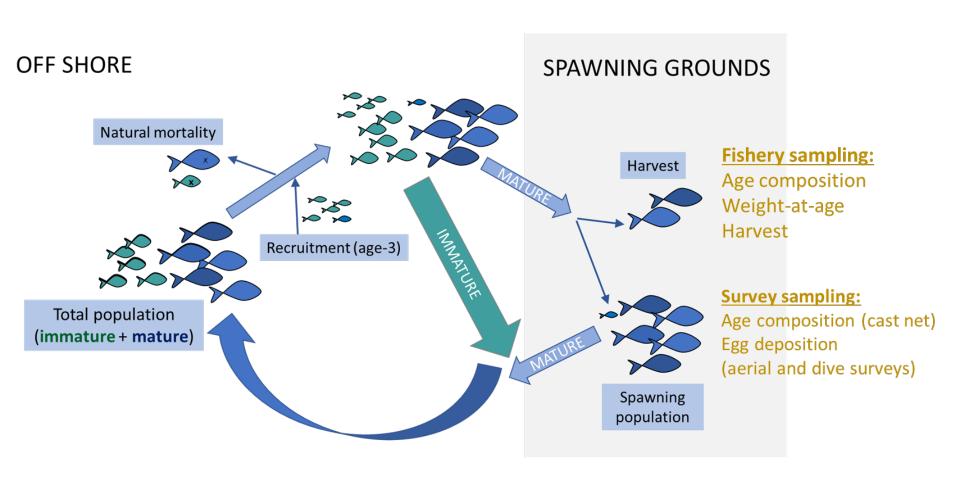
Stock Assessment and 2024 Forecast Sitka Sound, Alaska

