



AT-SEA PROCESSORS ASSOCIATION

Partners for Healthy Fisheries



CP Chinook and Chum Salmon Bycatch Reduction Incentive Plan Agreement Annual Report 2018

June 2019

NPFMC

Primary IPA components

- Data gathering, monitoring, reporting, information sharing.
- A-season closed area and conditional B-season closed areas.
- Identification of bycatch avoidance areas, Chinook A & B seasons, chum B season only.
- Fishing area prohibitions for vessels with poor bycatch performance.
- Vessel Outlier Penalties
- Salmon Excluder Requirement



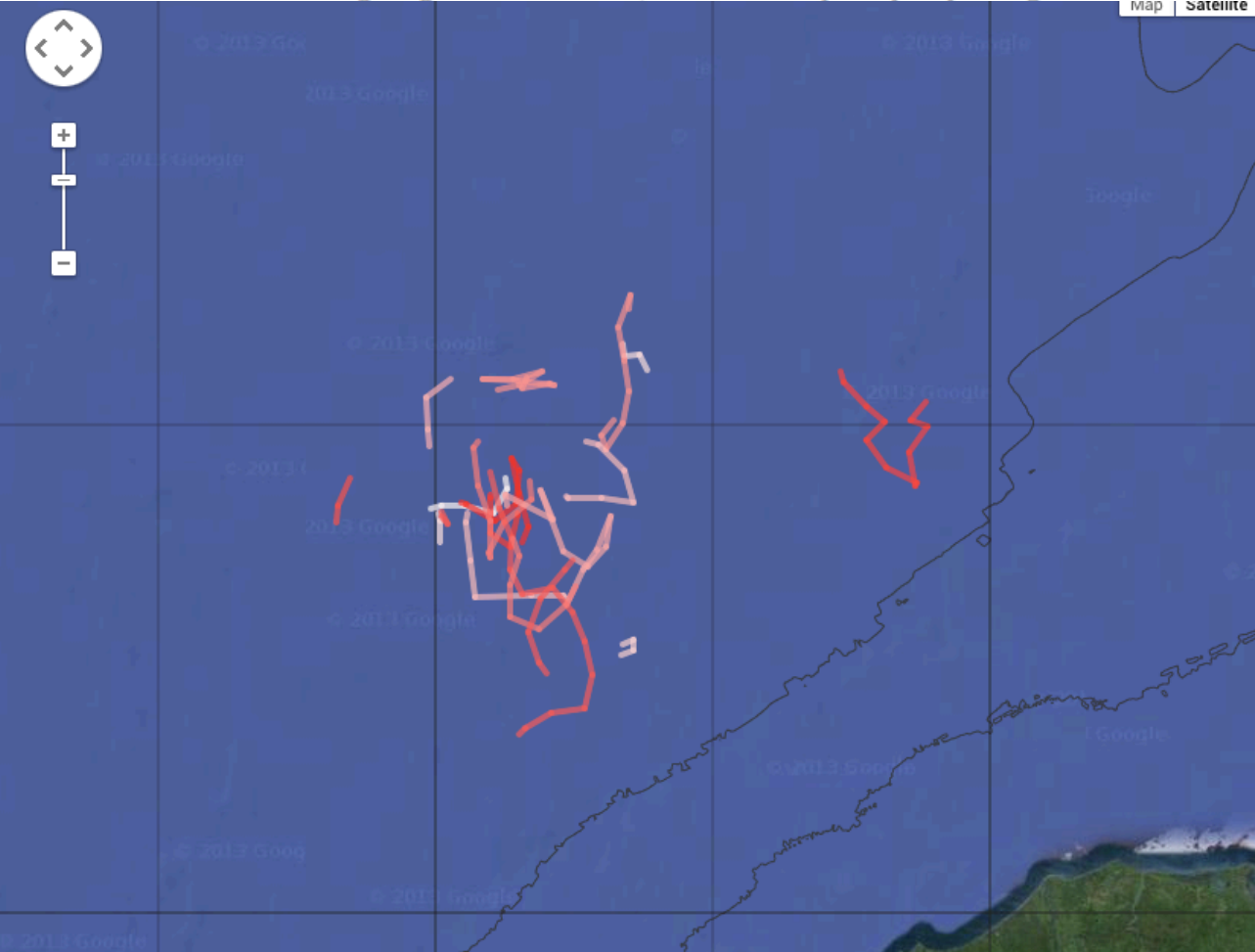
Data gathering, monitoring, reporting, information sharing

Karl Haflinger <karl@seastateinc.com>

March 24, 2014 10:25 AM

To: Alaska Ocean <aobridge@glacierfish.com>, American Dynasty <dynbridge@americanseafoods.com>

[Hide Details](#)



<input checked="" type="checkbox"/>	Haul 32 2/23/2014 - 21 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 31 2/23/2014 - 17 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 30 2/23/2014 - 11 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 29 2/23/2014 - 19 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 28 2/23/2014 - 11 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 27 2/23/2014 - 17 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 26 2/23/2014 - 14 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 25 2/23/2014 - 10 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 24 2/23/2014 - 24 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 23 2/23/2014 - 23 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 22 2/23/2014 - 18 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 21 2/23/2014 - 16 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 20 2/23/2014 - 13 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 19 2/23/2014 - 13 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 18 2/23/2014 - 19 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 17 2/23/2014 - 18 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 16 2/22/2014 - 19 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 15 2/22/2014 - 22 Chinook Salmon
<input checked="" type="checkbox"/>	Haul 14 2/22/2014 - 12 Chinook Salmon

Show activity between and

Show hauls with high total catch for:

