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Agenda Item G.1.b
Supplemental NWFSC Presentation 1
September 2022

Science Center Activities

September 10, 2022

Craig Russell
Northwest Fisheries Science Center



Overview

- Surveys Update
- Mortality Reports

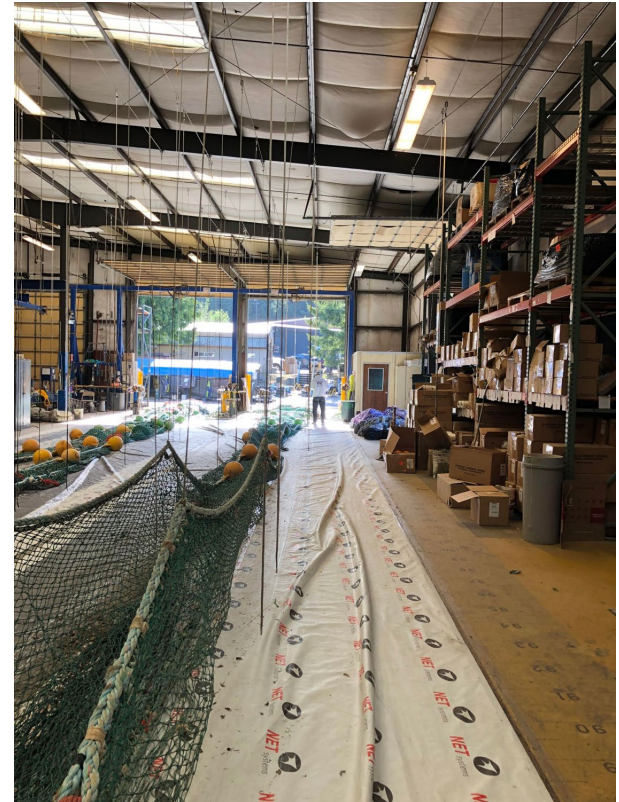
Surveys Update



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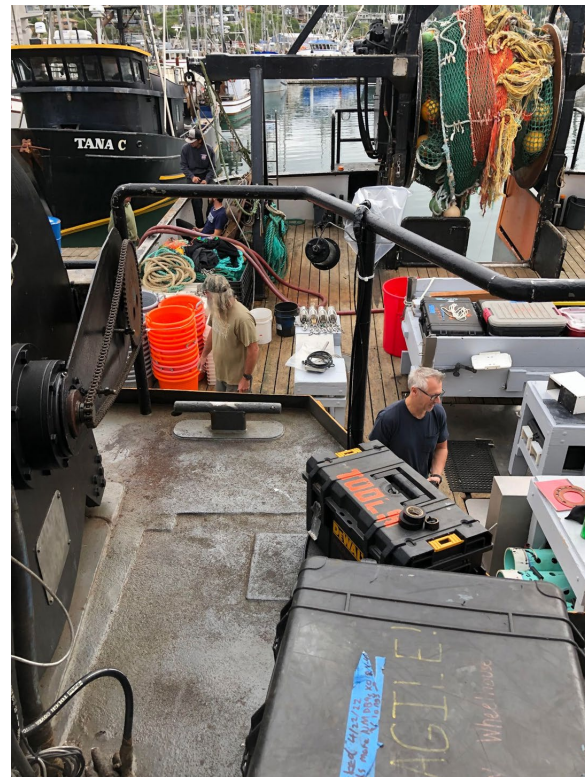
Planned 2022 Surveys On Schedule

- 2022 West Coast Groundfish Bottom Trawl Survey, Pass 2: 8/22-10/28
- 2022 Southern California Rockfish Hook and Line Survey, 9/18-10/7
- CCE Hake Ecology and Survey Methods Research project in support of the Hake/Whiting Treaty, 7/22-8/25



