

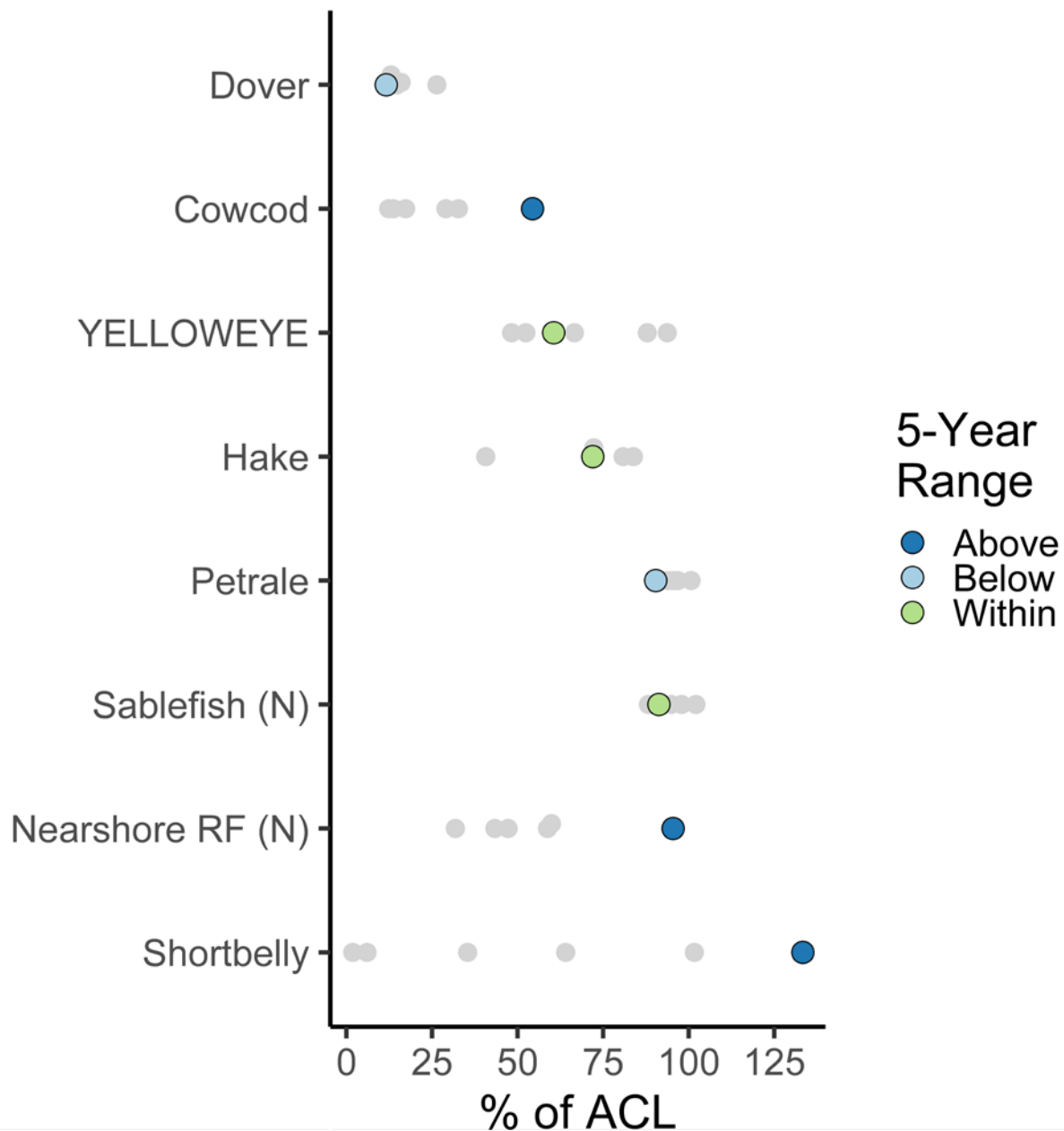


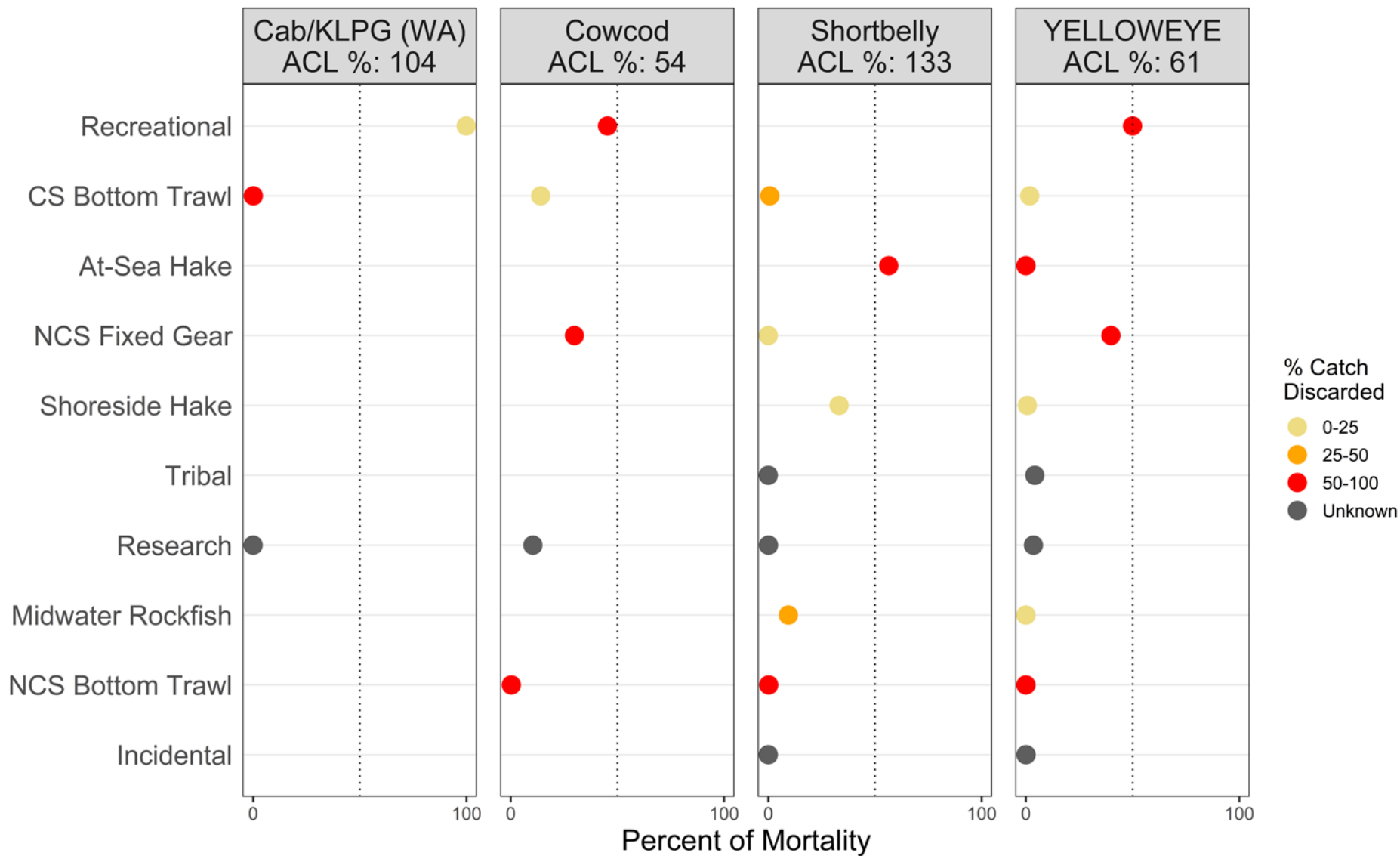
**NOAA
FISHERIES**

Northwest
Fisheries Science
Center

Estimated Discard and Catch of Groundfish Species in the 2019 U.S. West Coast Fisheries

Kayleigh A. Somers,
Jason Jannot, Kate Richerson,
Vanessa Tuttle, Ryan Shama, Jon McVeigh







**NOAA
FISHERIES**

Northwest
