

**Fishery Management Report No. 06-43**

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**Bottom Trawl Survey of Crab and Groundfish:  
Kodiak, Chignik, South Peninsula, and Eastern  
Aleutian Management Districts, 2005**

by

**Kally Spalinger**

July 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)	'
minute	min	months (tables and figures): first three letters	Jan,...,Dec	not significant	NS
second	s	registered trademark	®	null hypothesis	H <sub>0</sub>
		trademark	™	percent	%
<b>Physics and chemistry</b>		United States (adjective)	U.S.	probability	P
all atomic symbols		United States of America (noun)	USA	probability of a type I error (rejection of the null hypothesis when true)	$\alpha$
alternating current	AC	U.S.C.	United States Code	probability of a type II error (acceptance of the null hypothesis when false)	$\beta$
ampere	A	U.S. state	use two-letter abbreviations (e.g., AK, WA)	second (angular)	"
calorie	cal			standard deviation	SD
direct current	DC			standard error	SE
hertz	Hz			variance	
horsepower	hp			population	Var
hydrogen ion activity (negative log of)	pH			sample	var
parts per million	ppm				
parts per thousand	ppt, ‰				
volts	V				
watts	W				

***FISHERY MANAGEMENT REPORT NO. 06-43***

**BOTTOM TRAWL SURVEY OF CRAB AND GROUND FISH: KODIAK,  
CHIGNIK, SOUTH PENINSULA, AND EASTERN ALEUTIAN  
MANAGEMENT DISTRICTS, 2005**

by

Kally Spalinger

*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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*Kally Spalinger,  
Alaska Department of Fish and Game, Division of Commercial Fisheries,  
211 Mission Road, Kodiak, Alaska 99615, USA*

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## ABSTRACT

A trawl survey of the Kodiak, Chignik, South Peninsula, and Eastern Aleutian Management Districts was conducted from June through September 2005. For each of the 391 tows completed, catch composition was determined, population levels of commercially-important crabs were estimated, and relative densities of commercially-important groundfish were derived from survey data. In the Northeast, Eastside, Southeast, and Southwest Sections of Kodiak District, Tanner crab *Chionoecetes bairdi* abundance was above the minimum population level thresholds required by regulation to open a fishery. The Tanner crab population levels in the Chignik District and Western Section of the South Peninsula District were also above the minimum levels required by regulation to open a commercial fishery. The red king crab *Paralithodes camtschaticus* population levels in each of the surveyed registration areas were below the minimum levels required to open the fishery. A 2005 survey of bitter crab syndrome in Alitak Bay showed a decrease in the population of infected crabs from the previous year. Flathead sole *Hippoglossoides elassodon*, arrowtooth flounder *Atheresthes stomias*, and walleye pollock *Theragra chalcogramma* dominated the groundfish catch in all of the areas surveyed. Pacific cod *Gadus macrocephalus* were tagged and released alive to identify migration and growth patterns.

Key words: crab, groundfish, *Paralithodes*, *Chionoecetes*, trawl survey, Kodiak, South Peninsula, Chignik, Eastern Aleutian, bitter crab syndrome, *Gadus macrocephalus*

## INTRODUCTION

The Alaska Department of Fish and Game (ADF&G) conducted bottom trawl surveys during 2005, focusing on inshore waters around Kodiak Island, along the Alaska Peninsula from Cape Douglas to False Pass, and in the Eastern Aleutian Islands from Akun to Umnak Island (Figure 1). The survey area included the Kodiak, Alaska Peninsula, and Aleutian Islands Registration areas for red king crab *Paralithodes camtschaticus*, defined by 5 AAC 34.400, 5 AAC 34.500, and 5 AAC 34.600, which corresponds to the Kodiak, Chignik, South Peninsula, and Eastern Aleutian Districts of the Westward Registration area for Tanner crab *Chionoecetes bairdi*, defined by 5 AAC 35.505, and the Kodiak, Chignik, and South Alaska Peninsula Registration Areas for groundfish defined by 5 AAC 28.400, 5 AAC 28.500, and 5 AAC 28.550. This report refers to Tanner crab management units as districts and king crab and groundfish management units as areas.

