

**Fishery Management Report No. 06-15**

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**South Unimak and Shumagin Islands June Fisheries  
Salmon Management Plan, 2006**

by

**Philip Tschersich**

and

**Charles Burkey Jr.**

March 2006

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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.

<b>Weights and measures (metric)</b>		<b>General</b>		<b>Measures (fisheries)</b>	
centimeter	cm	Alaska Administrative Code	AAC	fork length	FL
deciliter	dL			mid-eye-to-fork	MEF
gram	g	all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.	mid-eye-to-tail-fork	METF
hectare	ha			standard length	SL
kilogram	kg	all commonly accepted		total length	TL
kilometer	km				
liter	L	professional titles	e.g., Dr., Ph.D., R.N., etc.		
meter	m			<b>Mathematics, statistics</b>	
milliliter	mL	at	@	<i>all standard mathematical signs, symbols and abbreviations</i>	
millimeter	mm	compass directions:		alternate hypothesis	H <sub>A</sub>
		east	E	base of natural logarithm	<i>e</i>
		north	N	catch per unit effort	CPUE
<b>Weights and measures (English)</b>		south	S	coefficient of variation	CV
cubic feet per second	ft <sup>3</sup> /s	west	W	common test statistics	(F, t, $\chi^2$ , etc.)
foot	ft	copyright	©	confidence interval	CI
gallon	gal	corporate suffixes:		correlation coefficient (multiple)	R
inch	in	Company	Co.	correlation coefficient (simple)	r
mile	mi	Corporation	Corp.	covariance	cov
nautical mile	nmi	Incorporated	Inc.	degree (angular)	°
ounce	oz	Limited	Ltd.	degrees of freedom	df
pound	lb	District of Columbia	D.C.	expected value	<i>E</i>
quart	qt	et alii (and others)	et al.	greater than	>
yard	yd	et cetera (and so forth)	etc.	greater than or equal to	≥
		exempli gratia	e.g.	harvest per unit effort	HPUE
<b>Time and temperature</b>		(for example)		less than	<
day	d	Federal Information Code	FIC	less than or equal to	≤
degrees Celsius	°C	id est (that is)	i.e.	logarithm (natural)	ln
degrees Fahrenheit	°F	latitude or longitude	lat. or long.	logarithm (base 10)	log
degrees kelvin	K	monetary symbols		logarithm (specify base)	log <sub>2</sub> , etc.
hour	h	(U.S.)	\$. ¢	minute (angular)	'
hour	h	months (tables and figures): first three letters	Jan,...,Dec	not significant	NS
minute	min	registered trademark	®	null hypothesis	H <sub>0</sub>
second	s	trademark	™	percent	%
		United States (adjective)	U.S.	probability	P
<b>Physics and chemistry</b>		United States of America (noun)	USA	probability of a type I error (rejection of the null hypothesis when true)	$\alpha$
all atomic symbols		U.S.C.	United States Code	probability of a type II error (acceptance of the null hypothesis when false)	$\beta$
alternating current	AC	U.S. state	use two-letter abbreviations (e.g., AK, WA)	second (angular)	"
ampere	A			standard deviation	SD
calorie	cal			standard error	SE
direct current	DC			variance	
hertz	Hz			population	Var
horsepower	hp			sample	var
hydrogen ion activity (negative log of)	pH				
parts per million	ppm				
parts per thousand	ppt, ‰				
volts	V				
watts	W				

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**SOUTH UNIMMAK AND SHUMAGIN ISLANDS JUNE FISHERIES  
SALMON MANAGEMENT PLAN, 2006**

by

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## **ABSTRACT**

The South Unimak (False Pass) 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 fishery includes only the Shumagin Islands Section of the Southeastern District. The season will consist of four 88-hour fishing periods interspersed with 32-hour closures followed by a final 64-hour fishing period, beginning 6:00 AM June 7 and ending 10:00 PM June 29. 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 2006.

Key words: Alaska Peninsula, Area M, False Pass, Shumagin Islands, South Unimak, June fishery, commercial fisheries, salmon, management plan.

