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Agenda Item G.1.b
Supplemental NWFSC Presentation 1
September 2023

Science Center Activities

September 10, 2023

Craig Russell
Northwest Fisheries Science Center



Overview

- 2023 Surveys
- Estimated Discard and Catch of Groundfish Species in the 2022

2023 Surveys Updates

- On track for planning and executing:
 - **In Progress** - Full four vessel West Coast Groundfish Bottom Trawl Survey (Pass 1 - complete, Pass 2 - 8/14-10/24)
 - **In Progress** - Joint U.S.-Canada Integrated Ecosystem and Pacific Hake Survey. *Shimada* 6/23 - 9/9, *Franklin* 8/17-9/16
 - **Planned** - Southern California Rockfish Hook and Line Survey, 9/17-10/6

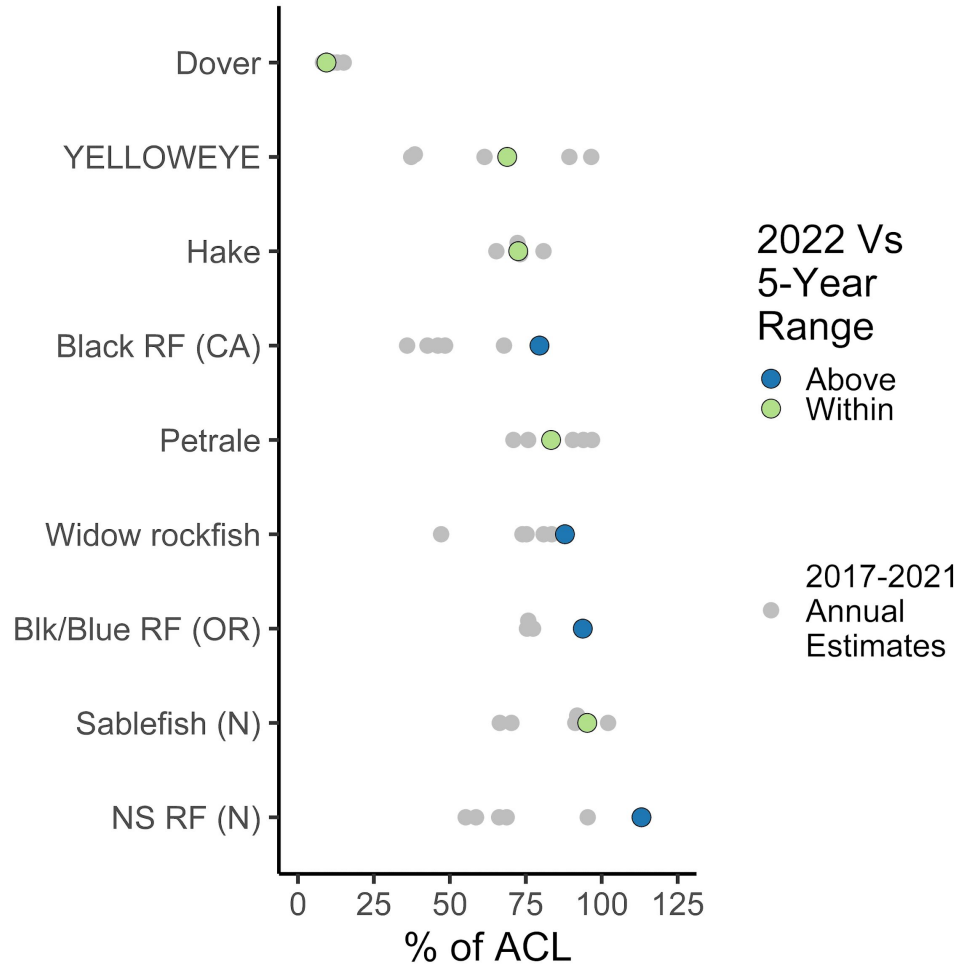
*ETD due to vessel readiness delays. Planned departure 6/16/23.