Sara Miller and Sherri Dressel Alaska Department of Fish and Game

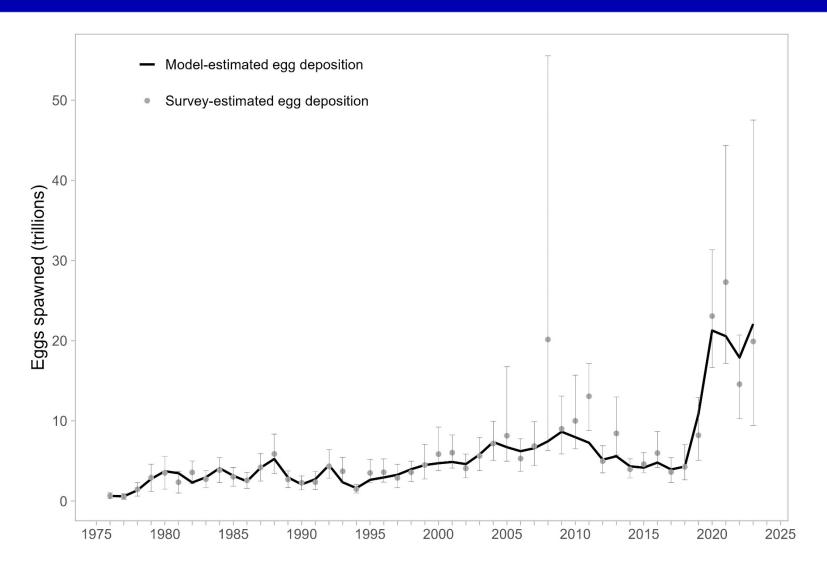


March 19, 2024

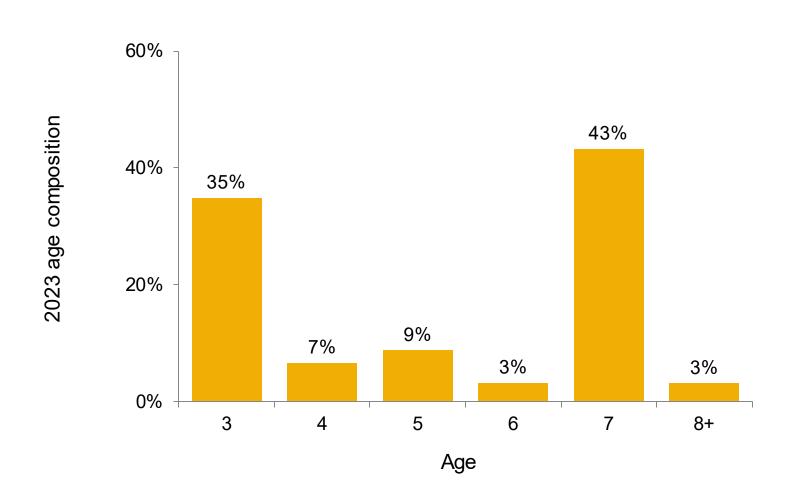
Data collected annually for modelling



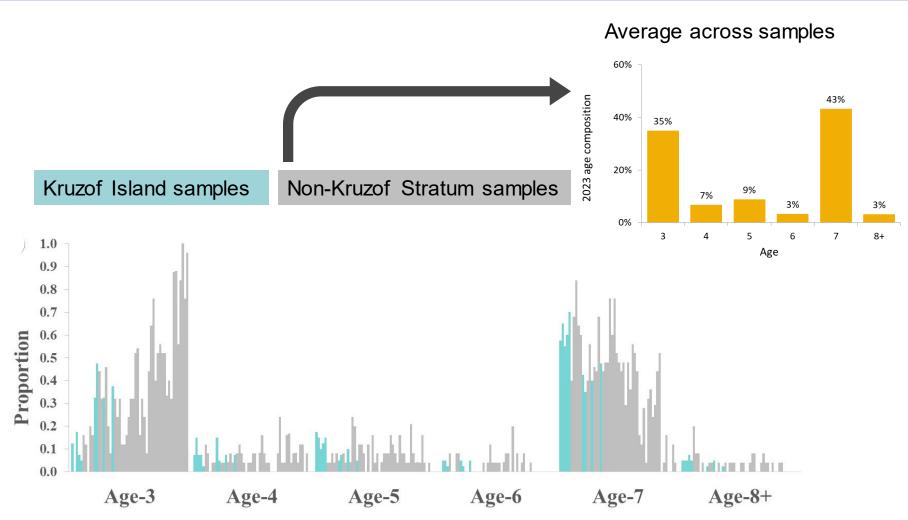
Spawn deposition survey estimates with 95% confidence intervals and model fit



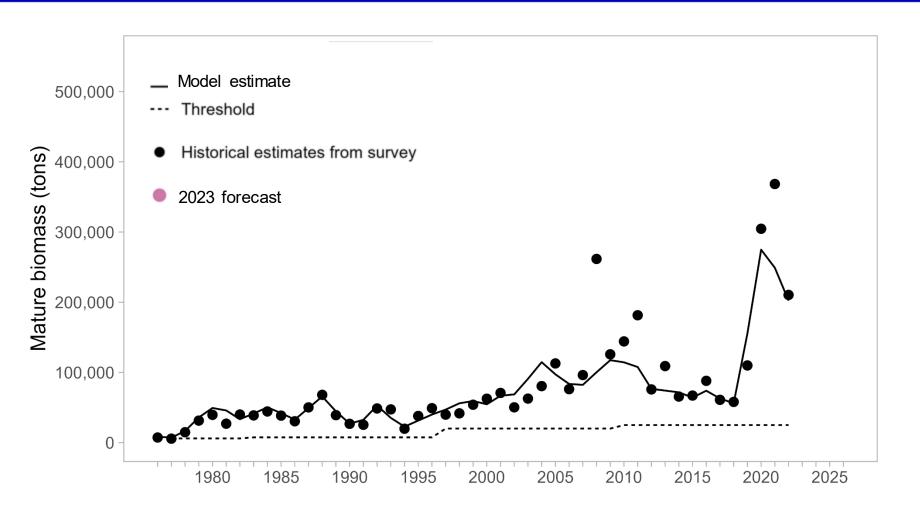
Observed survey age composition (average across individual samples)



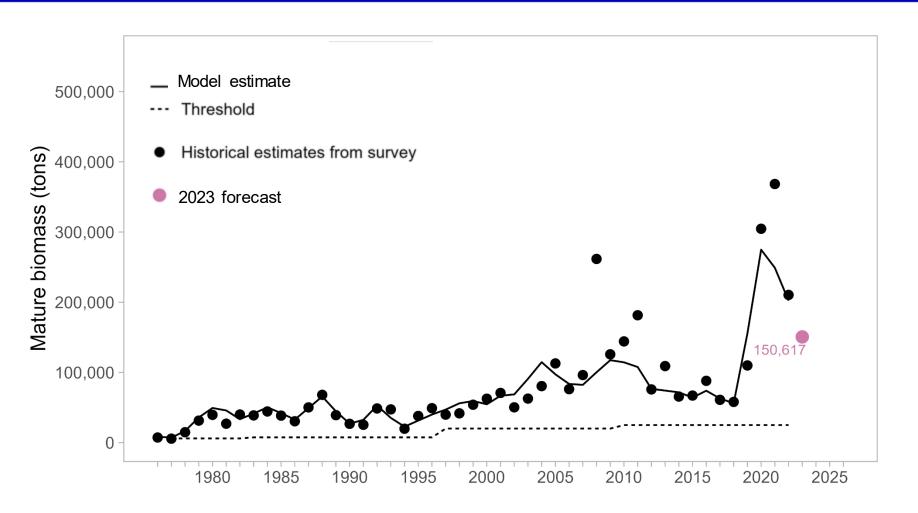
Trend in observed survey age composition (54 individual samples)



