

# **Report to the North Pacific Fishery Management Council on the 2015 Bering Sea Pollock Mothership Salmon Savings Incentive Plan**

## **James Mize, IPA Representative**

This report is to the North Pacific Fishery Management Council and covers the Bering Sea and Aleutian Islands Management Area (BSAI) Pollock Mothership Salmon Savings Incentive Plan Agreement (“MSSIP” or “Agreement”).

### **Amendment 91 Reporting Requirements**

Amendment 91 to the Fishery Management Plan for Groundfish of the Bering Sea and Aleutian Islands Fishery combines a hard cap on the amount of Chinook salmon that may be caught incidentally with an incentive plan agreement (“IPA”) and a Performance Standard designed to minimize bycatch to the extent practicable in all years and prevent bycatch from reaching the limit in most years. The regulations implementing Amendment 91 require participants engaged in an IPA to submit to the Council an annual report including:

- (1) A comprehensive description of the incentive measures in effect in the previous year;
- (2) A description of how these incentive measures affected individual vessels;
- (3) An evaluation of whether incentive measures were effective in achieving salmon savings beyond levels that would have been achieved in absence of the measures; and
- (4) A description of any amendments to the terms of the IPA that were approved by NMFS since the last annual report and the reasons that the amendments to the IPA were made.

Each is addressed below.

## **Description of MSSIP Incentive Measures**

The MSSIP contains two key incentive measures: the ability to earn Salmon Savings Credits for use in later years, and the Rolling Hotspot Closure (“RHC”) program that restricts access to fishing grounds where bycatch is unacceptably high.

Each operator of a Vessel participating in the MSSIP is motivated to avoid Chinook salmon as a means to earn Salmon Savings Credits. Credits give a Vessel the ability to exceed the Annual Threshold in years when encounter rates are particularly high and bycatch amounts, even after best avoidance efforts are taken, are higher than the Amendment 91 Performance Standard. These credits are only earned, however, by reducing bycatch below the Annual Threshold in other years. In years of high salmon encounters, credits offer a Vessel the ability to harvest more of its annual pollock allocation than it otherwise could due to the Annual Threshold, and so serve as “insurance” against risks of closure due to high encounters of salmon bycatch. Each Vessel’s desire to earn these credits for insurance is the primary incentive in the MSSIP.

The RHC program establishes the incentive to maintain low bycatch rates in order to have access to all productive fishing grounds. Fleets achieving relatively low Chinook salmon bycatch rates are not constrained by hotspot closures, while Fleets with average or higher rates are. The RHC program creates the incentive to find ways and means to harvest pollock while avoiding Chinook salmon bycatch at all times. The RHC program insures that Fleets failing to meet that standard are excluded from the fishing areas with the highest bycatch rates.

The RHC program provides for the designation of Bycatch Avoidance Areas closed to fishing when the rate of Chinook salmon bycatch in that area (the “Area Rate”) exceeds the Base Rate. The Base Rate is an index of relative Chinook salmon abundance defined as the ratio of the three week rolling sum of total Chinook salmon taken incidentally in the Fishery to the three week rolling sum of the total number of metric tons of pollock caught in the Fishery. The Base Rate is updated weekly, with rules in the first three weeks of the “A” season or “B” season to determine initial Base Rates.

## **Effect of Incentive Measures on Individual Vessels**

Mothership fishing operations are uniquely dependent upon individual fishermen’s ability to work cooperatively. Under the MSSIP, incentives to avoid Chinook salmon bycatch at all rates of encounter must not only be at the individual Vessel level but also at the Fleet level such that individual incentives are carefully balanced with the need to maintain a cohesive and efficient Fleet. Since many decisions related to salmon avoidance strategies must be made collectively by the Vessels and processor working together in a Fleet (or two processors in a “Pooled Fleet”), it is at that level where the incentive to avoid Chinook salmon at all rates of encounter is most appropriately directed.

