Post-June Salmon Management Plan for the South Alaska Peninsula, 2013

by

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and

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Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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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	e
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	$(F, t, \chi^2, etc.$
milliliter	mL	at	@	confidence interval	CI
millimeter	mm	compass directions:		correlation coefficient	
		east	E	(multiple)	R
Weights and measures (English)		north	N	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	E
nautical mile	nmi	Corporation	Corp.	greater than	>
ounce	OZ	Incorporated	Inc.	greater than or equal to	≥
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	≤
	•	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	K	id est (that is)	i.e.	null hypothesis	H_{O}
hour	h	latitude or longitude	lat. or long.	percent	%
minute	min	monetary symbols		probability	P
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	R	(acceptance of the null	
ampere	A	trademark	TM	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	pН	U.S.C.	United States	population	Var
(negative log of)			Code	sample	var
parts per million	ppm	U.S. state	use two-letter		
parts per thousand	ppt,		abbreviations		
	‰		(e.g., AK, WA)		
volts	V				
watts	W				

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POST-JUNE SALMON MANAGEMENT PLAN FOR THE SOUTH ALASKA PENINSULA, 2013

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> Alaska Department of Fish and Game Division of Sport Fish, Research and Technical Services 333 Raspberry Road, Anchorage, Alaska, 99518-1565 April 2013

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TABLE OF CONTENTS

LIST OF TABLESi
LIST OF FIGURESi
ABSTRACT
INTRODUCTION
ALASKA BOARD OF FISHERIES REGULATION CHANGES FROM THE FEBRUARY 2013 MEETING 1
GPS COORDINATES AND ENFORCEMENT
ANNOUNCEMENTS
HARVEST REPORTING
POST-JUNE MANAGEMENT PLAN
Immature Test Fishery
Post-June Harvest Strategy
Harvest Strategy for July
Harvest Strategies after July
SALMON ESCAPEMENT GOALS
REFERENCES CITED
TABLES AND FIGURES5
LIST OF TABLES Table Page
1. South Alaska Peninsula pink and chum salmon escapement goals for 2013
LIST OF FIGURES
Figure Page
 South Alaska Peninsula salmon fishing districts
management plan
3. Zachary Bay closed waters and post-June terminal fishing area9
 Canoe Bay Section and Upper Pavlof Bay closed waters and post-June terminal fishing areas
6. South Alaska Peninsula post-June terminal fishing areas from July 6 through July 2112
7. South Alaska Peninsula post-June terminal fishing areas from July 22 through July 31

ABSTRACT

The 2013 South Alaska Peninsula post-June commercial salmon fishery is scheduled to occur from July 6 through October 31. This document describes how the fishery will be managed, the requirements for industry to participate in the fishery, and how to contact and relay information to the Alaska Department of Fish and Game (ADF&G). This document is intended as a general guide to stakeholders interested in commercial salmon fisheries in the South Alaska Peninsula Management Area (Area M). Specific information regarding commercial salmon fishing regulations should be obtained from the ADF&G prior to fishing in the area.

Key words: Alaska Peninsula, post-June commercial salmon fishery, salmon management plan, sockeye salmon *Oncorhynchus nerka*, chum salmon *O. keta*, pink salmon *O. gorbuscha*, Area M

INTRODUCTION

This document is intended to provide commercial salmon harvesters and processors with a description of how the Alaska Department of Fish and Game (ADF&G) will manage the 2013 South Alaska Peninsula post-June salmon fishery from July 6 through October 31. This document also outlines the requirements for the industry to participate in the fishery, as well as how to contact and relay information to the department.

The South Alaska Peninsula Salmon Management Area (Area M) consists of Pacific Ocean state waters from Kupreanof Point west to Scotch Cap (located on Unimak Island) and includes the Southeastern, South Central, Southwestern, and Unimak districts (Figure 1).

ALASKA BOARD OF FISHERIES REGULATION CHANGES FROM THE FEBRUARY 2013 MEETING

During the February 2013 meeting, the Alaska Board of Fisheries changed the *Post-June Salmon Management Plan for the South Alaska Peninsula* July fishing schedule (5 AAC 09.366(d)). This change consolidates the number of fishing periods in the month of July from nine to seven, while still offering the same amount of overall fishing time.

