



Primary objective

Standardised, fishery-independent data collection for the Pacific halibut annual stock assessment

- Pacific halibut distribution and abundance trends –
 CPUE
- Collection of biological structures (determining sex and maturity and age)
- Data from U32 Pacific halibut













Coastwide weights at-sea





 Weights taken at-sea along with lengths on all vessels



Standardisation

Gear

Fixed gear

Each skate

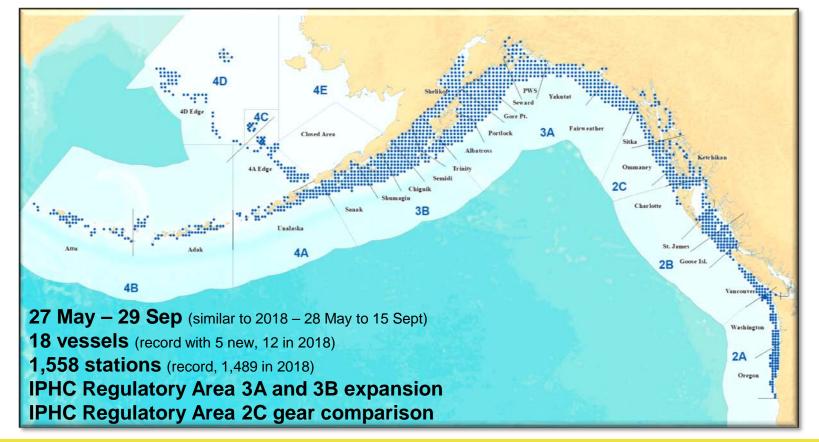
- 548.64 metres (1800 feet) with 100 hooks spaced 5.49 metres (18 feet) apart
- No.3 (16/0) circle hooks threaded through the front on 61 to 122 centimetres (24 to 48 inch) gangions
- 3 to 5 kilogram (7-10 pound) weights on each non-anchored skate end

Bait

- Frozen chum salmon
- 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

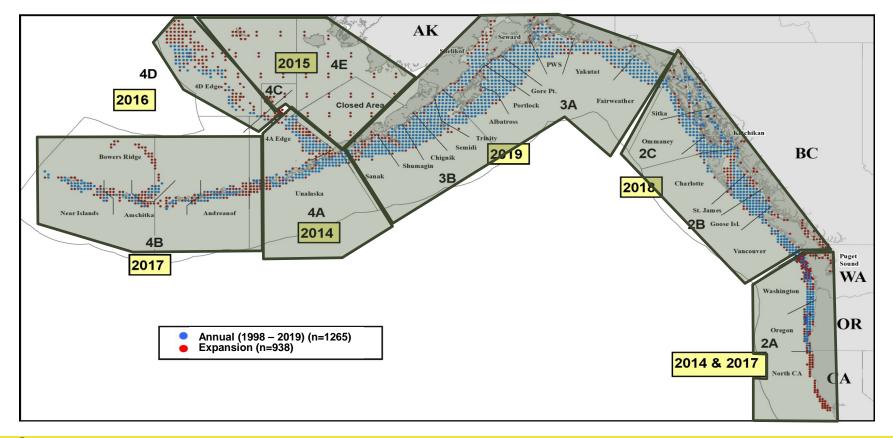


2019 Fishery-Independent Setline Survey (FISS)





IPHC FISS stations 2014-19



FISS expansions in 2019

IPHC Regulatory Area 3A

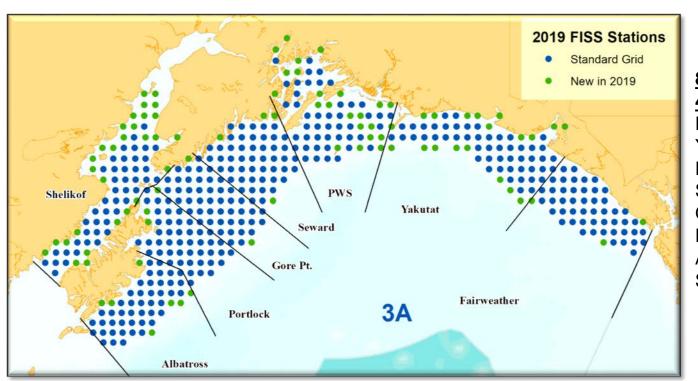
- Addition of deep (>275 fm) and shallow (10-20 fm) stations
- Other coverage gaps, including:
 - Cook inlet
 - Inside and outside Prince William Sound

