

Fishery Management Report No. 13-45

**Fishery Management Plan for the Aleutian Islands
District State-Waters and Parallel Pacific Cod
Seasons, 2014**

by

Charles L. Trebesch

December 2013

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 (multiple)	R
milliliter	mL	west	W	correlation coefficient (simple)	r
millimeter	mm	copyright	©	covariance	cov
		corporate suffixes:		degree (angular)	°
Weights and measures (English)		Company	Co.	degrees of freedom	df
cubic feet per second	ft ³ /s	Corporation	Corp.	expected value	E
foot	ft	Incorporated	Inc.	greater than	>
gallon	gal	Limited	Ltd.	greater than or equal to	≥
inch	in	District of Columbia	D.C.	harvest per unit effort	HPUE
mile	mi	et alii (and others)	et al.	less than	<
nautical mile	nmi	et cetera (and so forth)	etc.	less than or equal to	≤
ounce	oz	exempli gratia	e.g.	logarithm (natural)	ln
pound	lb	(for example)		logarithm (base 10)	log
quart	qt	Federal Information Code	FIC	logarithm (specify base)	log ₂ , etc.
yard	yd	id est (that is)	i.e.	minute (angular)	'
		latitude or longitude	lat. or long.	not significant	NS
Time and temperature		monetary symbols (U.S.)	\$, ¢	null hypothesis	H_0
day	d	months (tables and figures): first three letters	Jan, ..., Dec	percent	%
degrees Celsius	°C	registered trademark	®	probability	P
degrees Fahrenheit	°F	trademark	™	probability of a type I error (rejection of the null hypothesis when true)	α
degrees kelvin	K	United States (adjective)	U.S.	probability of a type II error (acceptance of the null hypothesis when false)	β
hour	h	United States of America (noun)	USA	second (angular)	"
minute	min	U.S.C.	United States Code	standard deviation	SD
second	s	U.S. state	use two-letter abbreviations (e.g., AK, WA)	standard error	SE
				variance	
Physics and chemistry				population sample	Var var
all atomic symbols					
alternating current	AC				
ampere	A				
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. 13-45

**FISHERY MANAGEMENT PLAN FOR THE ALEUTIAN ISLANDS
DISTRICT STATE-WATERS AND PARALLEL PACIFIC COD SEASONS,
2014**

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December 2013

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 state-waters Pacific cod season guideline harvest level (GHL) is equal to three percent of the federal Bering Sea and Aleutian Islands acceptable biological catch (ABC). The state-waters fishery has an A and B season: A season is allocated 70% of the GHL and 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 coincident with the federal Pacific cod seasons adjacent to state waters. 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 the Alaska Department of Fish and Game (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 (AID), guideline harvest level (GHL), state-waters season, parallel season, Bering Sea-Aleutian Islands (BSAI)

INTRODUCTION

AREA DESCRIPTION

The State of Alaska's Bering Sea-Aleutian Islands (BSAI) groundfish management area consists the 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 fisheries occur within state waters of the AID: the parallel Pacific cod season and the AID state-waters Pacific cod seasons. A parallel season is prosecuted concurrent to federal Pacific cod seasons that occur in the exclusive economic zone (EEZ; 3-200 nmi) adjacent to the AID. 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 regulations developed by the Alaska Board of Fisheries. The Aleutian Islands District Pacific cod management plan is contained in 5 AAC 28.647. The purpose of this document is to provide specific fishery management information about the 2014 AID state-waters and parallel Pacific cod seasons.

PARALLEL 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 to directed fishing, a concurrent parallel Pacific cod season is open in state waters except in areas that a state-waters Pacific cod season is open to those specific gear types and vessel overall length (OAL). Beginning January 1, state waters between 175° W long and 178° W long

are closed to the parallel fishery for trawl, pot and jig vessels 60 ft or less (OAL) and to longline vessels 58 ft or less OAL, due to the AID state-waters Pacific cod fishery being open in those waters for those vessels lengths and gear types.

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 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, vessels using longline gear may not exceed 58 ft in overall length (5 AAC 28.690(c)).

