

INTERNATIONAL PACIFIC



HALIBUT COMMISSION

Fishery Independent Setline Survey (FISS) design and implementation in 2018, including current and future expansions

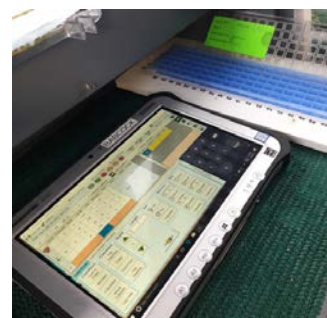
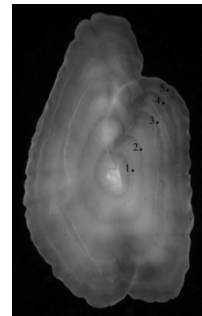
Agenda Item 6.1

IPHC-2019-AM095-06

Primary objective

Standardized, fishery-independent data for Pacific halibut stock assessment

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



Standardization

Gear

- Fixed gear

Each skate

- 1800 feet with 100 hooks spaced 18 feet apart
- No.3 (16/0) circle hooks threaded through the front on 24 to 48 inch gangions
- 7-10 lb weights on each non-anchored skate end

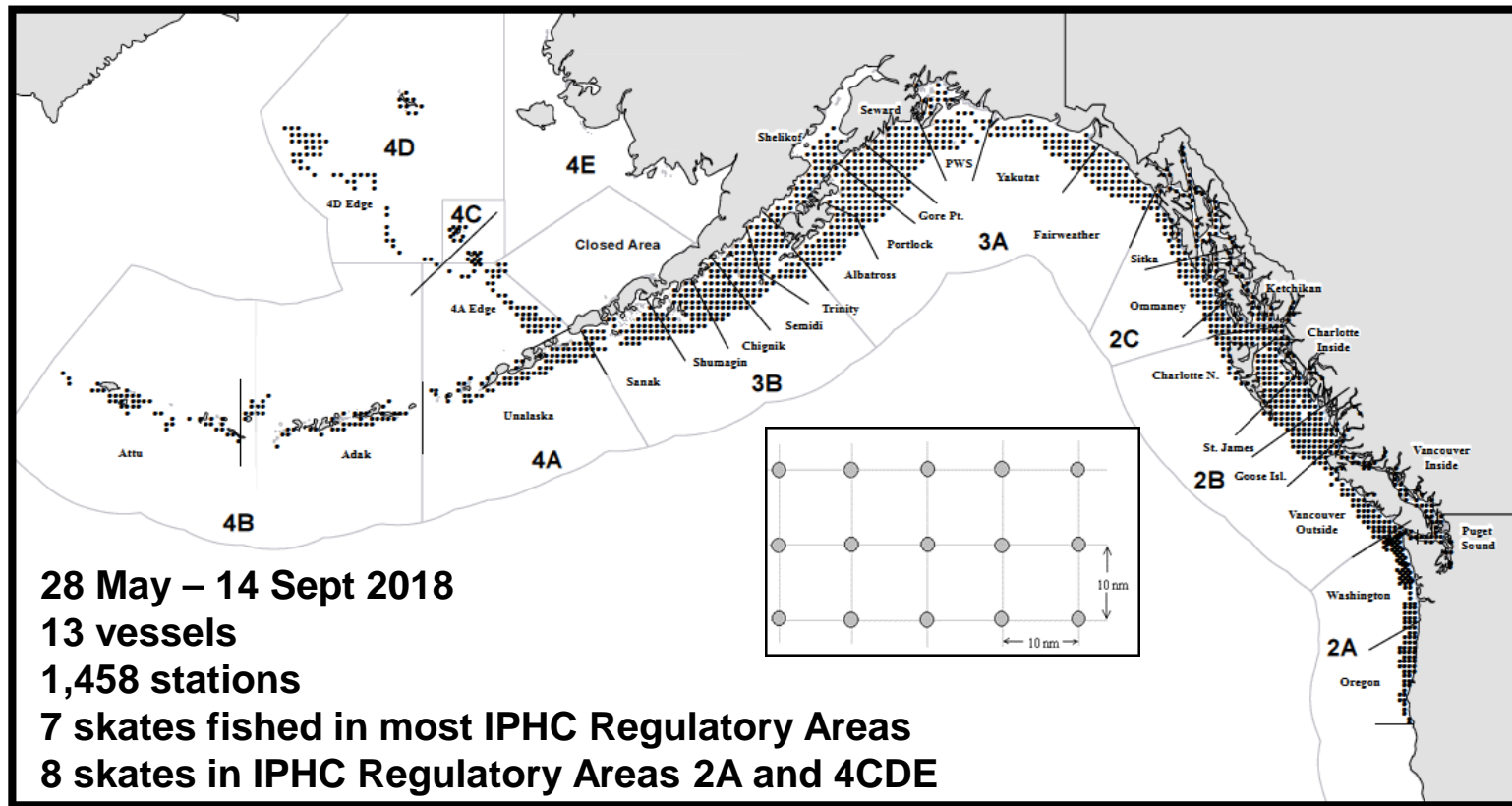


Bait

- Frozen chum salmon
- Number 2 semi-bright or better
- Cut 1/4 to 1/3 pound
- New in 2018 - Captain sign off on bait quality