- Chum Salmon (0 events > 20 total catch)
- Chinook Salmon (19 events > 10 total catch)

10	13	16	19	22	25
----	----	----	----	----	----

VMS track:
<https://acct.seastateinc.com/Seastate/a.aspx?n=1&a=15078&b=024460568&pp=1662>



Data gathering, monitoring, reporting, information sharing



Ph: (206)463-7370
 Fax: (206)463-7371
 Email: karl@seastateinc.com

P.O. Box 74, Vashon, WA 98070

March 29, 2018

Table 1: Catch and bycatch by sector

Sector	Pollock	Chinook	Rate	A season allocation	% caught
C/P	262,654	3,949	0.015	276,846	95%
Motherships	50,883	365	0.007	53,650	95%
Shoreside	203,865	2,934	0.014	268,248	76%
Total	517,402	7,248	0.014	598,745	86%

This week's calculated base rate is 0.008, so we are using the floor value of .035.

Just when you think they're all gone some more pop up. We have one bycatch avoidance area for next week with several boats required to keep out. Hopefully this will be the last of the season.

Regards, Karl

Table 2. Bycatch Avoidance Areas effective 1800 hrs, 3/30/18 to 1800 hrs 4/6/18 for vessels listed in Table 3 below.

Latitude		Longitude	
56	35	168	42
56	35	168	10
56	27	168	10
56	27	168	42

VESSEL PERFORMANCE MARKER --> 0.023

Table 3. Vessel tier status

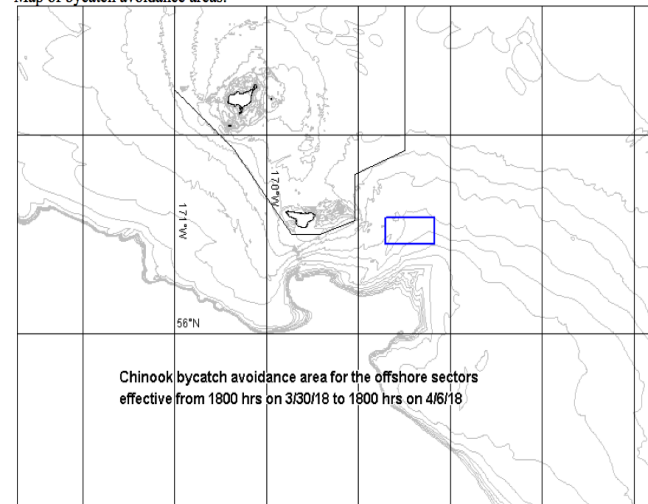
VesselName	2-week Vessel Bycatch Rate (n/t)	Vessel Cumulative (season) Bycatch Rate (n/t)	Subject to weekly closure?	Subject to extended closure?	Start observing closures	End observing closures
Alaska Ocean	0.000	0.009	No	No	NA	NA
American Dynasty	0.010	0.020	No	No	NA	NA

Arctic Fjord	0.018	0.014	No	No	NA	NA
Arctic Storm	0.007	0.010	No	No	NA	NA
Island Enterprise	0.060	0.021	Yes	No	3/30/18	4/6/18
Kodiak Enterprise	0.029	0.013	Yes	No	3/30/18	4/6/18
Northern Eagle	0.000	0.020	No	No	NA	NA
Northern Hawk	0.003	0.012	No	No	NA	NA
Northern Jaeger	0.010	0.011	No	No	NA	NA
Ocean Rover	0.003	0.027	No	No	NA	NA
Pacific Glacier	0.007	0.011	No	No	NA	NA
Seattle Enterprise	0.025	0.015	No	No	NA	NA
Starbound	0.011	0.014	No	No	NA	NA

Table 4. Bycatch rates by stat area (all sectors combined)

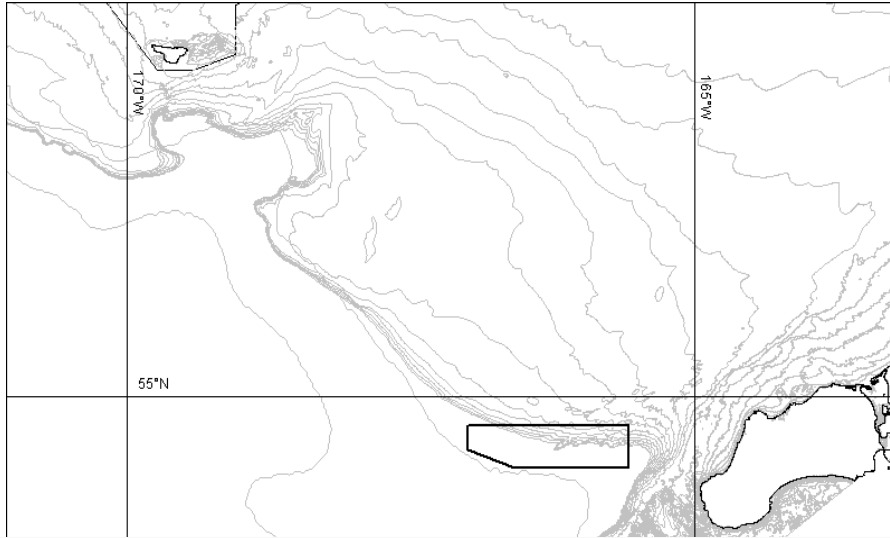
StatArea	Chinook Rate	StatArea	Chinook Rate
685630	0.061	645501	0.005
675630	0.028	635600	0.005
655600	0.009	645600	0.005
645530	0.006	635530	0.004
635504	0.006		

Map of bycatch avoidance areas:



