

Fishery Management Report No. 14-58

**Fishery Management Plan for the Aleutian Islands
District State-Waters and Parallel Pacific Cod
Seasons, 2015**

by

Miranda Westphal

December 2014

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 Code	AAC	<i>all standard mathematical signs, symbols and abbreviations</i>	
deciliter	dL	all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.	alternate hypothesis	H_A
gram	g	all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.	base of natural logarithm	e
hectare	ha	at	@	catch per unit effort	CPUE
kilogram	kg	compass directions:		coefficient of variation	CV
kilometer	km	east	E	common test statistics	(F, t, χ^2 , etc.)
liter	L	north	N	confidence interval	CI
meter	m	south	S	correlation coefficient	
milliliter	mL	west	W	(multiple)	R
millimeter	mm	copyright	©	correlation coefficient (simple)	r
		corporate suffixes:		covariance	cov
Weights and measures (English)		Company	Co.	degree (angular)	$^\circ$
cubic feet per second	ft ³ /s	Corporation	Corp.	degrees of freedom	df
foot	ft	Incorporated	Inc.	expected value	E
gallon	gal	Limited	Ltd.	greater than	>
inch	in	District of Columbia	D.C.	greater than or equal to	≥
mile	mi	et alii (and others)	et al.	harvest per unit effort	HPUE
nautical mile	nmi	et cetera (and so forth)	etc.	less than	<
ounce	oz	exempli gratia	e.g.	less than or equal to	≤
pound	lb	(for example)		logarithm (natural)	ln
quart	qt	Federal Information Code	FIC	logarithm (base 10)	log
yard	yd	id est (that is)	i.e.	logarithm (specify base)	log ₂ , etc.
		latitude or longitude	lat. or long.	minute (angular)	'
Time and temperature		monetary symbols (U.S.)	\$, ¢	not significant	NS
day	d	months (tables and figures): first three letters	Jan,...,Dec	null hypothesis	H_0
degrees Celsius	°C	registered trademark	®	percent	%
degrees Fahrenheit	°F	trademark	™	probability	P
degrees kelvin	K	United States (adjective)	U.S.	probability of a type I error (rejection of the null hypothesis when true)	α
hour	h	United States of America (noun)	USA	probability of a type II error (acceptance of the null hypothesis when false)	β
minute	min	U.S.C.	United States Code	second (angular)	"
second	s	U.S. state	use two-letter abbreviations (e.g., AK, WA)	standard deviation	SD
Physics and chemistry				standard error	SE
all atomic symbols				variance	
alternating current	AC			population sample	Var
ampere	A			sample	var
calorie	cal				
direct current	DC				
hertz	Hz				
horsepower	hp				
hydrogen ion activity (negative log of)	pH				
parts per million	ppm				
parts per thousand	ppt, ‰				
volts	V				
watts	W				

FISHERY MANAGEMENT REPORT NO. 14-58

**FISHERY MANAGEMENT PLAN FOR THE ALEUTIAN ISLANDS
DISTRICT STATE-WATERS AND PARALLEL PACIFIC COD SEASONS,
2015**

by
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December 2014

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: <http://www.adfg.alaska.gov/sf/publications/>. This publication has undergone regional peer review.

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ABSTRACT

The Aleutian Islands District state-waters Pacific cod *Gadus macrocephalus* season is prosecuted in state waters of the Aleutian Islands west of 170° W longitude and is managed by the Alaska Department of Fish and Game (ADF&G). The guideline harvest level (GHL) for the Aleutian Islands District state-waters season is 3% of the estimated acceptable biological catch (ABC) of Pacific cod for the federal Bering Sea and Aleutian Islands Area. The state-waters fishery is divided into an A and B season: The A season is allocated 70% of the GHL and the B season is allocated 30% of the GHL. Legal gear for the state-waters season includes nonpelagic trawl, groundfish pot, longline, mechanical jig, and hand troll gear. ADF&G also manages a parallel Pacific cod season in the Aleutian Islands District concurrent with federal Pacific cod seasons. Harvest in the parallel season accrues toward the federal Pacific cod total allowable catch (TAC). Effective inseason management is dependent upon timely and accurate communication between fishermen and fish processors with ADF&G. In the absence of reliable inseason harvest information, ADF&G will adopt conservative management measures that may result in lost fishing opportunity.

