



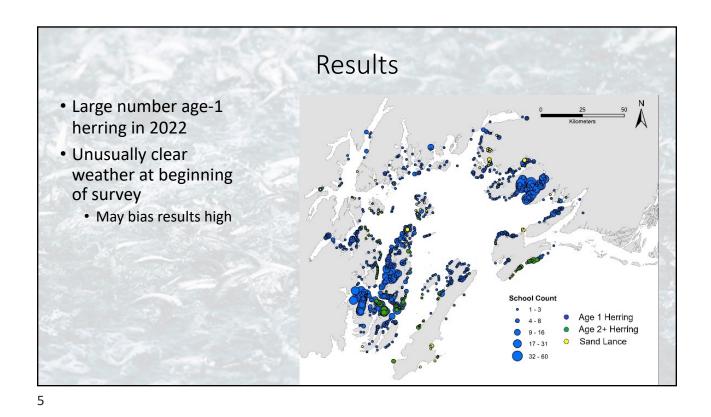
Methods

- Coastline flown
- 1000 ft
- Identify species, school size, age of herring
- Majority of fish observed are juvenile (age-1) herring, then sand lance, adult herring, and occasionally capelin.
- PWSRCAC sponsored work supplemented previous efforts

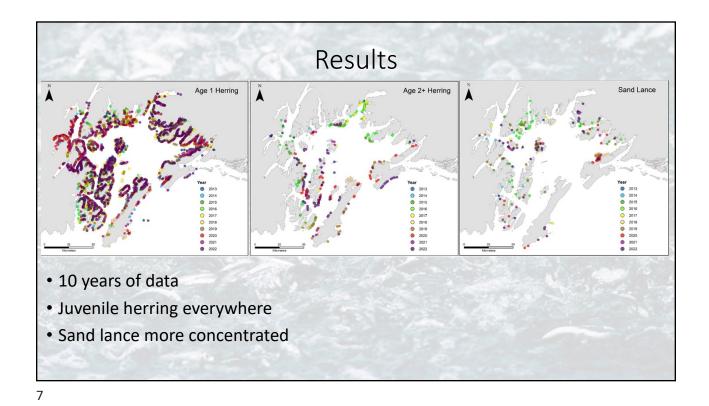


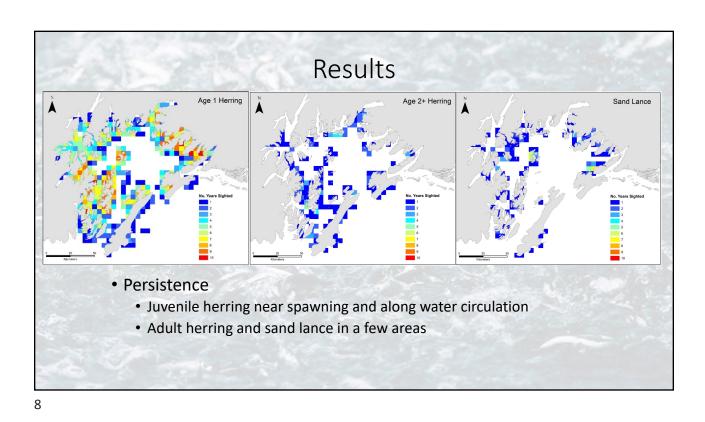
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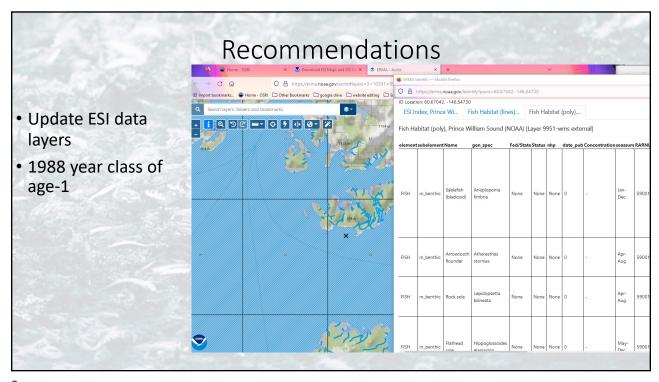
Correctly identify Herring 90-95% Sand lance 74-85% Herring age 75-90% Range based on three different interpretations of the same data How to interpret mixed schools and age-0 fish

