

### FISS HQ TEAM



Setline Survey Coordinator, Kayla Ualesi, B.Sc.



Setline Survey Specialist, Kevin Coll, B.Sc.



Setline Survey Specialist, Rachel Rillera, B.Sc.



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### **Objective - Primary**

Standardised, fishery-independent data collection for the Pacific halibut stock (*Hippoglossus stenolepis*) assessment and stock distribution estimation

- Pacific halibut distribution and abundance trends
- Collection of biological data (sex, maturity, and age)







### **Standardisation**

### <u>Gear</u>

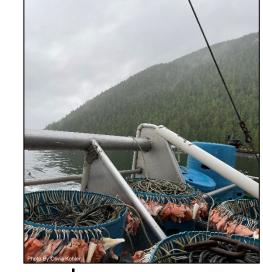
Fixed gear



#### Each skate

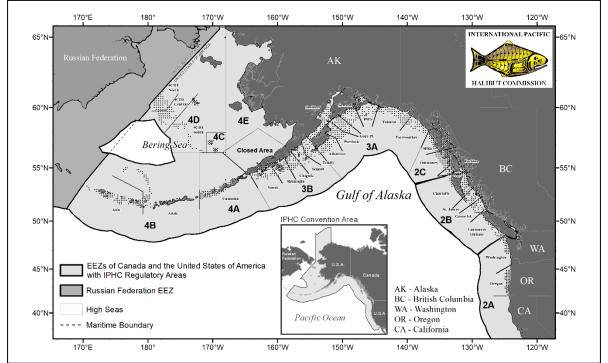
- 548.6 metres (1800 feet) with 100 hooks spaced 5.5 metres (18 feet) apart
- No.3 (16/0) circle hooks threaded through the front on 61 to 122 centimetre (24 to 48 inch) gangions
- 3 to 5 kilogram (7-10 pound) weights on each non-anchored skate end





- Frozen chum salmon (Oncorhynchus keta)
- Number 2 semi-bright or better
- Cut 1/10 to 1/6 kilogram (1/4 to 1/3 pound)
- Captains sign off on bait quality

### 2022 Fishery-Independent Setline Survey (FISS)

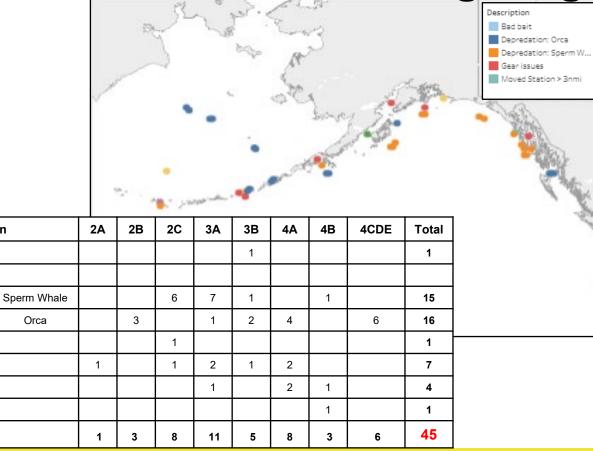


**27 May – 15 September** (28 May-14 September 2021, 26 June to 09 Sept 2020)

**8 vessels** (13 in 2021, 11 in 2020)

**1,188 stations** (1,346 in 2021, 951 in 2020)

Ineffective stations and sightings in 2022





Orca

Description

Depredation: Shark Depredation: Whale

Moved Station > 3nm

Soak Time > 24 hrs

Gear Issues

Sand Fleas

Total

Sand Flea activity

Weather

Soak <5 hr or >24 hr

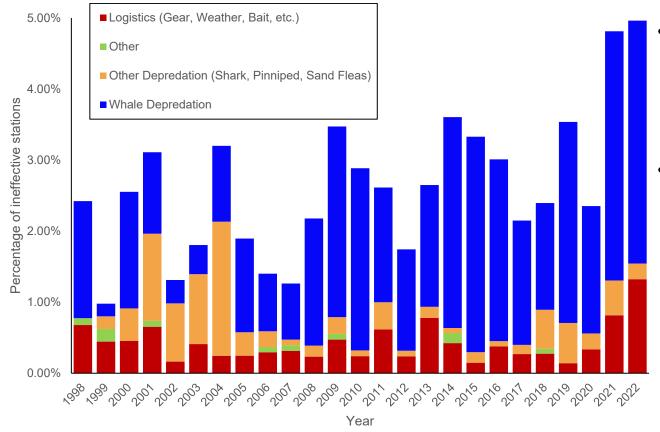
Predation: Pinniped

Predation : unknown

Predation : Shark

Predation: Whale

### Percentage of Ineffective Stations



- Changes in the FISS design from year to year will influence the number of ineffective stations
- Area 4A has the highest percentage of ineffective stations and significantly impacts the whale depredation percentages in the years that area is included in the survey (not a part of 2020)