IPHC Regulatory Area 3B

- Addition of deep (>275 fm) and shallow (10-20 fm) stations
- Other coverage gaps, including:
 - Waters around the Shumagin and Sanak Islands



2019 FISS expansions

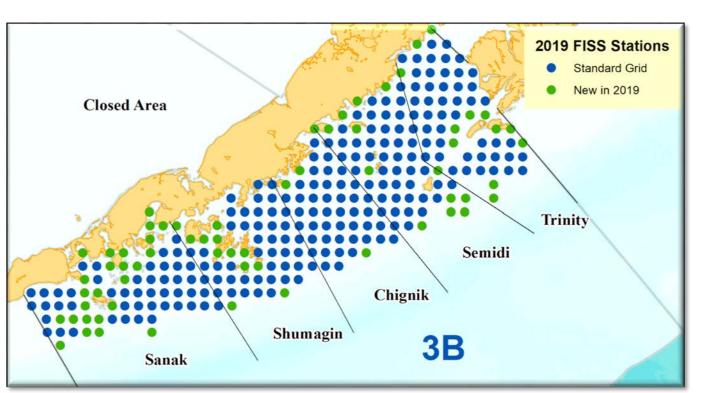


89 Expansion stations 463 Total

Fairweather – 51 (2 expansion)
Yakutat – 70 (19 expansion)
PWS – 68 (23 expansion)
Seward – 52 (4 expansion)
Gore Pt. – 48 (3 expansion)
Portlock– 50 (4 expansion)
Albatross – 52 (7 expansion)
Shelikof – 72 (27 expansion)



2019 FISS expansions



66 Expansion stations 297 total

Trinity – 58 (11 expansion)
Semidi – 60 (13 expansion)
Chignik – 49 (4 expansion)
Shumagin – 55 (11 expansion)
Sanak – 75 (27 expansion)



2019 gear comparison - fixed and snap

- IPHC Regulatory Area 2C
- Each station fished twice in random order
 - once with fixed-gear
 - once with snap-gear.