2018 Fishery-Independent Setline Survey (FISS)



Ineffective stations in 2018

Stations excluded from stock assessment dataset in 2018



Select Year

2018

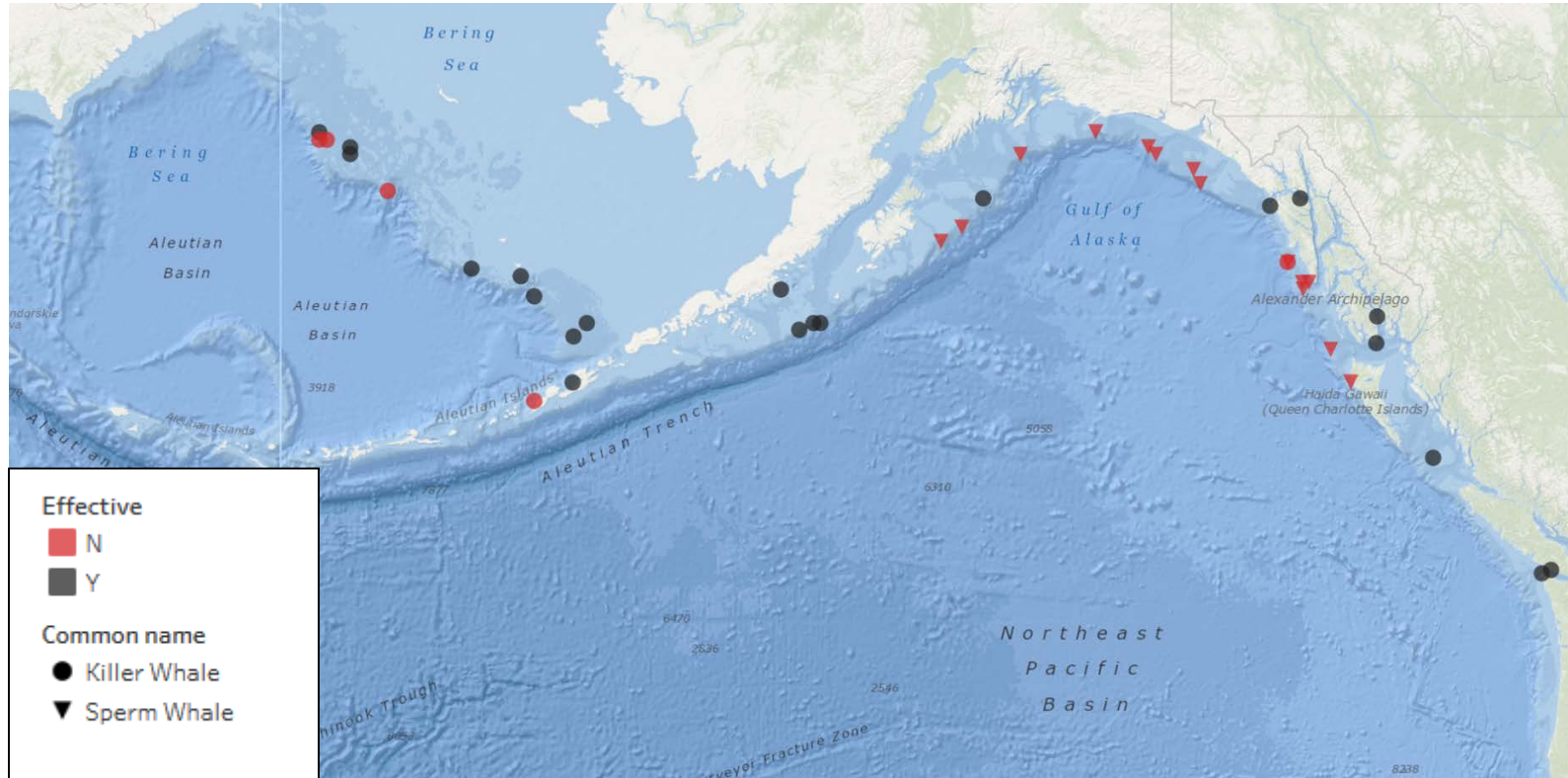
Reason

- Depredation : Pinniped
- Depredation : Shark
- Depredation : Whale
- Gear issues
- Sand Flea activity