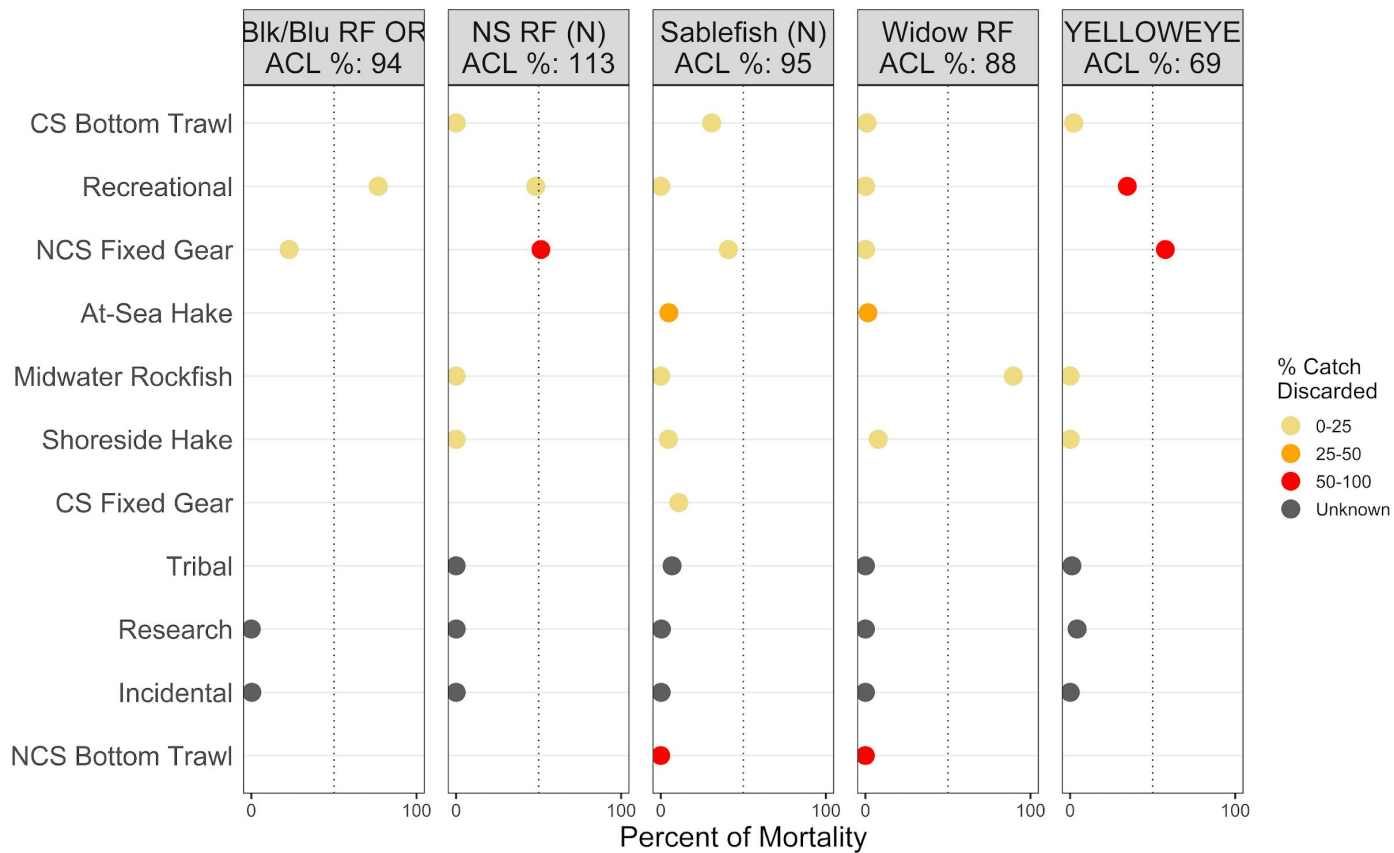
Estimated Discard and Catch of Groundfish Species in the 2022 U.S. West Coast Fisheries

Kayleigh A. Somers, Kate Richerson, Vanessa Tuttle, Jon McVeigh



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Questions?