# **Objective - Secondary**

- Mid- to Long-term revenue neutrality
  - Improved fish sale process
    - RFT for each sale
    - Rated against specified criteria
    - Established controls for review and approval for each sale
    - · Buyers invoiced
  - Charter Agreements
    - RFTs
    - All submissions rated against specified criteria





## **Objective - Secondary**

- Sale of <u>sampled</u> U32 Pacific halibut
- Price slightly less (12% less than O32 Pacific halibut average price)





### Collaboration

**Tertiary objectives** 

- WDFW: Rockfish (8 stations)
- ODFW: Dockside Rockfish Sampling
- AK: Pacific cod, dogfish sampling
- 2B: Dockside Rockfish Sampling
- Agreements being discussed for 2023+





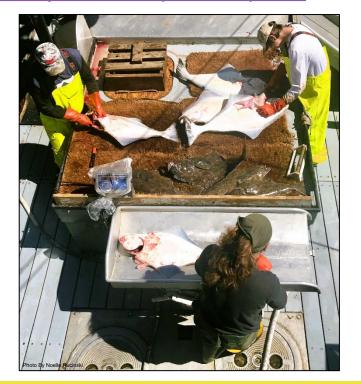




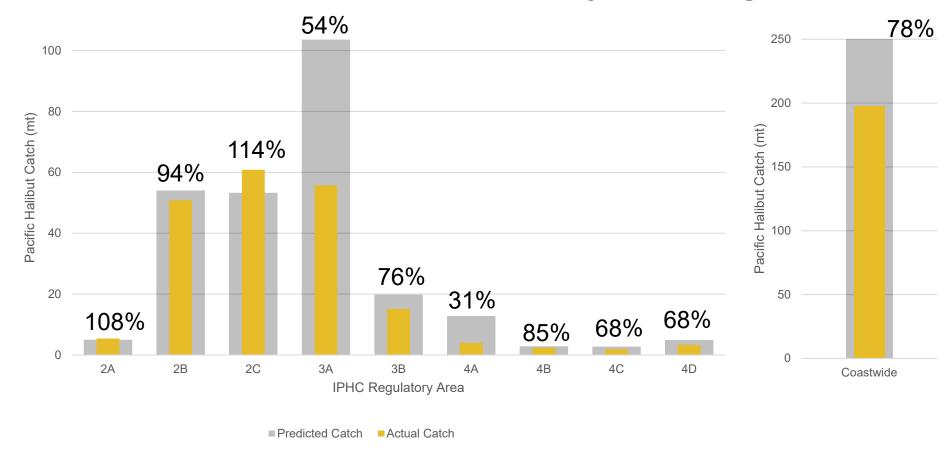
### 2022 – FISS results

- FISS Catch-Per-Unit-Effort (CPUE) data maps and plots
- FISS Performance
- FISS Biologicals
- Data set downloads





### Predicted versus Actual Catch by IPHC Reg. Area



# Average Price/lb (USD) by IPHC Reg. Area

IPHC Regulatory Area	FISS 2022 Average price/lb (USD)	FISS 2021 Average price/lb (USD)
2A	\$5.61	\$5.18
2B	\$9.01	\$8.09
2C	\$7.34	\$6.69
3A	\$7.44	\$6.95
3B	\$7.27	\$6.05
4A	\$6.81	\$5.32
4B	\$6.90	\$5.58
4C	\$6.84	\$5.37
4D	\$6.82	\$5.26
Coastwide	\$7.72	\$6.87

# Average Price/lb (USD) Over Time (2000-2022)

FISS YEAR



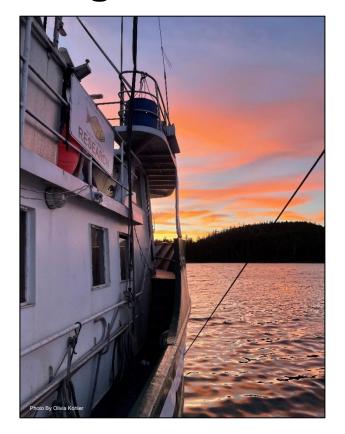
### Pacific halibut sales (USD) by IPHC Reg. Area

(invoiced as of 6 September 2022)

IPHC Regulatory Area	FISS 2022 Pacific halibut sales Value (USD)	FISS 2021 Pacific halibut sales Value (USD)
2A	\$68,696.45	\$63,775.05
2B	\$974,464.84	\$1,161,310.83
2C	\$908,164.01	\$945,696.68
3A	\$847,326.09	\$2,465,869.19
3B	\$230,386.15	\$561,387.18
4A	\$57,181.51	\$160,918.61
4B	\$33,924.00	\$101,041.43
4C	\$27,032.16	\$29,478.45
4D	\$47,699.56	\$8,325.70
Closed Area		\$601.60
TOTAL	\$3,194,874.77	\$5,498,404.72

## **2022 FISS Challenges**

- Lack of vessel bids
  - Vessel Availability
    - Sablefish quota
    - Snap-Gear transition
    - Crew recruitment & retention
    - Vessel maintenance



#### **INTERNATIONAL PACIFIC**