The Unimak District chum salmon sustainable escapement goal (SEG) of 800 fish was removed due to inconsistent aerial survey data.

GPS COORDINATES AND ENFORCEMENT

ADF&G and the Alaska Department of Public Safety use global positioning system (GPS) technology to identify latitude and longitude coordinates of districts, sections, closed waters, and regulatory fishing coordinates published in regulations or emergency orders in Area M (5 AAC 09.206). GPS is based on the North American 1983 datum.

ANNOUNCEMENTS

Inseason announcements will be broadcast on radio station KSDP AM 830 KHz in Sand Point and rebroadcast over K201DA FM 88.1 MHz in King Cove, as well as on marine VHF channels 6 and 73 daily at 9:30 AM and 5:00 PM. Recorded information may also be obtained by calling the ADF&G recorder phone in Sand Point at (907) 383-2334 (383-ADFG) and in Cold Bay at (907) 532-2419. During the 2013 season, inseason harvest reports and fishery announcements will be available at the Commercial Fisheries website: http://www.adfg.alaska.gov/index.cfm ?adfg=commercialbyareaakpeninsula.salmon.

HARVEST REPORTING

As required by 5 AAC 39.130(c), buyers, transporters, and catcher/processors must report their daily salmon harvest/purchases by species (in both numbers of fish and pounds), statistical area, and number of deliveries by gear type to the ADF&G office in Sand Point or Cold Bay by 9:30 AM the day following the delivery. Earlier reporting is appreciated and helps to manage an orderly fishery. The ADF&G offices can be contacted on VHF channels 6 and 73, and SSB radio frequency 3.230 MHz. Buyers may also phone, e-mail, or fax their harvest information to the ADF&G offices in Cold Bay or Sand Point.

Cold Bay Tel: 907-532-2419 e-mail: <u>aaron.poetter@alaska.gov</u> Fax: 907-532-2470 Sand Point Tel: 907-383-2066 e-mail: <u>aaron.poetter@alaska.gov</u> Fax: 907-383-2606

or

e-mail: nathaniel.nichols@alaska.gov

Fish tickets must be received in the ADF&G office in Sand Point or Cold Bay (listed below) within seven days of the purchase date (5 AAC 39.130(c)).

Alaska Department of Fish & Game

Alaska Department of Fish & Game

P.O. Box 50 P.O. Box 129

Cold Bay, AK 99571 Sand Point, AK 99661

POST-JUNE MANAGEMENT PLAN

Immature Test Fishery

In order to reduce the incidental harvest of immature salmon, ADF&G will conduct a purse seine test fishery in the Shumagin Islands Section in early July, before the post-June fishery begins, to assess abundance of immature salmon. If 100 or more immature salmon, per set, are present, the commercial fishery will be closed to purse seine gear in an area to be determined by the department (5 AAC 09.366 (i)). For the purpose of this management plan, "immature salmon, per set, are present" is defined as the number of Chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, coho *O. kisutch*, and chum *O. keta* salmon that are observed to be gilled in the seine web (5 AAC 09.366 (i)). Test fishing is standardized to purse seine gear, conducting two 20-minute sets at Popof Head, Middle Set, and Red Bluff located on Popof Island. The commercial fishery may be constrained based on the abundance of immature salmon observed during the test fishery. Gillnet gear is permitted to fish in these areas during the presence of immature salmon because the larger mesh size permits immature salmon to pass through the nets.

Post-June Harvest Strategy

From July 6 through October 31, the South Alaska Peninsula commercial salmon fishery will be managed according to the *Post-June Salmon Management Plan for the South Alaska Peninsula* in the Unimak District, Southwestern District, South Central District, and the Shumagin Islands Section of the Southeastern District (5 AAC 09.366). The Southeastern District Mainland is managed under a different management plan (5 AAC 09.360) from June 1 through October 31.