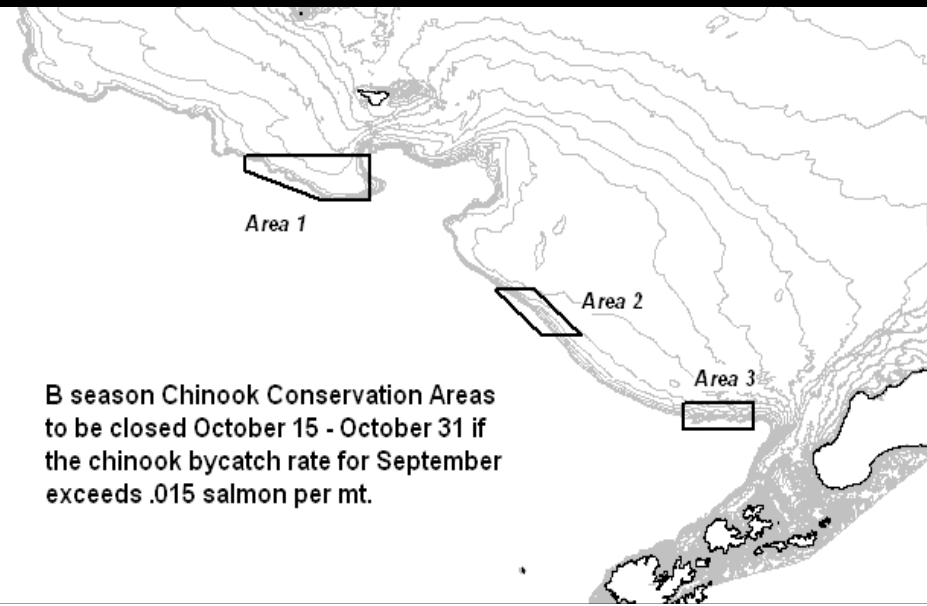
A-season Chinook Conservation Area

735 square mile area closed to all pollock fishing 100% of the time during A- season



B-season Chinook Conservation Areas

Areas totaling 1,295 square miles closed to CP pollock fishing Oct 15-Oct 31 if the Chinook bycatch rate for September exceeds 1.5 Chinook per 100 tons pollock.



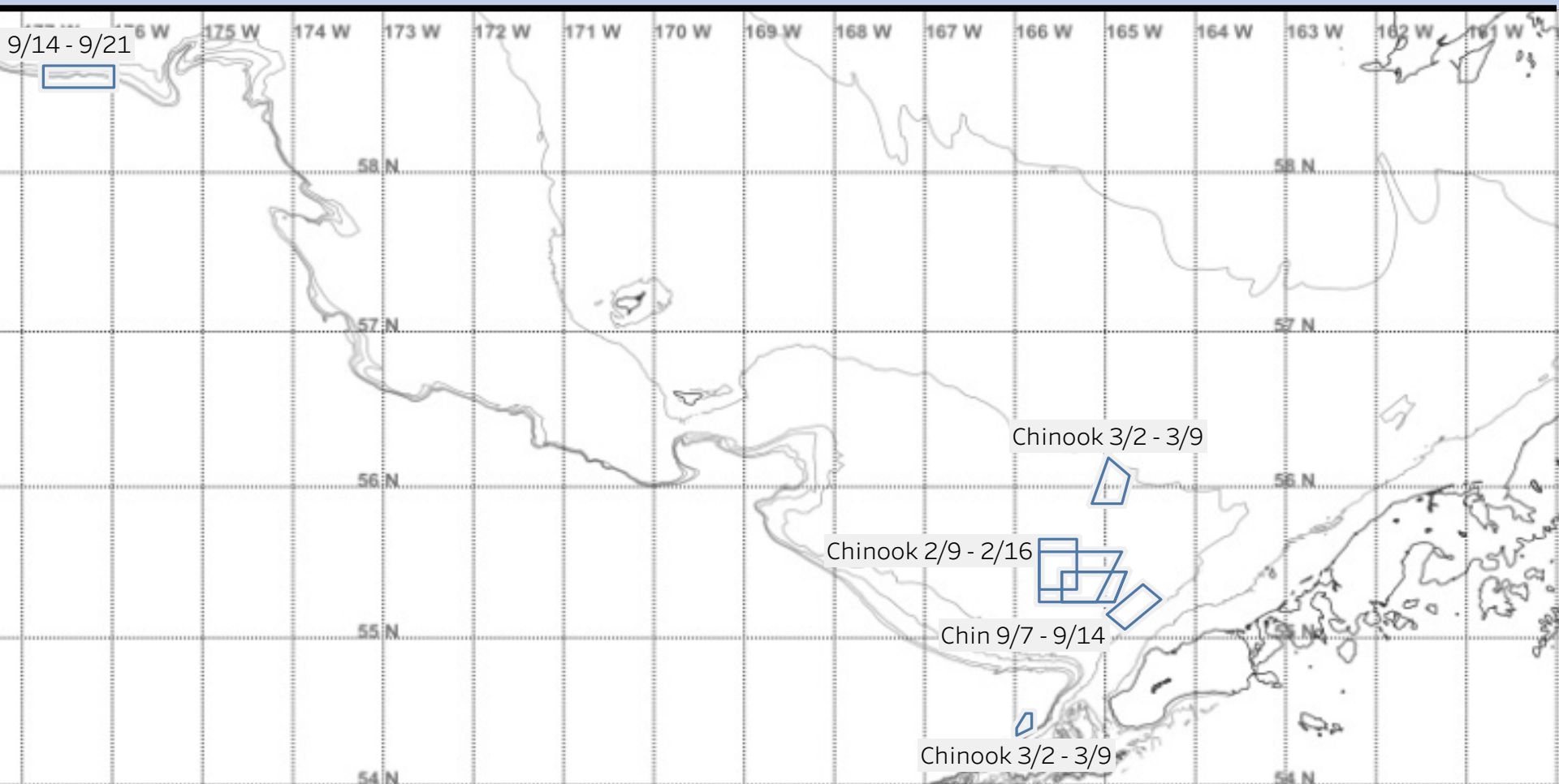
Chinook PSC and pollock catch

A-Season		B-Season	
Pollock (mt)	Chinook (n)	Pollock (mt)	Chinook (n)
275,810	4,344	340,208	1,617