Key words: Pacific cod, *Gadus macrocephalus*, Aleutian Islands District, 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 of Alaska (0-3 nautical miles; 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 AID state-waters Pacific cod *Gadus macrocephalus* fishery is prosecuted in state waters of the Aleutian Islands west of 170° W long (Figure 1).

OVERVIEW

Two distinct Pacific cod *Gadus macrocephalus* fisheries occur within state waters of the AID: parallel Pacific cod seasons and AID state-waters Pacific cod seasons. Parallel seasons are prosecuted concurrent to adjacent federal Pacific cod seasons in the exclusive economic zone (EEZ; 3-200 nmi). Parallel fisheries, managed by Alaska Department of Fish and Game (ADF&G), adopt 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 AID Pacific cod management plan contained in 5 AAC 28.647. The purpose of this document is to provide specific fishery management information for the 2015 AID state-waters and parallel Pacific cod seasons.

STELLER SEA LION CLOSURES DURING A PARALLEL SEASON

In state waters of the AID east of 175° W long and west of 178° W long, ADF&G adopts the federal Pacific cod Steller sea lion protection measures located in Tables 5 and 12 to 50 CFR, Part 679, as amended through December 2014, available on the NMFS website at <http://www.alaskafisheries.noaa.gov/reg/default.htm>.

In state waters between 175° W long and 178° W long during a parallel Pacific cod season, the Steller sea lion *Eumetopias jubatus* protection measures will reflect Steller sea lion closures located in Table 5 to 50 CFR Part 679 (69 FR 75865, December 20, 2004); (5 AAC 28.087(b)(3)), posted on the NMFS website (<http://alaskafisheries.noaa.gov/frules/fr75865.pdf>)

and Table 12 to 50 CFR Part 679 updated through January 2011 (75 FR 81921, December 29, 2010), and posted on the NMFS website (<http://www.alaskafisheries.noaa.gov/regs/default.htm>).

STELLER SEA LION CLOSURES DURING A STATE-WATERS SEASON

During the 2015 AID state-waters Pacific cod season, Steller sea lion closures in place prior to 2011 will be in effect, including no fishing zones, no transit areas, and the Seguam Foraging area (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 Table 5 to 50 CFR Part 679 (69 FR 75865, December 20, 2004), posted on the NMFS website (<http://alaskafisheries.noaa.gov/frules/fr75865.pdf>) and Table 12 to 50 CFR Part 679, updated through January 2011 (75 FR 81921, December 29, 2010), and posted on the NMFS website (<http://www.alaskafisheries.noaa.gov/regs/default.htm>).

OTHER CLOSURES DURING PARALLEL AND STATE-WATERS SEASONS

The Aleutian Islands Coral Habitat Protection Areas (Coral Gardens) and the Aleutian Islands Habitat Conservation Areas are in effect in state waters in the Aleutian Islands District (5 AAC 28.697(g)(4) and 5 AAC 39.167(a)(1) and (2); Figures 2 and 3). Coral Gardens consist of six separate areas that overlap portions of state waters. Coordinates for these areas are found in Appendix B. Each Coral Garden area is closed to commercial fishing with nonpelagic trawl, dinglebar troll, pot, and longline gear. The Aleutian Islands Habitat Conservation Area applies only to nonpelagic trawl gear. Descriptions of Aleutian Islands Habitat Conservation Area are located in Table 24 to 50 CFR Part 679 updated March 20, 2008 (72 FR 63500, November 9, 2007), posted on the NMFS website: (<http://www.alaskafisheries.noaa.gov/regs/default.htm>).

