

2024 Southeast Alaska Pink Salmon Harvest Forecast



NOAA
FISHERIES

Alaska Fisheries
Science Center
Auke Bay
Laboratories



Alaska
Department of
Fish and Game

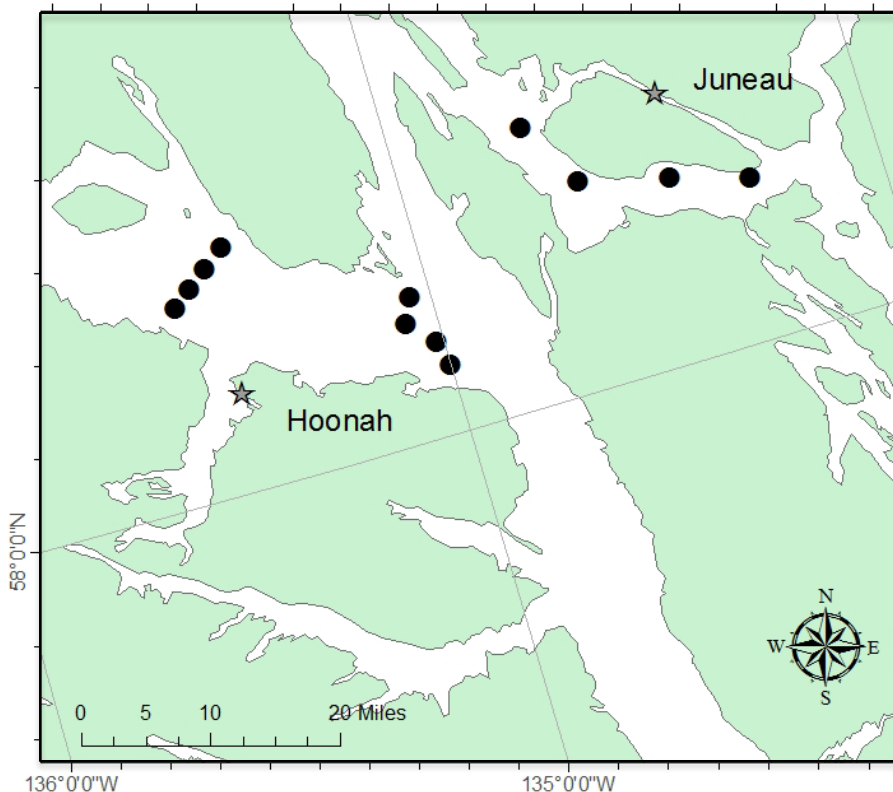
NOAA: Wesley Strasburger, Jim Murphy,
Emily Fergusson, Andrew Gray

ADF&G: Teresa Fish,
Andy Piston, and Sara Miller

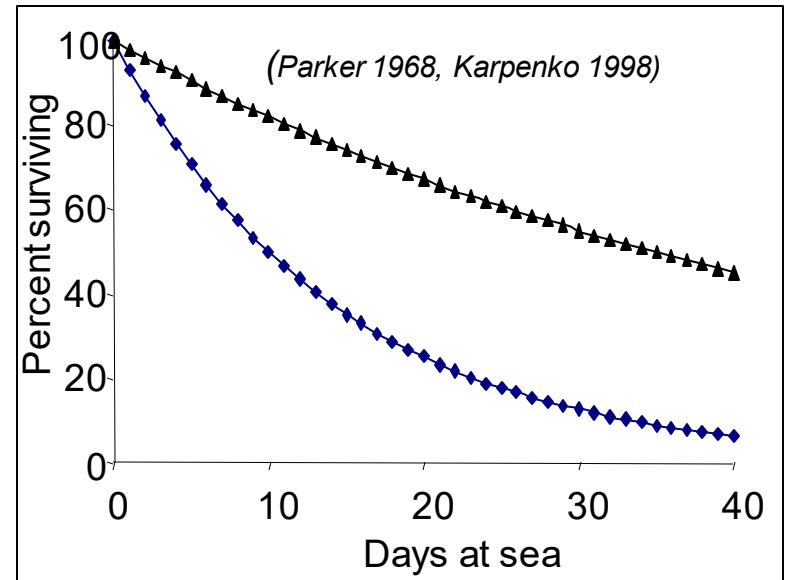
2023 Purse Seine Task Force Meeting
December 1, 2023

Southeast Alaska Coastal Monitoring (SECM) Research

- Surveys initiated by NOAA in 1997
- Collaboration between NOAA and ADF&G since 2018