Under the MSSIP, each Fleet manages a share of the Mothership Sector Annual Threshold equal to that Fleet’s percentage of the mothership pollock allocation. In 2015, three Fleets participated in the MSSIP, consisting of nineteen Vessels. Two of these Fleets participated as a Pooled Fleet, where the Fleets’ shares of salmon bycatch were aggregated. Each Fleet avoided Chinook salmon bycatch such that total incidental catch remained significantly below the

Fleet's share of the Annual Threshold, thus generating Salmon Savings Credits. At the end of the season, the total Salmon Savings Credits generated by each Fleet or Pooled Fleet was disaggregated and distributed to each Vessel in proportion to the Vessel's percentage of contribution to the Fleet's pollock allocation. Accordingly, Vessels participating in a Fleet with lower Chinook salmon bycatch generated more Salmon Savings Credits than Vessels participating in a Fleet with higher bycatch.

During the course of the 2015 fishery, the MSSIP and RHC program implemented a total of five fishing closure areas in order to avoid bycatch of Chinook salmon. Under the terms of the Agreement, the "Chinook Salmon Conservation Area" (approximately 735 square miles) remained closed to Vessels participating in the MSSIP during the entire 2015 "A" season. In addition, four Bycatch Avoidance Areas were identified and closed to mothership Fleets with higher bycatch in the RHC program during the 2015 "A" season. During the "B" season, no Bycatch Avoidance Areas were closed to mothership Fleets in the RHC program. Maps and effective dates of the Chinook Salmon Conservation Area closure and the Bycatch Avoidance Area closures are shown in Appendix 1.

## **Evaluation of Effectiveness**

In 2015, the three Fleets participating in the mothership sector collectively avoided incidental catch of Chinook salmon such that the total bycatch was approximately 34% of the mothership sector's portion of the Base Cap. Total Chinook salmon bycatch was 1,248 salmon, 2,459 below the Annual Threshold. As a result, the participants in the MSSIP in the 2015 fishery generated a total of 1,073 Salmon Savings Credits. It is not possible to assess how many salmon would have been incidentally caught in the mothership sector in the absence of a salmon savings IPA; however, if there were no salmon savings IPA, Vessels would not have had the incentive to avoid Chinook salmon bycatch in order to earn Salmon Savings Credits.

Vessels also saved Chinook salmon by avoiding areas of higher Chinook salmon encounters in order to avoid triggering the closure of Bycatch Avoidance Areas under the RHC. It is not possible to assess precisely how many Chinook salmon would have been incidentally caught in the mothership sector in the absence of this RHC program; however, if there were no RHC program, Vessels would not have had the incentive to avoid Chinook salmon bycatch in order to avoid being restricted from fishing in Bycatch Avoidance Areas designated under the RHC program. Generally, areas closed by the RHC program result in lower bycatch rates in the weeks following the closures, and if Vessels encounter high bycatch rates when relocating to new fishing grounds, additional closures are designated, which tends to reduce Chinook salmon bycatch overall.

As an additional measure of effectiveness, the MSSIP requires that on an annual basis the participants engage knowledgeable and competent third-parties to conduct compliance audits of the MSSIP rules and the RHC program. Audit results are attached at Appendix 2.

## **Amendments to IPA Approved by NMFS**

No Amendments were made to this IPA effective during the 2015 reporting period.

## **Additional Reporting Requirements**

In a final rule published February 3, 2012, NMFS published additional reporting requirements to be included in annual IPA reports, including information about sub-allocations of Chinook salmon PSC amounts and information regarding any in-season transfers of Chinook salmon PSC. Specific information to be included regarding sub-allocations include the number of Chinook salmon PSC and amount of pollock (mt) at the start of each fishing season allocated to participating Vessels, and the number of Chinook salmon PSC and amount of pollock (mt) caught at the end of each season. With regard to in-season transfers of Chinook salmon PSC, the final rule requires reporting of transfers between entities and transfers among vessels in the IPA. For each, the specific information to be reported includes the date of transfer; name of transferor and transferee; number of Chinook salmon PSC transferred; and amount of pollock (mt) transferred.

### **Sub-allocations of Chinook Salmon PSC**

The MSSIP provided for individual vessel sub-allocations in proportion to the individual vessels' percentages of pollock under the terms of the MFC. These percentages are detailed in Table 2, grouped by Fleet within which the individual vessels participated.

