

# Salmon Research Highlights in the Northern Bering Sea

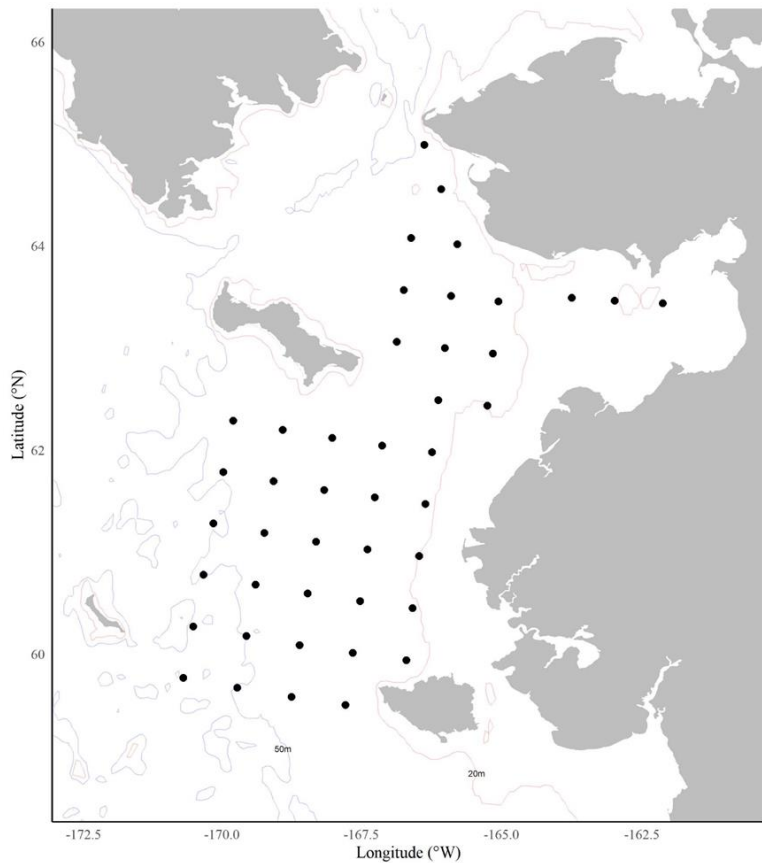
Jim Murphy,  
Alaska Fisheries Science Center, Juneau, AK

State of Alaska Bycatch Task Force Committee  
July 29, 2022



**NOAA**  
**FISHERIES**

# Northern Bering Sea Surface Trawl and Ecosystem Survey



**When:** September 2002/2003 to Present

**Where:** Northern Bering Sea

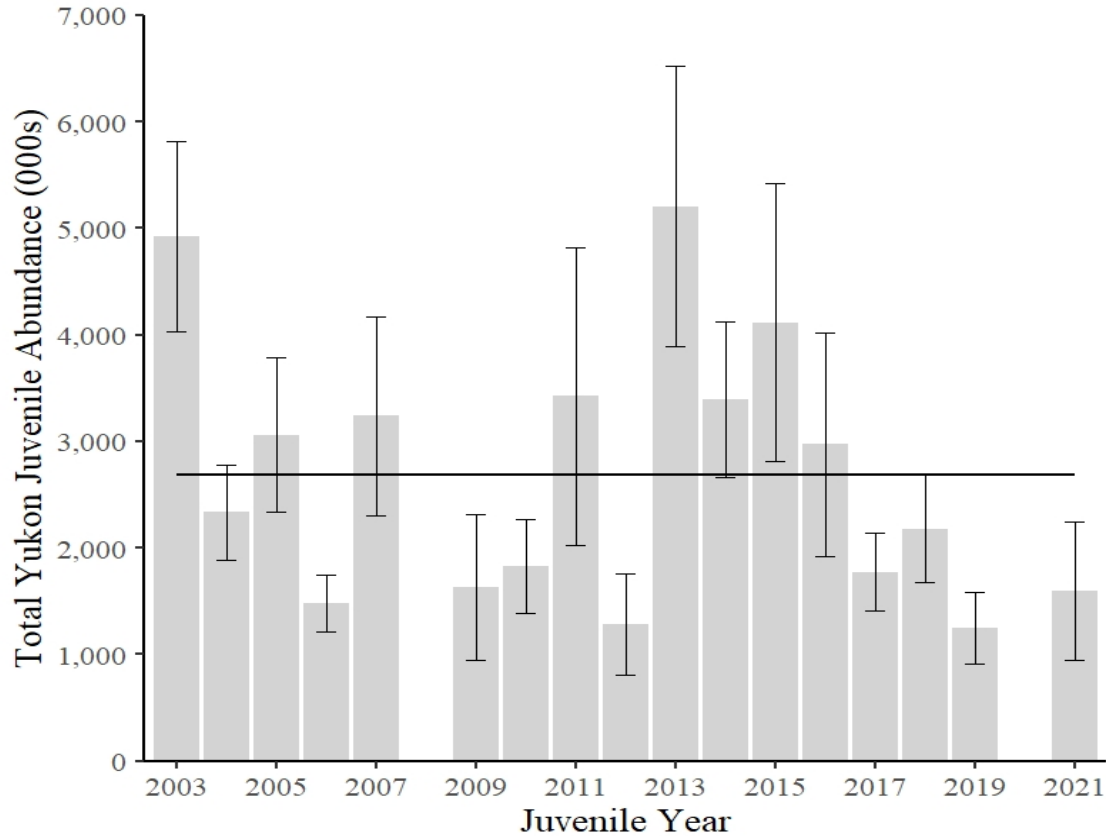
**What:** Salmon Assessment and Ecosystem Research