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Pacific Halibut Bycatch in U.S. West Coast Fisheries (2002-2019)

Jason Jannot,
Kate Richerson, Kayleigh Somers,
Vanessa Tuttle, Ryan Shama, Jon McVeigh



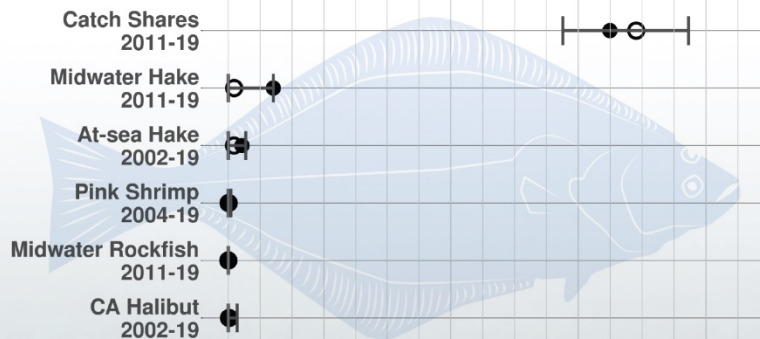
PACIFIC HALIBUT BYCATCH 2002-2019

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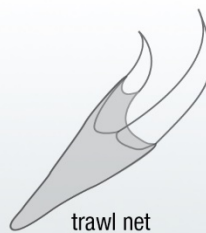
<http://tinyurl.com/PhalibutReports>