- All IPA participants (PCC, HSCC, OP, CDQ)

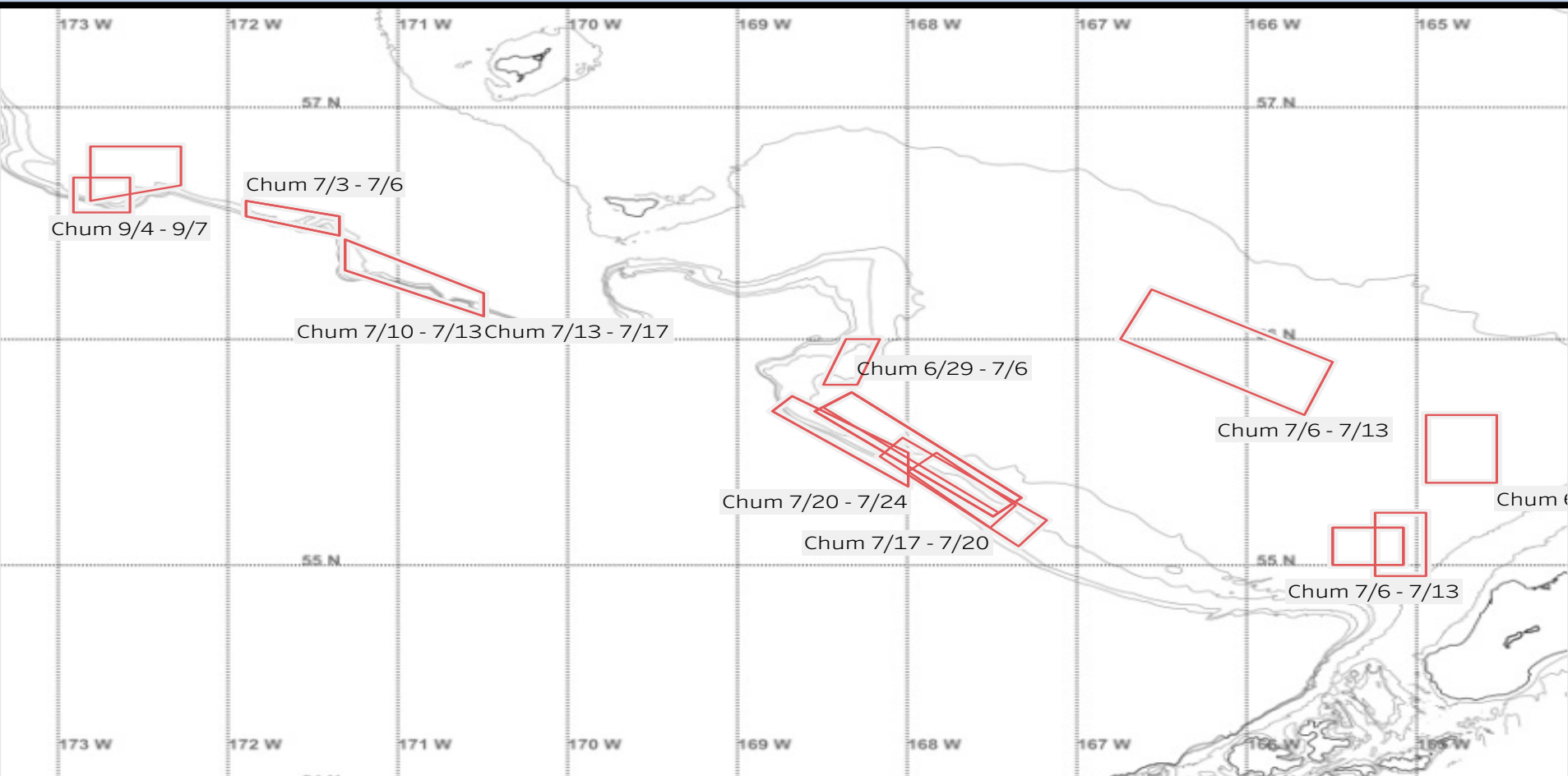


A-season “Rolling Hot Spot” Bycatch Avoidance Areas



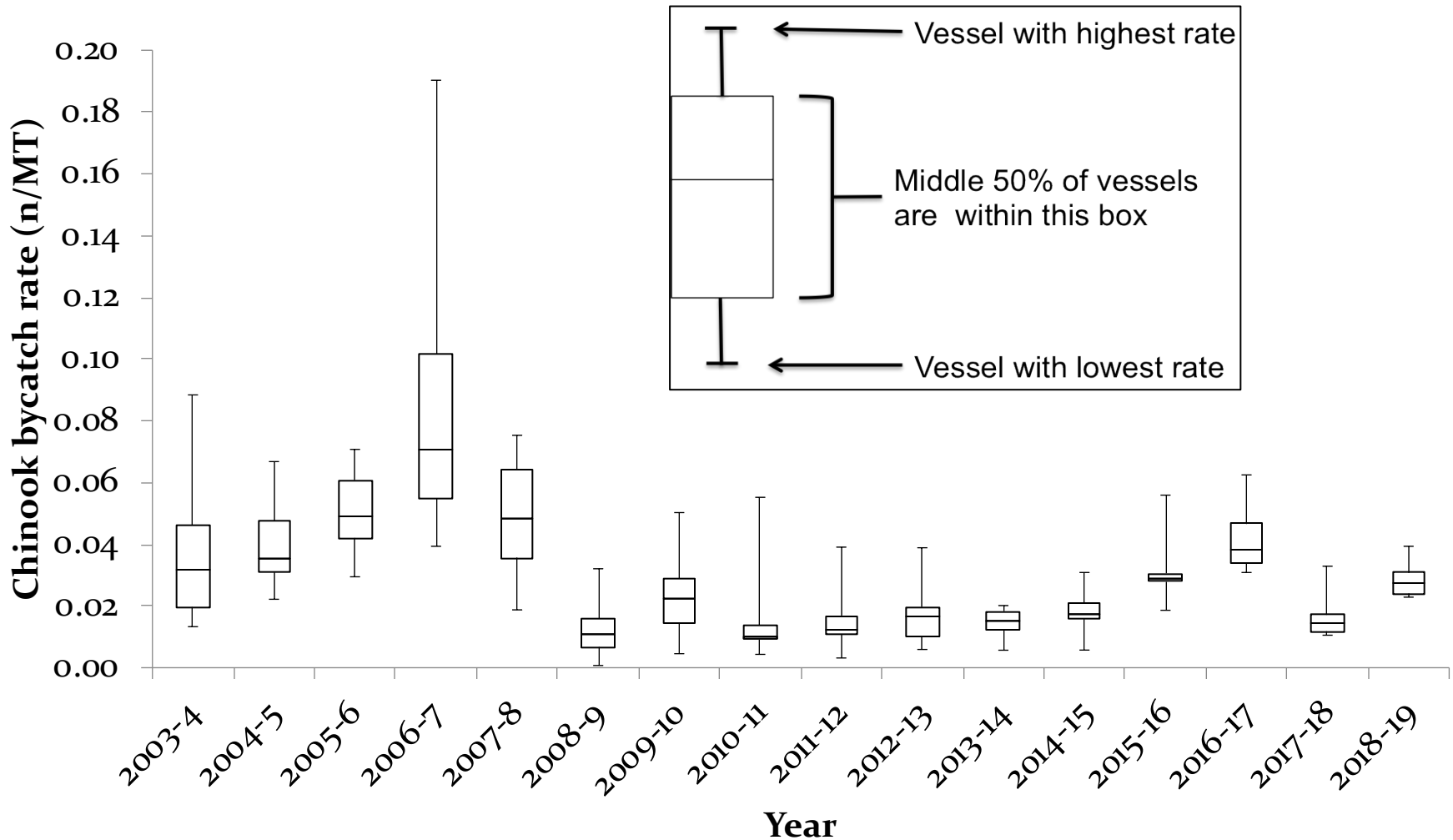
Week	2/01	2/08	2/15	2/22	3/1	3/08	3/15	3/22	3/29	4/05	9/06	9/13
Number of CPs excluded from BAAs	0	2	1	2	4	2	0	0	2	3	0	1

B-season “Rolling Hot Spot” Bycatch Avoidance Areas



Week	6/21	6/28	7/05	7/12	7/19	7/26	8/03	8/09	8/16	8/23	8/30	9/07	9/25
Number of CPs excluded from BAAs	0	8	7	10	7	5	1	1	0	0	0	0	1

