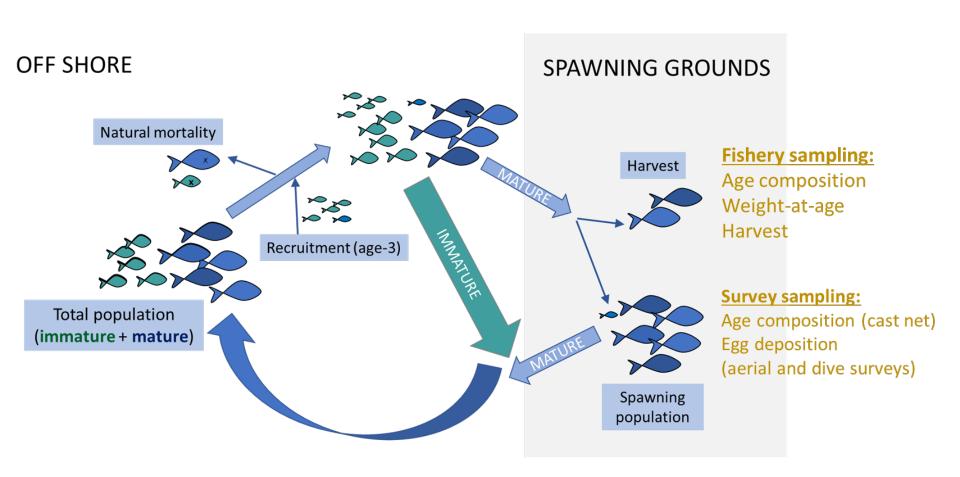
Stock Assessment and 2023 Forecast Sitka Sound, Alaska