All vessels must be registered with ADF&G prior to participating in the parallel fishery. Vessel operators or agents may register in person or via fax by completing a parallel groundfish registration form with the Dutch Harbor or Kodiak ADF&G office (Appendix A). Prior to registering for the parallel fishery, vessel operators must possess a 2014 Commercial Fisheries Entry Commission (CFEC) interim use statewide miscellaneous finfish permit card for the appropriate gear type and vessel length. The State of Alaska does not require vessel operators participating in the parallel Pacific cod fishery to possess a federal fishing permit or Pacific cod gear endorsement administered through the federal License Limitation Program. However, it is the responsibility of vessel operators who possess an federal fishing permit to understand applicable federal regulations, including those regarding observer coverage and logbook requirements.

Pacific cod harvested during the parallel fishery accrue towards the federal total allowable catch (TAC). The federal and parallel Pacific cod season closes by sector when that sector's TAC is achieved or if bycatch limits for incidentally harvested species are exceeded. Contact NMFS for additional information regarding federal Pacific cod fisheries (Appendix A).

STATE-WATERS SEASON

BACKGROUND

In February 2006, the Alaska Board of Fisheries established the AID state-waters Pacific cod fishery. The regulatory management plan is *Aleutian Islands District Pacific Cod Management Plan* (5 AAC 28.647). The following summarizes regulations in effect for the 2014 season.

GUIDELINE HARVEST LEVEL

The Aleutian Islands District state-waters Pacific cod season is managed using a guideline harvest level (GHL) equal to 3% of the federal Bering Sea and Aleutian Islands Pacific cod acceptable biological catch (ABC) established by the North Pacific Fishery Management Council (NPFMC). If separate ABCs for the Bering Sea and the Aleutian Islands are established by the NPFMC for the 2014 federal Pacific cod seasons, the GHL will continue to be based on 3% of the combined Bering Sea and Aleutian Islands ABCs. 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%. Unharvested A season GHL may be rolled over to the B season; however, the GHL available during the B season may not exceed 70% of the entire state-waters GHL. The A and B seasons will each close when the season's GHL is reached or at the regulatory season closure date, whichever occurs first.

A SEASON

The AID state-waters A season opens January 1 in waters between 175° W long and 178° W long to vessels 60 ft or less OAL using trawl, pot, and jig gear, and to vessels 58 ft or less OAL using longline gear. 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.

If sufficient state-waters GHl remains, all state waters of the AID west of 170° W long will open to the state-waters A season four days after the federal catcher vessel trawl fishery closes or on March 15, whichever occurs first. 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 ft OAL, vessels using groundfish pot gear may not be exceed 125 ft OAL, and vessels using mechanical jig or longline gear may not exceed 58 ft OAL.

If the state-waters A season GHl has not been achieved when the federal 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 to vessels 60 ft or less OAL using trawl, pot, and jig gear, and to vessels 58 ft or less OAL using longline gear. If state-waters A season GHl remains when the federal 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 through June 9, whichever occurs first. During this time trawl vessels may not exceed 100 ft OAL, pot vessels may not exceed 125 ft OAL, and vessels using mechanical jig or longline gear may not exceed 58 ft OAL.

B SEASON

The state-waters B season opens June 10 in all state waters west of 170° W long. From June 10 through July 31 a vessel participating in the state-waters B season may not exceed 60 ft OAL. Beginning August 1, pot vessels may not exceed 125 ft OAL and vessels using all other legal gear types may not exceed 60 ft OAL. If the state-waters B season GHl has not been achieved by September 1, the state-waters B season will close and a parallel season will immediately open concurrent with the federal catcher vessel pot fishery B season for vessels over 60 ft OAL. If state-waters B season GHl remains when the federal catcher vessel pot fishery B season for vessels over 60 ft OAL closes, the state-waters B season will reopen in state waters west of 170° W long. The state-waters B season shall remain open until the GHl is reached or at the regulatory season closure date of December 31, whichever occurs first.

REGISTRATION

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 other 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 a vessel may not prosecute the state-waters and parallel Pacific cod seasons simultaneously. Before entering or exiting a state-waters fishery, a vessel operator must check in and check out by contacting ADF&G and deliver all unprocessed Pacific cod on board the vessel prior to transitioning between state-waters or a

parallel season (5AAC 28.647(h)(1) and (2)). A separate registration is required for the parallel season. Tenders for Pacific cod and floating processors must also register for the state-waters season prior to beginning operations.

Pacific cod registrations may be obtained at ADF&G offices in Dutch Harbor and Kodiak, and seasonally in Akutan, Adak, King Cove and Sand Point. Registrations may also be obtained by fax or e-mail (Appendix A). Vessel operators must possess a 2014 CFEC interim use statewide miscellaneous finfish permit card for the appropriate gear type and vessel length prior to registration. CFEC and other fishery related contact information is provided in Appendix A.