BYCATCH DURING PARALLEL AND STATE-WATERS SEASONS

In state waters, ADF&G adopts NMFS maximum retainable bycatch allowances applicable in the EEZ for species not actively managed by the State of Alaska. Retainable bycatch percentages are subject to change and may differ between species. 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. ciitatus* may only be retained up to 5% 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; additionally, with a state-waters sablefish registration, sablefish may be retained when the sablefish season is open (5 AAC 28.640(b)). BSAI retainable bycatch percentages are located in Table 11 to 50 CFR part 679, updated June 19, 2013, and are available on the NMFS website: <http://www.alaskafisheries.noaa.gov/regs/summary.htm> or by contacting ADF&G in Dutch Harbor (Appendix A).

PARALLEL PACIFIC COD SEASON

At the beginning of each year, ADF&G issues an emergency order opening parallel groundfish fishing seasons 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 in adjacent waters to the EEZ to directed fishing, a concurrent parallel Pacific cod season is open in state waters. Pacific cod parallel season is closed when and where the state-waters season is open. Beginning January 1, state waters of the AID between 175° W long and 178° W long are closed to the parallel Pacific cod fishery due to the AID state-waters Pacific cod fishery being open in those waters.

Unless specifically prohibited by state regulation, the same 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 waters between 175° W long and 178° W long, no vessel using longline gear may be no 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)).

All vessels must be registered with ADF&G prior to participating in the parallel season. Vessel operators or agents may register by completing a parallel groundfish registration form with the Dutch Harbor or Kodiak ADF&G office in person, by electronic mail, or via fax (Appendix A). Prior to registering for the parallel season, vessel operators must possess a 2015 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 fishery accrue toward the federal total allowable catch (TAC). The parallel Pacific cod season closes by sector when the TAC is reached or when incidental species allowances are met. For additional information regarding federal Pacific cod fisheries contact NMFS (Appendix A).

STATE-WATERS PACIFIC COD SEASON

BACKGROUND

The state-waters Pacific cod season is managed according to 5 AAC 28.647 *Aleutian Islands District Pacific Cod Management Plan*. The following regulations are in effect for the 2015 season.

2015 GUIDELINE HARVEST LEVEL

The guideline harvest level (GHL) for the Aleutian Islands District state-waters Pacific cod season is 3% of the estimated acceptable biological catch (ABC) of Pacific cod for the federal Bering Sea and Aleutian Islands Area. Separate ABCs for the Bering Sea and the Aleutian Islands were established by the North Pacific Fishery Management Council (NPFMC) for the 2015 federal Pacific cod seasons; however, the GHL will continue to be equal to 3% of the estimated federal Bering Sea and Aleutian Islands Area ABC. The state-waters Pacific cod GHL is split between an A and B season, with the A season allocated 70% of the GHL and the B season 30% of the GHL. Unharvested A season GHL may be rolled over to the B season; however, the B season GHL may not exceed 70% of the entire state-waters GHL.

INSEASON OPENINGS AND CLOSURES

Each season will close when the season GHL is reached or at regulatory season closure dates, whichever occurs first. When the federal Aleutian Islands Subarea closes, the state-waters season openings and closures based on federal Bering Sea Aleutian Islands sectors will no longer apply.

A SEASON

The AID state-waters A season opens January 1 in waters between 175° W long and 178° W long. Harvest between 175° W long and 178° W long will accrue toward the GHL, while harvest in state waters east of 175° W long and west of 178° W long will initially be managed under parallel fishery regulations with harvest accruing toward federal TAC.

All state waters of the AID west of 170° W long will open to the state-waters A season four days after the federal Bering Sea and Aleutian Islands catcher vessel trawl A season closes or on March 15, whichever occurs first.