2022 West Coast Groundfish Bottom Trawl Survey: Pass 2

- Mobilization for the second half of the survey occurred Aug. 22 - 26 in Newport, OR
- For leg 1, the F/V *Excalibur* and F/V *Noah's Ark* departed Newport on Aug. 27 to sample north to US/Canada Border (Aug. 27 - Sept. 6)
- Pass 2 will encompass the entire US West Coast from US/Canada to US/Mexico with 188 sites assigned to each vessel



2022 Southern California Rockfish Hook and Line Survey



Cowcod 2021

- Sept. 18 – Oct. 7
- 3 chartered sportfishing vessels - Mirage, Toronado, Aggressor
- 201 sites (79 in CCAs)



Rockfish Descender

2022 CCE Hake Ecology and Survey Methods Research project in support of the Hake/Whiting Treaty

- Surveyed 3 small research areas of hake and rockfish aggregations off OR and WA
- Fully implemented SASSI stereo camera into trawling operations; CTD and eDNA sampling
- Completed Inter-Vessel Calibration of *Shimada* and *Franklin* acoustics data
- Conducted full suite of sampling along Newport Hydrographic Line
- Net comparison test trawls on krill aggregations



CCGS *Sir John Franklin*



Mortality Reports



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Changes in methods in 2021 Groundfish Mortality and Pacific Halibut Reports

- Electronic Monitoring (EM) program estimates were not yet available in full when these reports were prepared
- For Pacific halibut:
 - EM bottom trawl and pot discards were estimated based on data from EM trips that also carried human observers
 - EM midwater hake and rockfish discards were not estimated
- For groundfish mortality:
 - For EM bottom trawl and pot, discards were estimated based on data from EM trips that also carried human observers
 - For EM midwater rockfish, discards were estimated using observed discard rates from the 100% observed midwater rockfish fleet
 - For shoreside EM midwater hake, discards were assumed to be equal in volume to the median 5-year discard percentage from all midwater hake trips (0.3%) and the species composition of discards was equivalent to the landed catch



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Pacific Halibut Bycatch in U.S. West Coast Fisheries (2002-2021)

Kate Richerson, Jason E. Jannot, Kayleigh Somers,
Vanessa Tuttle, Christa Colway, Jon McVeigh

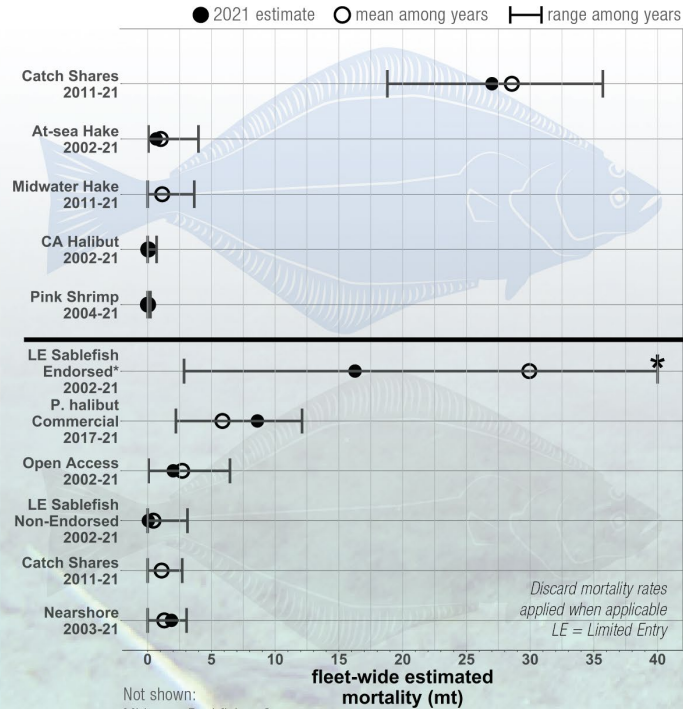


PACIFIC HALIBUT BYCATCH 2002-2021

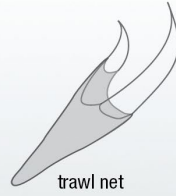
CONTACT INFO: Kate Richerson
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kate.e.richerson@noaa.gov