### **Season Totals**

The number of Chinook salmon PSC and amount of pollock (in metric tons) caught at the end of each season are detailed in Table 3, by Fleet (pollock amounts differ from Table 2 due to in-season adjustments to the Bering Sea DFA by NMFS).

### **In-season Transfers of Chinook Salmon PSC**

In the 2015 MSSIP, no in-season Transfer of Chinook salmon PSC or pollock occurred among AFA cooperatives, entities eligible to receive Chinook salmon PSC allocations, or CDQ groups. No Transfers occurred among Vessels participating in the MSSIP during the 2015 pollock fishery. No Fleet to Fleet Paired Transfers (Transfers of pollock and corresponding Chinook salmon PSC) occurred during 2015.

**Table 2 - Sub-Allocations of Chinook Salmon PSC and Pollock Amounts, By Vessel, Start 2015**

Vessel	Co-op %	2015 Base Cap	2015 Initial Pollock Quota
Aleutian Challenger	4.93%	182.607	5,707.76
Alyeska	2.27%	84.223	2,628.12
American Beauty	6.00%	222.420	6,946.56
California Horizon	3.79%	140.347	4,387.91
Margaret Lyn	5.64%	209.186	6,529.77
Mar-Gun	6.25%	231.725	7,236.00
Mark 1	6.25%	231.725	7,236.00
Misty Dawn	3.57%	132.303	4,133.20
Morning Star	3.60%	133.489	4,167.94
Nordic Fury	6.18%	228.981	7,154.96
Ocean Leader	6.00%	222.42	6,946.56
Oceanic	7.04%	260.899	8,150.63
Pacific Challenger	9.67%	358.504	11,195.54
Pacific Fury	5.89%	218.305	6,819.21
Papado II	2.95%	109.468	3,415.39
Traveler	4.27%	158.363	4,943.64
Vanguard	5.35%	198.325	6,194.02
Vesteraalen	6.20%	229.871	7,178.11
Western Dawn	4.15%	153.841	4,804.70
<b>MFC Total</b>	<b>100%</b>	<b>3,707</b>	<b>115,776.00</b>

**Table 3 – Number of Chinook Salmon PSC and Pollock Amounts Caught, by Season, 2015**

Season	Fleet/Pooled Fleet	Chinook Salmon (#)	Pollock (mt)
<b>A season</b>	Excellence / Ocean Phoenix	465	29,801
	Golden Alaska	224	15,452
	<b>Total MSSIP</b>	<b>689</b>	<b>45,253</b>
<b>B season</b>	Excellence / Ocean Phoenix	395	45,462
	Golden Alaska	164	23,679
	<b>Total MSSIP</b>	<b>559</b>	<b>69,141</b>

Submitted by:

James Mize, IPA Representative

c/o Premier Pacific Seafoods, Inc.  
 333 1st Avenue West  
 Seattle, WA 98119  
 (206) 286-8584