When the federal Bering Sea and Aleutian Islands catcher vessel trawl B season opens on April 1, the state-waters A season in waters east of 175° W long and west of 178° W long will close and a parallel fishery will immediately open in those waters. Within state waters from 175° W long to 178° W long, the state-waters A season will remain open. When the federal Bering Sea and Aleutian Islands catcher vessel trawl B season closes, the state-waters A season will reopen in all waters west of 170° W long until the state-waters A season GHL is reached, or June 9, when the state-waters B season opens.

VESSEL LENGTH AND GEAR TYPES

When the state-waters A season is only open between 175°W long and 178° W long, vessels using trawl, pot, and jig gear must be 60 feet or less OAL and longline vessels 58 feet or less OAL.

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

B SEASON

The state-waters B season opens June 10 in all state waters west of 170° W long. The state-waters B season will close and a parallel season will immediately open on September 1 concurrent with the federal Bering Sea Aleutian Islands catcher vessel pot fishery B season for vessels over 60 feet OAL. When the federal catcher vessel pot B season for vessels over 60 feet OAL closes, the state-waters B season will reopen in state waters west of 170° W long. The state-waters B season will close when the GHL is reached or at the regulatory season closure date of December 31, whichever occurs first.

VESSEL LENGTH AND GEAR TYPES

From June 10 through July 31, a vessel participating in the state-waters B season may not exceed 60 feet OAL. Beginning August 1, pot vessels may not exceed 125 feet OAL, and vessels using all other legal gear types may not exceed 60 feet OAL.

REGISTRATION

All vessels must register with ADF&G prior to participating in the state-waters season. Vessel registration for the parallel fishery is not valid for the state-waters Pacific cod season; a separate Aleutian Islands District state-waters Pacific cod registration is required.

Registration for the AID state-waters Pacific cod fishery is nonexclusive. Vessels registered for the AID state-waters Pacific cod fishery may also register for any other nonexclusive and one exclusive state-waters Pacific cod fishery within the calendar year; however, vessels that register for a superexclusive Pacific cod fishery may not register for the AID Pacific cod fishery within a calendar year. Registration in a state-waters Pacific cod fishery will not prohibit a vessel from participating in a parallel Pacific cod season, but vessels may not simultaneously participate in the AID state-waters season and any other concurrent Pacific cod season. Tenders for Pacific cod and floating processors must also register for the state-waters season prior to beginning operations.

Registrations may be obtained by electronic mail, fax, or in person at ADF&G offices in Dutch Harbor and Kodiak. Registrations may also be available at local processors in Akutan and King Cove. Vessel operators must possess a 2015 CFEC interim use statewide miscellaneous finfish permit card for pot gear prior to registration. Contact information for ADF&G offices and CFEC are located in Appendix A.

Vessels registered for the AID state-waters Pacific cod season must invalidate their registration prior to participating in any other Pacific cod season. Vessel operators may validate or invalidate vessel registrations by contacting ADF&G in Dutch Harbor (Appendix A) during normal state business hours (Monday–Friday, 8 a.m. to 5 p.m.). All Pacific cod must be delivered prior to transitioning between state-waters or a parallel season (5AAC 28.647(h)(1) and (2)).

TRIP LIMITS

During the Aleutian Islands District 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 must be retained, and any overage must be immediately reported to ADF&G, with proceeds from the overage forfeited to the state. Enforcement action against vessel operators who incur overages of the daily or trip limit will be pursued.

CATCH REPORTING

ADF&G will initially manage the Aleutian Islands District 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 daily. If daily catch reports are warranted, catch reports will be taken by dispatch, phone, single side-band, fax, or electronic mail (Appendix A). 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. If daily reporting is required, reports will be taken between 10:00 a.m. and 11:00 a.m. daily and should include the area fished, effort, and pounds of Pacific cod retained during the previous 24-hour period (midnight to midnight; Appendix C). In the absence of reliable inseason harvest information, ADF&G will adopt conservative management measures which may result in lost fishing opportunity.