<https://go.usa.gov/xfG68>

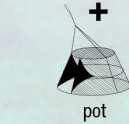
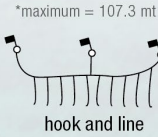
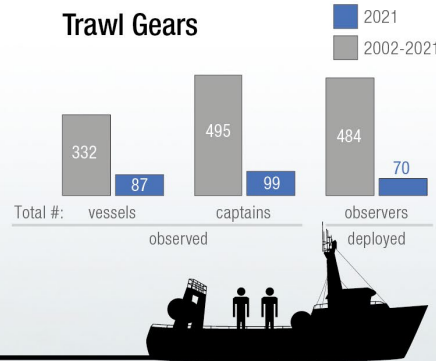
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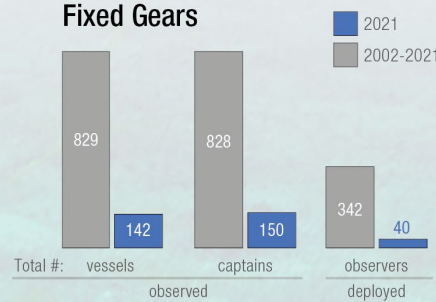
2021 Catch Shares IBQ
Allocation (mt) : 67.77
Attainment (mt): 29.46



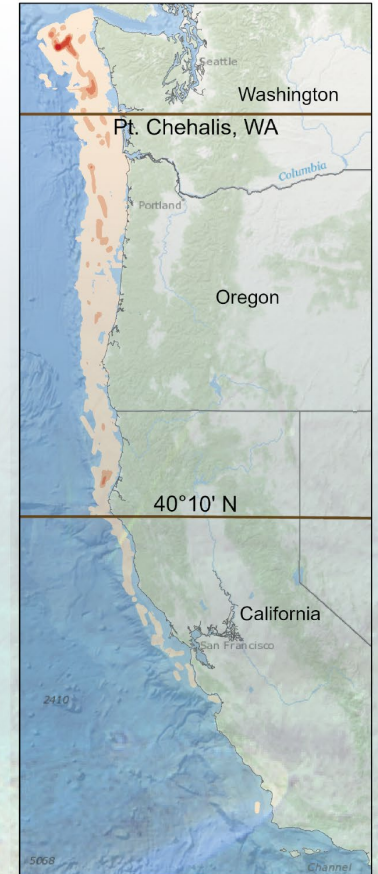
Trawl Gears



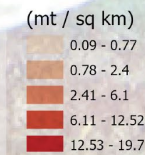
Fixed Gears



Pacific Halibut Bycatch Observed 2002-2021



Pacific Halibut Catch

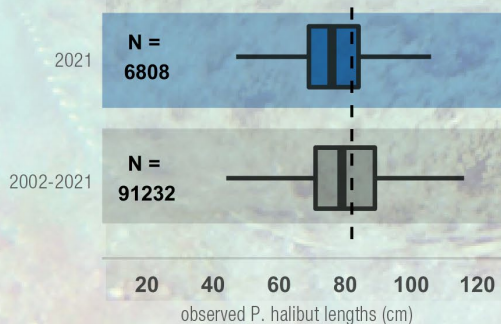


0 75 150 300 N Miles

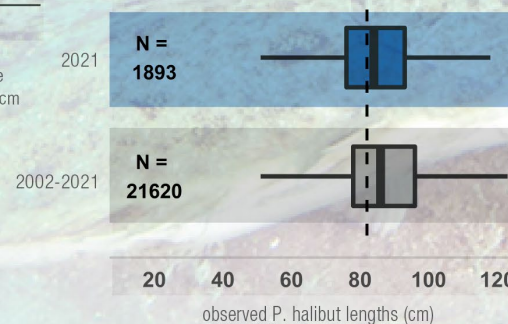
Not shown:
Midwater Rockfish = 0
Catch Shares Fixed Gear and
Midwater Hake 2021 confidential



