Fishery Management Plan for the Aleutian Islands Subdistrict State-Waters and Parallel Pacific Cod Seasons, 2018

by

Asia Beder

February 2018

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

Weights and measures (metric)		General		Mathematics, statistics	
centimeter	cm	Alaska Administrative		all standard mathematical	
deciliter	dL	Code	AAC	signs, symbols and	
gram	g	all commonly accepted		abbreviations	
hectare	ha	abbreviations	e.g., Mr., Mrs.,	alternate hypothesis	H _A
kilogram	kg		AM, PM, etc.	base of natural logarithm	е
kilometer	km	all commonly accepted		catch per unit effort	CPUE
liter	L	professional titles	e.g., Dr., Ph.D.,	coefficient of variation	CV
meter	m		R.N., etc.	common test statistics	(F, t, χ^2 , etc.)
milliliter	mL	at	@	confidence interval	CI
millimeter	mm	compass directions:		correlation coefficient	
		east	E	(multiple)	R
Weights and measures (English)		north	Ν	correlation coefficient	
cubic feet per second	ft ³ /s	south	S	(simple)	r
foot	ft	west	W	covariance	cov
gallon	gal	copyright	©	degree (angular)	0
inch	in	corporate suffixes:		degrees of freedom	df
mile	mi	Company	Co.	expected value	Ε
nautical mile	nmi	Corporation	Corp.	greater than	>
ounce	oz	Incorporated	Inc.	greater than or equal to	\geq
pound	lb	Limited	Ltd.	harvest per unit effort	HPUE
quart	qt	District of Columbia	D.C.	less than	<
yard	yd	et alii (and others)	et al.	less than or equal to	\leq
-	•	et cetera (and so forth)	etc.	logarithm (natural)	ln
Time and temperature		exempli gratia		logarithm (base 10)	log
day	d	(for example)	e.g.	logarithm (specify base)	\log_{2} , etc.
degrees Celsius	°C	Federal Information		minute (angular)	,
degrees Fahrenheit	°F	Code	FIC	not significant	NS
degrees kelvin	Κ	id est (that is)	i.e.	null hypothesis	Ho
hour	h	latitude or longitude	lat or long	percent	%
minute	min	monetary symbols		probability	Р
second	S	(U.S.)	\$,¢	probability of a type I error	
		months (tables and		(rejection of the null	
Physics and chemistry		figures): first three		hypothesis when true)	α
all atomic symbols		letters	Jan,,Dec	probability of a type II error	
alternating current	AC	registered trademark	®	(acceptance of the null	
ampere	А	trademark	ТМ	hypothesis when false)	β
calorie	cal	United States		second (angular)	"
direct current	DC	(adjective)	U.S.	standard deviation	SD
hertz	Hz	United States of		standard error	SE
horsepower	hp	America (noun)	USA	variance	
hydrogen ion activity (negative log of)	pН	U.S.C.	United States Code	population sample	Var var
parts per million	ppm	U.S. state	use two-letter	-	
parts per thousand	ppt, ‰		abbreviations (e.g., AK, WA)		
volts	⁹⁰⁰ V				
watts	v W				
watts	vv				

FISHERY MANAGEMENT REPORT NO. 18-04

FISHERY MANAGEMENT PLAN FOR THE ALEUTIAN ISLANDS SUBDISTRICT STATE-WATERS AND PARALLEL PACIFIC COD SEASONS, 2018

by

Asia Beder

Alaska Department of Fish and Game Division of Sport Fish, Research and Technical Services 333 Raspberry Road, Anchorage, Alaska, 99518-1565

February 2018

The Fishery Management Reports series was established in 1989 by the Division of Sport Fish for the publication of an overview of management activities and goals in a specific geographic area, and became a joint divisional series in 2004 with the Division of Commercial Fisheries. Fishery Management Reports are intended for fishery and other technical professionals, as well as lay persons. Fishery Management Reports are available through the Alaska State Library and on the Internet: <u>http://www.adfg.alaska.gov/sf/publications/</u>. This publication has undergone regional peer review.

