AYK Chum Salmon Marine Research Overview

A Report to the Alaska Board of Fisheries

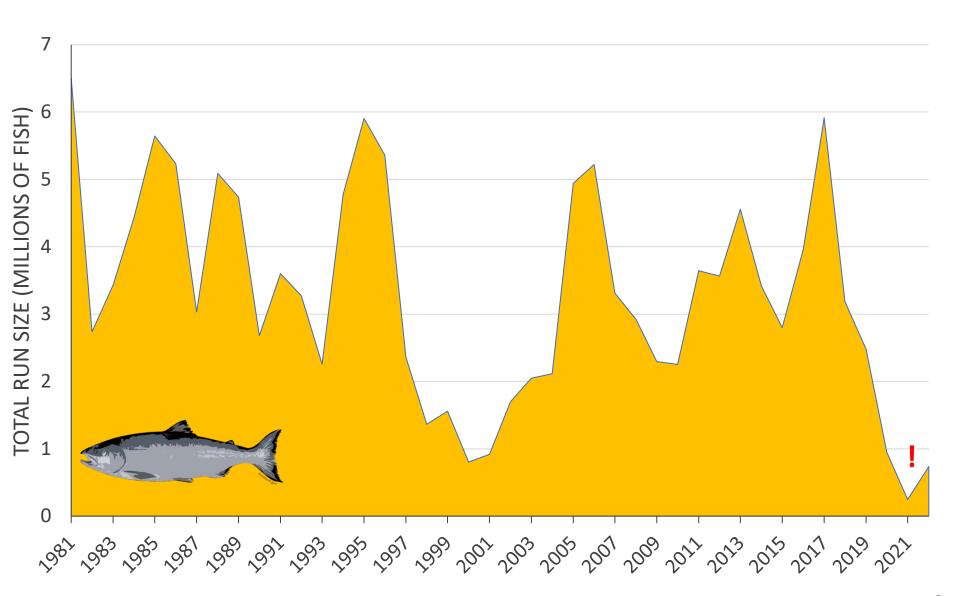


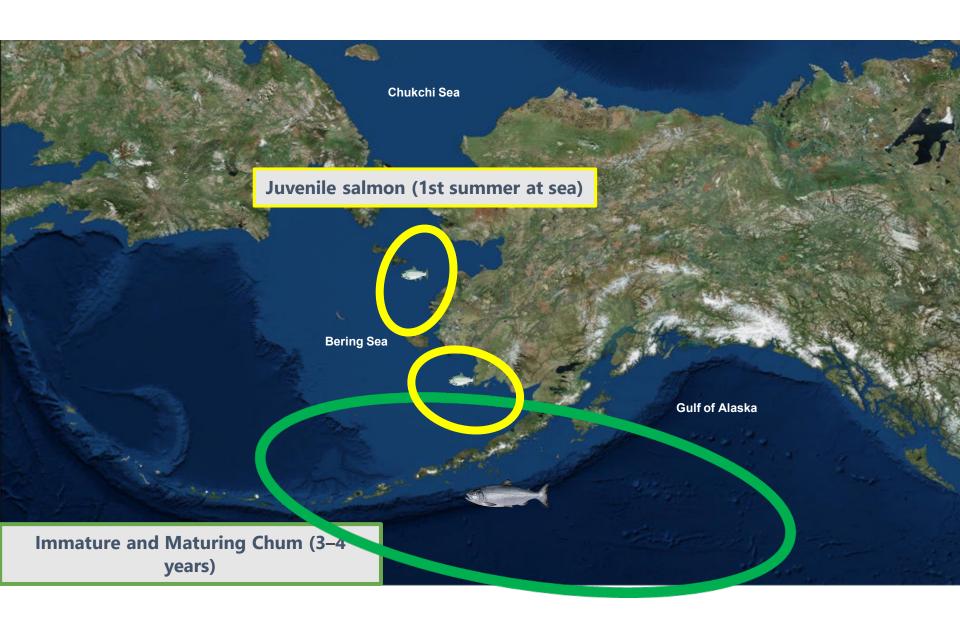
Dr. Kathrine Howard February 2023

- What do we know about marine life of AYK Chum?
- How might that help us understand harvest of these stocks in marine fisheries?