- Juvenile salmon
- Forage fish
- Oceanography
- Juvenile crab
- Seabird and marine mammal distribution

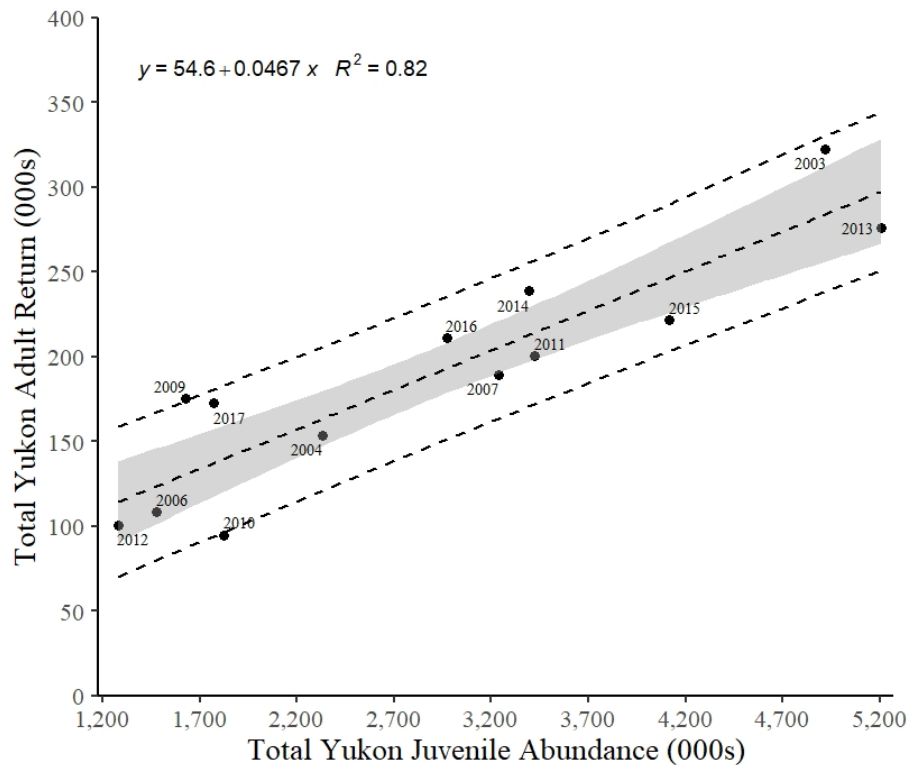


**NOAA**  
FISHERIES

# Juvenile Yukon River Chinook salmon abundance



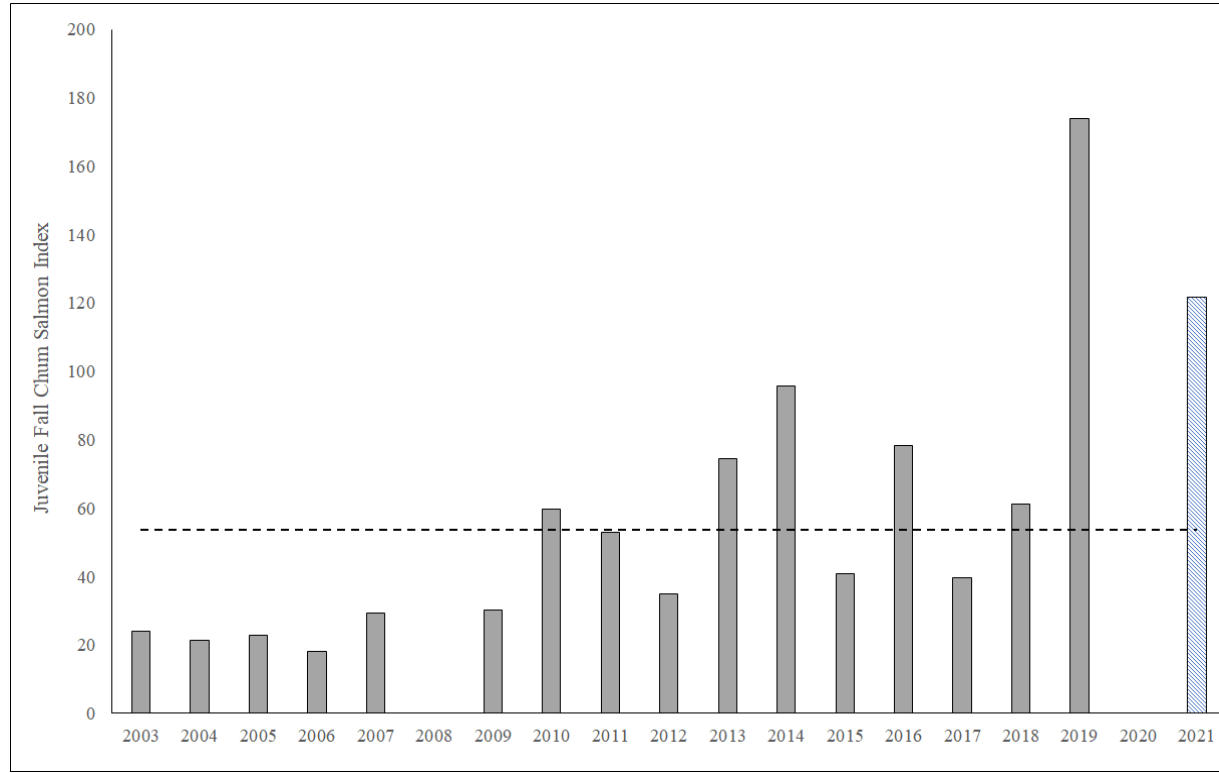