ADF&G began conducting bottom trawl surveys in the Westward Region in 1963. Early surveys targeted Long Island Bank (Reynolds and Powell 1964), Marmot Flats (McMullen 1967a), Portlock Bank (McMullen 1967b), Albatross Bank (McMullen 1968), Alitak and Kaguyak Bays (Kingsbury and James 1971) in the Kodiak District, and Chignik and Pavlof Bays in the Alaska Peninsula District (Colgate and Hicks 1983; Colgate 1984). Trawl surveys have gradually replaced pots for crab stock assessment, because they are faster and sample a wider range of crab sizes (Jackson 1990). The last pot survey was conducted in 1987. Trawl surveys in the Eastern Aleutian District did not begin until 1990 and generally continued on a triennial basis until 2003, when we began annually surveying bays that showed high Tanner crab abundance.

Since 1988, between 287 and 423 hauls have been completed annually during the Westward Region trawl surveys (Table 1). In recent years, the trawl survey has become increasingly important for groundfish assessment. The National Marine Fisheries Service (NMFS) has been incorporating population estimates, and biological information collected from walleye pollock *Theragra chalcogramma* during the survey into their Stock Assessment and Fishery Evaluation (SAFE) report to determine annual harvest levels.

Tanner crab fisheries were closed due to low population abundance from 1994 to 2000 in the Kodiak District, from 1990 to 2000 and again from 2002 to 2004 in the South Peninsula District,

and from 1990 to 2004 in the Chignik District. In 1999, ADF&G developed a new Tanner crab management harvest strategy that set minimum threshold population levels for reopening these areas to commercial fishing. This brought Tanner crab management into compliance with Alaska Board of Fisheries (BOF) regulations on harvest strategies for the Chignik, South Peninsula and Kodiak Districts (Urban et al. 1999). The threshold was defined as half the long-term average abundance of the number of mature males (carapace width  $\geq 115$  mm) (Urban and Vining 1999). Guideline harvest levels (GHL) are determined by estimating the number of molting mature males in a given district or section and then applying a harvest rate. Additional precautionary measures are applied to the harvest strategy when Tanner crab stocks are rebuilding to ensure conservative management (Urban and Vining 1999). From 2001 to 2005, Tanner crab was opened to fishing in the Northeast and Eastside Sections of the Kodiak District. The Southeast Section was opened in 2004, 2005, and 2006, and the Southwest Section opened in 2005 and 2006. Both Chignik and the South Peninsula Districts also opened for Tanner crab fishing in 2005 and 2006, however in 2006 the South Peninsula District was divided into two sections and only the Western Section was opened.

The primary objectives of the 2005 crab and groundfish survey were to estimate the abundance and condition of Tanner and red king crab populations and determine species composition and length frequency distributions for commercially-important groundfish. Secondary objectives were to document the prevalence of bitter crab syndrome affecting Tanner crab in Alitak Bay and tag Pacific cod *Gadus macrocephalus*.

In addition to these objectives, the study of Tanner crab chela heights in the Marmot Bay area, the differentiation of rock sole *Lepidopsetta* sp. into northern and southern species (Orr and Matarese 2000), and weathervane scallop sampling were incorporated into the 2005 survey. Also, collections of walleye pollock otoliths were taken for NMFS to determine what portion of the population was available to the ADF&G survey. Stomachs were collected from walleye pollock, Pacific cod, arrowtooth flounder *Atheresthes stomias*, Pacific halibut *Hippoglossus stenolepis*, flathead sole *Hippoglossoides elassodon*, and northern rock sole *Lepidopsetta polyxstyra* in Marmot Bay for a NMFS food habits study. Stomachs, dorsal spines, and muscle tissue were collected from spiny dogfish *Squalus acanthius* for the University of Alaska. Pacific cod, Sablefish *Anoplopoma fimbria* and Pacific ocean perch *Sebastes alutus* were collected for the Alaska Department of Environmental Conservation. All skates (*Raja* spp. and *Bathyraja* spp.) were speciated, sexed, and measured. A Tanner crab tagging program initiated in 2004, was continued in 2005. This report documents and summarizes the catch composition of crab from the trawl survey and includes select information on the groundfish catch.