Total run size of Yukon River chum salmon stocks







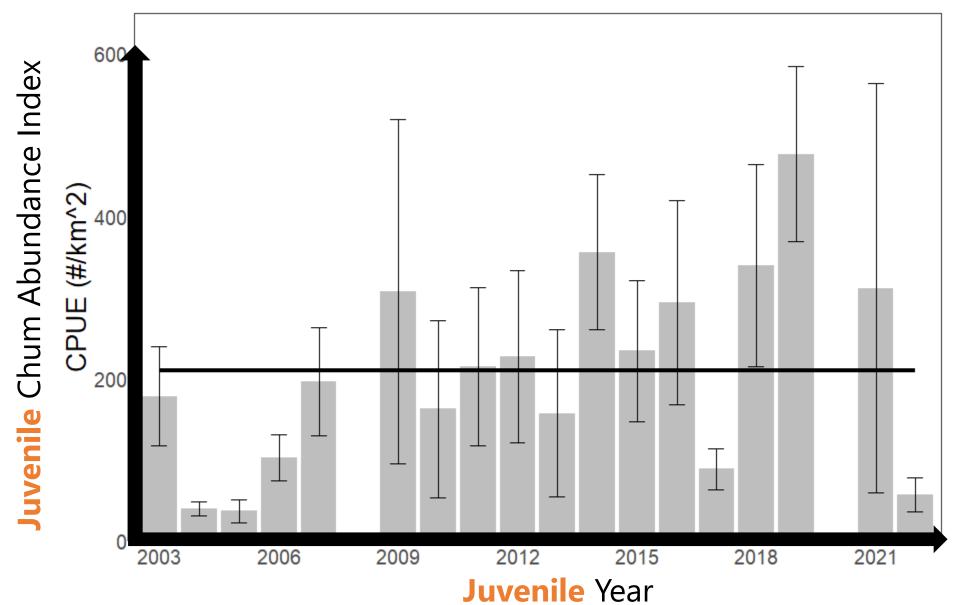


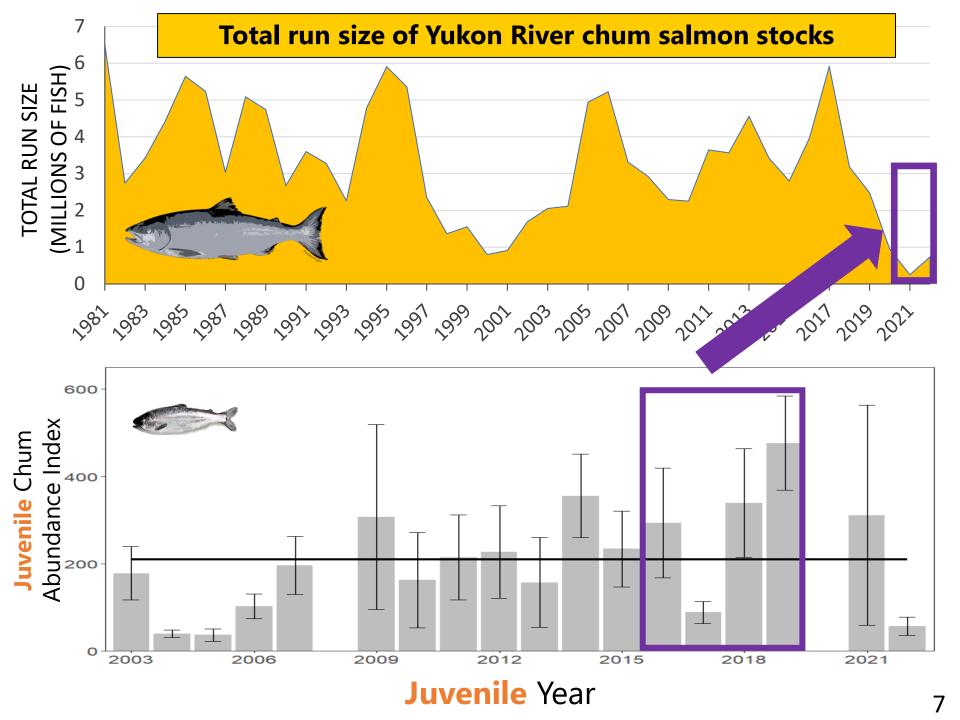