Harvest Strategy for July

Commercial salmon fishing opportunity during the month of July will consist of a 33-hour fishing period, followed by a 63-hour closure, followed by six 36-hour fishing periods, separated

by 60-hour closures (5 AAC 09.366 (d)). The first post-June fishing period will be on July 6, pending the results from the immature test fishery. The first commercial fishing period of the July 22 through July 31 period will begin at 6:00 AM on July 22 (5 AAC 09.366 (d)). The Post-June fishery July fishing schedule will be as follows (Figure 2):

Dates and Times	Duration
6:00 AM Saturday, July 6 until 3:00 PM Sunday, July 7	33 hours
6:00 AM Wednesday, July 10 until 6:00 PM Thursday, July 11	36 hours
6:00 AM Sunday, July 14 until 6:00 PM Monday, July 15	36 hours
6:00 AM Thursday, July 18 until 6:00 PM Friday, July 19	36 hours
6:00 AM Monday, July 22 until 6:00 PM Tuesday, July 23	36 hours
6:00 AM Friday, July 26 until 6:00 PM Saturday, July 27	36 hours
6:00 AM Tuesday, July 30 until 6:00 PM Wednesday, July 31	36 hours

Under the current management plan, commercial salmon fishing is permitted to occur concurrently in both terminal and non-terminal areas during the scheduled openings for the month of July in all areas of the South Alaska Peninsula. Terminal harvest areas are depicted in Figures 3 through 7, and non-terminal harvest areas are depicted in Figures 6 and 7.

Additional fishing time in terminal harvest areas (Figures 3–7) may also be provided during closures in the July fishing schedule based on local salmon stock strength which is evaluated from harvest data, escapement counts, and aerial surveys. From July 6 through July 21 terminal harvest areas are: Zachary Bay, Canoe Bay, Cold Bay, Thin Point, and Morzhovoi Bay sections and the East and West Pavlof Bay sections north of the latitude of Black Point (Figure 6). Terminal harvest areas during the July 22 through July 31 time period include those areas specified for the July 6 through July 21 period, as well as the Deer Island, Belkofski Bay, Mino Creek-Little Coal Bay sections (Figure 7).

Harvest Strategies after July

From August 1 through August 31, fishing periods in the South Alaska Peninsula will be based on the strength of local sockeye, coho, pink *O. gorbuscha*, and chum salmon.

From September 1 through October 31, fishing periods will be based primarily on coho salmon abundance, although late pink and chum salmon run strength may be considered when determining fishing time. Fishing effort typically declines during the fall fishery. With decreased fishing effort, ADF&G will not attempt to have concurrent openings between the Southeastern District and the remainder of the South Peninsula after September 1.

In an effort to allow enforcement activities during daylight hours, with minimum impact to legal fishing activities, fishing periods in August will open at 8:00 AM and close at 9:00 PM (5 AAC 09.366 (c)(2)), and fishing periods in September and October will open at 9:00 AM and close at 8:00 PM (5 AAC 09.366 (c)(3)).

SALMON ESCAPEMENT GOALS

ADF&G will conduct aerial surveys to estimate the escapement of sockeye, coho, pink, and chum salmon on the South Alaska Peninsula. Information from these surveys will be used for inseason management of the South Alaska Peninsula commercial salmon fishery. Aerial survey methods can be found in Poetter et al. (2013).

Pink and chum salmon escapements are estimated using an indexed total escapement method, while sockeye salmon systems are estimated using peak escapements beginning in mid-July through mid-September. Due to the late run timing of coho salmon, limited survey data is gathered and no indexed total escapement can be calculated. The 2013 pink salmon SEG range for the South Alaska Peninsula is 1,637,800–3,275,700 fish, while the 2013 chum SEG ranges are 106,400–212,800 fish in the Southeastern District, 89,800–179,600 fish in the South Central District, and 133,400–266,800 fish in the Southwestern District (Table 1). There are three sockeye salmon SEGs in the South Alaska Peninsula; 15,000–20,000 fish at Orzinski Lake, 14,000–28,000 fish at Thin Point Lake, and 3,200–6,400 fish at Mortensens Lagoon (Sagalkin and Erickson 2013).

REFERENCES CITED

Poetter, A. D., M. D. Keyse., and A.R. Tiernan. 2013. South Alaska Peninsula salmon annual management report, 2012. Alaska Department of Fish and Game, Fishery Management Report, Anchorage.

Sagalkin, N. H., and J. W. Erickson. 2013. Review of salmon escapement goals in the Alaska Peninsula and Aleutian Islands Management Areas, 2012. Alaska Department of Fish and Game, Fishery Manuscript No. 13-01, Anchorage.

TABLES AND FIGURES

Table 1.—South Alaska Peninsula pink and chum salmon escapement goals for 2013.