## METHODS

### TRAWL DESCRIPTION AND PROCEDURES

The 27.4 m ADF&G research vessel *Resolution* was used to survey areas of known Tanner crab habitat. One tow was made at each of 378 stations. Additionally, in 2005, thirteen multiple tows were performed in eight offshore stations in the Kodiak District as part of a project to evaluate the accuracy and consistency of Tanner crab estimation methods in large stations (Spalinger 2005b). Results of those tows will be reported in a later publication.

A 400-mesh eastern otter trawl net utilized in the survey was designed to sweep a 12.2 m path. The net was constructed with 10.2 cm stretch mesh at the mouth, 8.9 cm stretch mesh in the

body, and the codend was lined with 3.2 cm stretch mesh liner. This net had a 21.3 m headrope with 18 floats that were 20.3 cm in diameter. The footrope was 29.0 m long with no roller gear or tickler chain. The footrope was weighted with a 1.0 cm diameter chain attached every 25.4 cm to ensure that the footrope tended bottom. The dandylines were 45.7 m long, each consisting of an 18.3 m section of 1.5 cm cable and a pair of 27.4 m sections of 1.3 cm cable, one attached to the top and the other to the bottom of each net wing. Astoria "V" type doors weighing 340 kg and measuring 1.5 m x 2.1 m were used. For diagrams see Spalinger and Cavin 2004.

Survey areas were divided into inshore and offshore sample units, called stations. Offshore stations were approximately 62.8 km<sup>2</sup> and inshore areas were divided into 19.6 km<sup>2</sup> stations. Considerable size variation of some offshore and most inshore stations occurred due to coastline topography. The area (km<sup>2</sup>) used to determine crab and fish habitat at inshore stations was calculated using only depths greater than 20 fathoms (Spalinger and Cavin 2004).

At each station, the trawl was towed on the bottom at a speed of approximately 4.6 km per hour for 1.85 km. This distance, the equivalent of one nautical mile, captured a suitable sample weight in most areas. Tow length was determined from Global Positioning System (GPS) readings. The vessel captain estimated corrections for tows that were not straight. Irregular bottom type occasionally caused tow lengths to differ from 1.85 km. Trawl placement within stations was determined by depth contours and locations of trawlable substrate. All tows were made during daylight hours. Catch, location, tow distance, and related information were recorded on ADF&G skipper trawl record forms. Quality of net performance was rated and repeat tows were done when necessary (Spalinger and Cavin 2004). A temperature and depth data logger was attached to the headrope, recording temperature and depth data approximately two meters above the sea floor bottom for each tow.

## CATCH SAMPLING PROCEDURES

Species catches were standardized to kilograms per kilometer towed. Total weight of the catch from each tow was determined by weighing the full codend of the trawl with an electronic crane scale accurate to  $\pm 1.0$  kg, and then subtracting the weight of the empty codend. After emptying the catch from the codend into the sorting bin, the entire tow (whole-haul) was sorted for selected species, which were weighed ( $\pm 0.1$  kg), counted, and measured when applicable ( $\pm 1.0$  cm). The following species were whole-haul sampled: sablefish, Pacific cod, walleye pollock, Pacific halibut, all rockfish *Sebastes* and *Sebastolobus*, lingcod *Ophiodon elongatus*, Atka mackerel *Pleurogrammus monopterygius*, giant Pacific octopus *Octopus dofleini*, squid *Berryteuthis magister*, Pacific herring *Clupea harengus*, salmon *Onchorhynchus* spp., weathervane scallop *Patinopecten caurinus*, red sea cucumber *Parastichopus californicus*, Bering skate *Bathyraja interrupta*, Aleutian skate *B. aleutica*, Alaska skate *B. parmifera*, longnose skate *Raja rhina*, big skate *R. binoculata*, Dungeness crab *Cancer magister*, Tanner crab, red king crab, snow crab *Chionoecetes opilio*, hair crab *Erimacrus isenbeckii*, box crab *Lopholithodes foraminatus*, spiny dogfish, Pacific sleeper shark *Somniosus pacificus*, salmon shark *Lamna ditropis*, wolf-eel *Anarrichthys ocellatus*, and giant wrymouth *Cryptacanthodes giganteus*. A 1.5 m<sup>2</sup> splitting net was tied into the sorting bin before the catch was dumped from the codend. After the catch was dumped from the codend into the sorting bin, whole haul species were removed and the splitting net was lifted through the remaining catch and craned to the table for sorting and weighing of a subsample to obtain catch composition for remaining species.