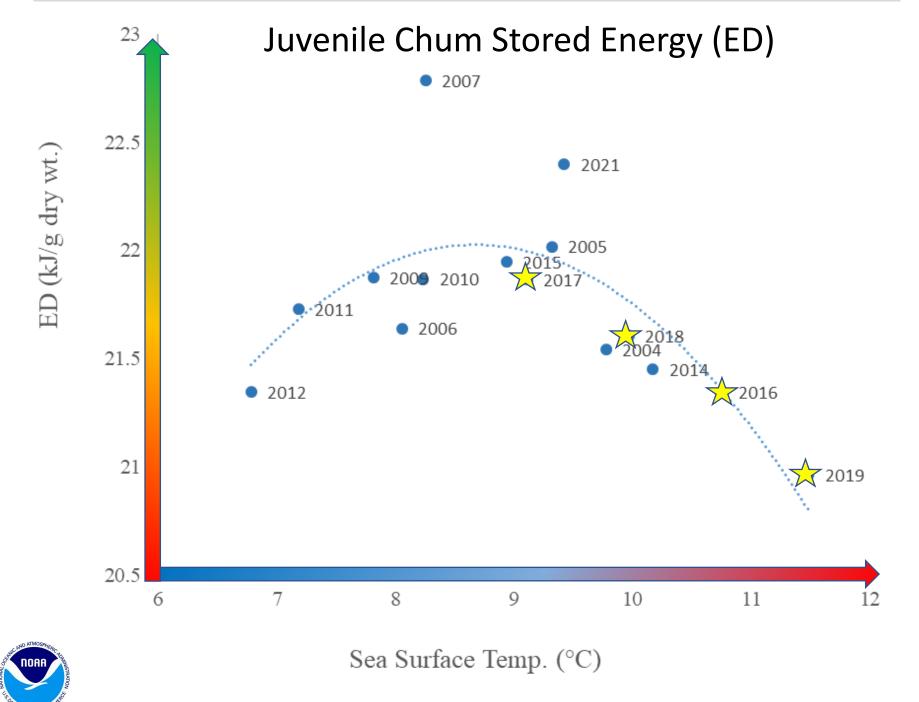


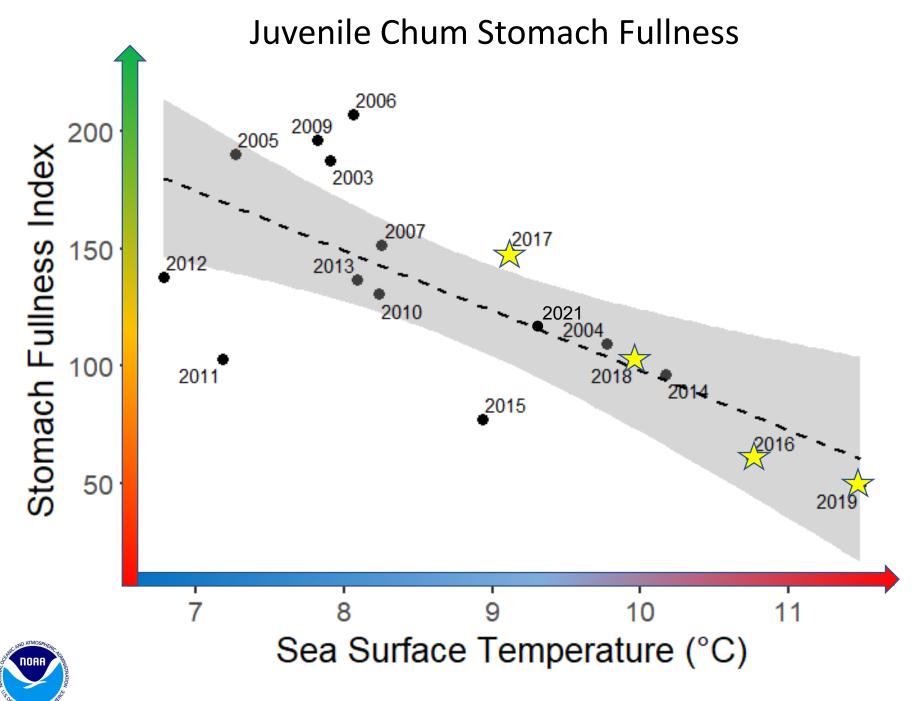
Chum salmon (mixed stocks)