TRIP LIMITS

During the Aleutian Islands District state-waters season, a vessel may harvest up to 150,000 pounds of Pacific cod per day but 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.

BYCATCH

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. Unless otherwise specified, the maximum bycatch limit for any species of groundfish is 20% by weight of the Pacific cod onboard the vessel. Notably, black and dark rockfish may only be retained up to 5% by weight of landed Pacific cod. Sablefish bycatch is not allowed; however, with a state-waters sablefish registration, sablefish may be retained concurrent with the federal Individual Fishing Quota sablefish season (5 AAC 28.640(b)). Fishermen holding Individual Fishing Quota or Community Development Quota should contact NMFS prior to retaining sablefish. BSAI retainable bycatch percentages are located in Table 11 to 50 CFR part 679 updated June 19, 2013, and are available on the NMFS Alaska Region website: <http://www.alaskafisheries.noaa.gov/regs/default.htm> or by contacting ADF&G in Dutch Harbor (Appendix A). NMFS may prohibit the retention of bycatch species during the AID Pacific cod season. Those updates are located in information bulletins available on the NMFS Alaska Region website: http://alaskafisheries.noaa.gov/cm/info_bulletins/.

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 phone, single side-band, fax, or e-mail. Contact information is located in 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 at 10:00 AM 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.

STELLER SEA LION CLOSURES

Steller sea lion protection measures in state waters depend on whether a parallel or state-waters season is open.

STELLER SEA LION CLOSURES DURING A PARALLEL SEASON

Beginning January 1, 2011, NMFS implemented new Reasonable and Prudent Alternatives (RPAs) for Steller sea lions, resulting in additional commercial fishing closures throughout much of the Aleutian Islands. The closures implemented by the RPAs are located in Tables 4, 5, 6 and 12 to 50 CFR, Part 679, as amended through January 1, 2011, and are applicable during the parallel season, except where noted below. Federal regulations are posted on the NMFS website at <http://www.alaskafisheries.noaa.gov/regs/default.htm>.

In state waters between 175° W long and 178° W long during a parallel Pacific cod season, the Steller sea lion protection measures will reflect those RPAs in place prior to 2011 (5 AAC 28.087(b)(3)) and 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>). During a parallel season in waters between 175° W long and 178° W long, no vessel using longline gear may be more than 58 ft OAL, and all other vessels may be no more than 60 ft OAL.

STELLER SEA LION CLOSURES DURING A STATE-WATERS SEASON

During the 2014 Aleutian Islands District 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 at <http://www.alaskafisheries.noaa.gov/regs/default.htm>.

OTHER CLOSURES

The Aleutian Islands Coral Habitat Protection Areas (Coral Gardens) and the Aleutian Islands Habitat Conservation Areas (5 AAC 39.167(a)(1) and (2); Figures 2 and 3) are in effect in state waters in the Aleutian Islands District. The Coral Gardens consist of six separate areas which 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 is only closed to nonpelagic trawl gear **for the parallel and state-waters Pacific cod fisheries**. 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 at <http://www.alaskafisheries.noaa.gov/regs/default.htm>.

INSEASON ANNOUNCEMENTS

The Aleutian Islands District state-waters Pacific cod season will be managed using information gathered inseason from vessels, processors, dockside sampling, and fish ticket data. All inseason management actions during the state-waters and parallel seasons will be published in news releases and relayed to participating processors.

News releases and weekly catch updates may be obtained through the Dutch Harbor ADF&G management office at (907) 581-1239 or on the ADF&G website at:

<http://www.adfg.alaska.gov/index.cfm?adfg=%20commercialbyareaaleutianislands.groundfish>.

Interested parties may also sign up for e-mail delivery of news releases, by species, region, fishery or gear type at:

<http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>.