Trawl Gears



Fixed Gears



Pacific Halibut Mortality Estimates

Sector		2020 (mt)	2021 (mt)
IFQ vessels, non-EM (IBQ allocation = 67.8 mt)		18.80	27.07
IFQ Electronic Monitoring EFP		9.59	1.92
At-sea Hake		0.39	0.67
Sablefish and OA Fixed Gear		8.55	18.34
P. Halibut Directed	discarded	12.11	8.61
	retained	129.05	144.55
State Fisheries		1.36	1.87

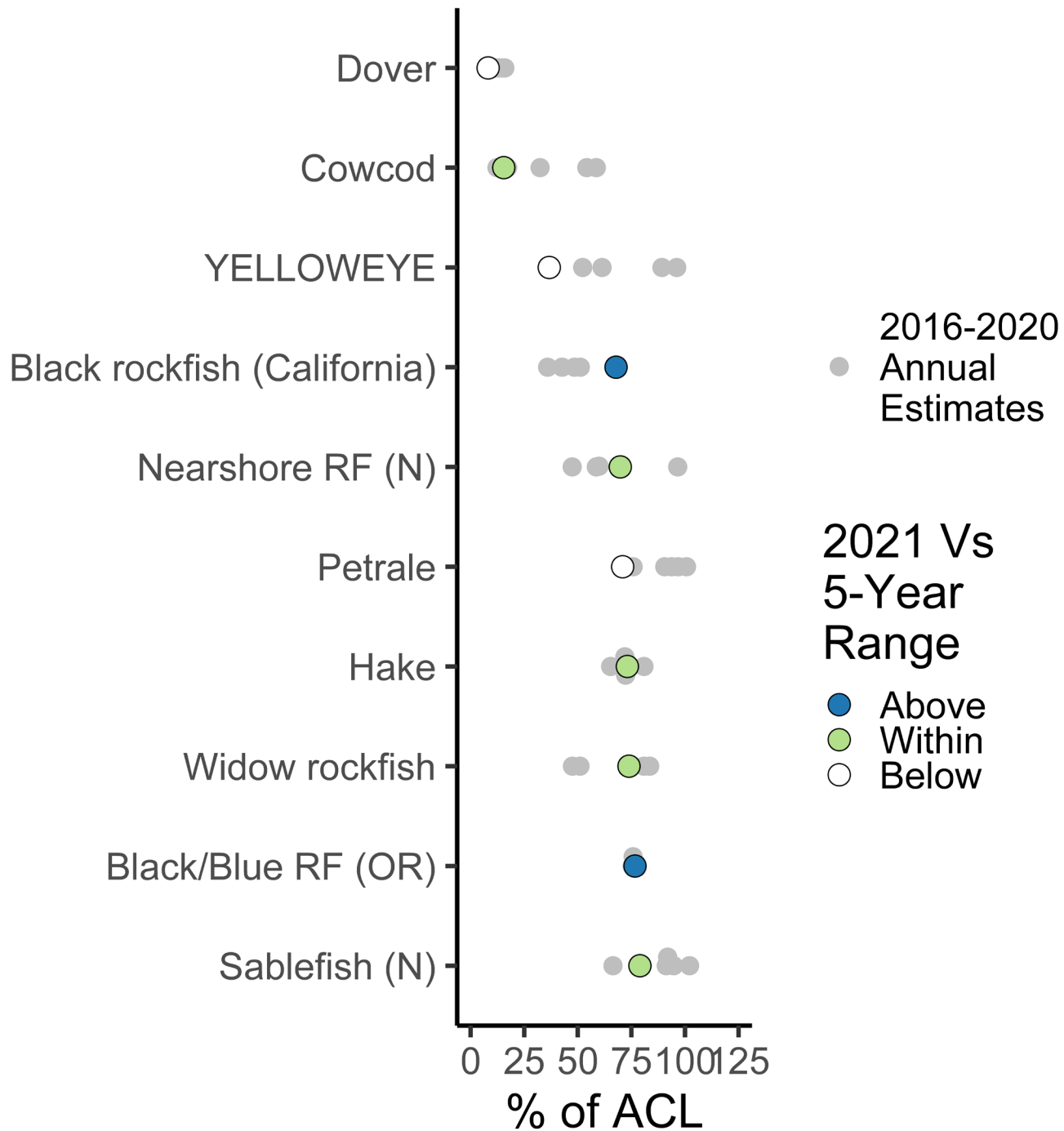


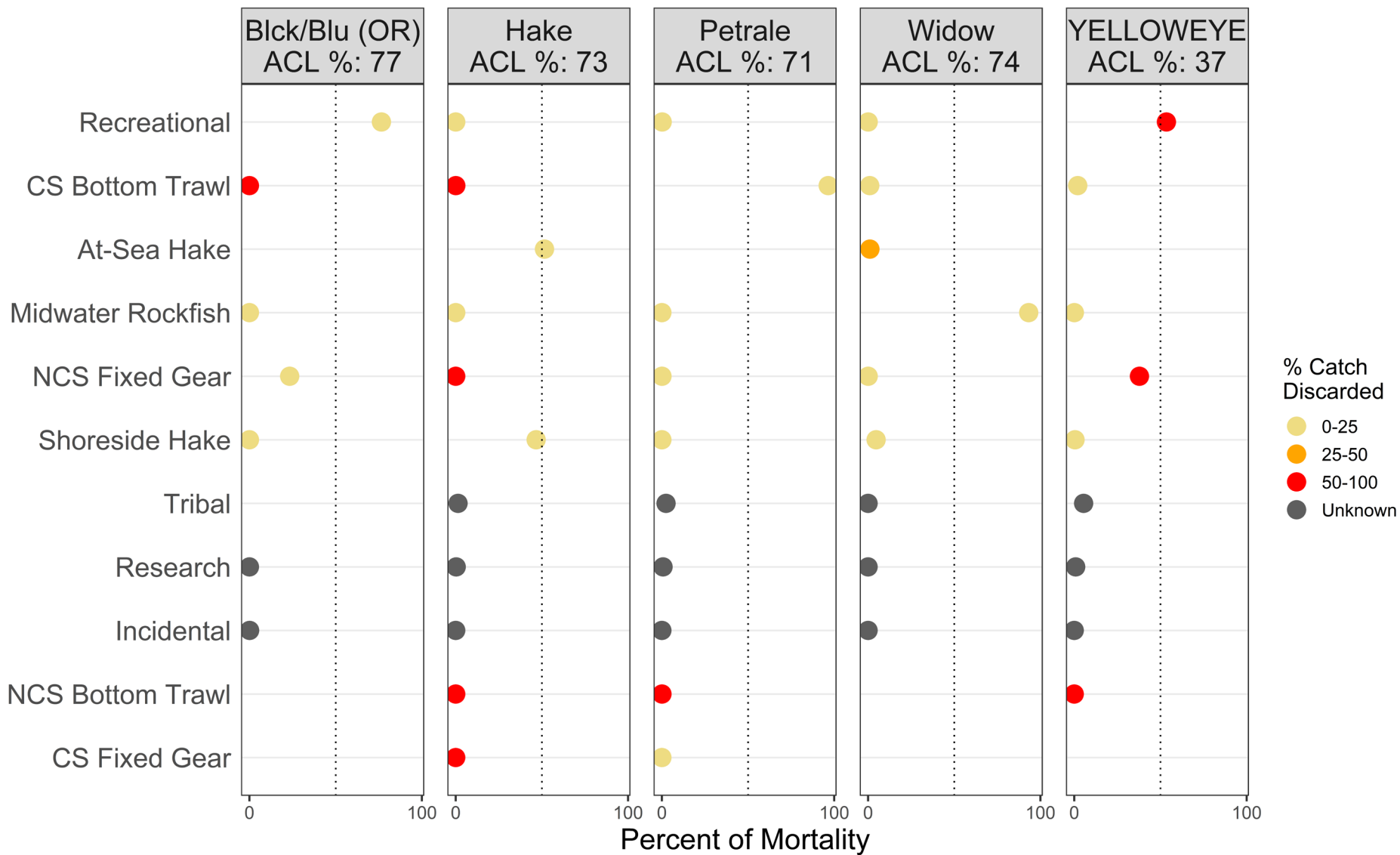
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Estimated Discard and Catch of Groundfish Species in the 2021 U.S. West Coast Fisheries