Southeast Alaska Coastal Monitoring (SECM) Research



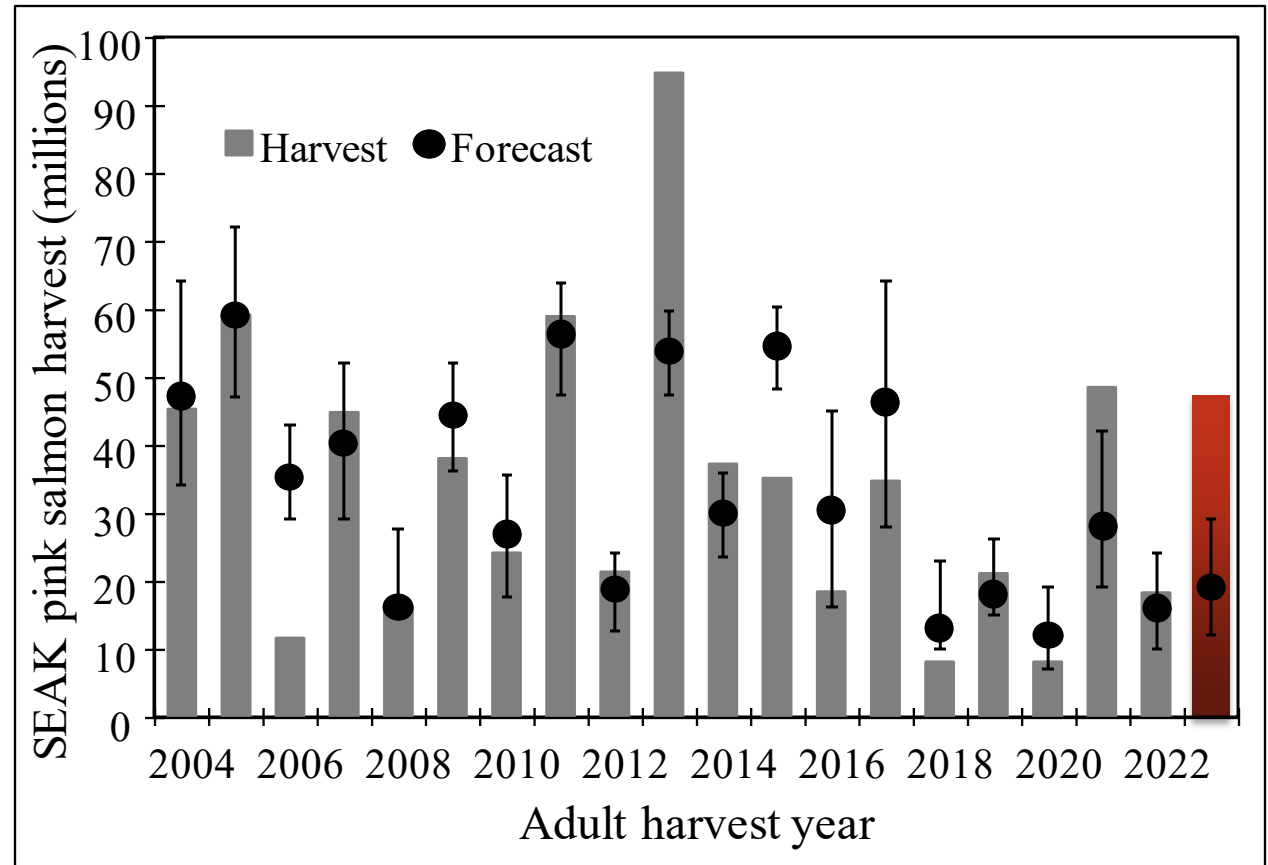
Pink Salmon Harvest Forecast Model Structure

- Peak surface trawl catch rates (CPUE) in June or July.
- Temperature Variable (Icy Strait Temperature Index (ISTI)) or a variety of potential satellite sea surface temperature (SST) indices.