Length/width measurements were taken of selected commercial finfish species, and Tanner and red king crabs to develop length/width frequency distributions for each species. Fish measurements were entered into a polycorder and downloaded onto a computer; Fish weights were entered directly into a database allowing for better data quality control and increased data collection efficiency. Finfish and sharks were measured from snout to the fork or mid-point of the caudal fin. Skates were measured from the snout to the posterior notch on the wing. Tanner crab carapace widths (CW) were measured inside the spines and were subsampled when they exceeded 200 individuals per sex per haul. Red king crabs were measured for carapace length (CL) from the right eye socket to the medial posterior edge of the carapace. Because the legal size measurements of Tanner and king crabs are the carapace width taken outside of the spines, each crab of questionable legal status was checked to determine if it was a legal-size crab. An explanation of the terms used to characterize Tanner and king crabs is presented in Appendix A. Dungeness crabs were measured for CW and checked for legal status across the carapace anterior to and excluding the tenth anterolateral spine. In Marmot Bay, chela height was measured as the greatest height, excluding spines, on the right chela, from 50 male Tanner crabs per haul. Clutch fullness of mature female Tanner and king crabs was measured by examining for the presence of egg clutches and estimating the percent fullness to the closest 10%. Embryo development was noted by the presence or absence of eyed eggs. Crabs exhibiting signs of disease were noted. Twenty weathervane scallop shell heights were measured from each tow following the methods detailed in Spalinger and Cavin (2004).

#### **OTHER PROJECTS**

In Alitak Bay on the south end of Kodiak Island, where bitter crab syndrome is prevalent, hemolymph smears from thirty randomly selected Tanner crabs were prepared from each tow (Pearson and Myers 1992). Smears were stained with Baxter Dif-Quik™ stain and read using protocols established by the State of Alaska Pathology Laboratory. Thirty fields were examined under 100 power for each slide and rated either negative or positive on a scale of 1 to 4. Prevalence is defined as a proportion of crab with bitter crab syndrome from the total population estimate of that area. Percent prevalence of bitter crab in the sample area and the population of Alitak Bay Tanner crab infected by bitter crab was calculated.

Legal-size male Tanner crab were tagged throughout the Northeast, Eastside, Southeast, and Southwest Sections of the Kodiak District, as well as in the Eastern Aleutian District. Double T style tags were inserted into the right branchial lobe through the carapace. Crabs that were lethargic or visibly damaged were not tagged.

A Pacific cod tagging program, initiated in 1997, was continued in 2005. The study goal was to determine migration, growth patterns and to differentiate inshore and offshore populations. Fluorescent spaghetti tags were inserted into the dorsal musculature of fish determined to be in good condition. Tags were placed anterior to the first dorsal fin. Fish that had distended eyes or stomachs, or were lethargic were not tagged. Length, tag number, and release location were recorded prior to release.

#### **TANNER AND KING CRAB POPULATION ESTIMATION**

Population estimates for Tanner and king crabs were derived from the trawl survey data using the area swept technique (Alverson and Pereyra 1969). Assuming a 12.2 m path, the area swept by the trawl in a 1-km tow is  $1/82 \text{ km}^2$ . Hence, the catch per tow can be converted to a density estimate (number of animals per  $\text{km}^2$ ) by multiplying the number of animals caught per km by

82. This density estimate is multiplied by the area of the station to give an estimate of the station's population size. In stations where more than one tow was completed, the number of animals caught per km was calculated by combining the total catch in all tows in the station and dividing by the total distance towed. Population estimates were computed for desired subsets of geographic or biological variables by summing estimates from the individual stations.

## RESULTS AND DISCUSSION

Detailed tow data for each station is shown in Appendix B1 and includes start position, distance towed, average depth, date, and bottom temperature.

### KODIAK

Between June 16 and July 15, 168 tows (haul numbers 1-168) were completed in the Northeast, Eastside, Southeast, and Southwest Sections of the Kodiak District. Between September 6 and 15, 62 tows (haul numbers 330-391) were completed in the Westside and North Mainland Sections. The area used to expand catch numbers to population estimates in the Kodiak District was 9,598.6 km<sup>2</sup> (Appendix B2). Kodiak District tow locations are shown in Appendices C1-C7.

