

Fishery Management Report No. 13-17

**South Unimak and Shumagin Islands June Fisheries
Salmon Management Plan, 2013**

by

Aaron D. Poetter

and

Nathaniel W. Nichols

April 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		<i>all standard mathematical</i>	
deciliter	dL	Code	AAC	<i>signs, symbols and</i>	
gram	g	all commonly accepted		<i>abbreviations</i>	
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, χ^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)	°
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 ₀
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	
Physics and chemistry		months (tables and		(rejection of the null	
all atomic symbols		figures): first three		hypothesis when true)	α
alternating current	AC	letters	Jan, ..., Dec	probability of a type II error	
ampere	A	registered trademark	®	(acceptance of the null	
calorie	cal	trademark	™	hypothesis when false)	β
direct current	DC	United States		second (angular)	"
hertz	Hz	(adjective)	U.S.	standard deviation	SD
horsepower	hp	United States of		standard error	SE
hydrogen ion activity	pH	America (noun)	USA	variance	
(negative log of)		U.S.C.	United States	population	Var
parts per million	ppm		Code	sample	var
parts per thousand	ppt,	U.S. state	use two-letter		
	‰		abbreviations		
			(e.g., AK, WA)		
volts	V				
watts	W				

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Aaron D. Poetter

Alaska Department of Fish and Game, Division of Commercial Fisheries, Kodiak

and

Nathaniel W. Nichols

Alaska Department of Fish and Game, Division of Commercial Fisheries, Kodiak

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

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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.

*Aaron D. Poetter
And
Nathaniel W. Nichols
Alaska Department of Fish and Game, Division of Commercial Fisheries
351 Research Court, Kodiak, AK 99615, USA*

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ABSTRACT

The South Unimak and Shumagin Islands June commercial salmon fisheries occur in the Alaska Peninsula Management Area (Area M) and target sockeye salmon *Oncorhynchus nerka*. The South Unimak June fishery includes the Unimak and Southwestern districts plus the Bechevin Bay, West Pavlof Bay, and East Pavlof Bay sections. The Shumagin Islands June fishery includes only the Shumagin Islands Section of the Southeastern District. The set gillnet season will begin at 6:00 AM June 7, consist of four 88-hour fishing periods separated by 32-hour closures, followed by a final 64-hour fishing period, and end at 10:00 PM June 29. The purse seine and drift gillnet seasons will begin at 6:00 AM June 10, consist of four 88-hour fishing periods separated by 32-hour closures, and end at 10:00 PM June 28. This document summarizes the strategy for management of the Alaska Peninsula June fisheries and outlines the requirements of industry to participate in these fisheries in 2013.

Key words: Alaska Peninsula, Area M, Shumagin Islands, South Unimak, June fishery, commercial fisheries, sockeye salmon, *Oncorhynchus nerka*, management plan, Alaska Department of Fish and Game, Fishery Management Report.

INTRODUCTION

This document provides commercial fishermen and processors with the Alaska Department of Fish and Game (ADF&G) harvest strategy for the South Unimak and Shumagin Islands June salmon fisheries. It also outlines the requirements of the industry to participate in these fisheries as well as how to provide information to ADF&G.

The South Unimak and Shumagin Islands June commercial salmon fisheries occur in the Alaska Peninsula Management Area (Area M) and target sockeye salmon *Oncorhynchus nerka*. The South Unimak June fishery occurs in the Unimak and Southwestern districts, plus the Bechevin Bay, and East and West Pavlof Bay sections (Figure 1). The Shumagin Islands June fishery includes the Shumagin Islands Section of the Southeastern District. During the most recent 10 years (2003–2012), the South Unimak sockeye salmon harvest averaged 651,855 fish during the June fishery (Table 1) while the Shumagin Islands sockeye salmon harvest averaged 539,702 fish (Table 2). The average June fishery sockeye salmon harvest from 2003–2012 was 1,191,556 fish (Table 3).