Pink Salmon Sustainable Escapement Goal (SEG) (odd year)						
	Range					
South Peninsula Total	1,637,800	to	3,275,700			

Chum Salmon Sustainable Escapement Goals (SEGs)

	Range		
Southeastern District	106,400	to	212,800
South Central District	89,800	to	179,600
Southwestern District	133,400	to	266,800
Unimak District	No Goal		

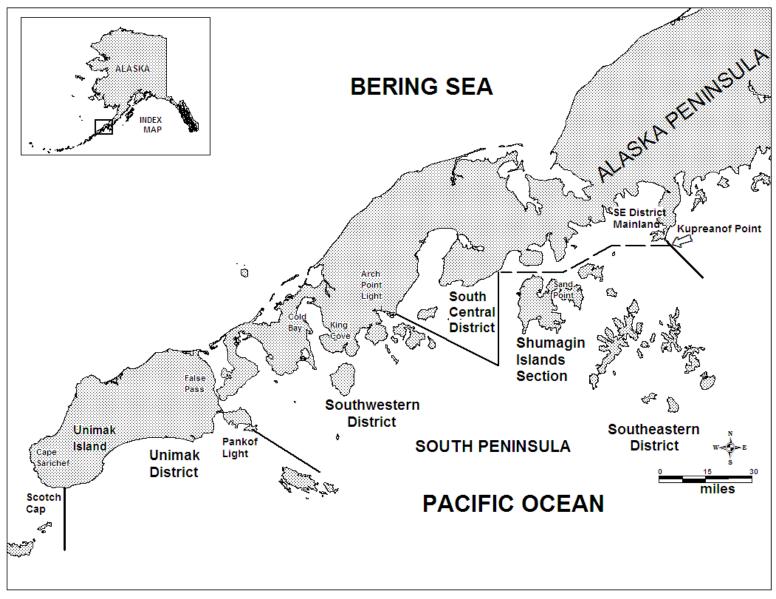


Figure 1.-South Alaska Peninsula salmon fishing districts.

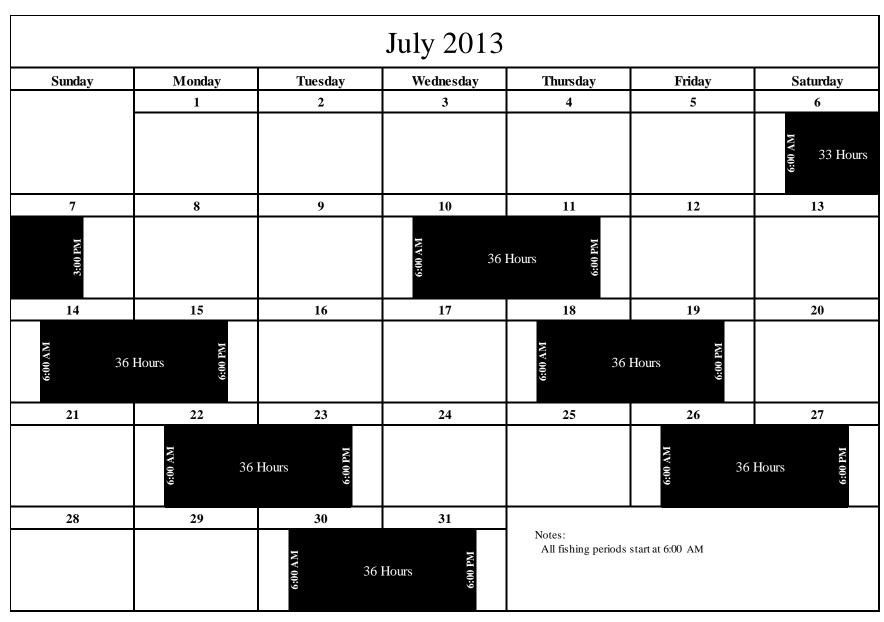


Figure 2.—South Alaska Peninsula July fishing schedule for non-terminal locations based on the post-June salmon management plan.

