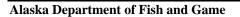
# South Unimak and Shumagin Islands June Fisheries Salmon Management Plan, 2011

by

**Aaron D. Poetter** 

April 2011



**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	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	Е	(multiple)	R
Weights and measures (English)		north	N	correlation coefficient	
cubic feet per second	ft <sup>3</sup> /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	<u> </u>
yard	yu	et cetera (and so forth)	etc.	logarithm (natural)	ln
Time and temperature		exempli gratia	cic.	logarithm (base 10)	log
day	d	(for example)	e.g.	logarithm (specify base)	$\log_2$ etc.
day degrees Celsius	°C	Federal Information	0.5.	minute (angular)	10g <sub>2</sub> , etc.
degrees Fahrenheit	°F	Code	FIC	not significant	NS
degrees kelvin	K	id est (that is)	i.e.	null hypothesis	H <sub>O</sub>
hour	h	latitude or longitude	lat. or long.	percent	н <sub>о</sub> %
minute	min	monetary symbols	iat. or long.	probability	70 P
second		(U.S.)	\$,¢	probability of a type I error	r
second	S	months (tables and	Ψ, γ	(rejection of the null	
Dhysics and shamistary		figures): first three			0.
Physics and chemistry		letters	Jan,,Dec	hypothesis when true)	α
all atomic symbols	AC	registered trademark	®	probability of a type II error	
alternating current	AC A	trademark	TM	(acceptance of the null hypothesis when false)	ρ
ampere calorie	cal	United States			β
direct current	DC	(adjective)	U.S.	second (angular) standard deviation	SD
	Hz	United States of	0.3.	standard deviation	SE SE
hertz		America (noun)	USA		SE
horsepower	hp	U.S.C.	United States	variance	Von
hydrogen ion activity	pН	U.S.C.	Code	population	Var
(negative log of)		U.S. state	use two-letter	sample	var
parts per million	ppm	O.S. State	abbreviations		
parts per thousand	ppt,		(e.g., AK, WA)		
1.	‰ •		(		
volts	V				
watts	W				

#### FISHERY MANAGEMENT REPORT NO. 11-21

## SOUTH UNIMAK AND SHUMAGIN ISLANDS JUNE FISHERIES SALMON MANAGEMENT PLAN, 2011

by Aaron D. Poetter 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

> > April 2011

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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 season will begin 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 10:00 PM June 29. This document summarizes the strategy for management of the Alaska Peninsula June fishery and outlines the requirements of industry to participate in these fisheries in 2011.

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,

Fisheries Management Report, FMR.

#### 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 the department.

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 West and East 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 (2001-2010), the South Unimak sockeye salmon harvest averaged 515,937 fish during the June fishery (Table 1) while the Shumagin Islands sockeye salmon harvest averaged 461,047 fish (Table 2). The average June fishery sockeye salmon harvest from 2001-2010 was 976,984 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. Announcements can also be found at the following 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

Cold Bay Phone: 907-532-2419 Fax: 907-532-2470 E-mail: matthew.keyse@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

Alaska Department of Fish and Game

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

Sand Point, AK 99661 Cold Bay, AK 99571

#### ALASKA BOARD OF FISHERIES REGULATION CHANGES FROM THE FEBRUARY 2010 MEETING

During the February 2010 meeting, the Alaska Board of Fisheries (board) made no changes to the June Management Plan (5AAC 09.365). The board did, however, increase the length of seine lead that can be used with set gillnet gear from 10 fathoms to 25 fathoms. This gear modification will be in effect for the entire salmon fishing season in waters within the South Alaska Peninsula Management Area.

#### **2011 MANAGEMENT PLAN**

The South Unimak and Shumagin Islands June Fishery 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 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 2011 June fishery will be as follows (Figure 2):

Dates and Times	Duration
6:00 AM Tuesday, June 7 until 10:00 PM Friday, June 10	88 hours
6:00 AM Sunday, June 12 until 10:00 PM Wednesday, June 15	88 hours
6:00 AM Friday, June 17 until 10:00 PM Monday, June 20	88 hours
6:00 AM Wednesday, June 22 until 10:00 PM Saturday, June 25	88 hours
6:00 AM Monday, June 27 until 10:00 PM Wednesday, June 29	64 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, 2001-2010.

Year		Number of Fish <sup>a</sup>						
	Chinook	Sockeye	Coho	Pink	Chum	Total		
2001	134	121,547	2	31,812	36,099	189,594		
2002	433	356,157	3	33,789	201,211	591,593		
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		
2001-2010								
Average	903	515,937	98	281,925	146,791	945,654		

<sup>&</sup>lt;sup>a</sup> Numbers of salmon do not include test fish catches.

Table 2.–Number of salmon commercially harvested in the Shumagin Islands June fishery, by species, 2001–2010.