- Soak time exceeds 24 hours

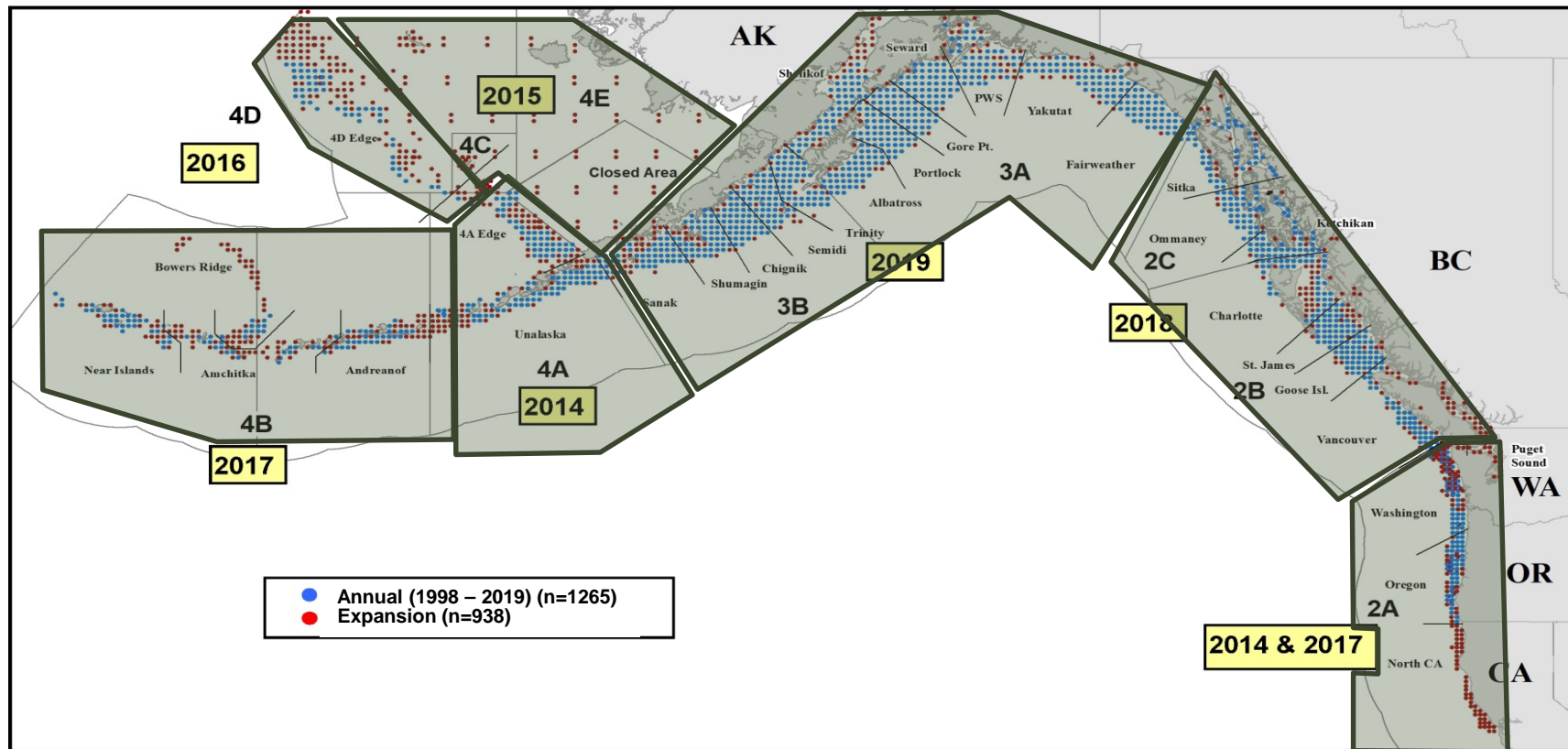
2018

Description	2A	2B	2C	3A	3B	4A	4B	4CDE
Depredation : Pinniped	1							
Depredation : Shark				1				
Depredation : Whale		1	5	8		1		3
Gear issues	1		2	1				
Sand Flea activity				2	3	2		
Soak time exceeds 24 hours			1				1	