FIGURES

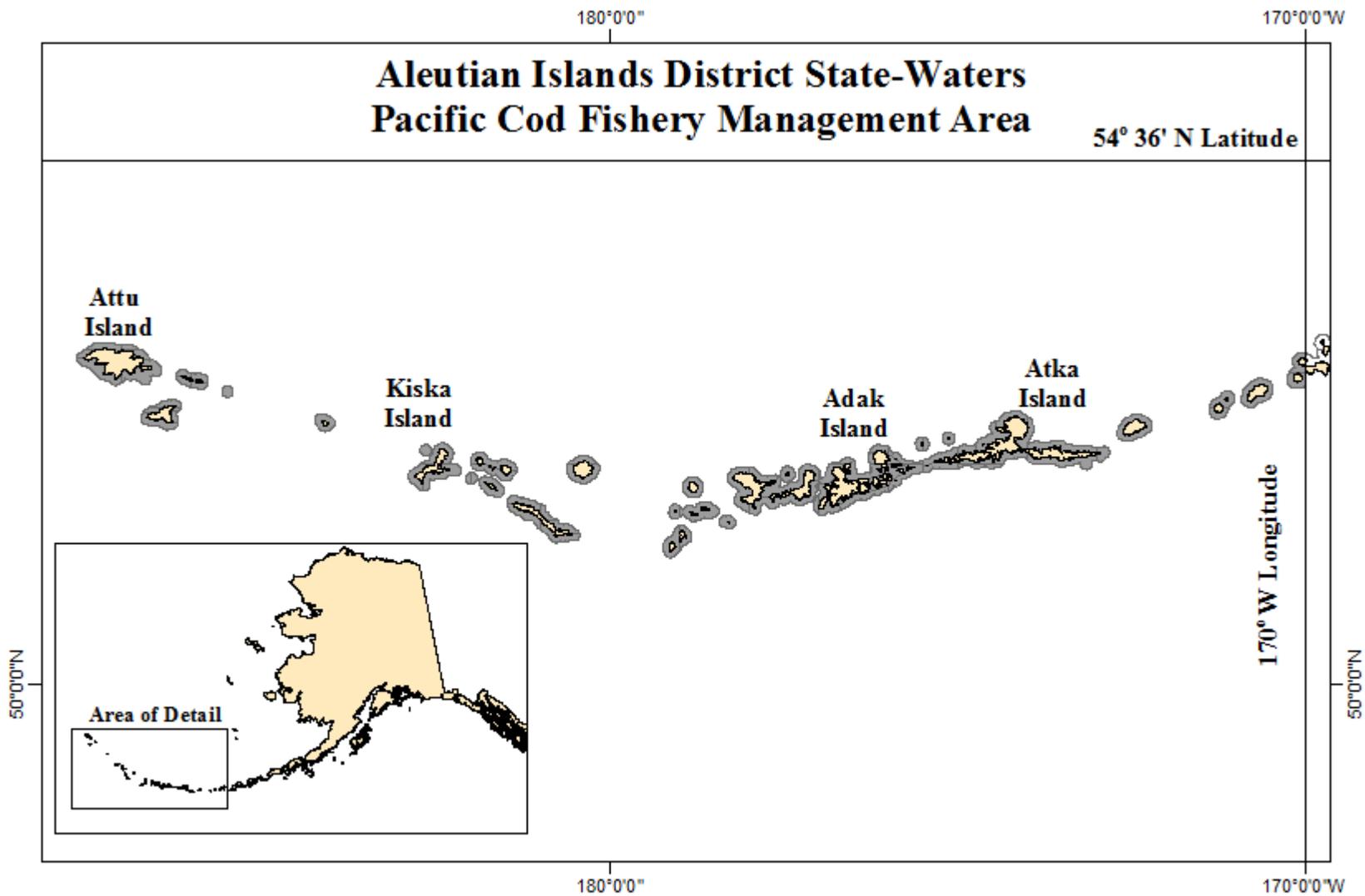


Figure 1.—Aleutian Islands District state-waters Pacific cod management area.