The 2005 survey captured a total of 31,775 male Tanner crabs with a mean size of 98.7 mm CW and 18,584 female Tanner crabs with mean size of 64.5 mm CW (Figure 2). Tanner crabs were captured in 99% of all tows, with catches ranging from 1 to 2,280 crabs per haul. The highest density of Tanner crabs was found in inner Ugak Bay, station UGAA, at 1,231 crabs per kilometer towed (Figure 3). Newshell crabs comprised 73% (23,142) of the total male Tanner crabs captured in the Kodiak District survey (Table 2).

Tanner crab population estimates were derived for each station and summed for the majority of the commercial fishing sections described in ADF&G commercial shellfish regulations (Appendix D1). The Eastside and Northeast Sections had the largest populations of legal males (Figure 4), while the Westside and North Mainland Sections had the smallest (Figure 5). The Kodiak District Tanner crab population in the survey area was estimated at 69.2 million crabs, a decrease from the 2004 estimate of 73.1 million crabs (Table 3 and Figure 6). The greatest declines were seen in prerecruit males 92-114 mm CW, and prerecruit males >114 mm CW. Prerecruit males <70 mm CW made up 38% and prerecruit males >114 mm CW made up 30% of the total male population estimate.

The estimated population of legal-sized male Tanner crabs in the Kodiak District was 6.6 million crabs, almost one and a half times the 2004 estimate of 4.7 million. The 2005 abundance of legal-sized males is the highest since the trawl survey began in 1987 (Table 3). The Eastside Section had the largest estimated population of legal-sized male crabs at 3.74 million crabs. Based on the Tanner crab management plan (5 AAC 35.507), the Eastside, Northeast, Southeast, and Southwest Sections were above the thresholds and satisfied the minimum GHLL criteria for opening the Tanner crab fishery in 2006 (Table 4). The number of adult males (CW>114mm) in 2005 increased from 2004 in the Northeast and Eastside sections but decreased in all other sections of the Kodiak District.

Egg clutches of 4,453 mature female Tanner crabs from the Kodiak District were examined. Of all mature females, 16.6% were primiparous, similar to 17% in 2004 (Spalinger 2005a). Of mature females, 44% had clutches of 80% fullness or greater (Figure 7). This was a decline from 2004 when 70% of mature females had a clutch fullness of 80% or greater (Spalinger 2005a).

Red king crabs were captured in 9.2% of all Kodiak Area tows resulting in a total of 156 males and 102 females. Catches ranged from 0 to 62 crabs per tow, with 60.5% of the crabs caught in Alitak Bay (Figure 8). Mean size was 138.5 mm CL for males and 121.0 mm CL for females. The majority of crabs were mature. Of the 81 adult female king crabs captured in the 2005 Kodiak Area survey, only 31% had clutches of  $\geq 70\%$  fullness (Figure 7). That is a decrease from 67% of adult female king crabs with clutches of  $\geq 70\%$  fullness in 2004.

The Kodiak red king crab population remains at historic low population levels despite no commercial fishing since 1983. Population estimates were derived for the main commercial fishing areas by size and sex categories (Table 5). The Kodiak red king crab population was estimated to be 113,710 crabs, a decrease from the estimated 369,779 crabs the prior year (Spalinger 2005a). The total estimated number of legal males decreased in 2005 to 33,925 crabs. Only prerecruit III males, 95-112 mm carapace length (CL) showed an increase from the previous year (Figure 9). It is unlikely that the king crab population decreased by more than 69% in one year. This decrease may be because groups of crab have simply moved out of areas that are surveyed by the trawl survey. Since there are relatively few king crabs captured by the trawl survey each year, (368 males in 2004 (Spalinger 2005a) and 156 males in 2005) a small increase or decrease in catch can cause large fluctuations in the population estimates from year to year.

The average weight of fish and invertebrates from all Kodiak Area tows was 879 kg per kilometer towed. Of the top 20 species caught during the 2005 survey, Arrowtooth flounder (39.2%) was the most abundant species by weight, followed by flathead sole (18.2%), walleye pollock (11.1%), and Tanner crab (5.0%; Table 6). These species were also the most abundant species in past surveys (Worton 2000, Worton 2002, Spalinger 2003, Spalinger 2004, Spalinger 2005a).