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ABSTRACT

The Aleutian Islands Subdistrict state-waters Pacific cod *Gadus macrocephalus* season, managed by the Alaska Department of Fish and Game (ADF&G), is prosecuted in state waters of the Aleutian Islands west of 170° W long. The 2018 guideline harvest level (GHL) for the Aleutian Islands Subdistrict state-waters season is 27% of the estimated 2018 Pacific cod acceptable biological catch for the federal Aleutian Islands Subarea. Legal gear for the state-waters season includes trawl, pot, longline, mechanical jig, and hand troll gear.

ADF&G also manages a parallel Pacific cod season in the Aleutian Islands Subdistrict concurrent with adjacent federal Pacific cod seasons, except where a state-waters Pacific cod season is open. Harvest in the parallel season accrues toward the federal Pacific cod total allowable catch.

Key words: Pacific cod, *Gadus macrocephalus*, Aleutian Islands Subdistrict, guideline harvest level, state-waters season, parallel season, Bering Sea/Aleutian Islands

INTRODUCTION

AREA DESCRIPTION

The State of Alaska's Bering Sea-Aleutian Islands (BSAI) groundfish management area consists of state waters (0–3 nmi) in the Bering Sea and that portion of the North Pacific Ocean adjacent to the Aleutian Islands west of 170° W long.

The Aleutian Islands District (AID) of the BSAI consists of all state waters of Alaska south of the latitude of Cape Sarichef (54° 36′ N lat). The Aleutian Islands Subdistrict (AIS) consists of state-waters in the AID west of 170° W long. The Adak Section of the AIS consists of state-waters between 175° W long and 178° W long (Figure 1).

OVERVIEW

Two distinct Pacific cod *Gadus macrocephalus* seasons occur within state waters of the AIS: the parallel Pacific cod season and the state-waters Pacific cod season. The parallel season is prosecuted concurrent with the adjacent federal Pacific cod season in the exclusive economic zone (EEZ; 3–200 nmi). The parallel season is managed by Alaska Department of Fish and Game (ADF&G) by adopting most National Marine Fisheries Service (NMFS) regulations and inseason management actions. The state-waters Pacific cod season is independent of the parallel season and is managed exclusively by ADF&G under the AIS Pacific cod management plan (5 AAC 28.647). The purpose of this document is to provide specific fishery management information for the 2018 AIS state-waters and parallel Pacific cod seasons.

STELLER SEA LION CLOSURES DURING PARALLEL SEASON

During the AIS parallel Pacific cod season outside of the Adak Section (east of 175° W long, and west of 178° W long), ADF&G adopts federal Steller sea lion *Eumetopias jubatus* protection measures for Pacific cod located in Tables 5 and 12 of 50 CFR part 679, available on the NMFS website at https://alaskafisheries.noaa.gov/fisheries-679regs.

Steller sea lion protection measures inside the Adak Section (between 175° W long and 178° W long) are located in Table 5 of 50 CFR part 679 (69 FR 75865, December 20, 2004) except that the Steller sea lion site at Kanaga/Ship Rock is only closed within 3 nautical miles (5 AAC 28.087(b)(3)). Additional information on sea lion closures can be found on the NMFS website at https://alaskafisheries.noaa.gov/fisheries/sslpm

STELLER SEA LION CLOSURES DURING STATE-WATERS SEASON

During the 2018 AIS state-waters Pacific cod season, current Steller sea lion closures will be in effect, including no-fishing zones, no-transit areas, and the Seguam foraging area except that the Steller sea lion site at Kanaga/Ship Rock is only closed within 3 nautical miles (5 AAC 28.647(g)(1),(2),and (3)). Descriptions of closures in effect during a state-waters season and their coordinates are located in Tables 5 and 12 of 50 CFR part 679 posted on the NMFS website at <u>https://alaskafisheries.noaa.gov/sites/default/files/tab5.pdf</u> and <u>https://alaskafisheries.noaa.gov/sites/default/files/tab12.pdf</u>.

OTHER CLOSURES DURING PARALLEL AND STATE-WATERS SEASONS

The Aleutian Islands Coral Habitat Protection Areas (coral gardens) and the Aleutian Islands Habitat Conservation Area are in effect in state waters of the AIS (5 AAC 28.647(g)(4) and 5 AAC 39.167(a)(1) and (2); Figures 2 and 3). The coral gardens consist of 6 separate federal protection areas that overlap with state waters. Coordinates for coral gardens are found in Appendix B. Each coral garden is closed to commercial fishing with nonpelagic trawl, scallop dredge, dinglebar troll, pot, and longline gear. The Aleutian Islands Habitat Conservation Area applies only to nonpelagic trawl gear. A description of the Aleutian Islands Habitat Conservation Area is located in Table 24 of 50 CFR part 679 and posted on the NMFS website: https://alaskafisheries.noaa.gov/sites/default/files/679b22.pdf.