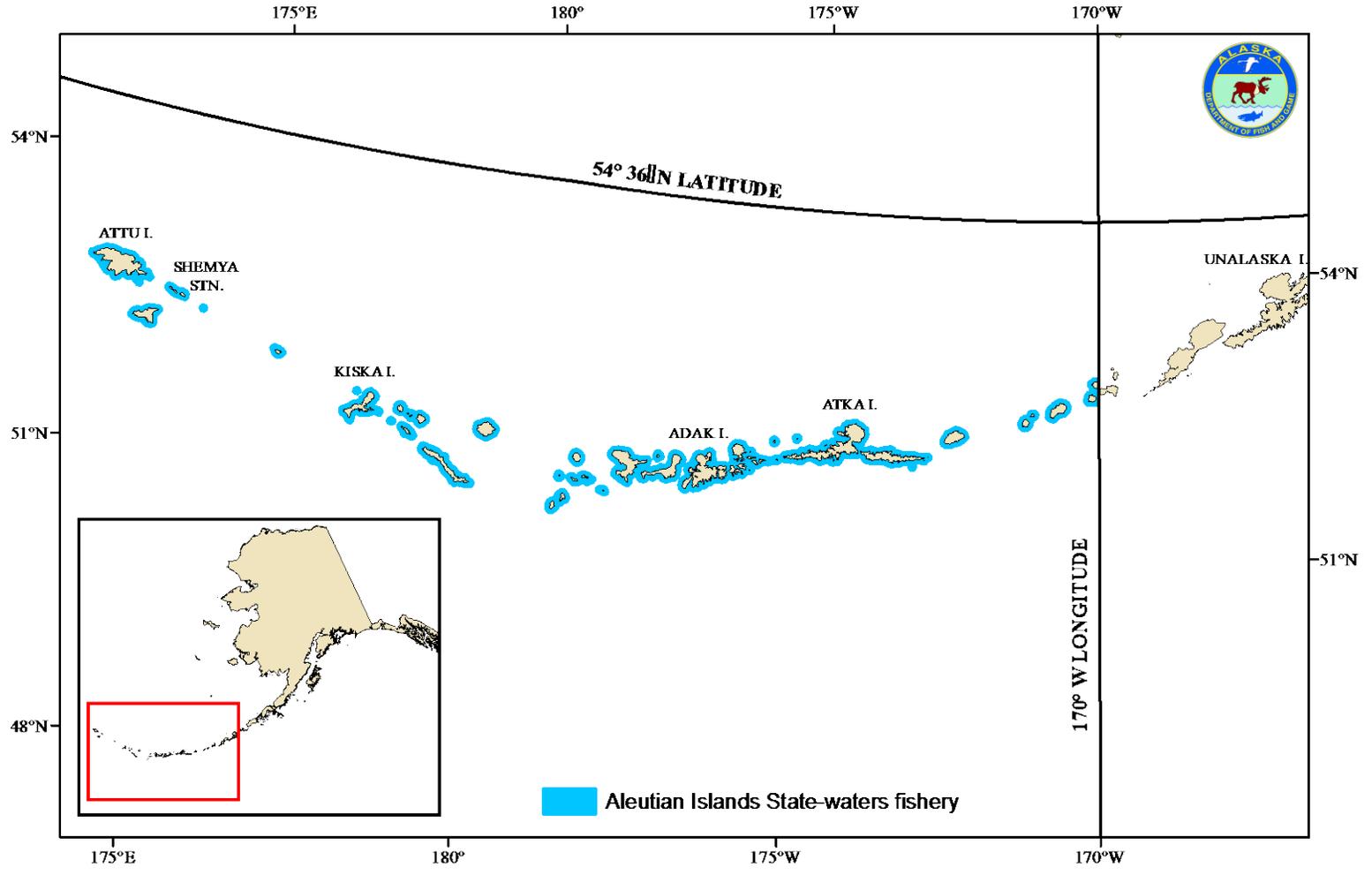
INSEASON ANNOUNCEMENTS

The Aleutian Islands District state-waters Pacific cod season will be managed using information gathered inseason from vessels, processors, and fish ticket data. All inseason management actions during the state-waters season will be distributed via the ADF&G news release system (<http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>), relayed through participating processors, and communicated to the fleet through specified catch reporting method. 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. Interested parties may also sign up for electronic mail delivery of new releases at: <http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>.