	Number of Fish <sup>a</sup>						
Year	Chinook	Sockeye	Coho	Pink	Chum	Total	
2001	211	29,085	0	7,439	12,251	48,986	
2002	2,010	234,949	1	42,462	177,606	457,028	
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	
2001-2010							
Average	2,160	461,047	639	568,113	212,860	1,244,820	

<sup>&</sup>lt;sup>a</sup> Numbers of salmon do not include test fish catches.

Table 3.–Number of salmon commercially harvested in the South Unimak and Shumagin Islands June fisheries, by species, 2001–2010.

	Number of Fish <sup>a</sup>					
Year	Chinook	Sockeye	Coho	Pink	Chum	Total
2001	345	150,632	2	39,251	48,350	238,580
2002	2,443	591,106	4	76,251	378,817	1,048,621
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
2001-2010						
Average	3,063	976,984	737	850,038	359,652	2,190,474

<sup>&</sup>lt;sup>a</sup> Numbers of salmon do not include test fish catches.

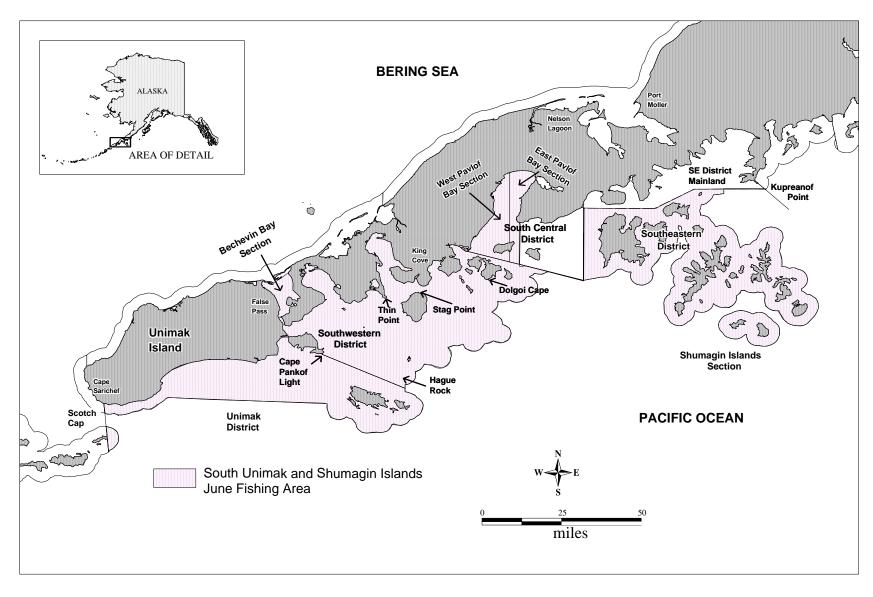


Figure 1.—Map depicting the locations of the South Unimak and Shumagin Islands June fisheries.

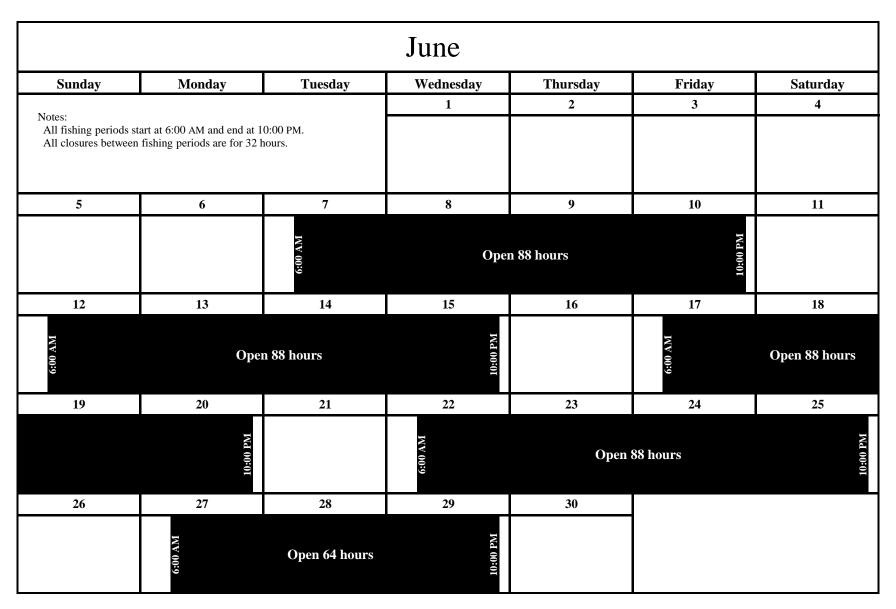


Figure 2.–Fishing time in South Unimak and Shumagin Islands June fisheries, 2011.