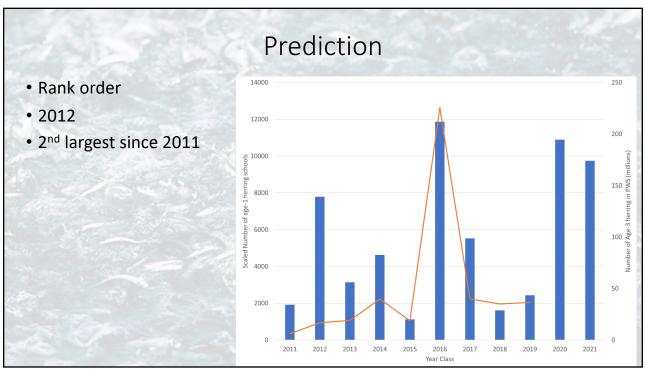


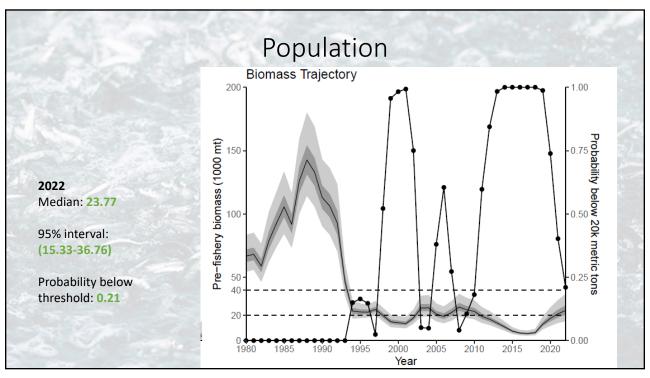
Results Corrected for the school size Small school equivalent Expecting larger year 14000 class joining the Number of age-1 herring schools 12000 spawning biomass in 10000 2023 8000 6000 4000 2000 2014 2016 2017 2020 2021 Year