BYCATCH DURING PARALLEL AND STATE-WATERS SEASONS

During parallel and state-waters Pacific cod seasons, ADF&G adopts NMFS maximum retainable bycatch allowances applicable in the adjacent EEZ for species not actively managed by the State of Alaska. For groundfish species without a specified bycatch limit, up to 20% by weight of the Pacific cod onboard the vessel may be retained. Black rockfish *Sebastes melanops* and dark rockfish *S. ciliatus* may only be retained up to 20% by weight of the Pacific cod onboard the vessel. Sablefish *Anoplopoma fimbria* bycatch may be retained up to 1% by weight of the Pacific cod onboard the vessel while the directed state-waters sablefish season is open. BSAI retainable bycatch percentages are located in Table 11 of 50 CFR part 679, updated April 6, 2015, and are available on the NMFS website: https://alaskafisheries.noaa.gov/sites/default/files/tab11.pdf.

PARALLEL PACIFIC COD SEASON

At the beginning of each year, ADF&G issues an emergency order opening the parallel groundfish season in state waters to coincide with the opening of federal groundfish seasons in adjacent waters of the EEZ. The initial federal Pacific cod season opens January 1 for vessels using fixed gear and January 20 for vessels using trawl gear. When a federal Pacific cod season is open to directed fishing in waters of the EEZ, a concurrent parallel Pacific cod season is open in adjacent state waters, except when and where the state-waters season is open. Beginning January 1, state waters of the Adak Section are closed to the parallel Pacific cod season because the AIS state-waters Pacific cod season is open in those waters.

Unless specifically prohibited by state regulation, the same vessel lengths, gear types, seasons, and bycatch limits in a federal Pacific cod season are allowed in a parallel Pacific cod season. With the exception of vessels using mechanical jigging machines, all vessels that participate in a parallel Pacific cod season must have an activated vessel monitoring system (VMS; 5 AAC

28.087(c)). During a parallel Pacific cod season in the Adak Section, no vessel using longline gear may be more than 58 feet overall length (OAL) (5 AAC 28.690(c)), and vessels using trawl, pot, and jig gear may be no more than 60 feet OAL (5 AAC 28.087(b)(3)).

Vessel operators must possess a 2018 statewide Commercial Fisheries Entry Commission (CFEC) interim use permit card for the appropriate gear type and vessel length. Vessel operators participating in the parallel Pacific cod season are not required by the State of Alaska to possess a federal fishing permit (FFP) or Pacific cod gear endorsement administered through the federal License Limitation Program (LLP). However, it is the responsibility of vessel operators who possess an FFP to understand applicable federal regulations, including regulations regarding observer coverage and logbook requirements. Vessel operators that relinquish possession of an FFP for the parallel season are responsible for understanding federal regulations for the FFP's reissue.

Pacific cod harvested during the parallel season accrue toward the federal total allowable catch (TAC). The parallel Pacific cod season closes by sector when the TAC is reached, when the Aleutian Islands subarea TAC for non-CDQ fishing is achieved, or when incidental species allowances are met. For additional information regarding federal Pacific cod fisheries contact NMFS (Appendix A).

STATE-WATERS PACIFIC COD SEASON

The state-waters Pacific cod season is managed according to 5 AAC 28.647 *Aleutian Islands Subdistrict Pacific Cod Management Plan.* The following regulations are in effect for the 2018 season.

2018 GUIDELINE HARVEST LEVEL

The guideline harvest level (GHL) for the Aleutian Islands Subdistrict state-waters Pacific cod 2018 season is 12,798,000 pounds which is 27% of the 2018 acceptable biological catch of Pacific cod for the federal Aleutian Islands subarea.

