Growth Chronology of Lenses in Whitefish Species

Introduction

- It is important to understand the life history and ecology of Whitefish species as they provide a source of food for marine mammals, birds, larger fish and humans.
- Eye lens data can be used to gain an understanding of fish lens grow and change throughout the fishes' lifetime.
- The objective of this study is to gauge if there is a relationship between the growth of the fish in both age and fork length.
- usage.



Fig. 1. Humpback Whitefish



- Fish were caught with gill nets from four sites. These sites ongoing since the 1980s.
- and otoliths were collected on site then frozen and transferred.
- camera mounted to a Leica M165 C microscope at a magnification of 2.5. The photographs were then analysed.
- Otolith annuli were counted to determine fish age (years). The lens were measured and the lamina counted.
- Using R-2.3.3, coding program, the data were analyzed and graphed.



Acknowledge and the ure samples were taken from and processed on the traditional and contemporary unceded on t homelands of the Dena and Iñupiaq peoples. I respect and honor their past, present, and future stewardship of land, animals, and waters. Through my acknowledgments and collective actions, I seek to rectify the erasure of Indigenous peoples and address the lasting impacts of colonialism in our university and scientific communities. Additionally I am grateful to Dr. Katie Spellman and Dr. Elena Sparrow for supplying the poster template.

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Results







Discussion

• The fish were randomly selected. Age was unknown until the