## Appendix 1 – 2015 Area Closures Under the MSSIP and RHC Program

**Figure A1-1. Chinook Conservation Area closure, effective entire A season.**

Map of closure area

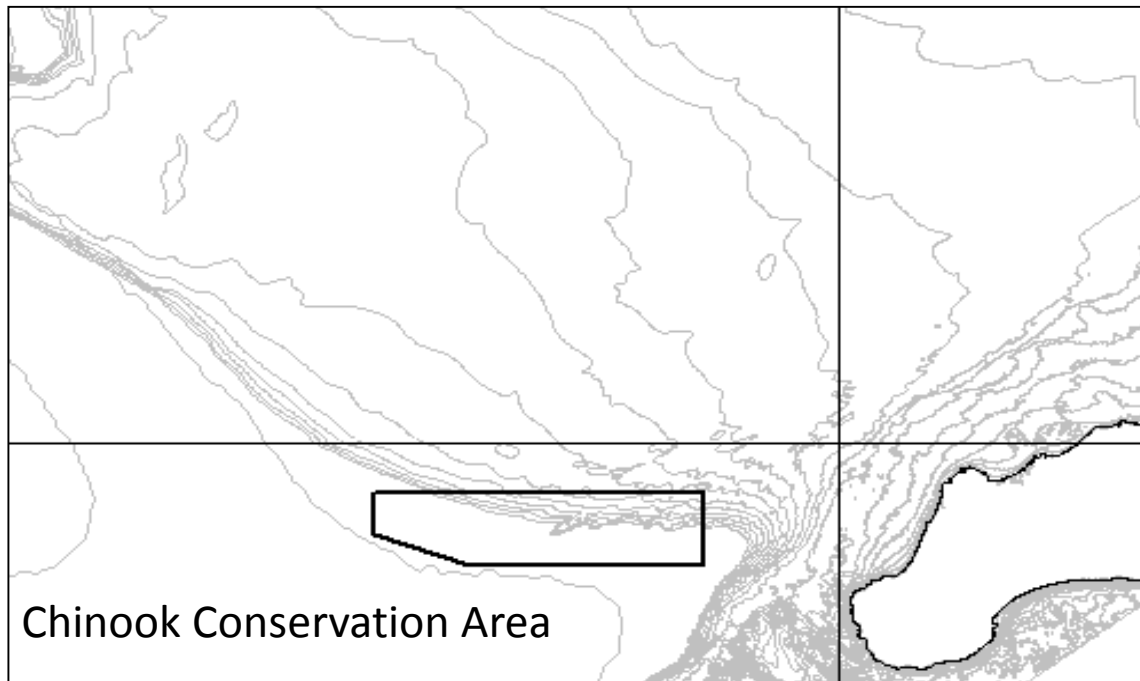


Figure A1-2. A season Bycatch Avoidance Area closures, effective 1/30/2015 to 2/6/2015.

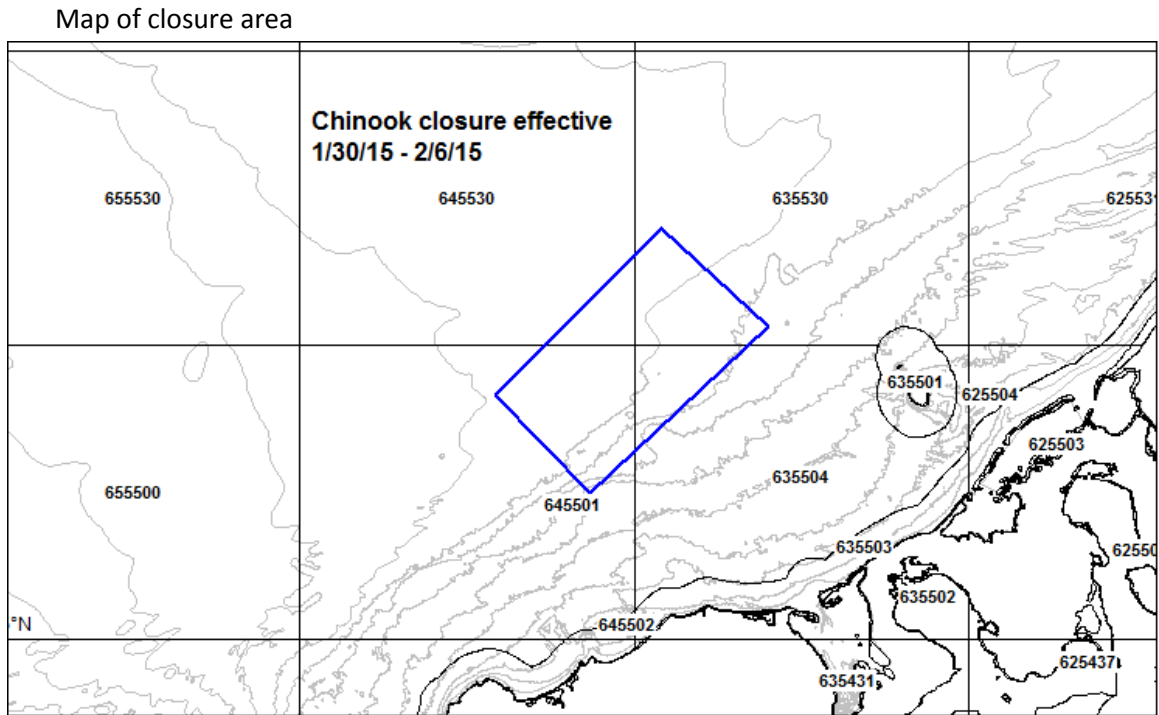


Figure A1-3. A season Bycatch Avoidance Area closures, effective 2/27/2015 to 3/6/2015.