INSEASON OPENINGS AND CLOSURES

The AIS state-waters season opens January 1 in the Adak Section. Harvest in the Adak Section accrues toward the GHL, while harvest in state waters outside of the Adak Section will initially be managed under parallel season regulations with harvest accruing toward the federal TAC.

All state waters of the AIS (west of 170° W long) will open to the state-waters season 4 days after the federal Bering Sea and Aleutian Islands parallel catcher-vessel trawl A season closes or 4 days after the federal Aleutian Islands subarea non-CDQ season is closed, whichever occurs first. However, if all state waters west of 170° W long have not opened to the state-waters season by March 14, the parallel Pacific cod season will close by emergency order and the state-waters AIS Pacific cod season will open on March 15.

VESSEL LENGTH AND GEAR TYPES

When the state-waters season is only open in the Adak Section, vessels using trawl, pot, and jig gear must be 60 feet or less OAL and vessels using longline gear must be 58 feet or less OAL.

When the state-waters season is open in all state waters west of 170° W long, vessels using trawl gear may not exceed 100 feet OAL, vessels using pot gear may not exceed 125 feet OAL, and vessels using mechanical jig or longline gear may not exceed 58 feet OAL.

REGISTRATION

Vessel operators must register with ADF&G prior to participating in the state-waters Pacific cod season. Vessel registration for the AIS state-waters Pacific cod season is nonexclusive. Vessels registered for the AIS state-waters Pacific cod season may also register for another nonexclusive and one exclusive state-waters Pacific cod season within the calendar year; however, vessels that register for a superexclusive Pacific cod season may not register for the AIS Pacific cod season within a calendar year. Registration in the AIS state-waters Pacific cod season does not prohibit a vessel from participating in a parallel Pacific cod season, but a vessel may not participate in the AIS state-waters season and the parallel season concurrently. Tenders, motherships, and floating processors must also register with ADF&G prior to beginning operations.

Registrations may be obtained by electronic mail, fax, or in person at ADF&G offices in Dutch Harbor and Kodiak. Vessel operators must possess a 2018 CFEC interim use statewide miscellaneous finfish permit card for the appropriate vessel length and gear type prior to registration. Contact information for ADF&G offices and CFEC are located in Appendix A.

A vessel registered for the AIS state-waters Pacific cod season must invalidate their registration prior to participating in another Pacific cod season. Vessel operators may validate or invalidate vessel registration by contacting ADF&G in Dutch Harbor (Appendix A) during normal state business hours (Monday–Friday, 8 AM to 4:30 PM). All Pacific cod must be delivered prior to transitioning between state-waters or parallel seasons (5AAC 28.647(h)(1) and (2)).

TRIP LIMITS

During the AIS state-waters Pacific cod season, a vessel may harvest up to 150,000 pounds of Pacific cod per day and may have no more than 150,000 pounds of unprocessed Pacific cod on board the vessel at any time. All Pacific cod caught <u>must</u> be retained, and any overage must be reported to ADF&G, with proceeds from the overage forfeited to the state.

CATCH REPORTING

ADF&G will initially manage the AIS state-waters Pacific cod season using fish ticket information; however, if vessel effort or catch rates warrant, ADF&G may require vessel operators to report harvest information weekly or daily (Appendix C1 and C2). Should ADF&G require vessel operators to begin daily inseason reporting, a news release will be issued with a summary of reporting requirements and contact information. Catch reports will be taken by dispatch, phone, text, fax, or electronic mail (Appendix A), between 10:00 AM and 11:00 AM daily and must include the area fished, effort (pot lifts), and pounds of Pacific cod retained during the previous 24-hour period (midnight to midnight; Appendix C2). In the absence of reliable inseason harvest information, ADF&G will adopt conservative management measures which may result in lost fishing opportunity.

INSEASON ANNOUNCEMENTS

Inseason management actions during the state-waters season will be distributed via the ADF&G news release system (<u>http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main</u>), relayed through participating processors, and communicated to the fleet during catch reporting. ADF&G will make every effort to provide sufficient time for vessel operators to configure gear for storage or to place gear onboard before a closure; however, the potential exists for short advance notice of a closure.