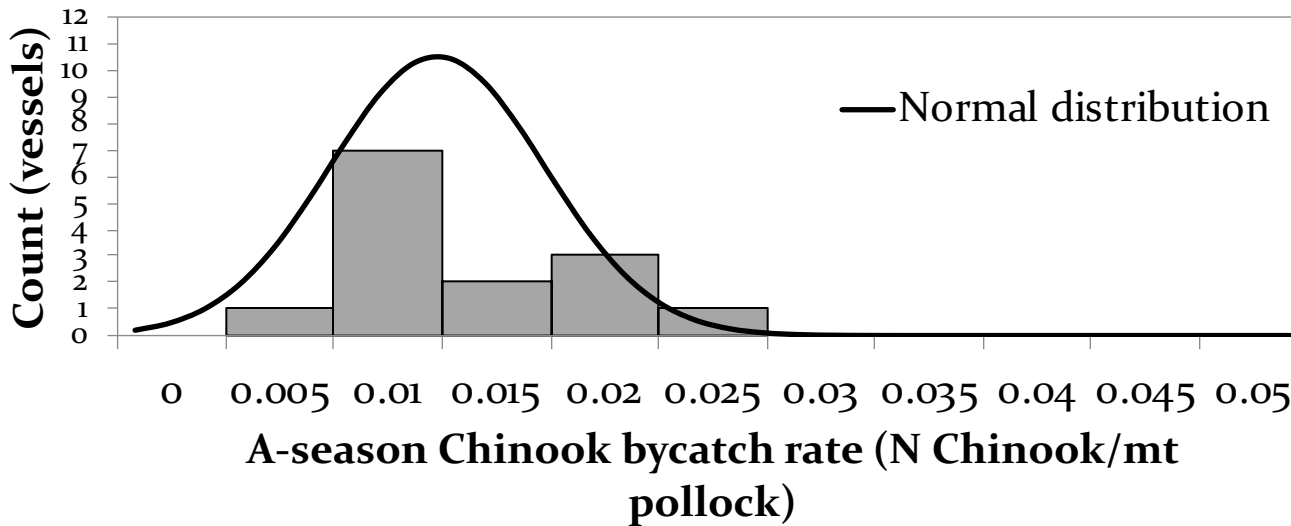
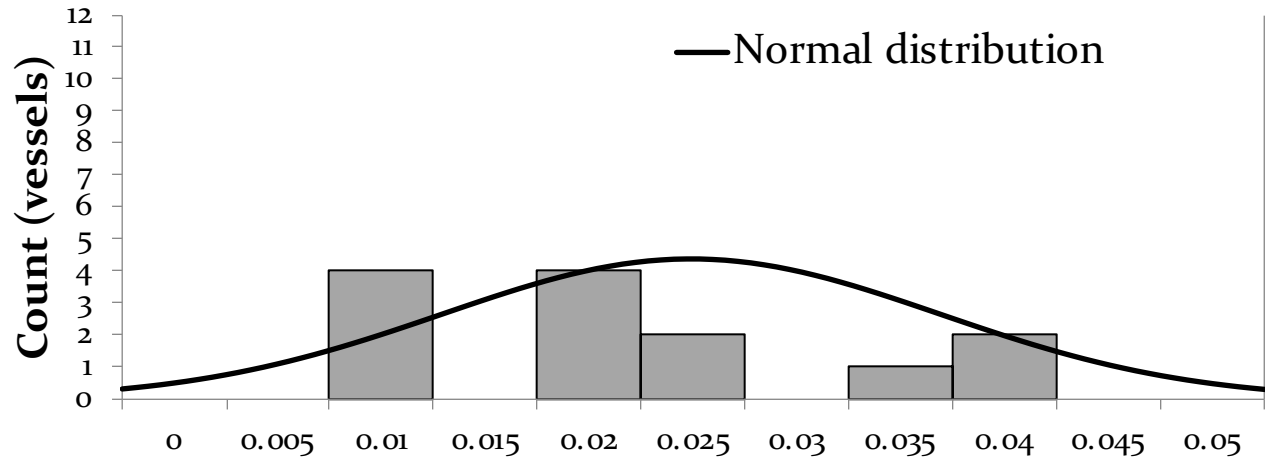
Effects of Incentive Plan Agreement



CP Vessel Chinook bycatch rate