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





Questions?



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Supplemental Detailed Survey Slides



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2022 West Coast Groundfish Bottom Trawl Survey

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

- 23rd year in time series

Full-four vessel Survey:

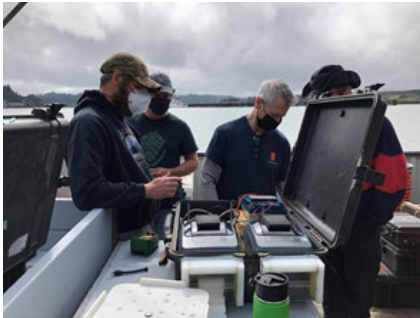
- Two passes, two chartered vessels each, from Cape Flattery to US-Mexico border.



2022 West Coast Groundfish Bottom Trawl Survey



Leg 1 2021



Mobilization 2021

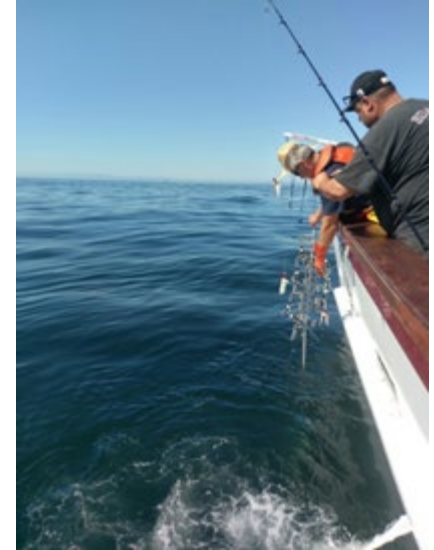
- **Pass 1: May 16 – July 26, 2022**
 - *F/V Ms. Julie, F/V Last Straw* (Pass 1)
- **Pass 2; Aug. 22 – Oct 28, 2022**
 - *F/V Excalibur, F/V Noah's Ark* (Pass 2)
- 4 Legs (11-12 days each) per Pass
- 752 stations (376 per Pass)
- 188 sea-days

2022 Southern California Rockfish Hook and Line Survey



Cowcod 2021

- Southern CA Bight
- 18th year in time series
- Ongoing partnership: NWFSC, PSMFC, and sportfishing industry
- 3 chartered sportfishing vessels



Rockfish Descender

2022 CCE Hake Ecology and Survey Methods Research cruise in support of the Hake/Whiting Treaty

- **2022 is a non-survey year for hake**
 - Research focus
 - NWFSC - 30 days on *Shimada*; DFO - 21 days on *Franklin*, mid-late Summer 2022
- **Main objectives:**
 - Complete an Inter-Vessel Calibration (IVC) between *Shimada* and *Franklin*
 - EK80 research (use new system to understand fish acoustic properties) (*Shimada* and *Franklin*)
 - Hake-mesopelagic interactions (*Franklin*)
 - Hake mix & rockfish/habitat characterization (*Shimada*)