FIGURES

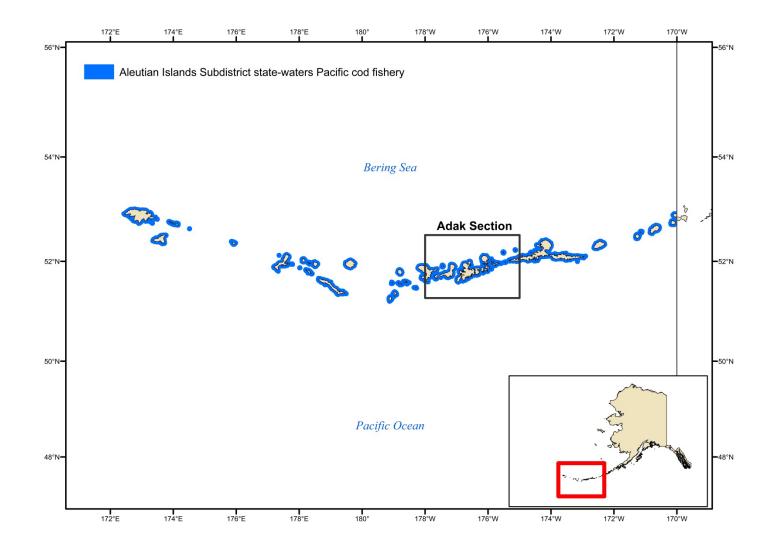
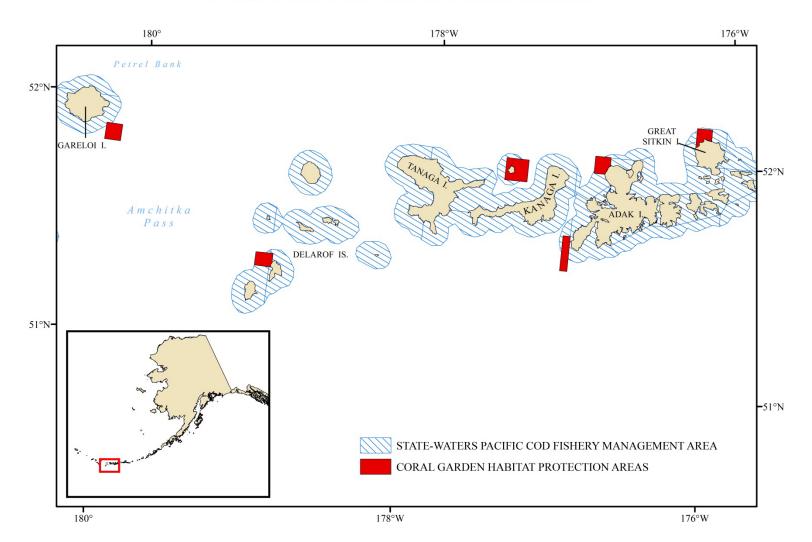


Figure 1.-Aleutian Islands Subdistrict state-waters Pacific cod management area.



ALEUTIAN ISLANDS DISTRICT CORAL HABITAT PROTECTION AREAS

Figure 2.-Aleutian Islands Coral Habitat Protection Areas closed to bottom contact gear.

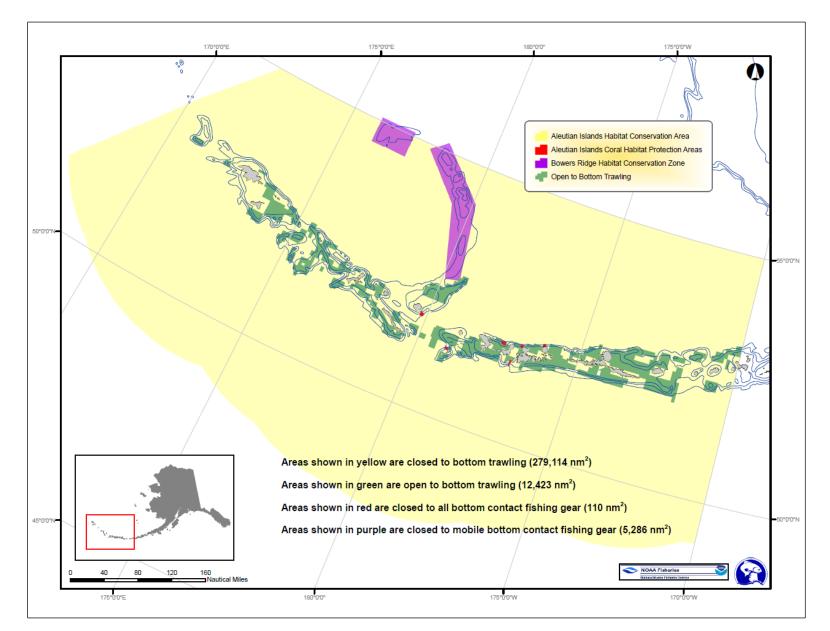


Figure 3.–Aleutian Islands Habitat Conservation Areas.