Weekly non-confidential harvest updates will be released each Monday after 4:00 p.m. while the state-waters season is open. Weekly harvest updates are available on the ADF&G website at: <http://www.adfg.alaska.gov/index.cfm?adfg=commercialbyareaaleutianislands.groundfish> or by contacting ADF&G.

FIGURES

**ALEUTIAN ISLANDS DISTRICT STATE-WATERS
PACIFIC COD FISHERY MANAGEMENT AREA**



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

ALEUTIAN ISLANDS CORAL HABITAT PROTECTION AREAS

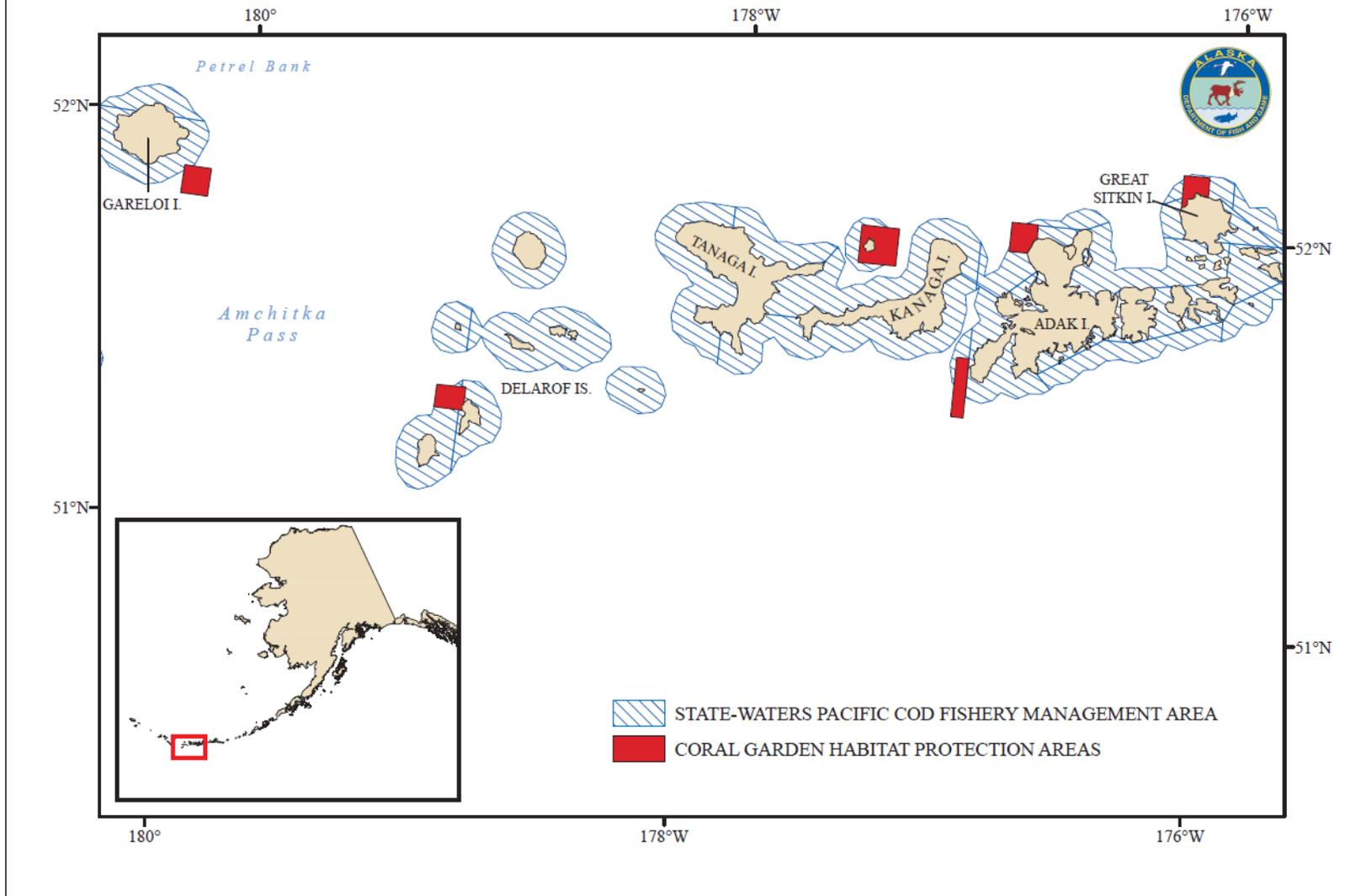


Figure 2.—Aleutian Islands Coral Habitat Protection Areas closed to bottom contact gear.