ANNOUNCEMENTS

Inseason announcements will be broadcast over radio station KSDP (frequency 830 AM) in Sand Point and translated over K201DA (88.1 MHz FM) in King Cove, and on VHF channels 6 and 73 daily at 9:30 AM and 5:00 PM. Recorded information may also be obtained from ADF&G in Sand Point at 907-383-2334 (383-ADFG) and 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

All buyers must report their salmon purchases daily by species (in both numbers of fish and pounds), and number of deliveries by gear type to either the ADF&G office in Sand Point or Cold Bay (5 AAC 39.130 (c)). Buyers must provide the department with catch reports by 9:30 AM the morning after purchases take place. However, earlier reporting is appreciated and helpful in conducting an orderly fishery. Contact can be made over VHF 6 and SSB 3.230 MHz. Buyers may also phone, fax, or e-mail their information to ADF&G offices in Sand Point or Cold Bay:

Sand Point Phone: 907-383-2066 Fax: 907-383-2606 E-mail: aaron.poetter@alaska.gov ;
nathaniel.nichols@alaska.gov

Cold Bay Phone: 907-532-2419 Fax: 907-532-2470 E-mail: aaron.poetter@alaska.gov

Properly filled out fish tickets are essential to the management of these fisheries. An informational packet containing detailed instructions on filling out and submitting fish tickets is available to all fish transporters, tender operators, and processor/buyers at ADF&G offices in Sand Point and Cold Bay. Fish tickets must be delivered to the ADF&G offices in Sand Point or Cold Bay (addresses listed below) within seven days of the purchase date.

Alaska Department of Fish and Game
P.O. Box 129
Sand Point, AK 99661

Alaska Department of Fish and Game
P.O. Box 50
Cold Bay, AK 99571

ALASKA BOARD OF FISHERIES REGULATION CHANGES FROM THE FEBRUARY 2013 MEETING

During the February 2013 meeting, the Alaska Board of Fisheries (BOF) made changes to the June Salmon Management Plan (5AAC 09.365) seine and drift gillnet fishing schedule; while the set gillnet schedule remained unchanged (Figure 2). The amount of fishing opportunity for seine and drift gillnet gear was reduced by 64 hours and the opener for the first fishing period was changed from June 7 to June 10. The new schedule for seine and drift gillnet gear begins the season at 6:00 AM June 10, consist of four 88-hour fishing periods separated by 32-hour closures, and ends the season at 10:00 PM June 28 (Figure 3).

2013 MANAGEMENT PLAN

The South Unimak and Shumagin Islands June Salmon Management Plan (5 AAC 09.365) is in effect from June 7 through June 29. Complete details can be found in the Alaska Peninsula commercial salmon fishing regulations available at your local ADF&G office.

The South Unimak June fishery includes the following locations (Figure 1):

- a. Unimak District as described in 5 AAC 09.200 (c),
- b. Bechevin Bay Section as described in 5 AAC 09.200 (b)(2),
- c. Southwestern District as described in 5 AAC 09.200 (d), and
- d. West Pavlof Bay and East Pavlof Bay sections of the South Central District as described in 5 AAC 09.200 (e)(1) and (2).

The Shumagin Islands fishery includes the Shumagin Islands Section of the Southeastern District (Figure 1) as described in 5 AAC 09.200 (f)(3).

Fishing periods for the 2013 June set gillnet fishery will be as follows (Figure 2):

<u>Dates and Times</u>	<u>Duration</u>
6:00 AM Friday, June 7 until 10:00 PM Monday, June 10	88 hours
6:00 AM Wednesday, June 12 until 10:00 PM Saturday, June 15	88 hours
6:00 AM Monday, June 17 until 10:00 PM Thursday, June 20	88 hours
6:00 AM Saturday, June 22 until 10:00 PM Tuesday, June 25	88 hours
6:00 AM Thursday, June 27 until 10:00 PM Saturday, June 29	64 hours

Fishing periods for the 2013 June seine and drift gillnet fishery will be as follows (Figure 3):

<u>Dates and Times</u>	<u>Duration</u>
6:00 AM Monday, June 10 until 10:00 PM Thursday, June 13	88 hours
6:00 AM Saturday, June 15 until 10:00 PM Tuesday, June 18	88 hours
6:00 AM Thursday, June 20 until 10:00 PM Sunday, June 23	88 hours
6:00 AM Tuesday, June 25 until 10:00 PM Friday, June 28	88 hours

Fishermen should be aware that waters closed to commercial salmon fishing, as specified under 5 AAC 09.350 are in effect during June.

Latitude and longitude coordinates in the Alaska Peninsula Management Area will be determined and enforced using the Global Positioning System (GPS; North American Datum of 1983).