APPENDIX A. LIST OF FISHERY CONTACTS, BY AGENCY AND LOCATION

Appendix A1.–List of fishery contacts by agency and location.

Alaska Department of Fish and Game		website: http://www.adfg.alaska.gov/
Dutch Harbor Office		
Mail Address:	Physical Address:	Phone: (907) 581-1239
P.O. Box 920587	2315 Airport Beach Road	Fax: (907) 581-1572
Dutch Harbor, Alaska 99692	2 nd floor, Suite 207	E-mail: dfg.dutchharbor@alaska.gov
	Dutch Harbor, Alaska	Dispatch: #1234
Miranda Westphal: Bering Sea-Aleutian Islands Area Ma	nagement Biologist	E-mail: miranda.westphal@alaska.gov
Asia Beder: Bering Sea-Aleutian Islands Asst. Area Mana		E-mail: asia.beder@alaska.gov
Kodiak Office		
Mail Address:	Physical Address:	Phone: (907) 486-1840
351 Research Court	351 Research Court	Fax: (907) 486-1824
Kodiak, Alaska 99615	Kodiak, Alaska	
Mark Stichert, Regional Groundfish Management Biologi	ist	E-mail: mark.stichert@alaska.gov
Nat Nichols, Kodiak, Chignik, Alaska Peninsula Area Ma	nagement Biologist	E-mail: nathaniel.nichols@alaska.gov
Natura Richardson, Kodiak, Chignik, Alaska Peninsula A	sst. Area Management Biologist	E-mail: natura.richardson@alaska.gov
Alaska Wildlife Troopers		website: http://www.dps.state.ak.us/AWT/
Dutch Harbor Office		
Mail Address:	Physical Address:	
P.O. Box 920848	2315 Airport Beach Road, Suite 101	Phone: (907) 581-1432
Dutch Harbor, Alaska 99692	Dutch Harbor, Alaska	Fax: (907) 581-1407
Todd Machacek: Post Sergeant		E-mail: todd.machacek@alaska.gov
Commercial Fisheries Entry Commission (CFEC)		website: http://www.cfec.state.ak.us/
Mail Address:	Physical Address:	-
8800 Glacier Highway	8800 Glacier Highway #109	Phone: (907) 789-6150
Juneau, Alaska 99811-0302	Juneau, Alaska	Fax: (907) 789-6170
National Marine Fisheries Service – Alaska Region		website: http://alaskafisheries.noaa.gov/
Sustainable Fisheries Division		
Krista Milani, Dutch Harbor Office		Phone: (907) 581-2062
Mary Furuness, Juneau Office		Phone: (907) 586-7447
NOAA Fisheries Enforcement		
Dutch Harbor Office		Phone: (907) 581-2061
Anchorage Office		Phone: (907) 586-7225
NOAA Observer Program Dutch Harbor Office		Phone: (907) 581-2060
Seattle Office		Phone: (206) 526-4195

APPENDIX B. COORDINATES FOR THE ALEUTIAN ISLANDS CORAL HABITAT PROTECTION AREAS



ALASKA DEPARTMENT OF FISH & GAME

CLOSED STATE WATERS FOR ALEUTIAN ISLANDS CORAL HABITAT PROTECTION AREAS

State waters of the following 6 coral garden protection areas are closed to commercial fishing using: nonpelagic trawl, scallop dredge, dinglebar troll, longline, and pot gear.

Each closed area is delineated by connecting the coordinates in the order listed by straight lines. The last set of coordinates for each area is connected to the first set of coordinates for the area by a straight line.