During the Kodiak Area bottom trawl survey 33,662 fish of 35 species were measured for length. Highest densities of groundfish were commonly found at inshore stations. Arrowtooth flounder were found in almost every haul, but were most dense in Barnabas Gully. Flathead sole were abundant inside bays and yellowfin sole *Pleuronectes asper* were primarily found at the heads of bays. The majority of rock sole found in the Kodiak Area were northern rock sole, except in Kupreanof Strait and Marmot Gully, where southern rock sole were more prevalent. Sablefish were regularly caught in Barnabas Gully. Pacific cod were common throughout the survey with the largest densities to the south of Kodiak Island. Rougheye rockfish *Sebastes aleutianus* were scattered throughout the Kodiak Area, with the majority found in Barnabas Gully. The largest concentrations of walleye pollock were east of Kodiak Island (Figures 10-11).

## **SOUTH PENINSULA AND CHIGNIK**

From August 1 through August 15, one-hundred thirty-eight tows were successfully completed in the South Peninsula and Chignik Districts. There were 92 tows in the South Peninsula District (haul numbers 192-283; Appendices C8-C11) and 46 tows in the Chignik District (haul numbers 284-329; Appendices C11-C12). The area considered for crab population estimation totaled 3,167 km<sup>2</sup> in the South Peninsula District and 1,441 km<sup>2</sup> in the Chignik District (Appendix B2).

During the 2005 trawl survey of the South Peninsula District, 15,753 Tanner crabs were captured. The number per tow ranged from 0 to 1,436 Tanner crabs, with the highest density of 775 crabs per kilometer towed found at station MOOX in Morzhovoi Bay (Figure 12). The mean carapace width of Tanner crabs in the South Peninsula was 78.8 mm for males and 64.7 mm for

females (Figure 2). Newshell crabs dominated the South Peninsula District except in Morzhovoi Bay, which had a large proportion of old or very oldshell crab (Figures 13 and 14).

Population estimates were derived for each sex-size category of crabs by fishing area (Appendix D2). The Tanner crab population in the surveyed portion of the South Peninsula District was estimated to be 22.3 million crabs (Table 7), an increase from the 2004 survey estimate of 16.1 million crabs (Spalinger 2005a). The 2005 increase in the Tanner crab population was due to the increase of females and sublegal males less than 70 mm (Figure 15). The 2005 population estimate of legal-sized male Tanner crabs decreased from 0.97 million crabs in 2004 to 0.89 million crabs. Tanner crab population estimates from the 2005 survey met the regulatory requirements for opening the Western section of the South Peninsula District; therefore, the 2006 Tanner crab fishery opened in the Western section only. (5 AAC 35.507).

The 2005 Chignik bottom trawl survey captured 9,079 Tanner crabs with catches ranging from 4 to 920 Tanner crabs per tow. Chignik Bay showed the highest density of Tanner crabs at 621 crabs per km towed from station 4262 (Figure 12). The mean Tanner crab carapace width in the Chignik District was 77.1 mm for males and 59.3 mm for females (Figure 2). Kujulik Bay was the only section of the Chignik District that did not have any male Tanner crabs greater than 100 mm carapace width. Newshell male crabs accounted for 82% (4,442) of the total male Tanner crabs captured in the Chignik survey (Table 2; Figures 16 and 17).

Population estimates were derived for each sex-size category of Tanner crabs by fishing area (Appendix D3). The 2005 Chignik Tanner crab population was estimated at 13.7 million crabs, an increase from the 2004 estimate of 12.1 million crabs. Juvenile females and sublegal males <70 mm showed the largest increases from the prior year (Table 7 and Figure 18). Threshold levels of mature male abundance and minimum GHL requirements for a fishery based on the Tanner crab harvest strategy (5 AAC 35.507) were met during the 2005 survey, so the Chignik District Tanner crab fishery opened in 2006 for the second time since 1989.

The estimated number of female Tanner crabs increased in both the South Peninsula District and the Chignik District from 2004 (Table 7, Spalinger 2005a). Egg clutches of 80% fullness or greater were found in 43.7% of the 1,287 adult female Tanner crabs examined in the South Peninsula District and in 30.1% of the 836 adult females in the Chignik District (Figure 19).