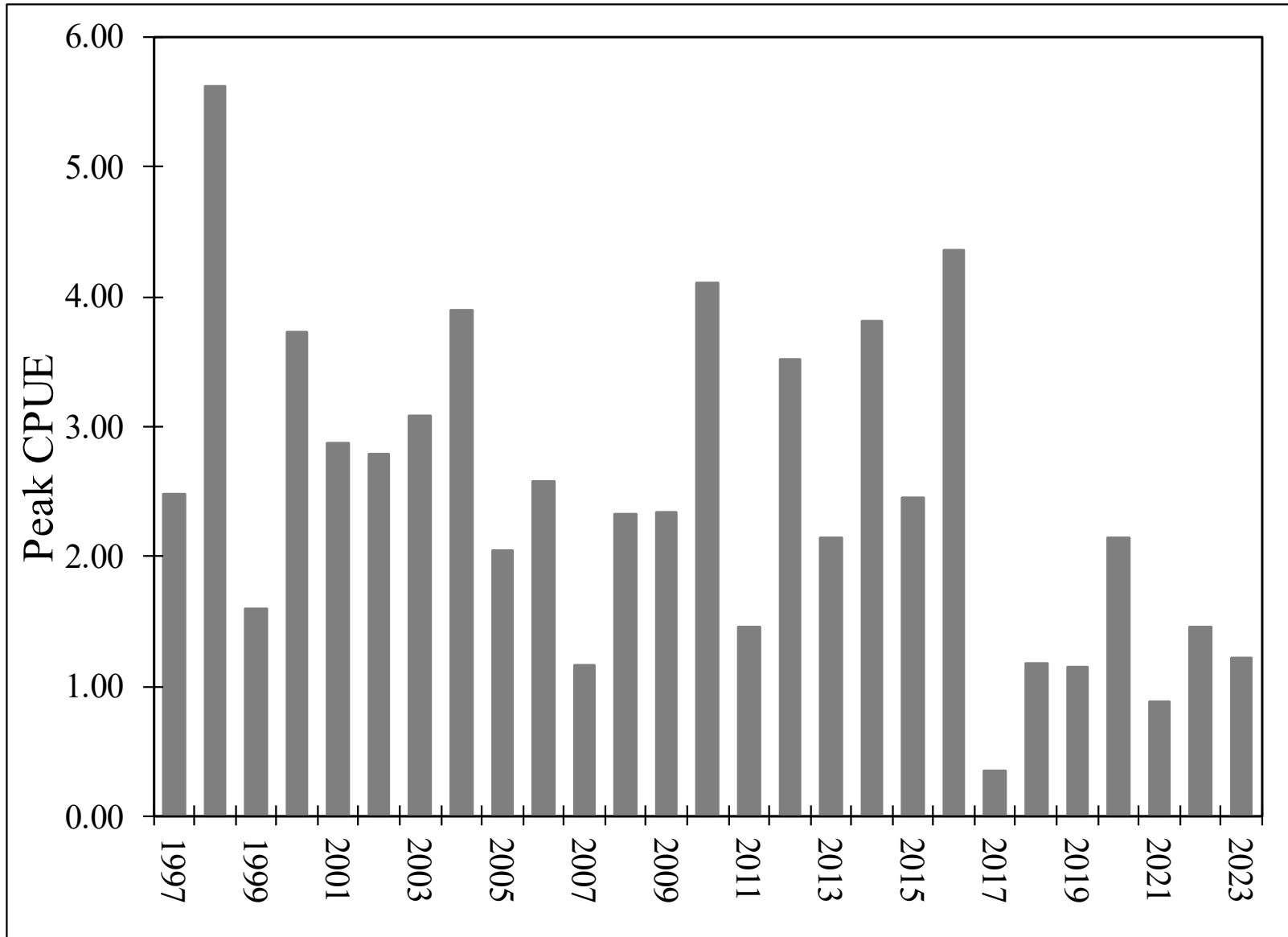


Previous Forecast Performance & Additional Variables

- Parent year SEAK pink salmon escapement index
- Juvenile pink salmon condition & energy density
- Zooplankton composition & densities
- North Pacific Index (NPI)
- Tidal data
- Survey timing