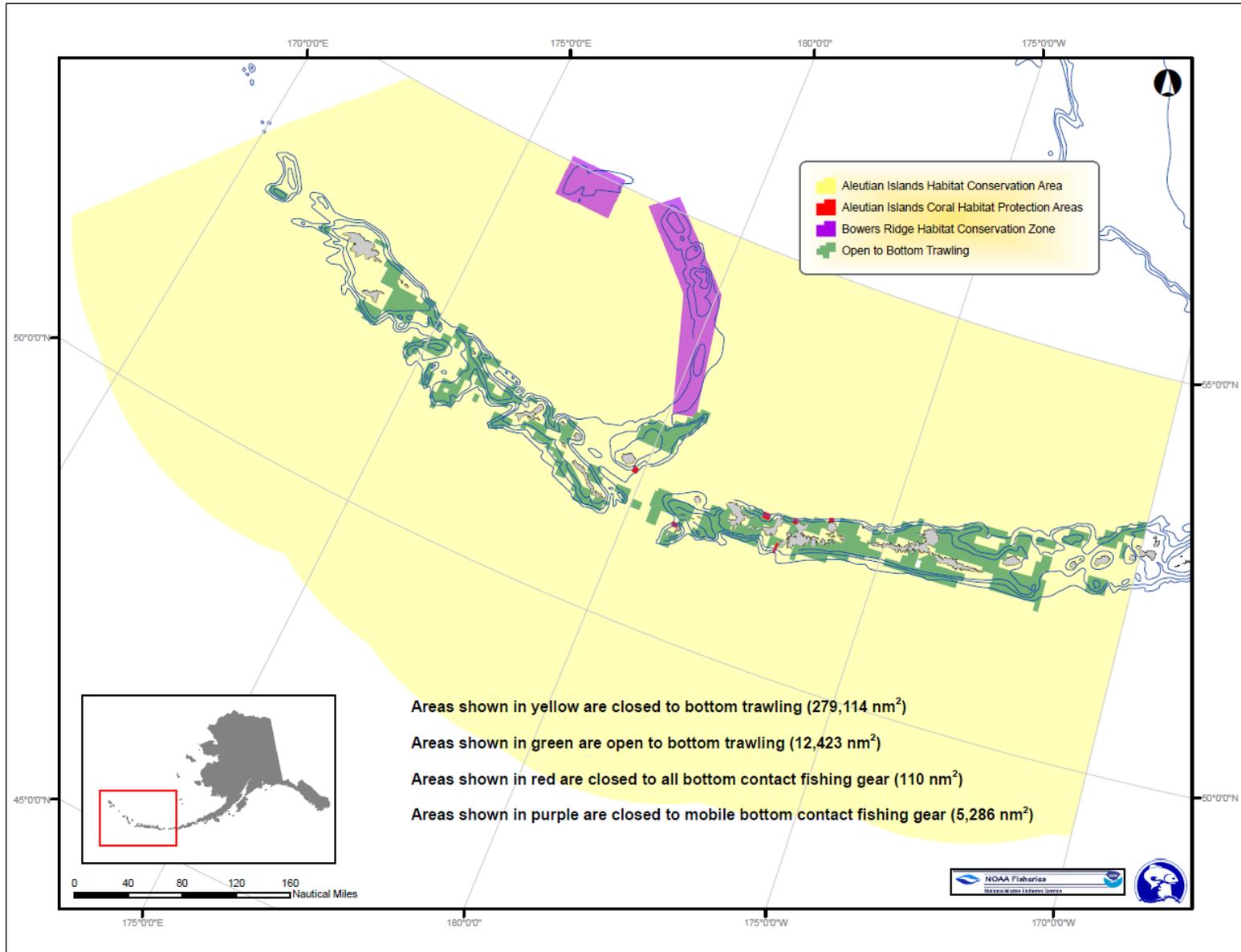


Figure 3.—Aleutian Islands Habitat Conservation Areas.

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

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

Alaska Department of Fish and Game		website: http://www.adfg.alaska.gov/
<u>Dutch Harbor Office</u>		
Mail Address: P.O. Box 920587 Dutch Harbor, Alaska 99692	Physical Address: 2315 Airport Beach Road 2 nd floor, Suite 207 Dutch Harbor, Alaska	Phone: (907) 581-1239 Fax: (907) 581-1572 E-mail: dfg.dutchharbor@alaska.gov Dispatch: #1234 SSB: 4125 kHz WIM76 Dutch Harbor
Heather Fitch, Bering Sea-Aleutian Islands Area Management Biologist		E-mail: heather.fitch@alaska.gov
Miranda Westphal, Bering Sea-Aleutian Islands Asst. Area Management Biologist		E-mail: miranda.westphal@alaska.gov
<u>Kodiak Office</u>		
Mail Address: 351 Research Court Kodiak, Alaska 99615	Physical Address: 351 Research Court Kodiak, Alaska	Phone: (907) 486-1840 Fax: (907) 486-1824
Wayne Donaldson, Fish and Game Coordinator		E-mail: wayne.donaldson@alaska.gov
Mark Stichert, Kodiak, Chignik, Alaska Peninsula Area Management Biologist		E-mail: mark.stichert@alaska.gov
Trent Hartill, Kodiak, Chignik, Alaska Peninsula Asst. Area Management Biologist		E-mail: trent.hartill@alaska.gov
Alaska Wildlife Troopers		website: http://www.dps.state.ak.us/AWT/
<u>Dutch Harbor Office</u>		