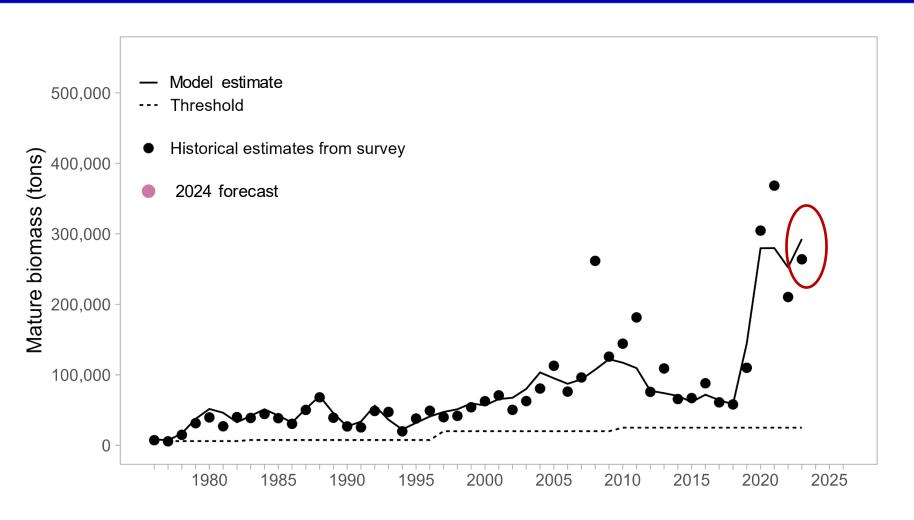
Sitka Sound mature biomass and 2023 forecast



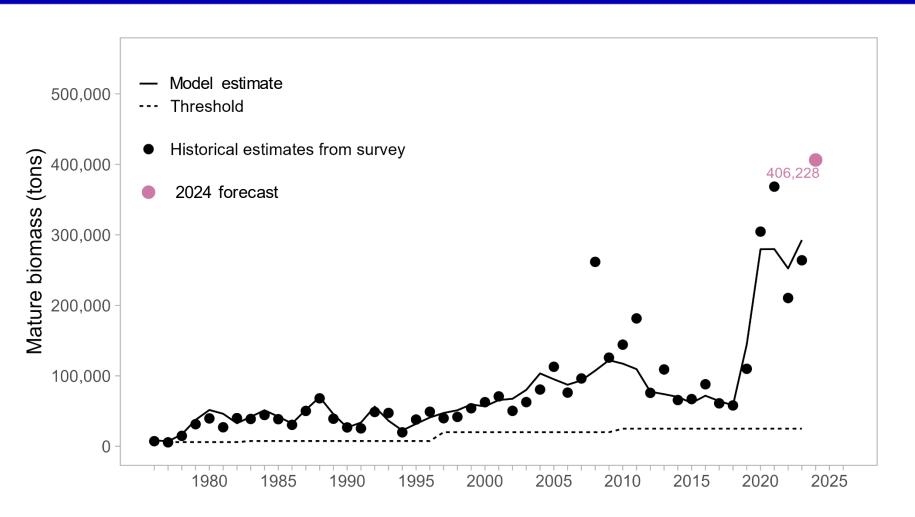
Sitka Sound mature biomass and 2023 forecast