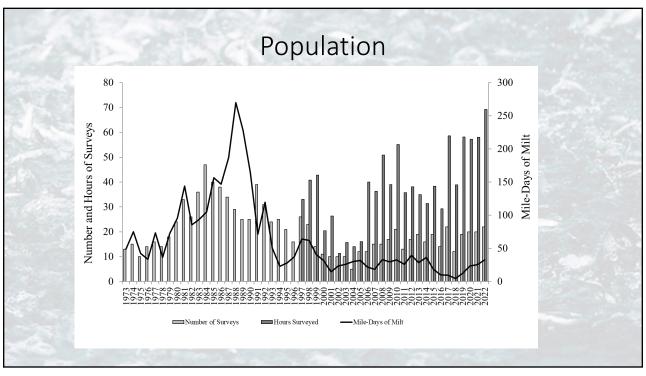




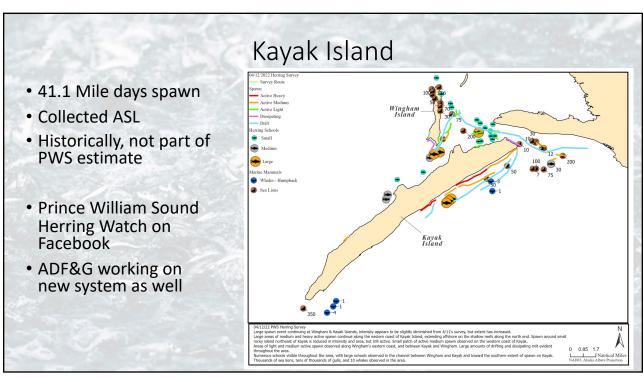


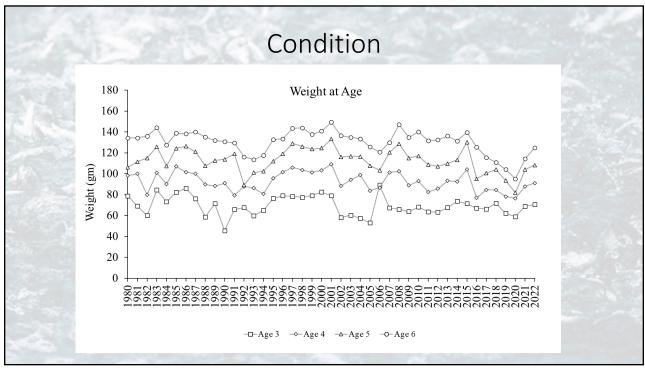


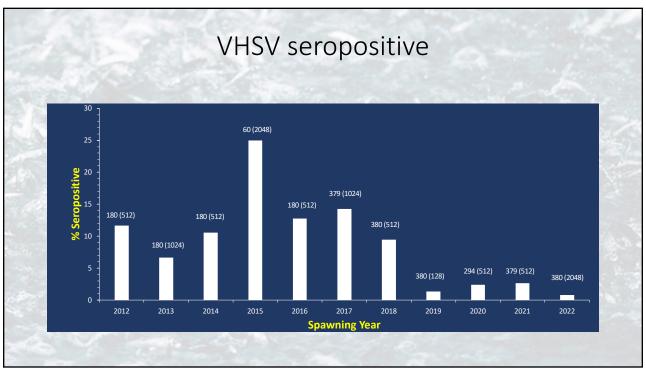


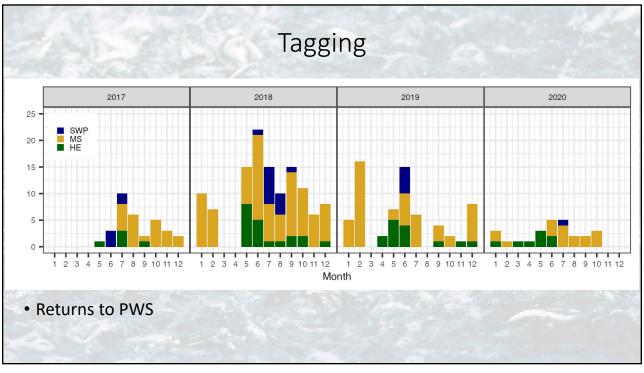


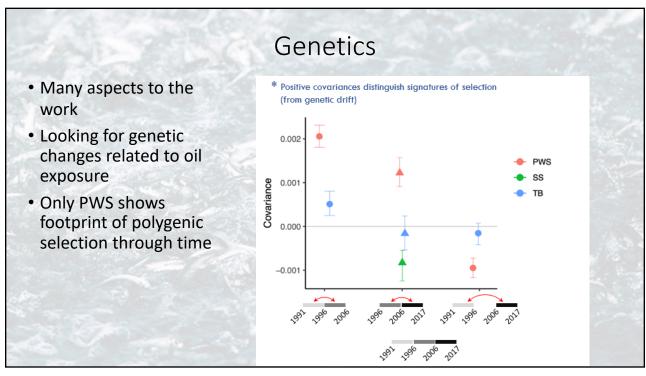












Whales • Whale numbers took a Fall encounter rates of humpback whales dramatic drop after in Prince William Sound, Alaska. 2014 0.5 Range of estimates 0.4 0.3 0.0 0.1 0.4 and error bars are very large Number seen by the 0.1 aerial survey up in 2022 0 2008 2011 2012 2013 2014 2017 2018 2019 2020 2021 2022

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Future

- Modeling
 - Examining alternate control rules
- ADF&G surveys
- Disease
- · Interactions with salmon
- Pollock and groundfish