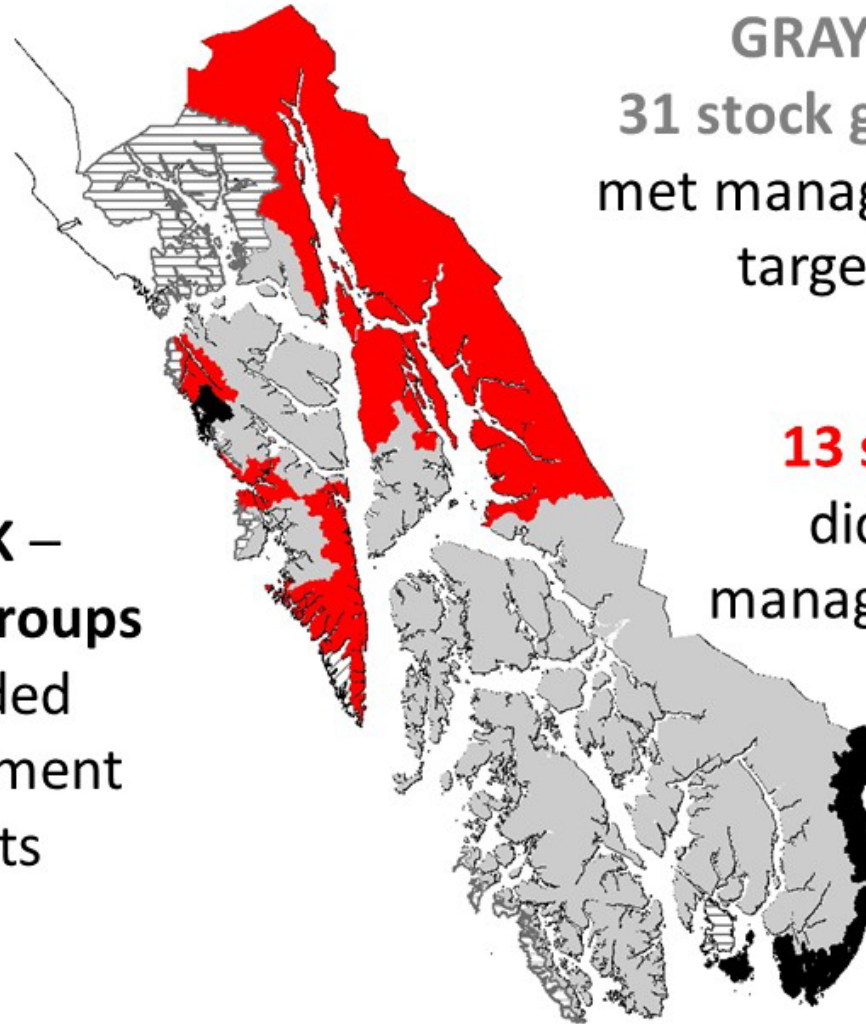
Peak CPUE (calibrated) of Juvenile Pink Salmon