Sara Miller and Sherri Dressel Alaska Department of Fish and Game

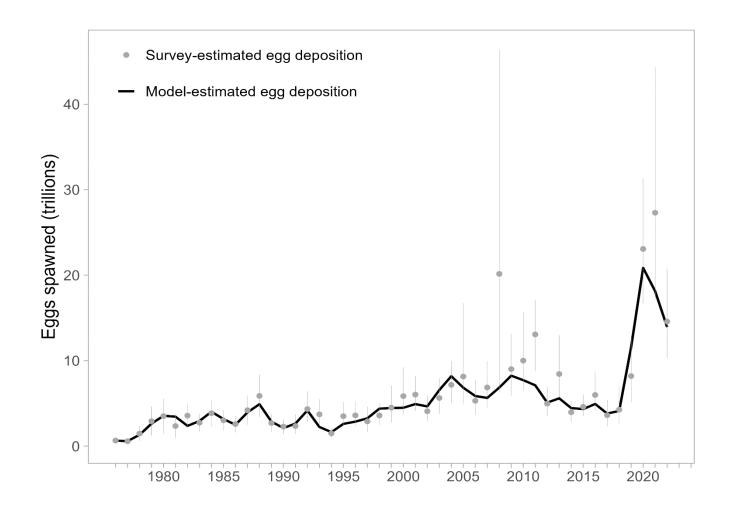


March 21, 2023

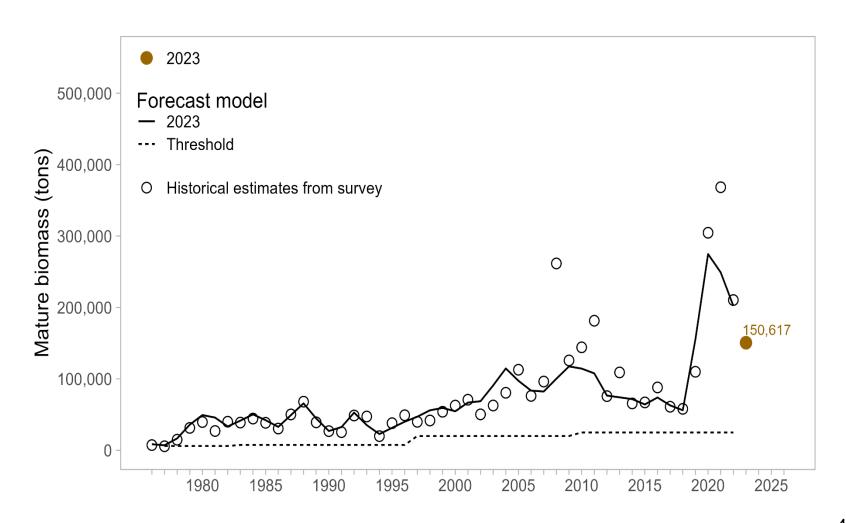
Data collected annually for modelling



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

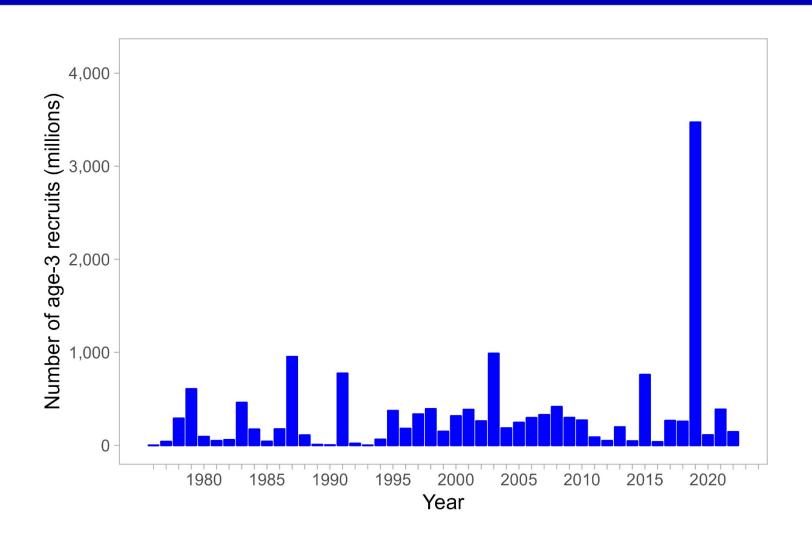


Sitka Sound mature biomass and 2023 forecast

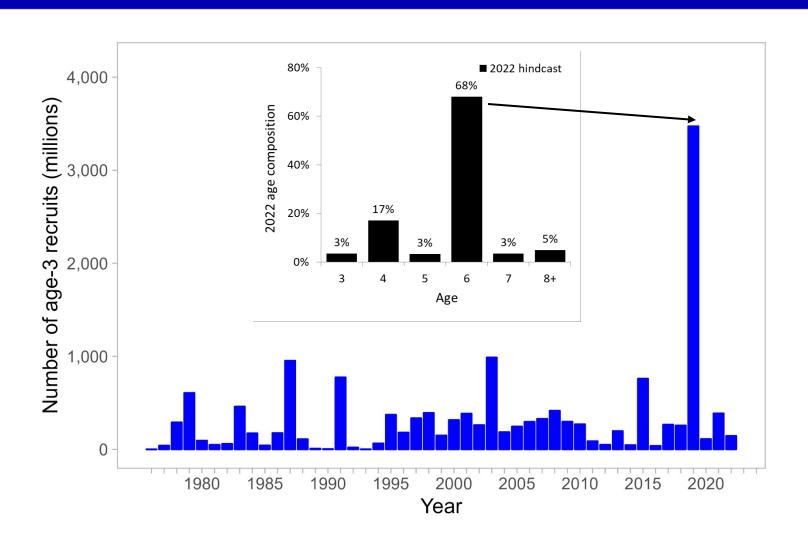


Sitka Sound recruitment

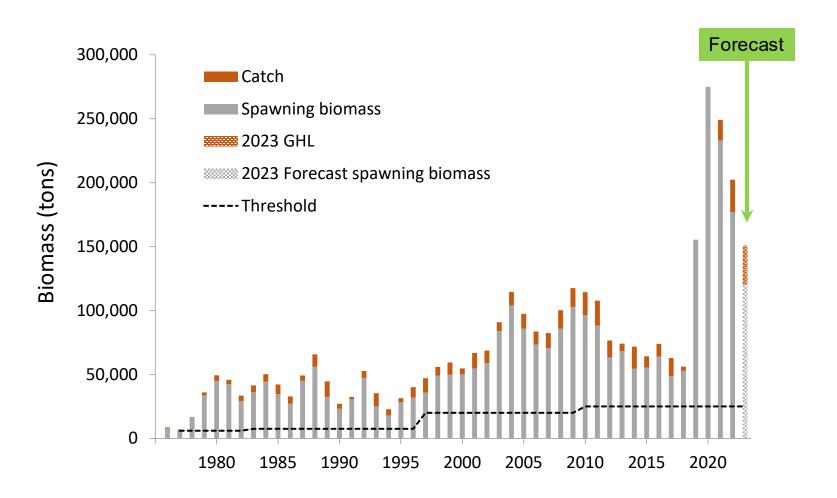
(mature and immature age-3 fish)