FISS stations with killer or sperm whale sightings



IPHC FISS stations 2014-19



IPHC Regulatory Area 2B station types by charter region

Charter Region	Total	Expansion	Annual (1998 – 2018)
Charlotte Inside	48	30	18
Charlotte North	40	15	25
Goose Islands	58	15	43
St. James	57	18	39
Vancouver Inside	41	41	0
Vancouver Outside	58	17	41
Total	302	129	166

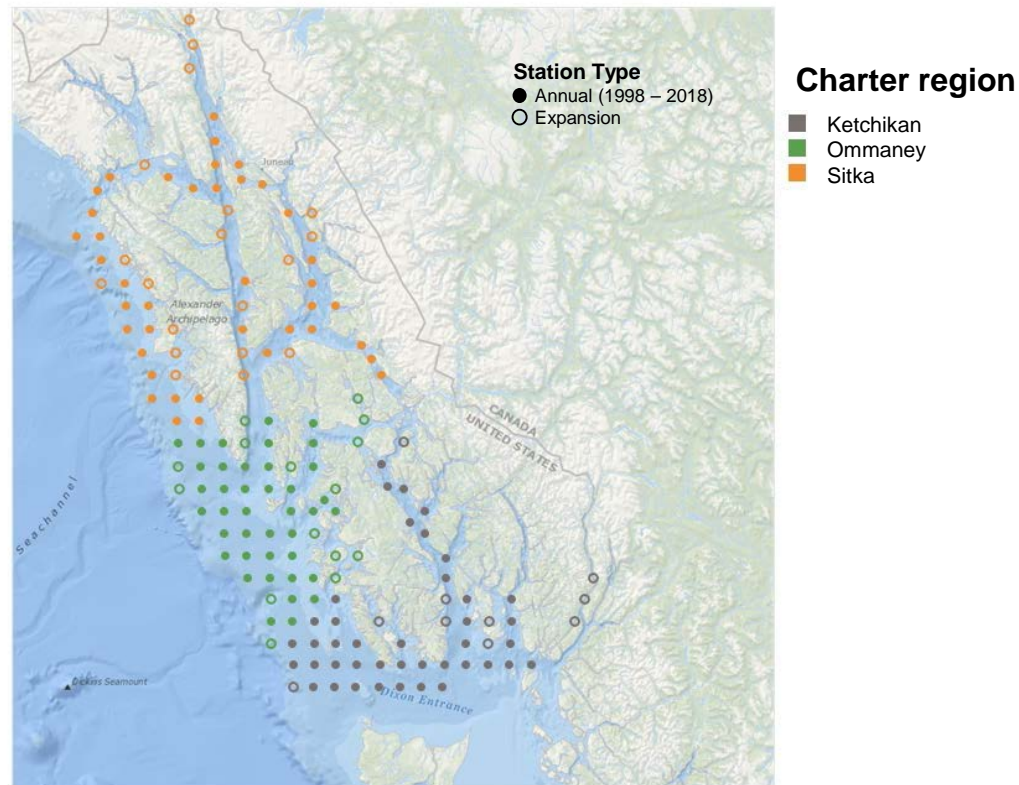
Six (6) stations not permitted.



IPHC Regulatory Area 2C station type by charter region

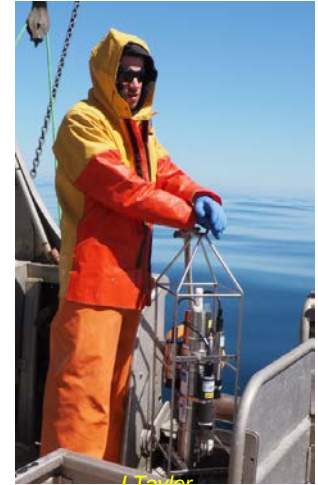
Charter Region	Total	Expansion	Annual (1998 – 2018)
Ketchikan	51	10	41
Ommaney	55	15	40
Sitka	59	19	40
Total	165	44	121