## **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 relay 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*. Historically, sockeye salmon abundance peaks in the fishery between June 13 and June 22, and usually declines rapidly after June 22. The South Unimak fishery includes the Unimak and Southwestern Districts plus the Bechevin Bay, West Pavlof Bay, and East Pavlof Bay Sections (Figure 1). The Shumagin Islands fishery includes the Shumagin Islands Section of the Southeastern District. During the most recent 10 years, the South Unimak sockeye salmon harvest has averaged 650,753 fish during the June fishery (Table 1) while the Shumagin Islands sockeye salmon harvest averaged 361,233 fish (Table 2). The combined South Unimak and Shumagin Islands June fishery average sockeye salmon harvest during 1996-2005 was 1,011,986 fish (Table 3).

## **ANNOUNCEMENTS**

Inseason announcements will be broadcast over AM radio station KSDP (frequency 830 AM) in Sand Point and translated over K201DA (88.1 MHz FM) in King Cove, VHF channels 6 and 73, and on Single Side Band (SSB) frequencies 3.230, 3.261, and 4.125 MHz. Recorded information may also be obtained from ADF&G in Sand Point at 383-2334 (383-ADFG).

## **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 Cold Bay or Sand Point (5 AAC 39.130 (a)(3)). Processors must provide the department with catch reports before 9:30 AM on the morning after purchases take place. However, earlier reporting is appreciated and helpful in prosecuting an orderly fishery. Contact can be made over VHF 6 and SSB 3.230 or 3.261 MHz. Buyers may also phone, fax, or e-mail their information to ADF&G offices in Cold Bay or Sand Point.

Cold Bay	Phone: 532-2419	Fax: 532-2470	E-mail: daniel_doolittle@fishgame.state.ak.us
Sand Point	Phone: 383-2066	Fax: 383-2606	E-mail: james_jackson@fishgame.state.ak.us

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 Cold Bay and Sand Point. Fish tickets must be delivered to the ADF&G offices in Cold Bay or Sand Point (addresses listed below) within seven days of the purchase date.

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

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

## **2006 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.

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 of the Northwestern District 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) (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 2006 South Unimak and Shumagin Islands June fisheries will be as follows (Figure 2):

<u>Dates and Times</u>	<u>Duration</u>
6:00 AM Wednesday June 7 until 10:00 PM Saturday June 10	88 hours
6:00 AM Monday June 12 until 10:00 pm Thursday June 15	88 hours
6:00 AM Saturday June 17 until 10:00 pm Tuesday June 20	88 hours
6:00 AM Thursday June 22 until 10:00 pm Sunday June 25	88 hours
6:00 AM Tuesday June 27 until 10:00 pm Thursday 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. In addition, waters near Sanak Island will be closed to commercial salmon fishing by emergency order through June 30 to avoid the harvest of chum salmon *O. keta*. Although there is no stock information about the chum salmon in this area, a closure of this section will minimize the chum salmon harvest. Closed waters are south of the latitude of Hague Rock (54<sup>0</sup> 33.06' N lat.) and east of the longitude of Cape Pankof Light (163<sup>0</sup> 03.60' W long.; Figure 1).

Fishermen are reminded that 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 fishery are the only fisheries in the South Peninsula that have no minimum gillnet mesh size.

In the past, large numbers of immature salmon have occasionally been harvested by seine gear during June. ADF&G will consider closing areas to fishing with seine gear if this occurs in 2006.



## **TABLES AND FIGURES**

**Table 1.-**South Unimak June Fishery commercial salmon harvest, in numbers of fish, by species, 1995-2005.

Year	Number of Fish <sup>a</sup>					
	Chinook	Sockeye	Coho	Pink	Chum	Total
1995	7,850	1,451,490	5,102	119,094	342,307	1,925,843
1996	1,228	572,495	11,730	146,799	129,889	862,141
1997	3,041	1,179,179	501	332,262	196,016	1,710,999
1998	1,259	974,628	312	125,906	195,454	1,297,559
1999	2,258	1,106,208	1	20,302	186,886	1,315,655
2000	2,064	892,016	303	210,521	168,888	1,273,792
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
1996-2005						
Average	1,225	650,753	1,308	147,418	151,004	951,707