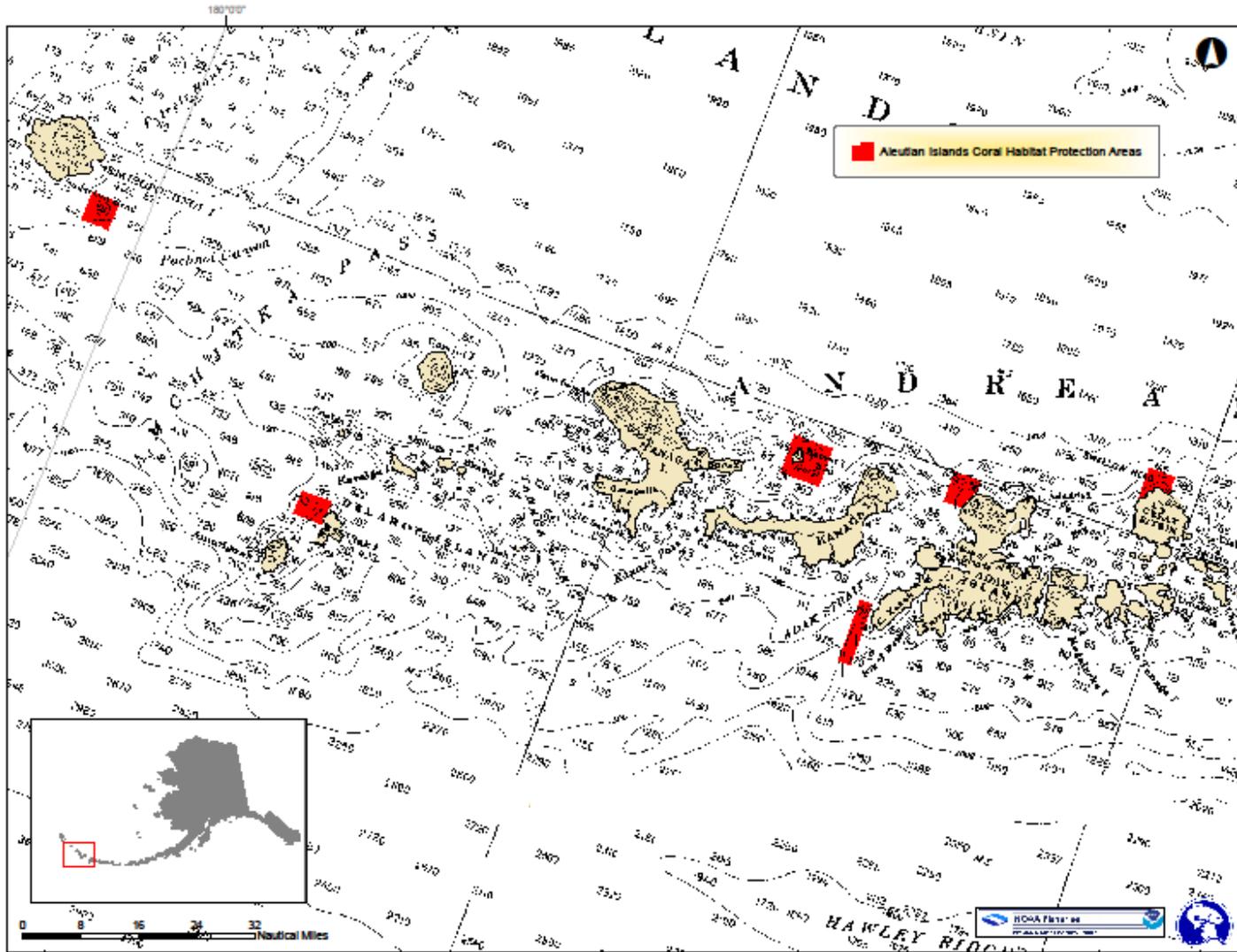


Figure 2.—Aleutian Islands Coral Habitat Protection Areas closed to bottom contact gear.