Sitka Sound mature biomass and 2024 forecast

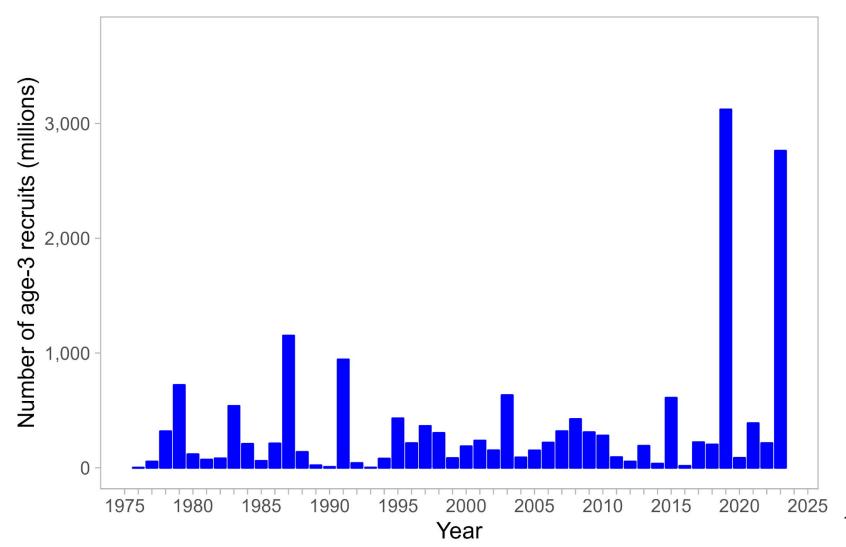


Sitka Sound mature biomass and 2024 forecast



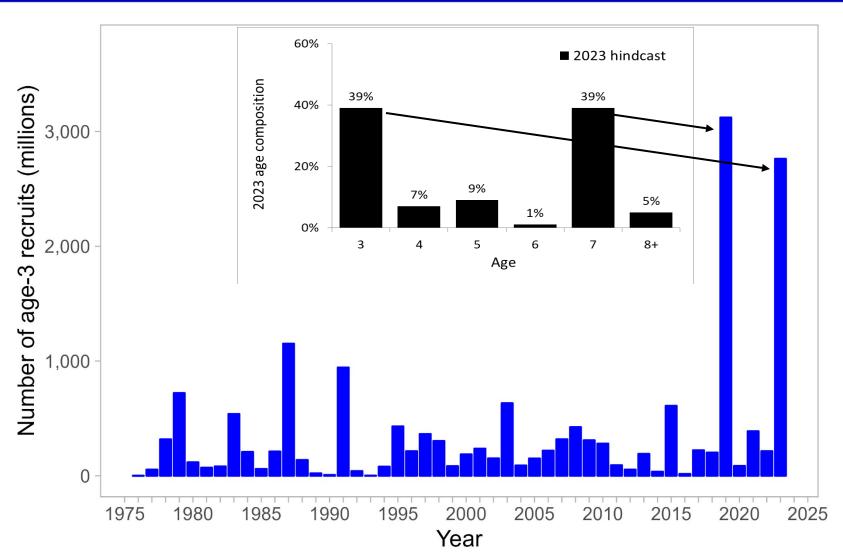
Sitka Sound recruitment

(mature and immature age-3 fish)