	<u>Latitude</u>	Longitude
Great Sitkin Island	52° 09.56' N	176° 06.14' W
Great Sitkin Island	52° 09.56' N	176° 12.44' W
Great Sitkin Island	52° 04.69' N	176° 12.44' W
Great Sitkin Island	52° 06.59' N	176° 06.12' W
Cape Moffett Island	52° 00.11' N	176° 46.65' W
Cape Moffett Island	52° 00.10' N	176° 53.00' W
Cape Moffett Island	51° 55.69' N	176° 53.00' W
Cape Moffett Island	51° 55.69' N	176° 48.59' W
Cape Moffett Island	51° 57.96' N	176° 46.52' W
Adak Canyon	51° 39.00' N	177° 00.00' W
Adak Canyon	51° 39.00' N	177° 03.00' W
Adak Canyon	51° 30.00' N	177° 03.00' W
Adak Canyon	51° 30.00' N	177° 00.00' W
D.1(I.11	510 57 251 N	1770 10 041 XX
Bobrof Island	51° 57.35' N	177° 19.94' W
Bobrof Island	51° 57.36' N	177° 29.11' W
Bobrof Island	51° 51.65' N	177° 29.11' W
Bobrof Island	51° 51.71' N	177° 19.93' W
Ulak Island	51° 25.85' N	178° 59.00' W
Ulak Island	51° 25.69' N	178° 59.00° W
Ulak Island	51° 22.28' N	179° 06.00' W
Ulak Island	51° 22.28' N	179 00.00 W 178° 58.95' W
Ulak Islallu	JI 22.20 IN	170 J0.9J W
Semisopochnoi Island	51° 53.10' N	179° 53.11' E
Semisopochnoi Island	51° 53.10' N	179° 46.55' E
Semisopochnoi Island	51° 48.84' N	179° 46.55' E
Semisopochnoi Island	51° 48.89' N	179° 53.11' E
r	2 - 10102 - 1	

For further information, contact the Alaska Department of Fish and Game in Dutch Harbor at (907) 581-1239.

APPENDIX C. EXAMPLE OF REPORTING WORKSHEETS



2018 Aleutian Islands Subdistrict State-waters Pacific Cod Inseason Reporting Worksheet



Fishermen must report fishing information for the previous week (Monday to Sunday) WEEKLY on MONDAYS between 10 a.m. and 11 a.m. to the Dutch Harbor Office.

Do not combine reports.

If one or more reporting periods are missed, report each period individually.

	Code Item 1	Code Item 2	Code Item 3
Report Period End Date ¹	Statistical Area ²	Pounds of	Effort ⁴
End Date ¹	Statistical Area	Cod Retained ³	Ellori

WEEKLY TOTAL

	Code Item 1	Code Item 2	Code Item 3
Report Period End Date ¹	Statistical Area ²	Pounds of	Effort ⁴
End Date ¹	Statistical Area	Cod Retained ³	Ellort

WEEKLY TOTAL

¹ Weekly report period is Monday - Sunday	Inseason Reporting Contacts:	
² Area(s) fished in the past week - stat areas if possible	ADF&G Dutch Harbor	
³ Weight in pounds of retained cod in the past week	Dispatch: #1234	
⁴ Number pots lifted, hooks fished, soak times, tow lengths/times	Phone: (907) 581-1239	
in the past week	Fax: (907) 581-1572	
	E-Mail: dfg.dutchharbor@alaska.gov	



2018 Aleutian Islands Subdistrict State-waters Pacific Cod Inseason Reporting Worksheet



Fishermen must report the previous 24-hour period (midnight to midnight) DAILY between 9 a.m. and 10 a.m. to the Dutch Harbor Office.

Do not combine reports.

If one or more reporting periods are missed, report each period individually.

	Code Item 1	Code Item 2	Code Item 3
Date ¹	Statistical Area(s) ²	Pounds of Cod Retained ³	Effort ⁴
¹ Previous 24 hours (midnig	-	Inseason Reporting Co	ontacts:
² Area(s) fished in the past 24 hrs - stat areas if possible		ADF&G Dutch Harbor	
 ³ Weight in pounds of retained cod in the past 24 hrs 4 Number pots lifted, hooks fished, soak times, tow lengths/times 		Dispatch: #1234 Phone: (907) 581-1239	

Fax: (907) 581-1572

E-Mail: dfg.dutchharbor@alaska.gov