Parent Year Pink Salmon Escapement Performance by Stock Group

2022

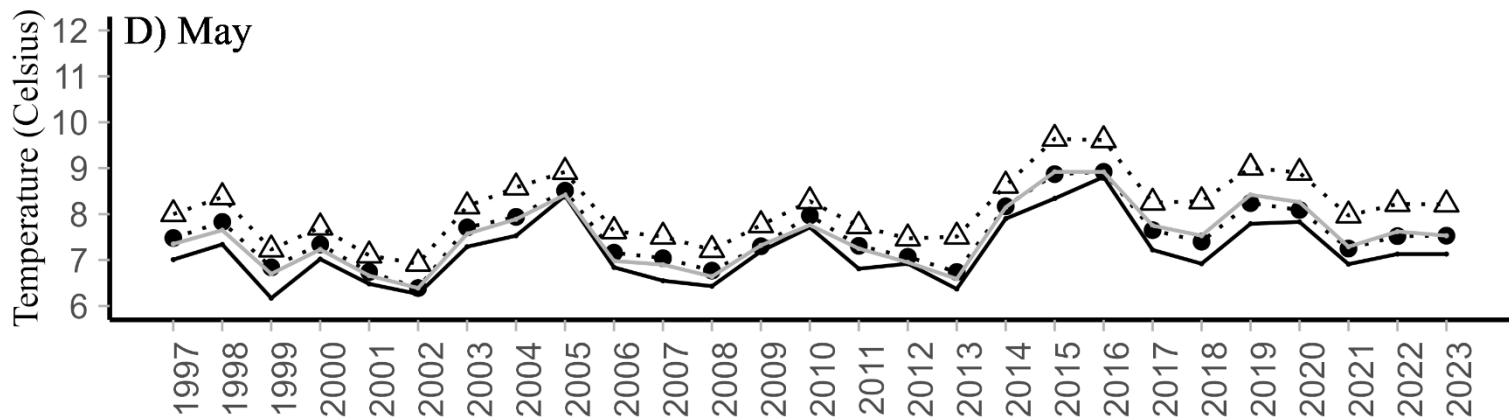
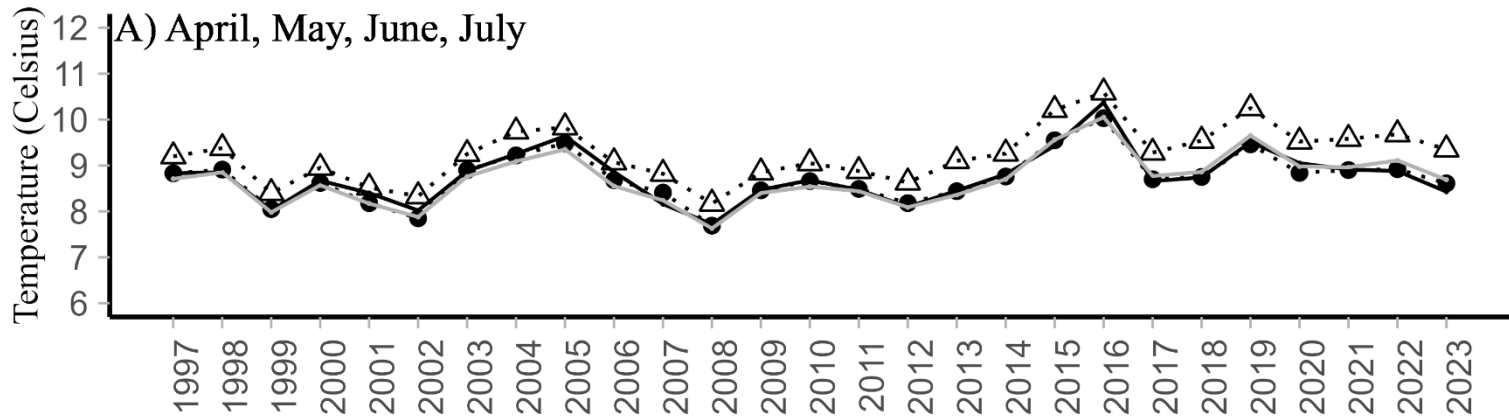
BLACK –
2 stock groups
exceeded
management
targets