distribution by year for 1 Sept-1 March.



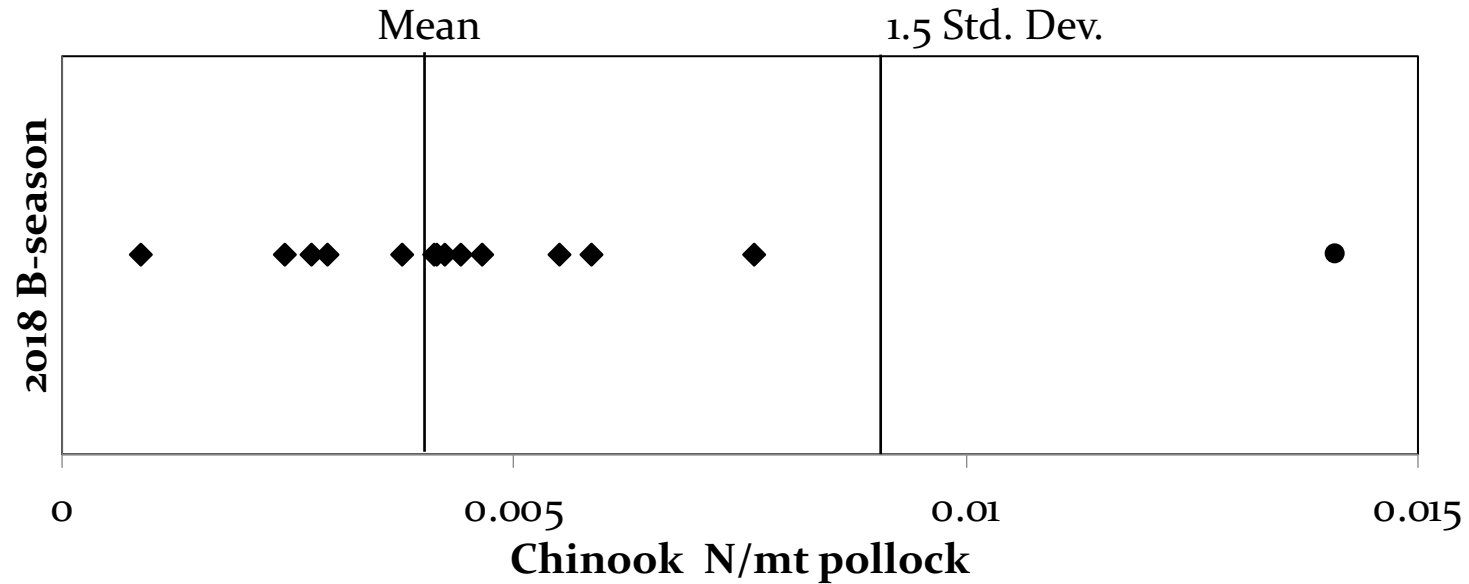
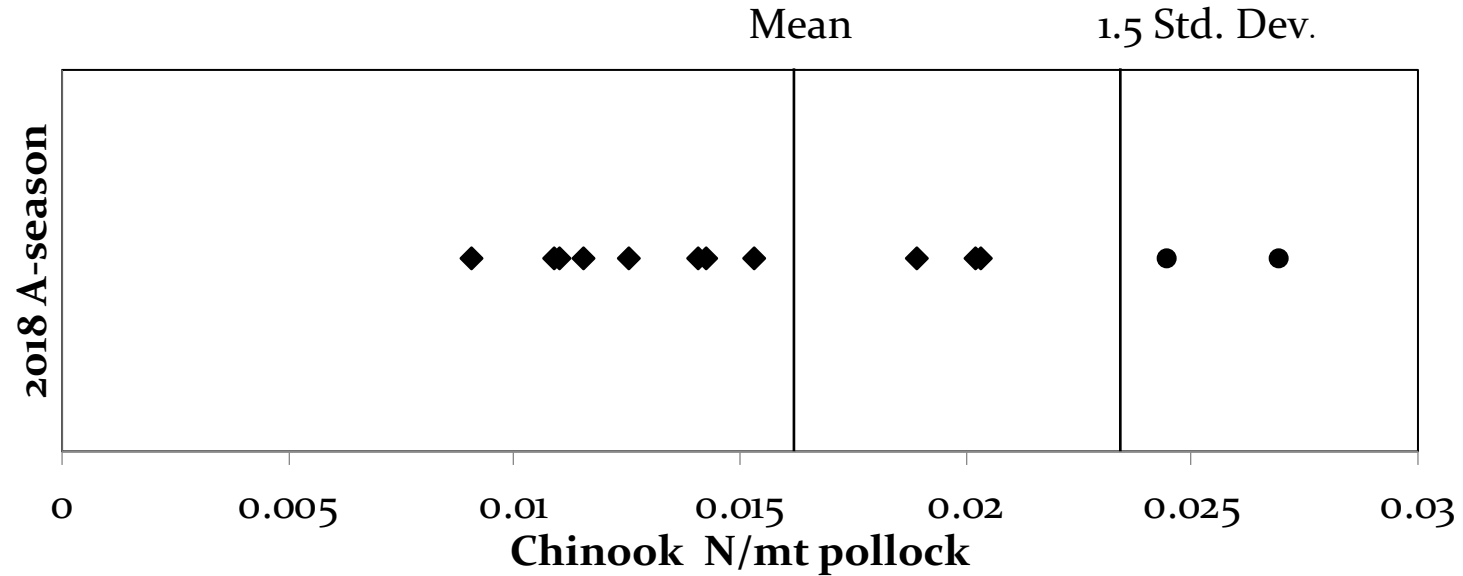
Effects of Incentive Plan Agreement