Three (3) stations not permitted

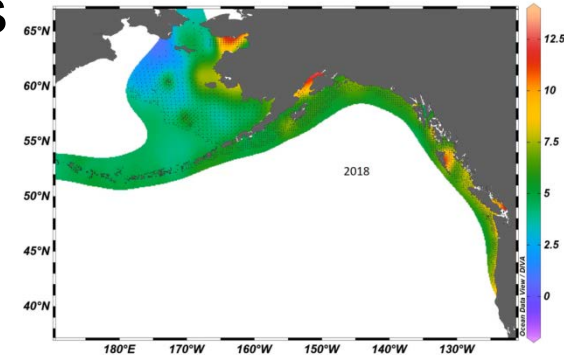


Secondary objectives

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



J. Taylor



Tertiary objectives

Collaboration

– Canada

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

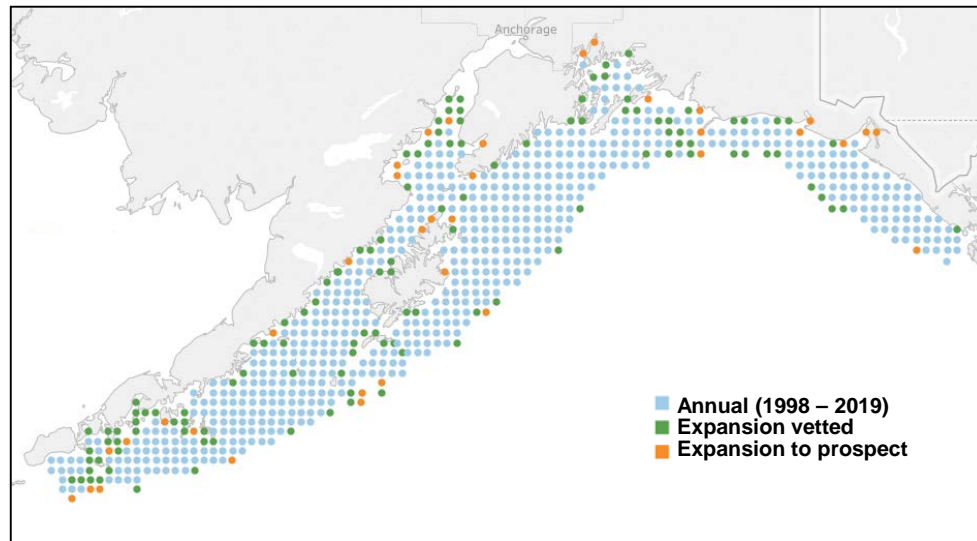
– United States of America

- NOAA Fisheries
 - Pacific cod sampling
 - Electronic monitoring system tests
 - Shark sampling (spiny dogfish, six gill, sleeper)
 - IPHC Secretariat staff on NOAA Fisheries trawl surveys
- WDFW, ODFW, CDFW
 - Rockfish sampling cooperation



2019 expansion stations in IPHC Regulatory Areas 3A and 3B

Regulatory Area	Charter Region	Annual (1998 – 2019)	Expansion Vetted	Expansion to Prospect	Total
3A	Albatross	45	5	2	52
3A	Fairweather	49	1	1	51
3A	Gore Pt.	45	2	1	48
3A	Portlock	46	3	1	50
3A	PWS	45	18	5	68
3A	Seward	48	4		52
3A	Shelikof	45	19	8	72
3A	Yakutat	51	13	6	70
3B	Chignik	45	4		49
3B	Sanak	48	22	5	75
3B	Semidi	47	10	3	60
3B	Shumagin	44	8	3	55
3B	Trinity	47	11	1	59
Total		605	120	36	761