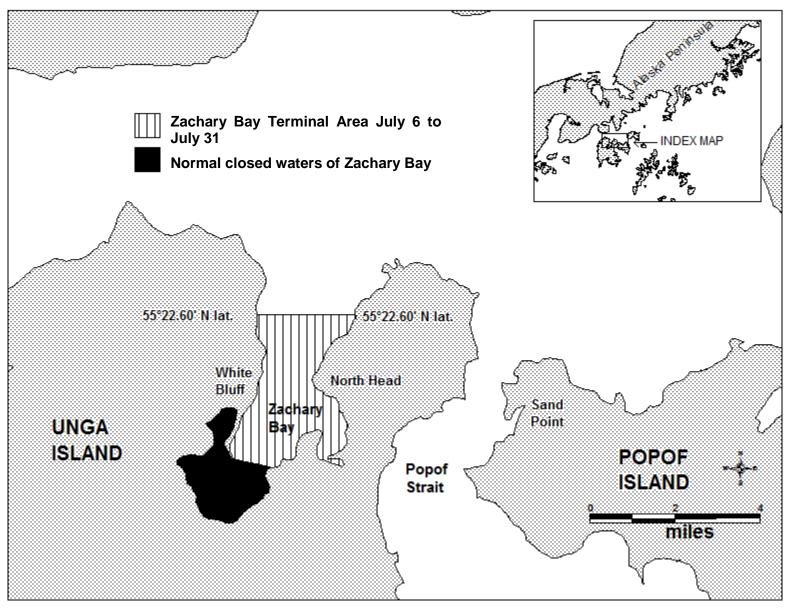


Figure 3.–Zachary Bay closed waters and post-June terminal fishing area.

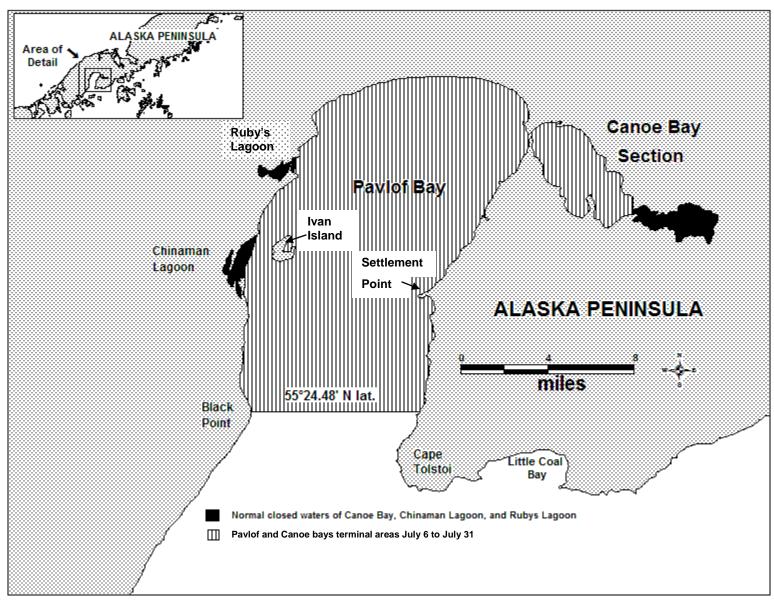


Figure 4.—Canoe Bay Section and Upper Pavlof Bay closed waters and post-June terminal fishing areas.

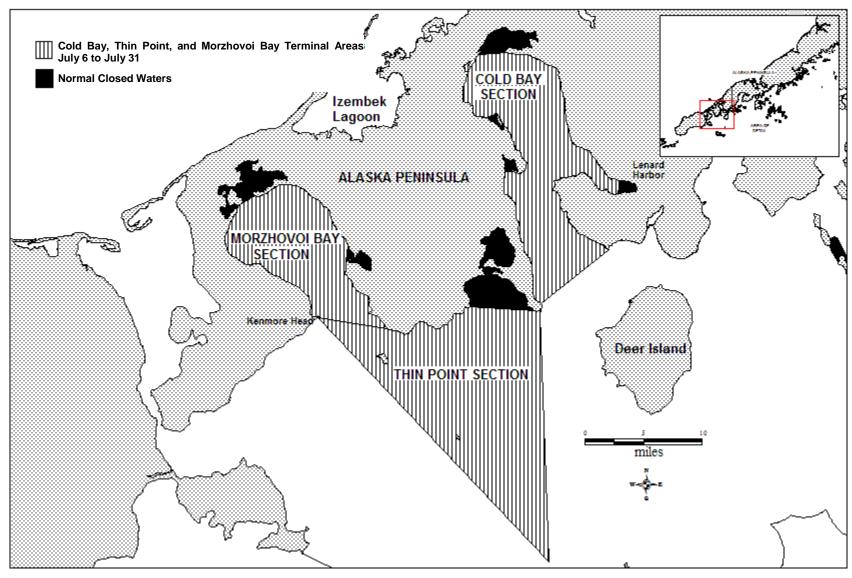


Figure 5.-Cold Bay, Thin Point, and Morzhovoi Bay sections closed waters and post-June terminal fishing areas.