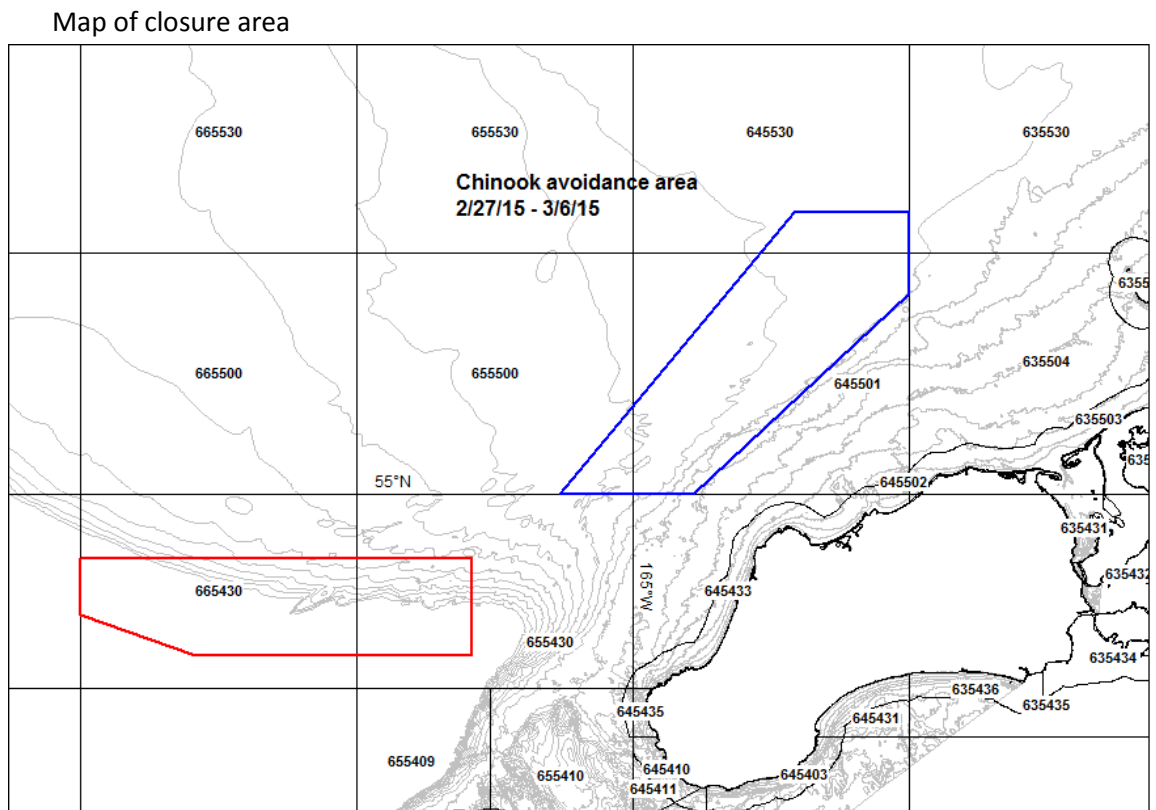


Figure A1-4. A season Bycatch Avoidance Area closures, effective 3/6/2015 to 3/13/2015.