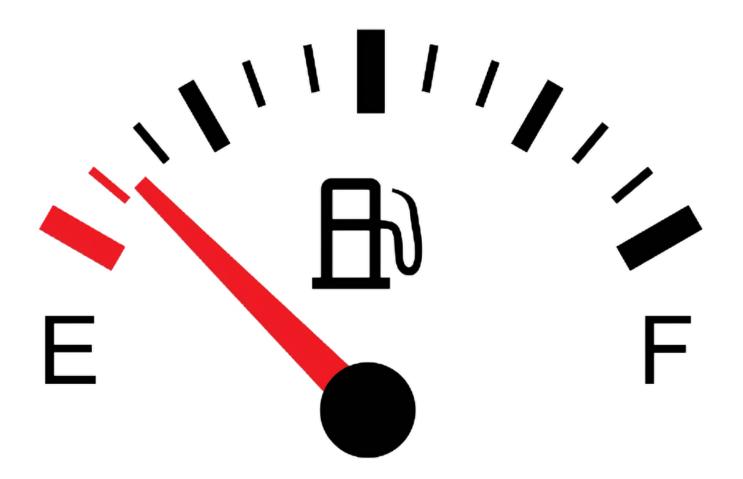




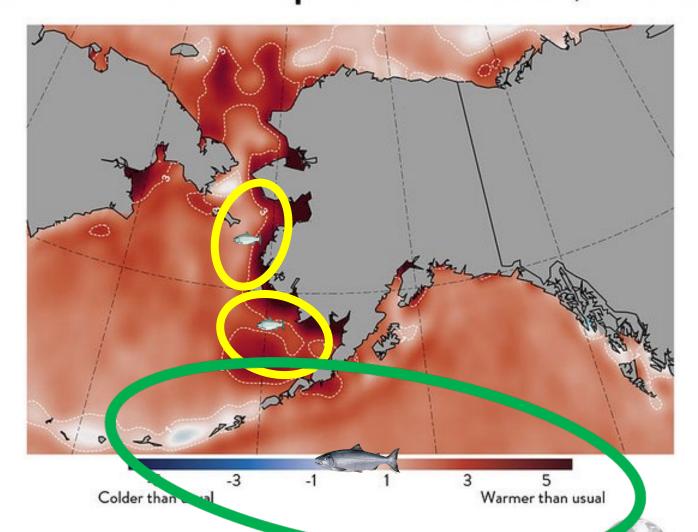








Summer sea surface temperatures off Alaska, 2014-2019



Data source: AMAP Ocean Acidification Report, 2010, National Climate

Change, 2017; Progress in Oceanography, 2015



Temperature Changes Affect Salmon

Increasing ocean temperatures = poorer condition

Empty stomachs

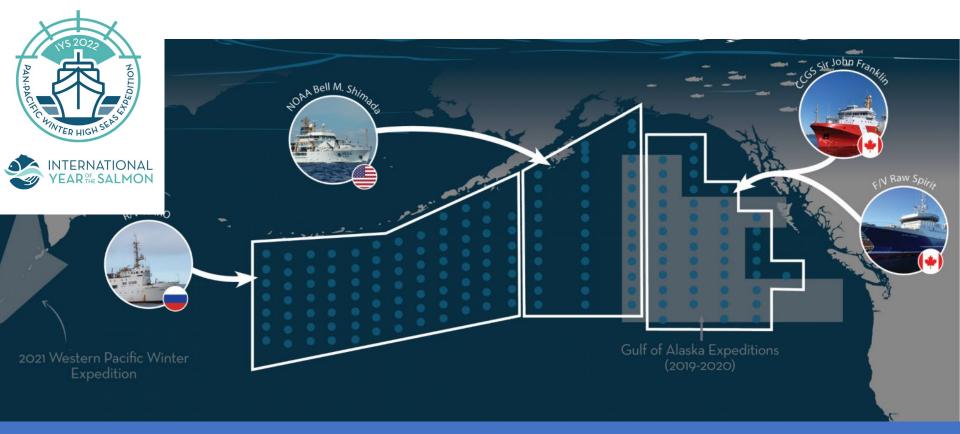


Different food available



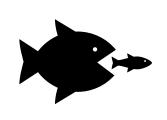
Stocks moving north





2022 Pan-Pacific Expedition

North Pacific Anadromous Fish Commission/International Year of the Salmon



Competition between AYK
Chum and other
stocks/species in winter





Northern Bering Sea Survey

Southern Bering Sea Survey

Western Gulf of Alaska Survey