GRAY –
31 stock groups
met management
targets

RED –
13 stock group
did not meet
management targets

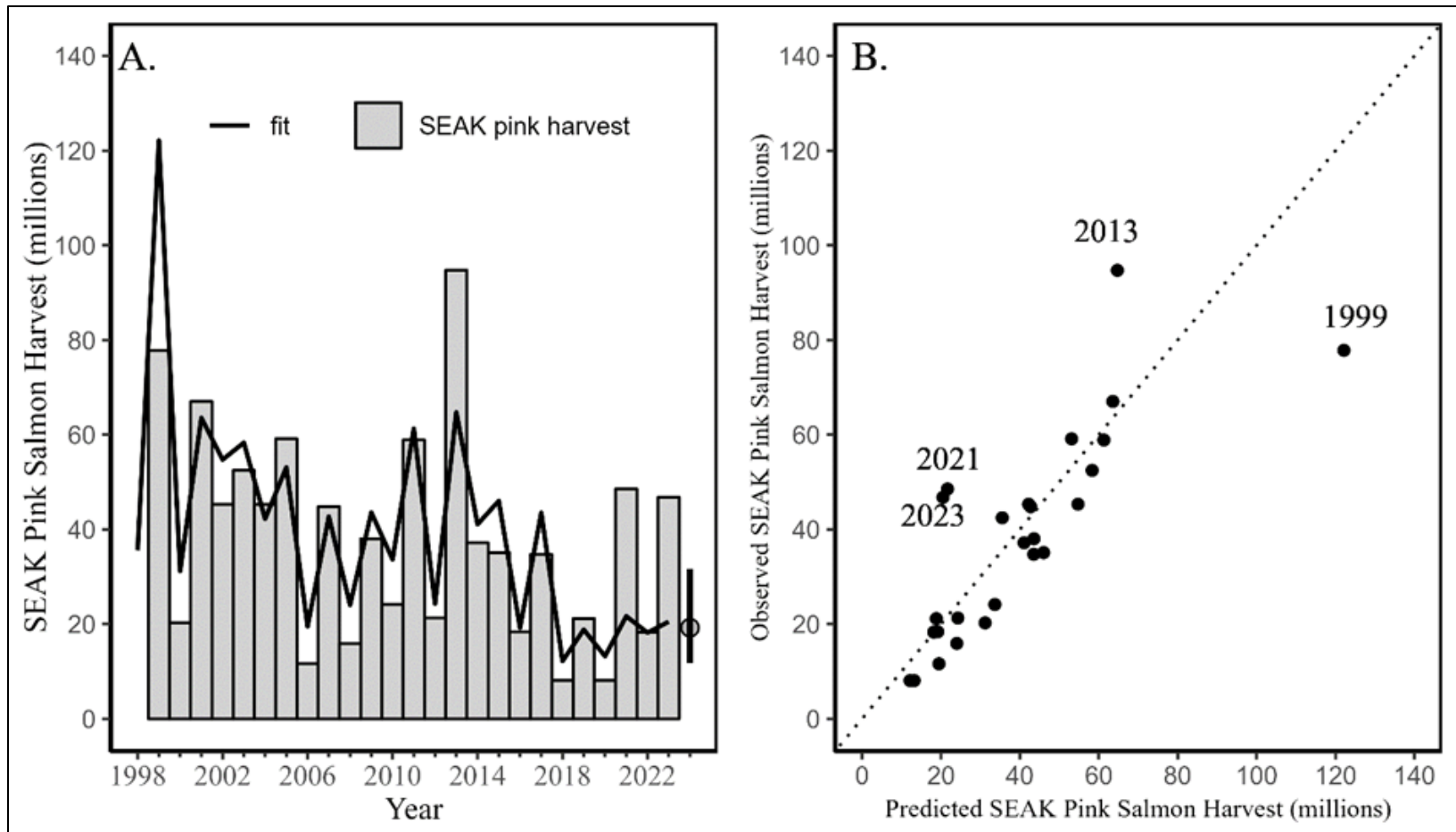
Satellite Sea Surface Temperatures



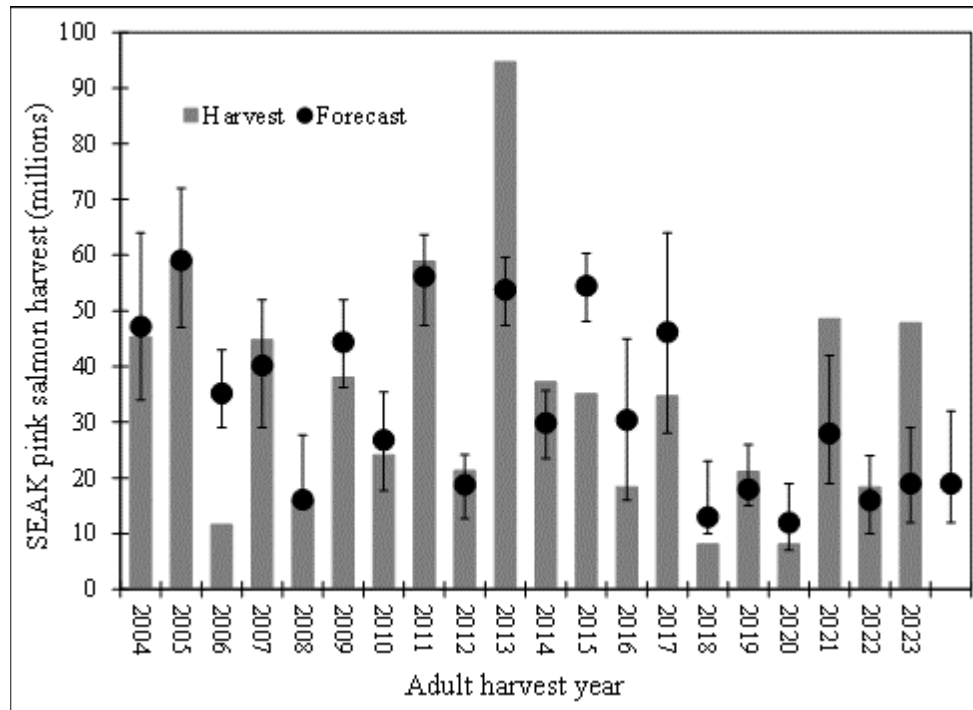
— Icy_Strait ● Chatham — NSEAK △ SEAK

Southeast Alaska Pink Salmon Harvest Forecast Model (Calibrated CPUE + NSE Inside Satellite Sea Surface Temperature)

2024 Forecast = 19 million (12-32 million 80% Prediction Interval)



2024 SECM Pink Salmon Harvest Forecast



19 million (80% PI = 12 – 32 million)