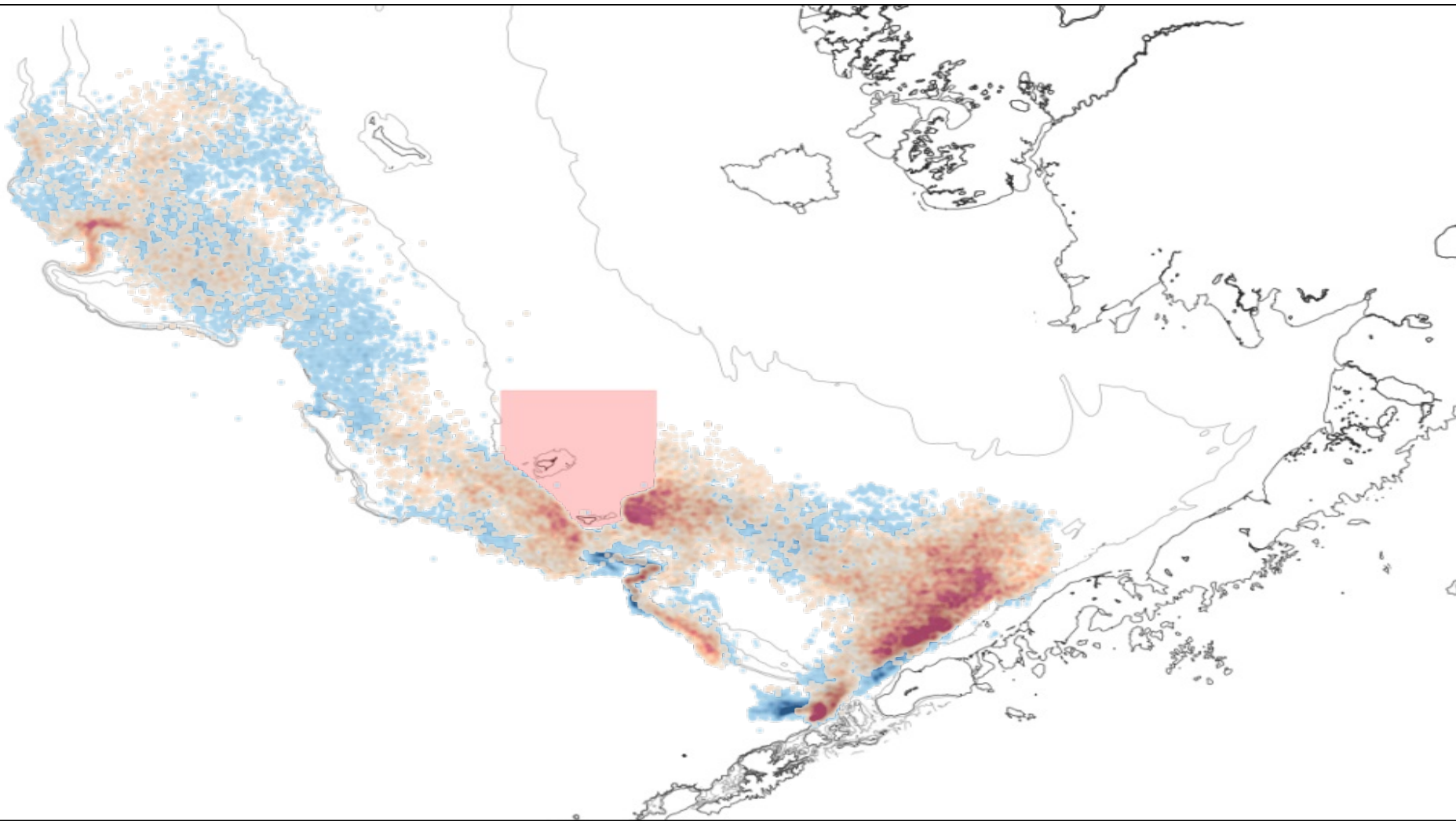
Upper panel: A-Season CP Vessel Chinook Bycatch Rate Frequency Distribution for 2010 with a variance pre-Amendment 91 of 0.012 and Lower panel: Distribution for 2018 with variance equal to 0.006.