# Juvenile Abundance is Consistent With Future Returns to the Yukon River



**NOAA**  
FISHERIES

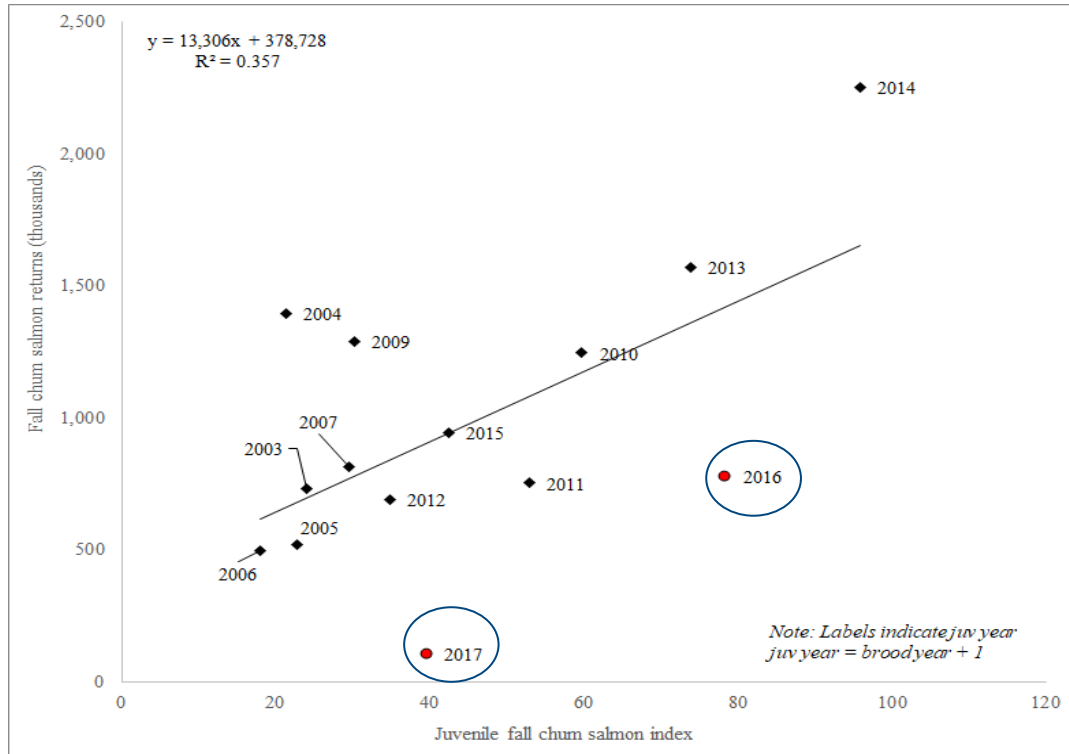
# Juvenile Abundance Index for Fall Yukon River Chum salmon