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

**Table 2.-**Shumagin Islands June Fishery commercial salmon harvest, in numbers of fish, by species, 1995-2005.

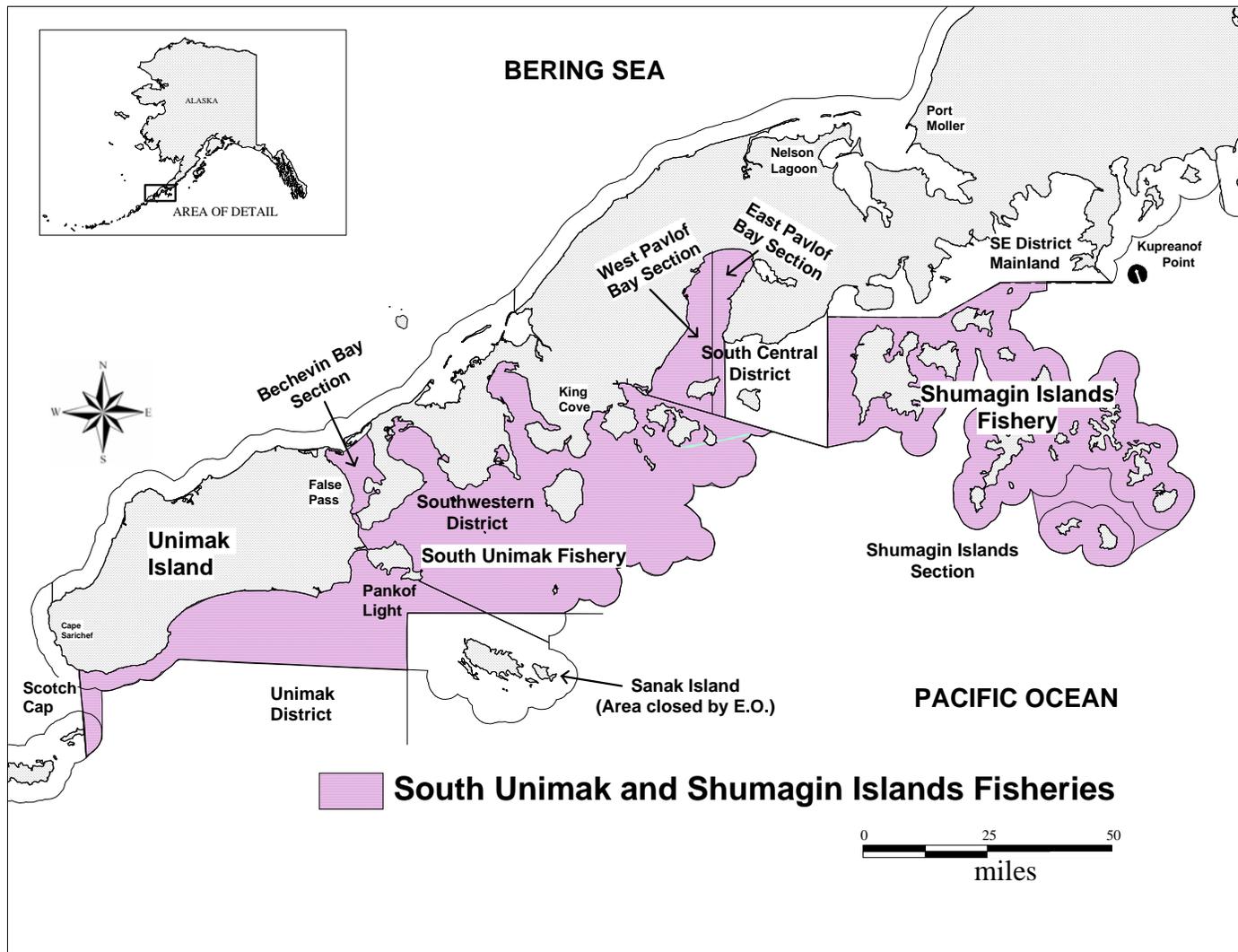
Year	Number of Fish <sup>a</sup>					
	Chinook	Sockeye	Coho	Pink	Chum	Total
1995	6,897	653,831	940	59,541	195,126	916,335
1996	1,617	456,475	1,489	230,885	229,931	920,397
1997	2,770	449,002	59	273,675	126,309	851,815
1998	1,437	314,097	164	348,434	50,165	714,297
1999	793	269,191	1	10,237	58,420	338,642
2000	785	359,212	1	149,508	70,469	579,975
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	3,735	816,118	462	281,108	351,683	1,453,106
2005	2,265	566,952	1,863	1,251,144	284,031	2,106,255
1996-2005						
Average	1,657	361,233	418	272,263	152,213	787,784