Effects of Incentive Plan Agreement



Effects of Incentive Plan Agreement



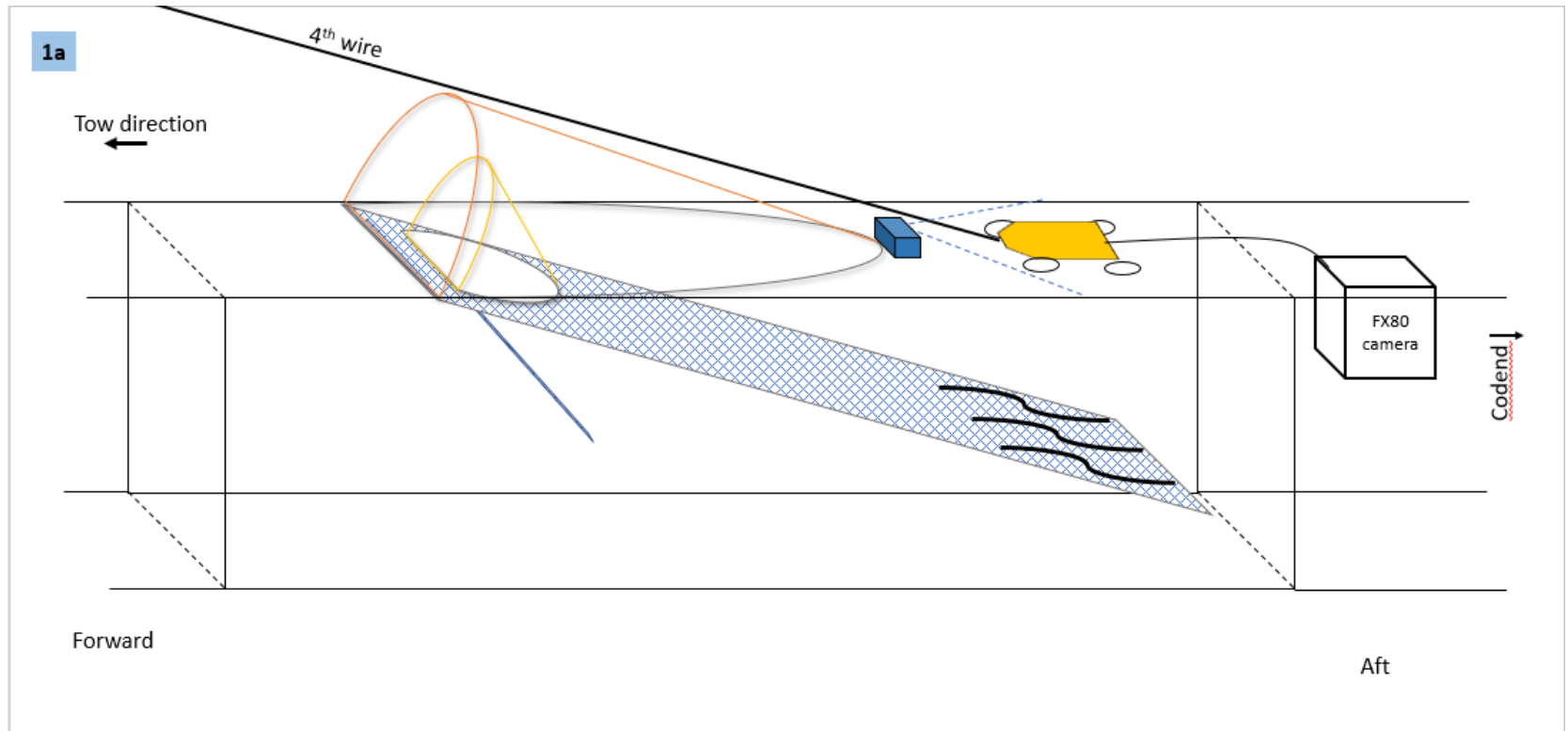
Ongoing salmon bycatch mitigation efforts

- EFP salmon excluder work in 2018, 2019, 2020 A-seasons
- Sexton Corp. underwater LED lights attract both chum and Chinook salmon in field experiments
- Simrad FX 80 live feed systems/escapement--Susie Zagorski field work
- Williamson and Associates deploy and retrieve camera purchase
- PCCRC research "Towards Shiplside Identification of Chum Salmon"

EXTERNAL COLLABORATIVE PROJECTS

- NMFS RACE Division testing new salmon excluder designs
- BREP Proposal "Reducing bycatch using real-time video and active release"

Winston “2-hole” salmon excluder with FX80 setup





Operation

Live Feed

Replay

Close

From 00:00:00 To 00:01:23

Export Video

Expo

REPLAY



Thank you—Questions?