Gillnet fishermen are reminded that the South Unimak and Shumagin Islands June fisheries are the only fisheries in the South Peninsula that have no minimum gillnet mesh size restrictions.

TABLES AND FIGURES

Table 1.—Number of salmon commercially harvested in the South Unimak June fishery, by species, 2003–2012.

Year	Number of Salmon ^a					
	Chinook	Sockeye	Coho	Pink	Chum	Total
2003	373	335,903	14	90,161	121,169	547,620
2004	670	531,955	159	78,808	130,626	742,218
2005	790	437,443	56	403,815	143,799	985,903
2006	1,472	491,053	432	186,096	96,016	775,069
2007	976	737,642	151	57,032	153,334	949,135
2008	1,317	1,064,570	152	800,265	284,449	2,150,753
2009	1,394	595,221	6	946,823	200,783	1,744,227
2010	1,474	487,880	1	190,649	100,427	780,431
2011	2,257	937,168	17	475,289	231,081	1,645,812
2012	4,554	899,710	10	169,896	211,700	1,285,870
2003–2012						
Average	1,528	651,855	100	339,883	167,338	1,160,704

^a Numbers of salmon do not include test fishery catches.

Table 2.—Number of salmon commercially harvested in the Shumagin Islands June fishery, by species, 2003–2012.

Year	Number of Salmon ^a					
	Chinook	Sockeye	Coho	Pink	Chum	Total
2003	950	117,244	139	127,739	161,269	407,341
2004	3,753	816,118	462	281,108	351,683	1,453,124
2005	2,265	566,952	1,863	1,251,144	284,031	2,106,255
2006	3,025	441,238	2,197	1,146,223	203,811	1,796,494
2007	3,660	852,198	1,482	210,496	144,205	1,212,041
2008	1,640	649,005	26	1,171,003	126,483	1,948,157
2009	2,442	572,697	197	1,301,732	495,992	2,373,060
2010	1,644	330,985	26	141,786	171,273	645,714
2011	1,207	422,273	107	247,846	192,254	863,687
2012	1,817	628,308	2	89,716	180,605	900,448
2003–2012						
Average	2,240	539,702	650	596,879	231,161	1,370,632

^a Numbers of salmon do not include test fishery catches.

Table 3.—Number of salmon commercially harvested in the South Unimak and Shumagin Islands June fisheries, by species, 2003–2012.

Year	Number of Salmon ^a					Total
	Chinook	Sockeye	Coho	Pink	Chum	
2003	1,323	453,147	153	217,900	282,438	954,961
2004	4,423	1,348,073	621	359,916	482,309	2,195,342
2005	3,055	1,004,395	1,919	1,654,959	427,830	3,092,158
2006	4,497	932,291	2,629	1,332,319	299,827	2,571,563
2007	4,636	1,589,840	1,633	267,528	297,539	2,161,176
2008	2,957	1,713,575	178	1,971,268	410,932	4,098,910
2009	3,836	1,167,918	203	2,248,555	696,775	4,117,287
2010	3,118	818,865	27	332,435	271,700	1,426,145
2011	3,464	1,359,441	124	723,135	423,335	2,509,499
2012	6,371	1,528,018	12	259,612	392,305	2,186,318
2003–2012						
Average	3,768	1,191,556	750	936,763	398,499	2,531,336

^a Numbers of salmon do not include test fishery catches.