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Additional FY23 Survey Details



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Planned 2023 Surveys

- 2023 West Coast Groundfish Bottom Trawl Survey (May 15 - Oct. 24)
- 2023 Southern California Rockfish Hook and Line Survey (Sept. 17 - Oct. 6)
- 2023 Joint US-Canada Integrated Ecosystem and Pacific Hake Survey



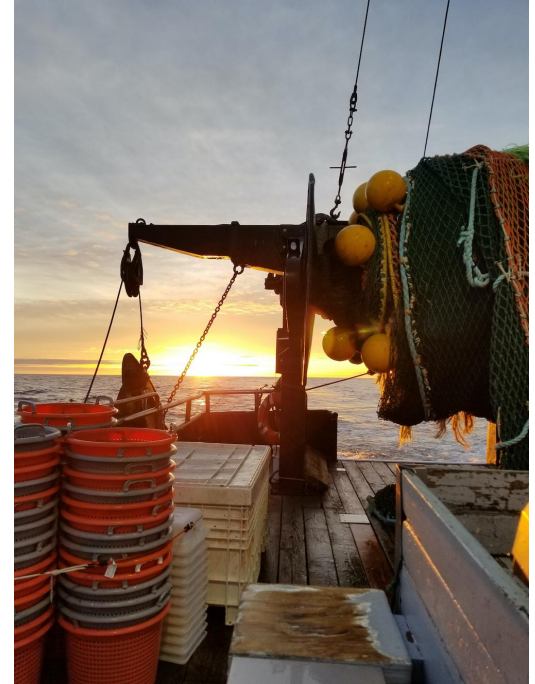
2023 West Coast Groundfish Bottom Trawl Survey

Cornerstone, long-term time series for 90+ species and California Current Ecosystem.

- 24th year in time series

Full-four vessel Survey:

- Two passes, two chartered vessels each, from Cape Flattery to US-Mexico border.



2023 West Coast Groundfish Bottom Trawl Survey



Leg 1 2021



Mobilization 2021

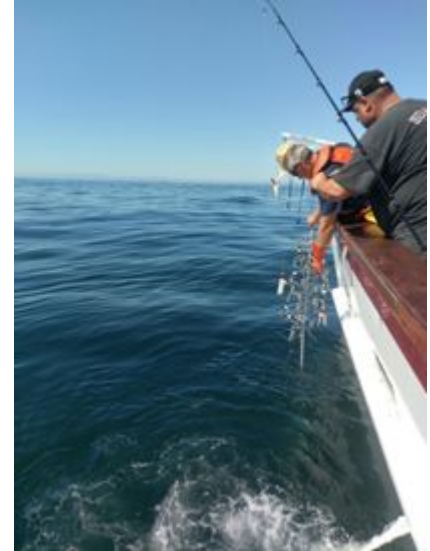
- **Pass 1:** F/V Last Straw and F/V Ms Julie planned (May 15 - July 25, 2023)
- **Pass 2:** F/V Noah's Ark and F/V Excalibur (Aug. 14 - Oct. 24, 2023)
- **5 legs** (8 -11 days per leg) per Pass with 3-day port calls between legs
- **752 sites** scheduled for sampling (188 per vessel)
- **US-Canada border to US-Mexico border** (55 to 1280 m) each pass

2023 Southern California Rockfish Hook and Line Survey



Cowcod 2021

- Southern CA Bight
- 19th year in time series
- Ongoing partnership: NWFSC, PSMFC, and sportfishing industry
- 3 chartered sportfishing vessels
- Sept. 17 - Oct. 6, 2023



Rockfish Descender

2023 Joint U.S.-Canada Integrated Ecosystem & Pacific Hake Survey

69 DAS (U.S.) aboard *Bell M. Shimada* (June 23 - Sept 9)

30 DAS (Canada) aboard *Sir John Franklin* (Aug 17 - Sept 16)

10-nm spaced transects Pt Conception to WCVI, 20-nm N to Dixon Entrance

Daytime:

- Acoustics - 18, 38, 70, 120, 200 kHz (both) + 333 kHz (Canada)
- AWT midwater trawling
- Underway CTD (U.S.), Bongo tows (Canada)
- Harmful Algal Bloom (U.S.)
- Isaacs-Kidd Midwater Trawl (U.S.), Tucker trawl (Canada)
- Marine mammal & seabird observers (Cape Mendocino to Columbia River; OSU collaboration)

Nighttime:

- CTD rosette with Niskin water samples for eDNA

