous increases have not yet been detected from the other sampling locations.

Possible causes for these differences in infection prevalence include:

- A natural pattern in *Ichthyophonus* transmission where transmission increases May-June
- A "harbor effect" where all harbors show this pattern in infection prevalence, possibly due to density-dependent transmission or other factors unique to harbors
- A Cordova-specific pattern driven by natural or anthropogenic factors unique to Cordova harbor

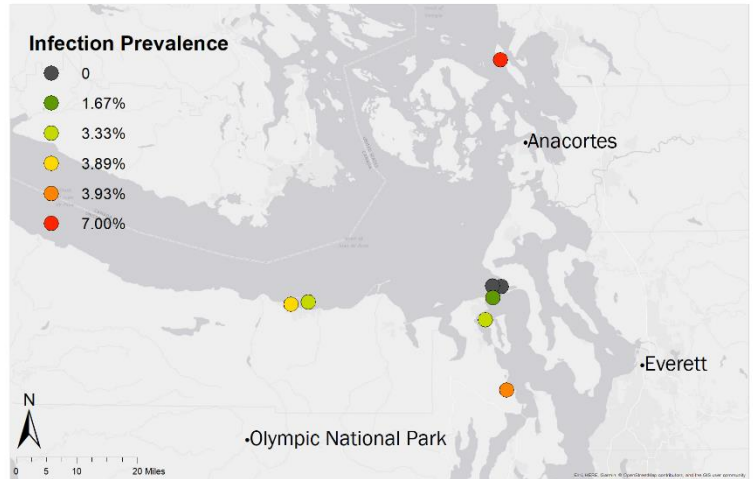
The project will include two major studies: (1) a comparison of harbors to monitor monthly *Ichthyophonus* infection prevalence, and (2) an in-depth study of Cordova harbor.

Supplemental Materials



2018 Sampling Sites

All sites sampled in 2018 are shown above. These sites include one-time sample events produced from herring sampled by Washington DFW and NOAA researchers. The combined infection prevalence was 3.39%. (Wendt et al. *In Prep.*)



***Ichthyophonus* infection prevalence 2018**

Results of Puget Sound 2018 sampling are shown above. Sites shown only include sampling events with >60 individuals. Infection prevalence is indicated in color, with red (7.00%) indicating highest infection prevalence, and grey indicating an infection prevalence of 0.00%. (Wendt et al. *In Prep.*)



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