Maps of closure areas

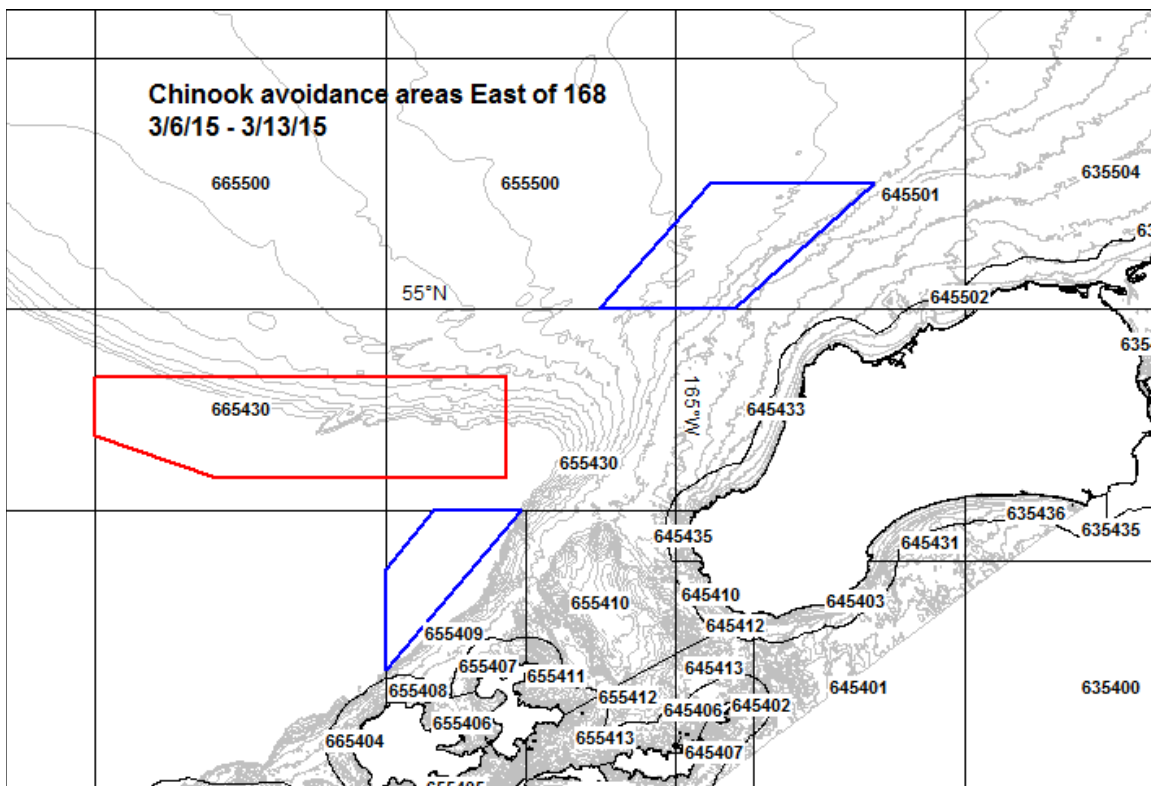
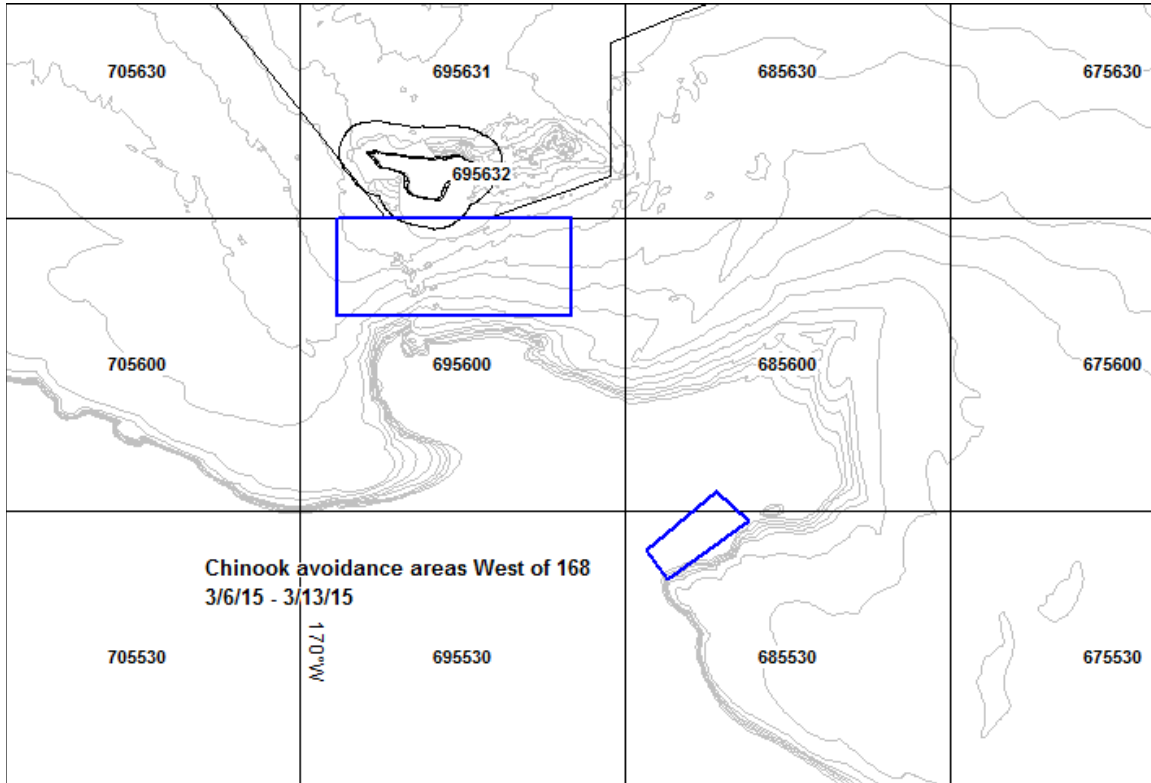
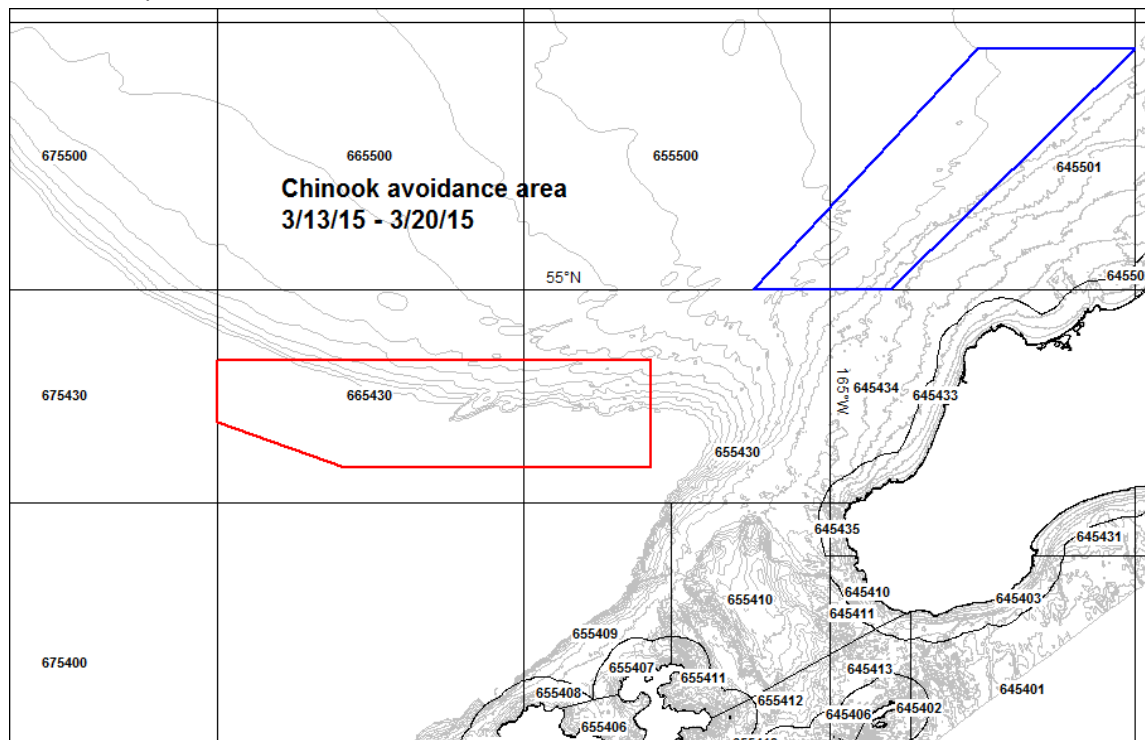




Figure A1-5. A season Bycatch Avoidance Area closures, effective 3/13/2015 to 3/20/2015.

Map of closure area



## **Appendix 2 – Third-Party Audit of RHC Program and MSSIP Rules**

[Attached]