Mail Address: P.O. Box 920848 Dutch Harbor, Alaska 99692	Physical Address: 2315 Airport Beach Road, Suite 101 Dutch Harbor, Alaska	Phone: (907) 581-1432 Fax: (907) 581-1407
Robin Morrisett, Post Sergeant		E-mail: robin.morrisett@alaska.gov
Commercial Fisheries Entry Commission (CFEC)		website: http://www.cfec.state.ak.us/
Mail Address: 8800 Glacier Highway Juneau, Alaska 99811-0302	Physical Address: 8800 Glacier Highway #109 Juneau, Alaska	Phone: (907) 789-6150 Fax: (907) 789-6170
National Marine Fisheries Service – Alaska Region		website: http://www.alaskafisheries.noaa.gov/
<u>Sustainable Fisheries Division</u>		
Krista Milani, Dutch Harbor Office		Phone: (907) 581-2062
Mary Furuness, Juneau Office		Phone: (800) 304-4846
<u>NOAA Fisheries Enforcement</u>		
Dutch Harbor Office		Phone: (907) 581-2061
Anchorage Office		Phone: (907) 586-7225
<u>NOAA Observer Program</u> 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 AREA

State waters of the following six 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>	<u>Longitude</u>
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
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	179° 06.00' W
Ulak Island	51° 22.28' N	179° 06.00' W
Ulak Island	51° 22.28' N	178° 58.95' 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

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

APPENDIX C. EXAMPLE OF REPORTING WORKSHEET