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● 2019 estimate ○ mean among years ┌─ range among years

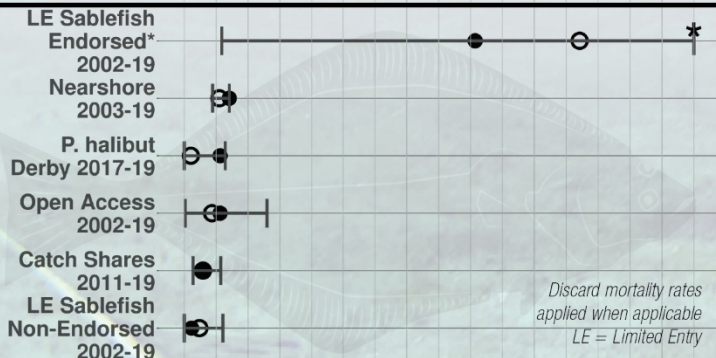
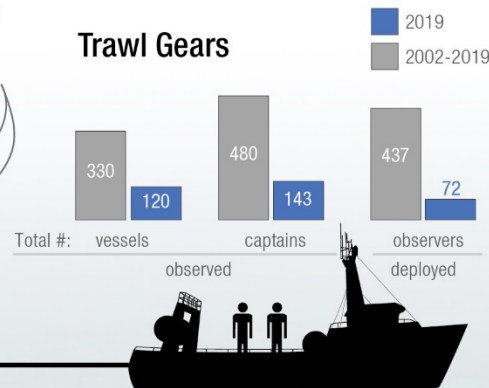


2019 Catch Shares IBO
Allocation (mt) : 69.58
Attainment (mt): 31.58



trawl net

Trawl Gears

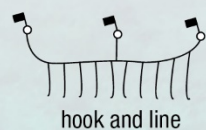


Ridgeback Prawn fisheries had zero (0) observed P. halibut.

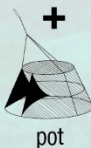
mortality (mt)
(fleet-wide estimate)

Discard mortality rates
applied when applicable
LE = Limited Entry

*maximum = 107.3 mt

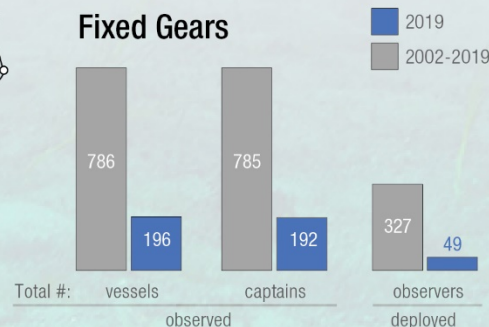


hook and line



pot

Fixed Gears



Pacific Halibut Bycatch Observed 2002-2019



Pacific Halibut Catch
(mt / sq km)

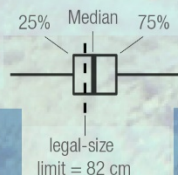
3.19 - 6.96
6.97 - 12.44
12.45 - 18.88
0.07 - 0.89
0.9 - 3.18

0 75 150 300 N Miles

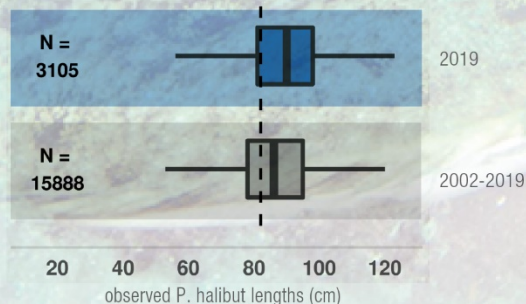
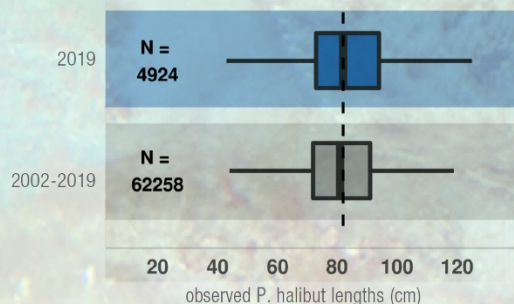


Map by K. Somers

Trawl Gears



Fixed Gears



Pacific Halibut Mortality Estimates

Sector		2018 (mt)	2019 (mt)
IFQ vessels, non-EM (IBQ allocation = 69.6 mt)		25.77	27.46
IFQ Electronic Monitoring EFP		6.88	4.99
At-sea Hake		0.66	0.54
Sablefish and OA Fixed Gear		29.87	28.67
P. Halibut Directed	discarded	2.39	3.53
	retained	135.0	157.77
State Fisheries		1.61	0.57