(Sabrina Garcia, ADFG)

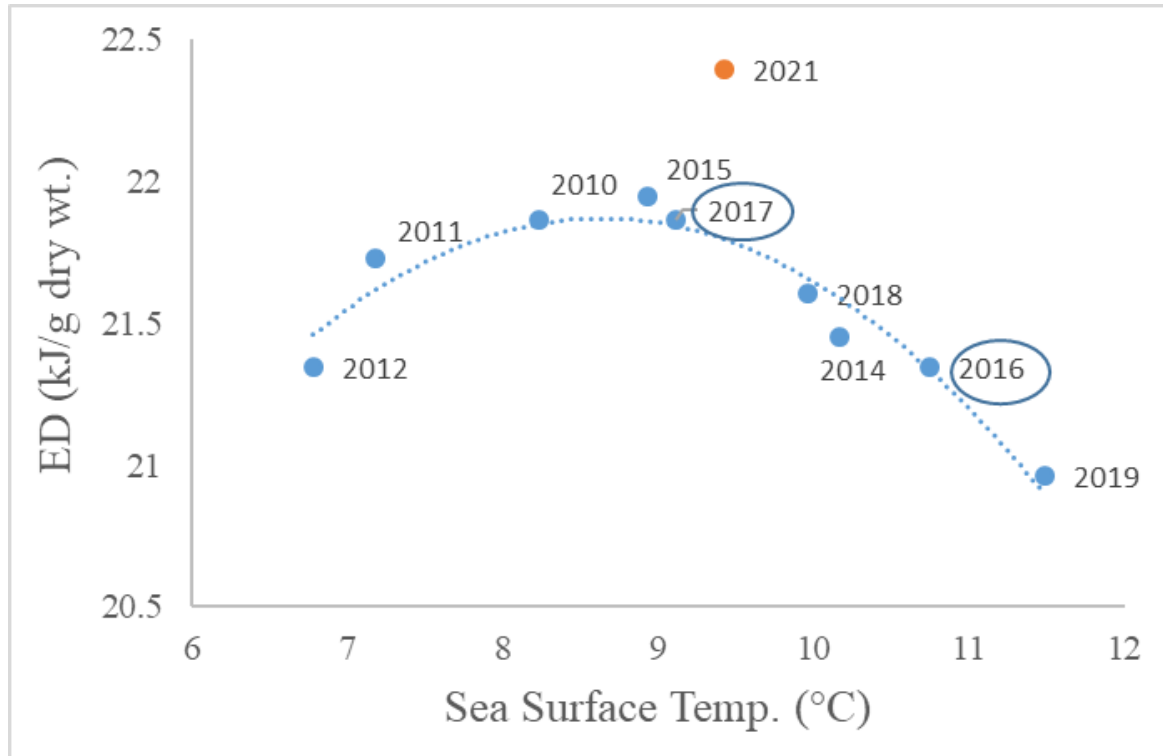


**NOAA**  
FISHERIES

# Juvenile Abundance Does Not Explain Recent Chum Salmon Returns to the Yukon River (Sabrina Garcia, ADFG)



# Influence of Temperature on The Energy Density of Chum Salmon (2010-2021)



# Thank You!

## AFSC Salmon Research Website

<https://www.fisheries.noaa.gov/alaska/sustainable-fisheries/collaborative-marine-salmon-research-foundational-understanding>

## AFSC 2021 Year in Review

<https://www.fisheries.noaa.gov/alaska/2021-alaska-fisheries-science-center-year-review>



**NOAA**  
**FISHERIES**