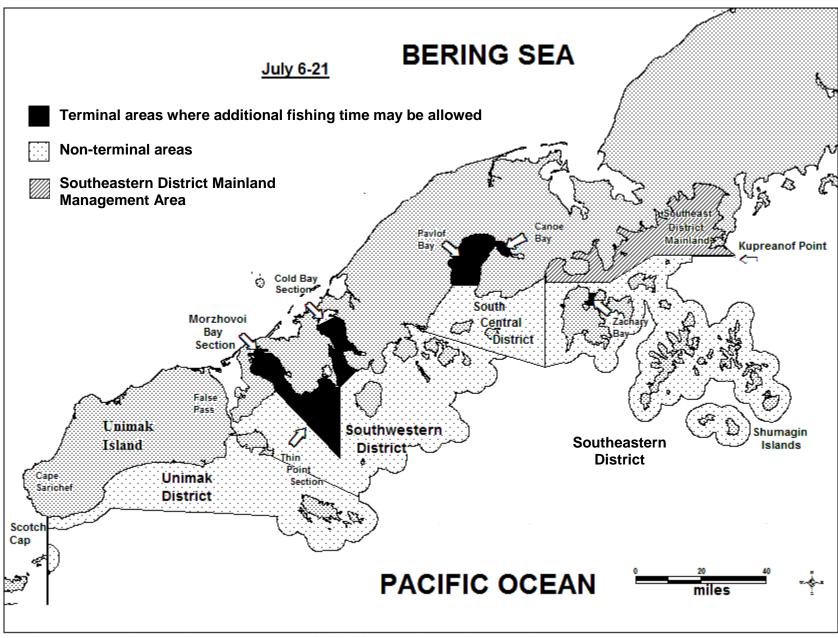


Figure 6.–South Alaska Peninsula post-June terminal fishing areas from July 6 through July 21.

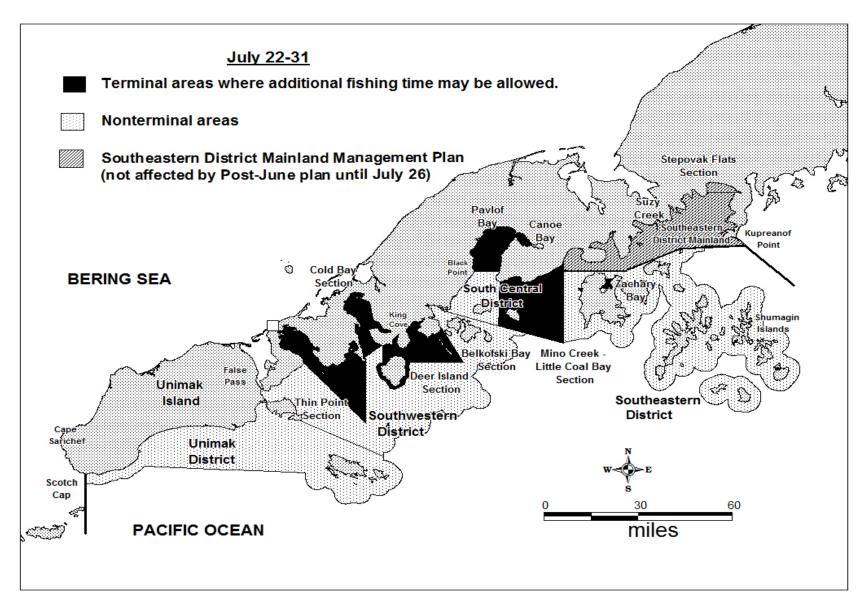


Figure 7.—South Alaska Peninsula post-June terminal fishing areas from July 22 through July 31.