2019 gear comparison - fixed to snap

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



2019 fixed to snap gear comparison

Fixed Gear

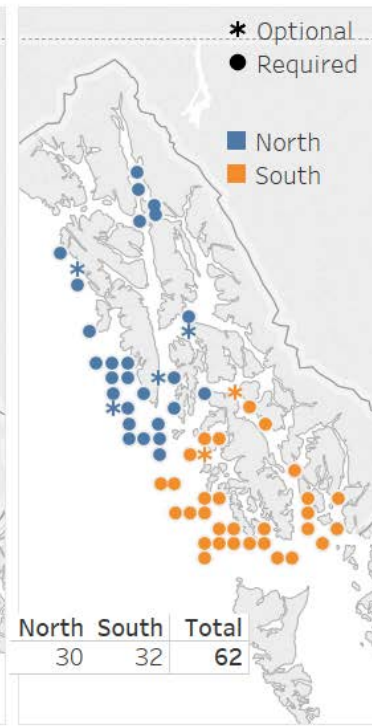
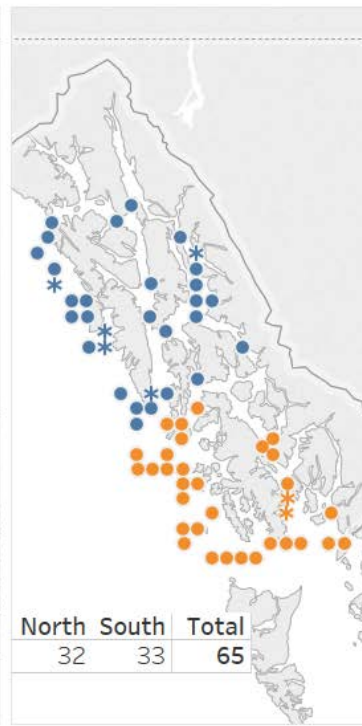
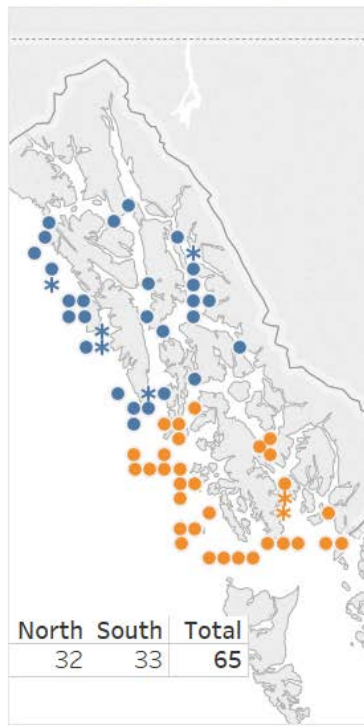
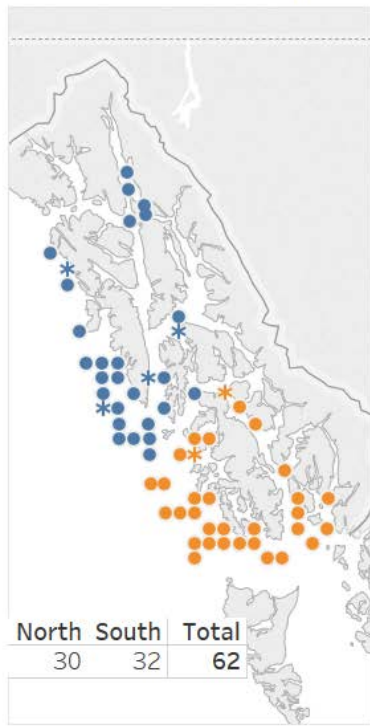
Snap Gear

1 June - 15 July

16 July - 31 August

1 June - 15 July

16 July - 31 August



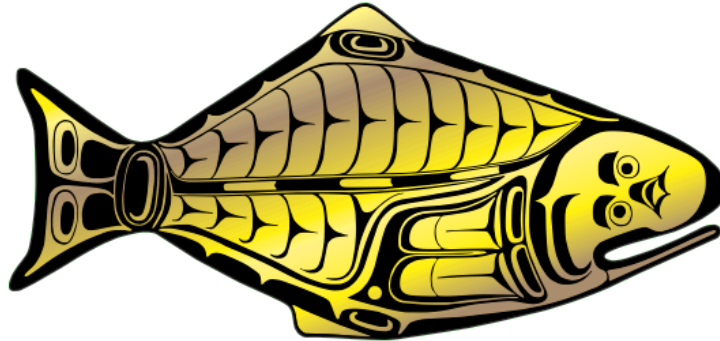
New for 2019 – request for tender process

- Bid specs are [online](#).
- Submission of the tender forms online.
- Due by 15 February 2019.
- Explore the website for;
 - [FISS Catch-Per-Unit-Effort \(CPUE\) data maps and plots](#)
 - [FISS Biologicals](#)
 - [FISS Performance](#)
 - [Data set downloads](#)

New for 2019 – request for tender process

- Sign up at Registration Desk
 - Meet with FISS Manager
 - Answer any questions
 - Guide through the tender submission process

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