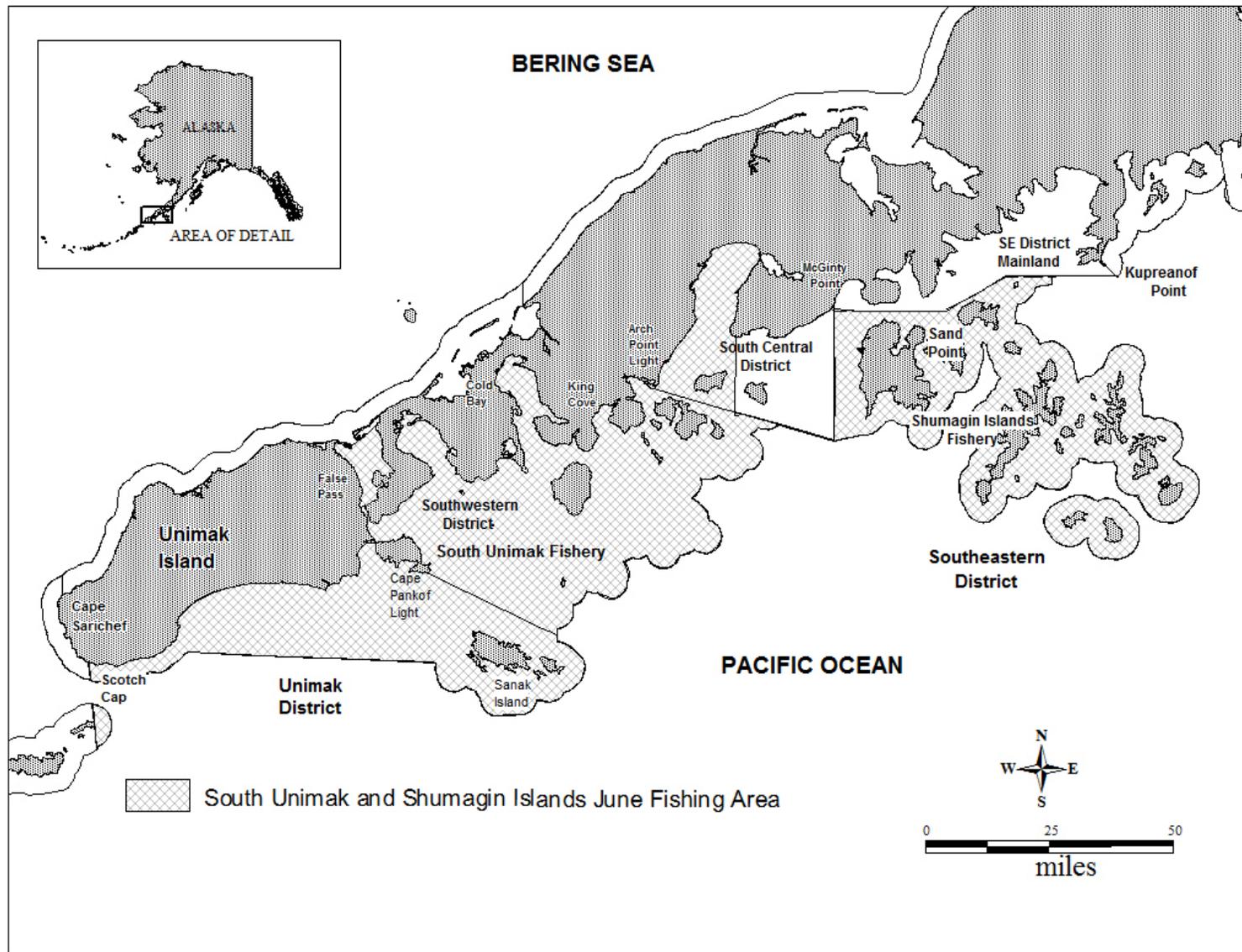


Figure 1.—Map depicting the locations of the South Unimak and Shumagin Islands June fisheries.

June 2013 Set Gillnet Schedule

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: All fishing periods start at 6:00 AM and end at 10:00 PM. All closures between fishing periods are 32 hours in duration.						1
2	3	4	5	6	7	8
					6:00 AM	Open 88 hours
9	10	11	12	13	14	15
10:00 PM	Open 88 hours					10:00 PM
16	17	18	19	20	21	22
	6:00 AM	Open 88 hours			10:00 PM	6:00 AM
23	24	25	26	27	28	29
Open 88 hours		10:00 PM		6:00 AM	Open 64 hours	
30						

Figure 2.—Set gillnet fishing periods in the South Unimak and Shumagin Islands June fisheries, 2013.

June 2013 Seine and Drift Gillnet Schedule							
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Notes: All fishing periods start at 6:00 AM and end at 10:00 PM. All fishing periods are 88 hours in duration. All closures between fishing periods are 32 hours in duration.						1	
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
	6:00 AM	Open 88 hours				10:00 PM	6:00 AM
16	17	18	19	20	21	22	
Open 88 hours			10:00 PM		6:00 AM	Open 88 hours	
23	24	25	26	27	28	29	
10:00 PM		6:00 AM	Open 88 hours			10:00 PM	
30							

Figure 3.–Seine and drift gillnet fishing periods in the South Unimak and Shumagin Islands June fisheries, 2013.