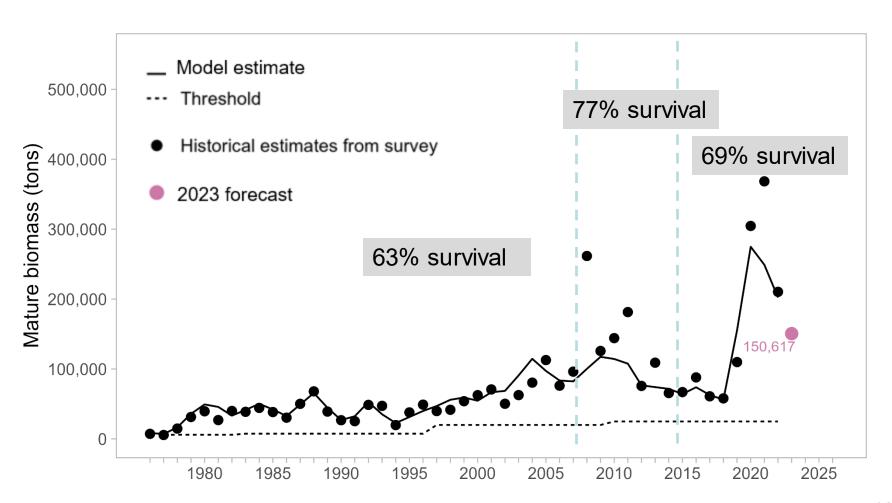


Sitka Sound recruitment

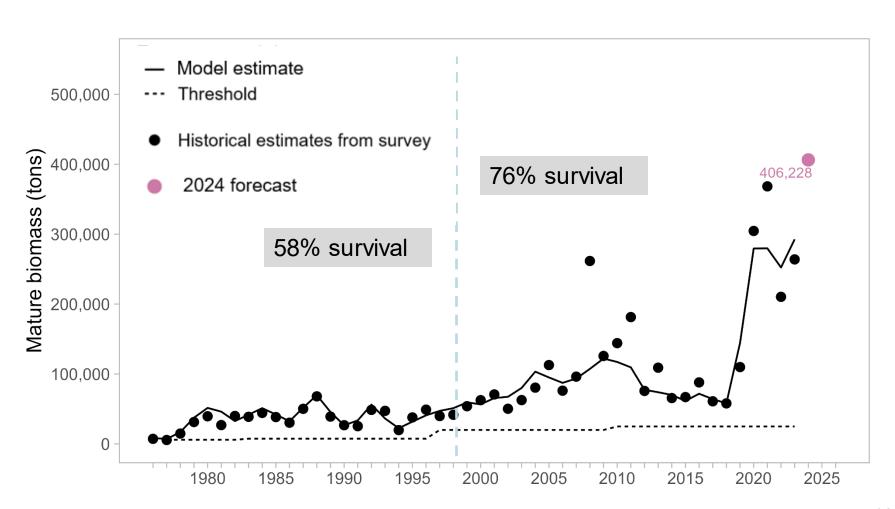
(mature and immature age-3 fish)



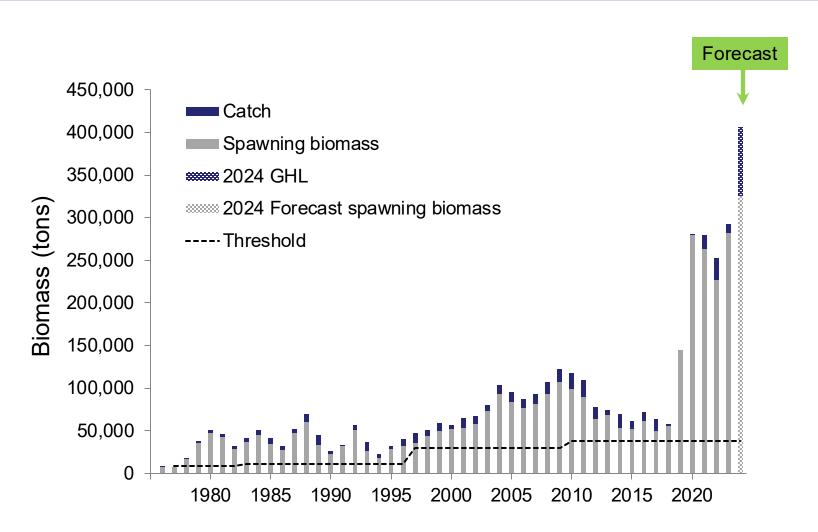
Survival time blocks used for 2023 forecast



Best fit model for 2024

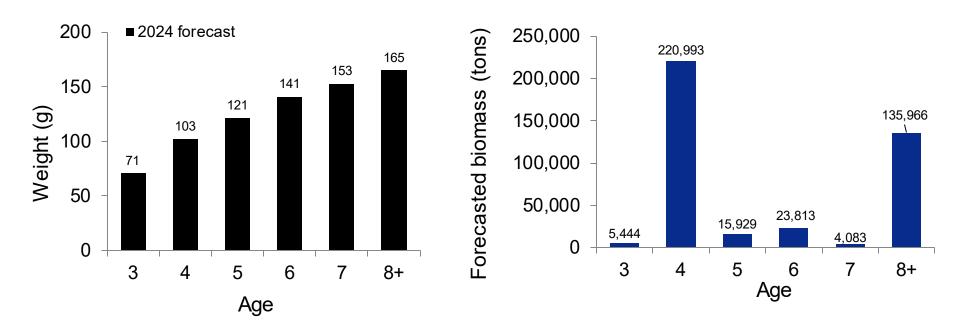


Sitka Sound spawning biomass and harvest (2024 is forecasted biomass and GHL)



2024 forecast biomass and weight at age

2024 Forecast = 406,228 tons GHL = 81,246 tons Forecast average weight = 120 grams



2024-forecast weight at age based on the 2023 spring commercial purse seine

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ADF&G Sitka staff

ADF&G Mark Tag Age Laboratory

ADF&G Dive team and Kestrel crew