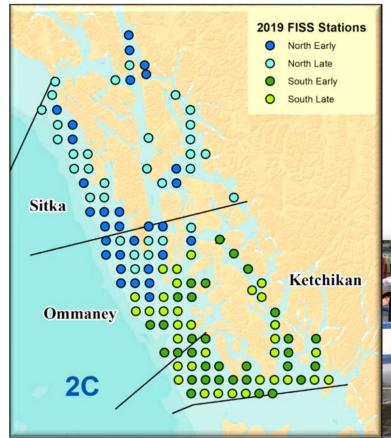








2019 FISS gear comparison

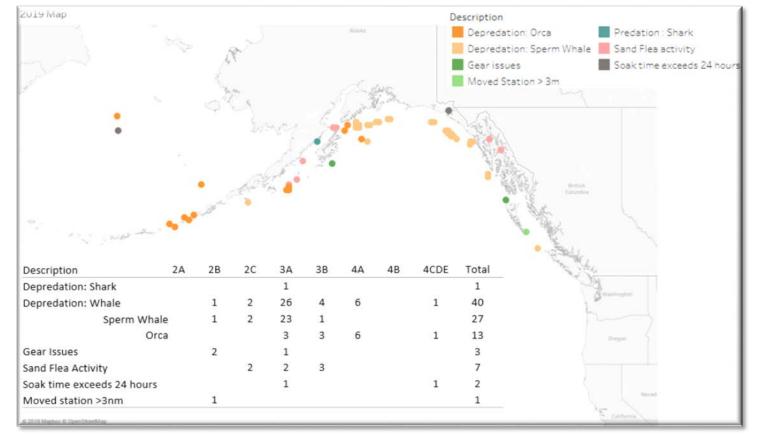


Fixed and snap gear stations Timing is for fixed gear

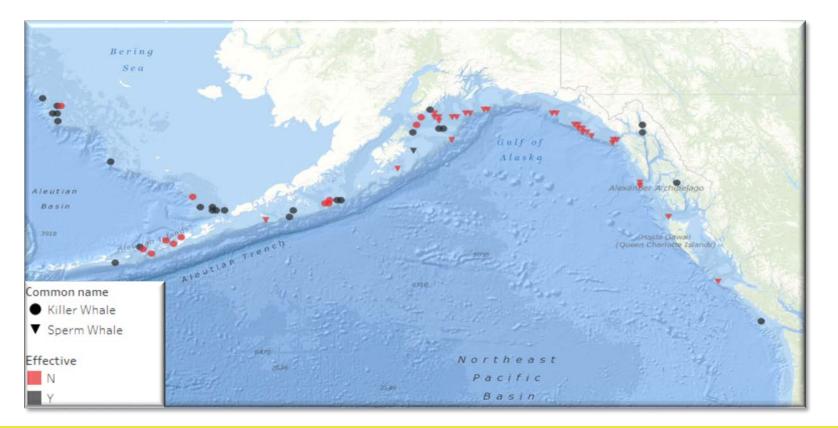




Ineffective stations in 2019



FISS stations with killer or sperm whale sightings





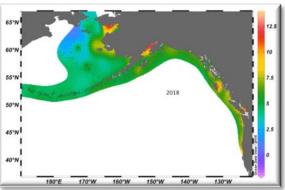
Secondary objectives

- Platform for data collection projects
 - Genetics, reproduction and condition factors
 - Oceanographic data
 - Prior hooking injuries
 - Marine mammal and seabird interactions
 - Environmental Contamination (ADEC)











Tertiary objectives

Collaboration

- Canada
 - Fisheries and Oceans
 - Rockfish biological samples
 - 100% hook occupancy
 - Shark sampling

United States of America

- NOAA Fisheries
 - Pacific cod sampling
 - Electronic monitoring system tests
 - Shark sampling (spiny dogfish and six gill)
 - NOAA Fisheries trawl sampling
- WDFW and ODFW
 - Rockfish sampling cooperation

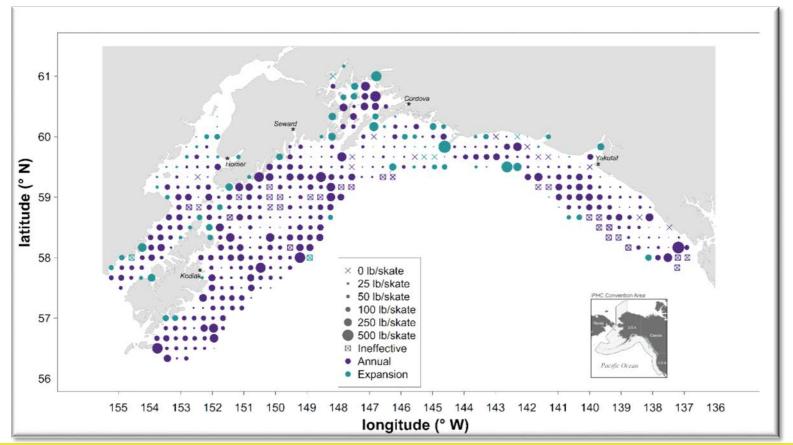




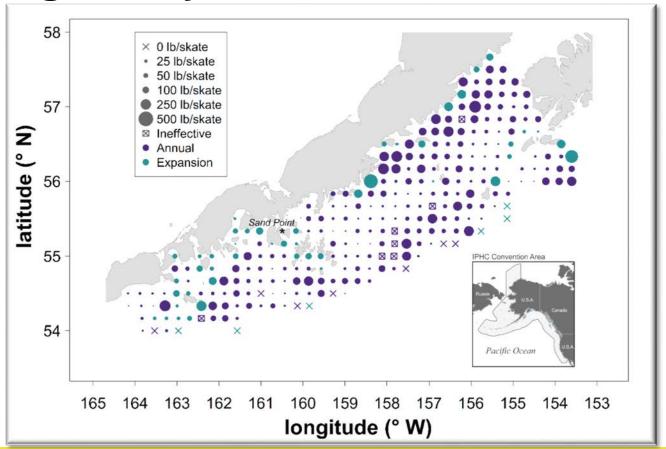




IPHC Regulatory Area 3A



IPHC Regulatory Area 3B





2019 - FISS results

- Explore the website for;
 - FISS Catch-Per-Unit-Effort (CPUE) data maps and plots
 - FISS Biologicals
 - FISS Performance
 - Data set downloads





2020 – request for tender process

- Tender specs to be online in January.
- Special attention to station counts and locations
- Submission of the tender online.
- Due by 15 February 2020.

INTERNATIONAL PACIFIC







Borealis I (BOR)

New for 2019 Early Snap South 2C (33 stations)





Heather Rae (HRA)

New for 2019 Early Snap North 2C (30 stations)





Hanna Lio (HAN)

New for 2019 Late Snap North 2C (30 stations)





Southern Seas (SNS)

New for 2019 Shelikof (73 stations)





Cindria Gene (CDG)

New for 2019 Trinity and Yakutat (54 stations)