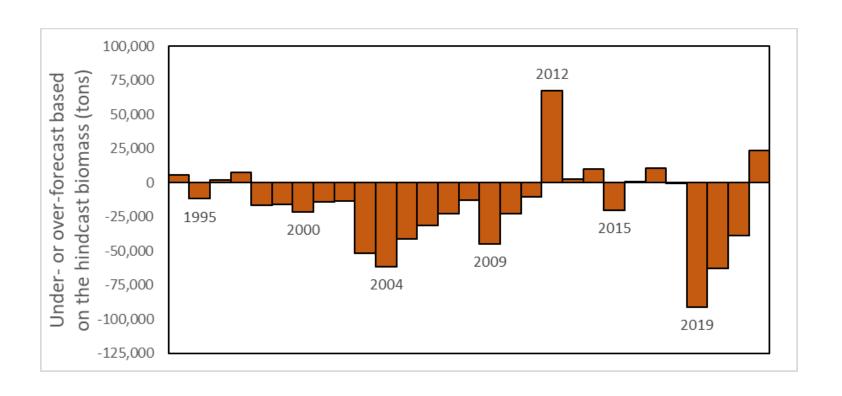
Sitka Sound recruitment (mature and immature age-3 fish)



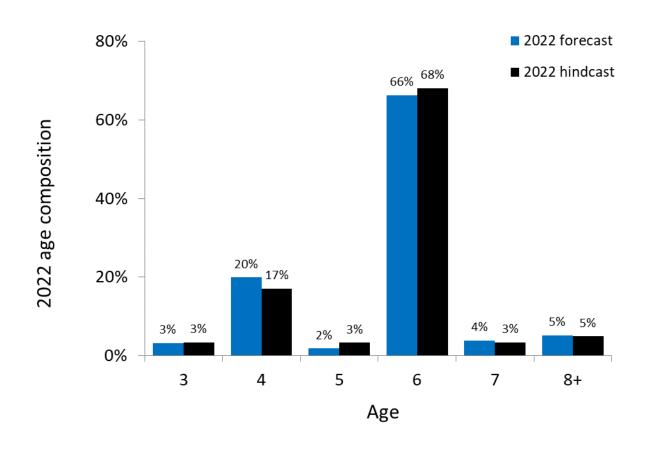
Sitka Sound spawning biomass and harvest (2023 is forecasted biomass and GHL)



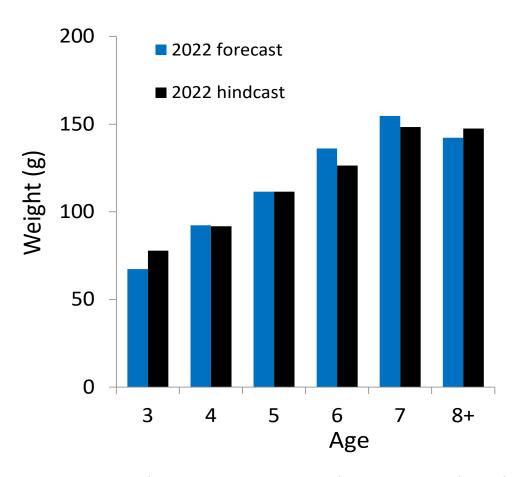
Sitka Sound model performance (1994-2022)



Comparison of model-forecast and model-hindcast 2022 age composition



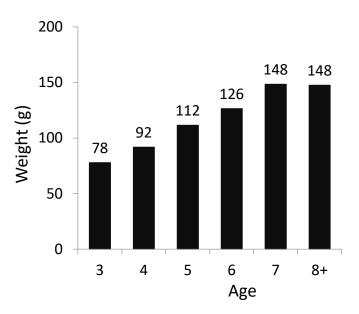
Comparison of model-forecast and modelhindcast 2022 weight at age



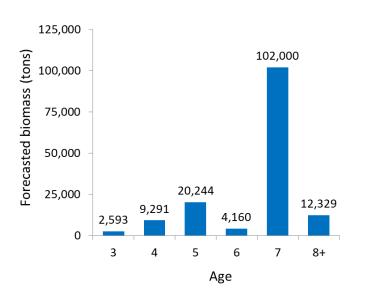
Forecast weights are the 2021 spring commercial seine average Hindcast weights are the 2022 spring commercial seine average

2023 forecast biomass and weight at age

2023 Forecast = 150,617 tons GHL = 30,124 tons Forecast average weight = 134 grams



2023-forecast weight at age based on the 2022 spring commercial purse seine



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- ADF&G Sitka office staff