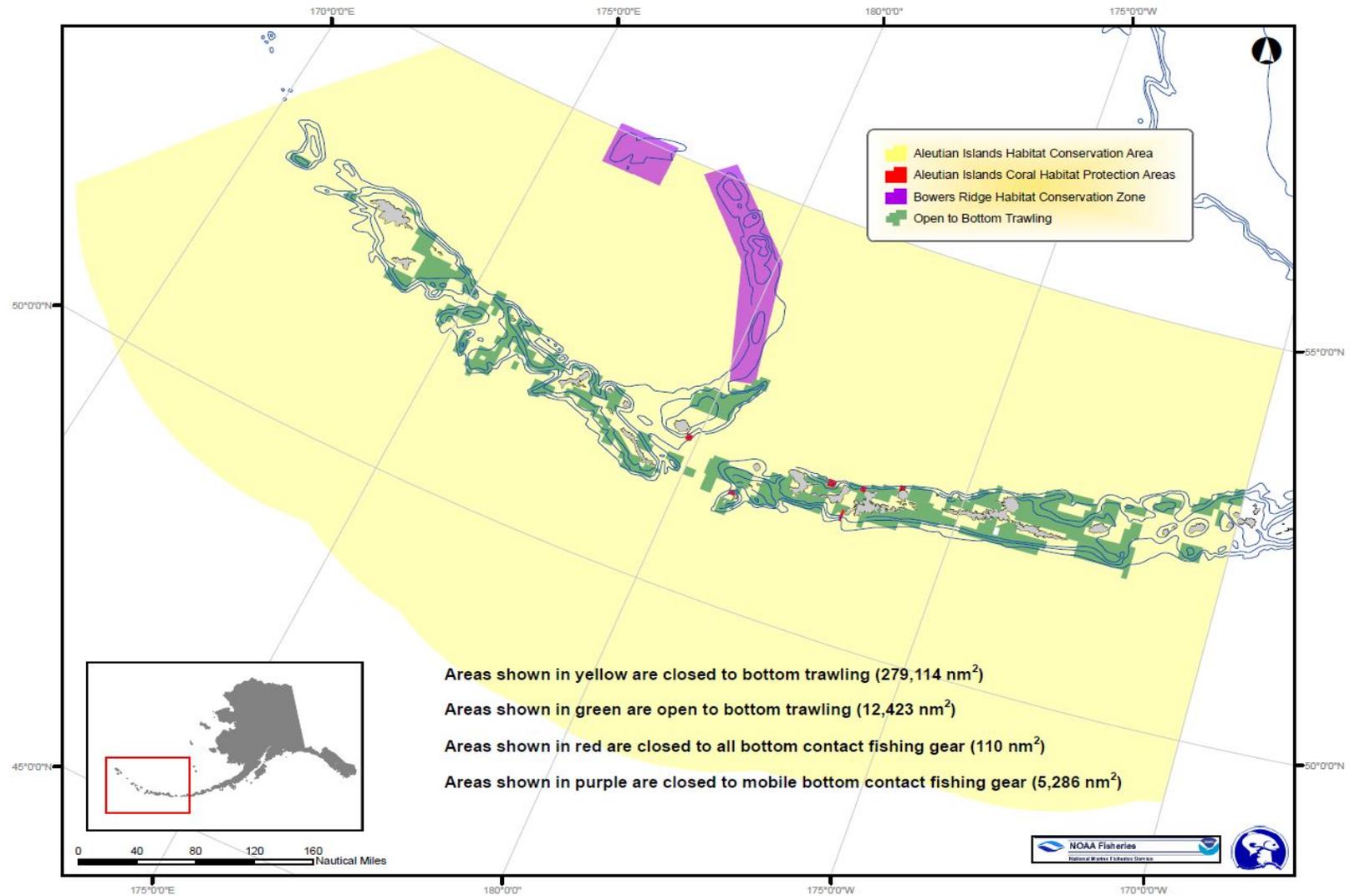


Figure 3.—Aleutian Islands Habitat Conservation Areas.

**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/index.cfm?adfg=fishingCommercialByArea.southwest>

Dutch Harbor Office

Mail Address: P.O. Box 920587
Dutch Harbor, Alaska 99692

Physical Address: 2315 Airport Beach Road
2nd floor, Suite 207
Dutch Harbor, Alaska

Phone: (907) 581-1239
FAX: (907) 581-1572

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Charles L. Trebesch Bering Sea-Aleutian Islands Assistant Area Groundfish Biologist charles.trebesch@alaska.gov

Kodiak Office

Mail Address: 351 Research Court
Kodiak, Alaska 99615

Physical Address: 351 Research Court
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FAX: (907) 486-1824

Wayne Donaldson Fish and Game Coordinator wayne.donaldson@alaska.gov
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Trent Hartill Kodiak, Chignik, Alaska Peninsula Assistant Area Shellfish/Groundfish Biologist trent.hartill@alaska.gov

Division of Alaska Wildlife Troopers website: <http://www.dps.state.ak.us/AWT/>

Dutch Harbor Office

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 robin.morrisett@alaska.gov

Commercial Fisheries Entry Commission 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/>

Sustainable Fisheries Division

Dutch Harbor Office **Phone:** (907) 581-2062
Juneau Office **Phone:** (800) 304-4846 #3
Kodiak Office **Phone:** (907) 481-1780

NOAA Fisheries Enforcement

Dutch Harbor **Phone:** (907) 581-2061
Kodiak **Phone:** (907) 486-3298
NOAA Observer Program **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.

	Latitude		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
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
Semisopchnoi Island	51° 53.10'	N	179° 53.11'	E
Semisopchnoi Island	51° 53.10'	N	179° 46.55'	E
Semisopchnoi Island	51° 48.84'	N	179° 46.55'	E
Semisopchnoi 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