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

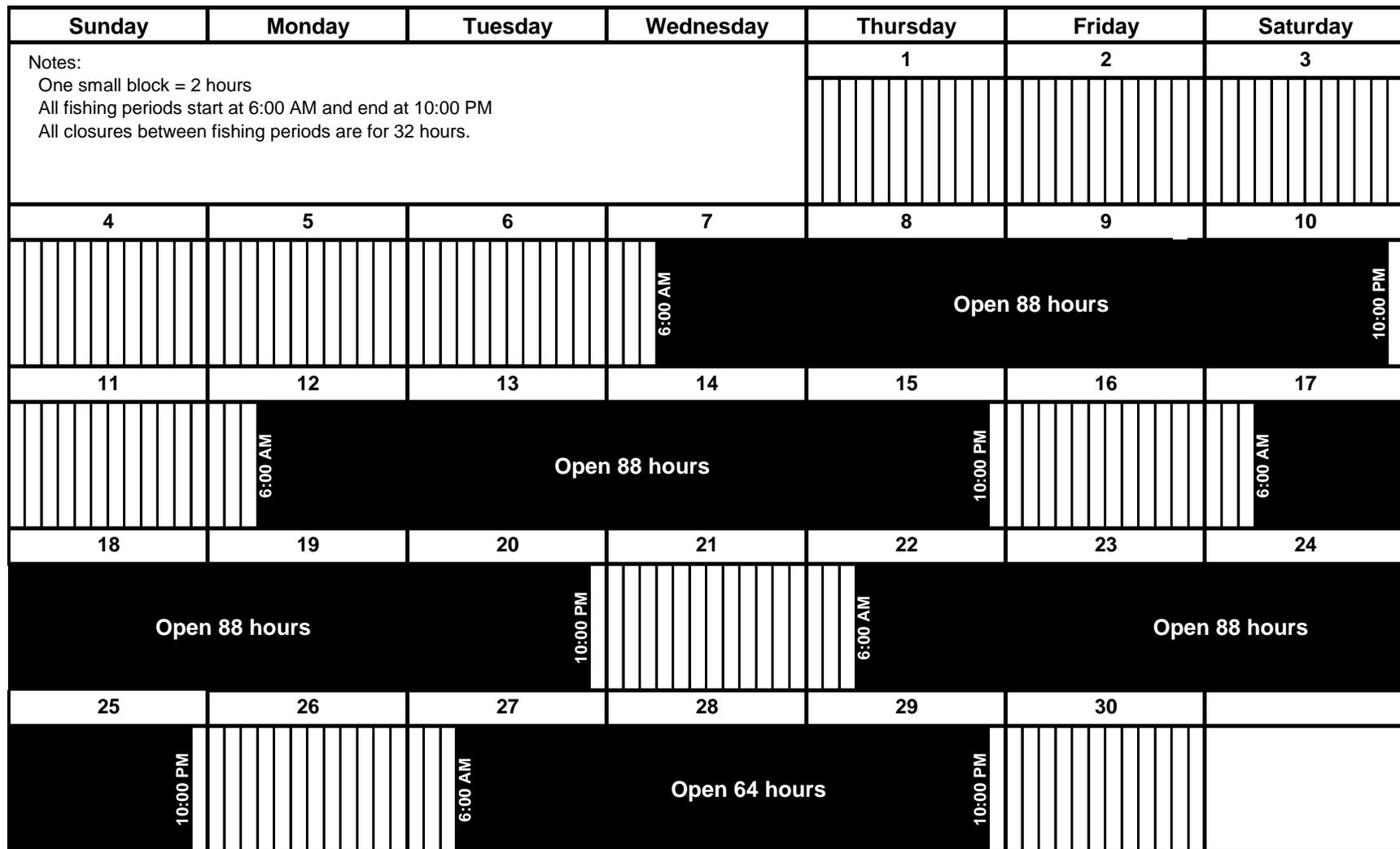
**Table 3.-**Combined South Unimak-Shumagin Islands June Fisheries commercial salmon harvest, in numbers of fish, by species, 1995-2005.

Year	Number of Fish <sup>a</sup>					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1995	14,747	2,105,321	6,042	178,635	537,433	2,842,178
1996	2,845	1,028,970	13,219	377,684	359,820	1,782,538
1997	5,811	1,628,181	560	605,937	322,325	2,562,814
1998	2,696	1,288,725	476	474,340	245,619	2,011,856
1999	3,051	1,375,399	2	30,539	245,306	1,654,297
2000	2,849	1,251,228	304	360,029	239,357	1,853,767
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
1996-2005						
Average	2,884	1,011,986	1,726	419,681	303,217	1,739,493

<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, 2006.