The Alaska Peninsula king crab area is roughly the same size as the South Peninsula and Chignik Tanner crab districts combined. The red king crab population in the Alaska Peninsula Area remains at low levels. The population decreased from an estimate of 54,167 crabs in 2004 to 31,102 crabs in 2005 (Table 5). The majority of the red king crabs were found in Morzhovoi Bay (Figure 8). A total of 27 male and 8 female red king crabs were captured. Males had a mean carapace length of 146.0 mm and females had a mean carapace length of 115.8 mm. Fifty percent of all females were mature with egg clutches.

The average haul weight of fish and invertebrates from all Alaska Peninsula hauls was 679 kg per kilometer towed. Arrowtooth flounder (30.7%) flathead sole (18.5%), and walleye pollock (15.4%) continue to be the most abundant species captured in the survey (Worton 2000, Worton 2002, Spalinger 2003, Spalinger 2004, Spalinger 2005a; Table 8).

Length measurements were taken from 20,921 fish representing 33 groundfish species found in the Alaska Peninsula Area. Arrowtooth flounder were found everywhere but were scarce in Cold Bay. Flathead sole were very abundant in the surveyed bays. The majority of Northern rock sole

and some Southern rock sole were found west of Kupreanof Point, as were the highest densities of yellowfin sole, Pacific cod. Sablefish were mostly found around Nagai Island. Rougheye rockfish were most abundant east of Kupreanof Point and around Sanak Island. Walleye pollock were seen in the highest concentrations in Pavlof Bay (Figures 20 and 21).

### **EASTERN ALEUTIAN**

From July 26 to July 30, twenty-three tows were successfully completed in the Eastern Aleutian District (Appendices C13-C15). The area considered in the crab population estimates totaled 483 km<sup>2</sup> (Appendix B2).

The survey captured 3,293 male and 2,394 female Tanner crabs and ranged from 4 to 623 animals per tow, with the highest density in Unalaska Bay at 681 crab/km towed (Figure 22). The mean carapace width of males was 95.9 mm and 70.1 mm for females (Figure 2). Twenty-two percent of the 869 mature females sampled had an egg clutch of 80% fullness or greater (Figure 19).

The estimated number of Tanner crabs in the Eastern Aleutian District was 5.4 million crabs (Appendix D4), a slight increase from 5.2 million in 2004 (Table 9). The legal-sized male Tanner crab population was estimated to be 477,617 crabs, with Makushin Bay having the largest population of legal-sized male crabs. There are no threshold levels or minimum GHLS established by regulation for this district. The 2006 Eastern Aleutian District Tanner crab fishery opened to commercial fishing in Makushin Bay.

The red king crab population in the eastern Aleutian Islands continues to be at historic low levels, and the fishery has remained closed following the 1981/82 season. During the 2005 survey, 1 adult female red king crab was captured.

The average haul weight of fish and invertebrates from the Eastern Aleutian Area was 491 kg/km. Arrowtooth flounder was the most abundant species encountered (25.0%), followed by walleye pollock (18.8 %) and flathead sole (15.7 %; Table 10).

Length measurements were taken from 3,320 fish of 23 species during the 2005 Eastern Aleutian survey. Arrowtooth flounder, flathead sole and Pacific cod were found all around Unalaska and Akutan Islands (Figure 23). Southern rock sole were found in higher abundance than northern rock sole around Unalaska Island, while northern rock sole were more abundant around Akutan Island. Yellowfin sole were not frequently captured and were found only in Akutan and Pumicestone Bays. The majority of sablefish from the Eastern Aleutian Survey were located in Makushin Bay. Rougheye rockfish were seen in Unalaska, Makushin, and Akutan Bays. The highest densities of walleye pollock were found in Unalaska Bay (Figure 24).

### **PREVALENCE OF BITTER CRAB SYNDROME**

In 2005, blood smears were collected from 471 Tanner crabs at 16 stations in Alitak Bay. Bitter crab syndrome prevalence rates have ranged from 2.5% to 18.1% over the past 10 years. Prevalence in 2005 was 3.2%, up slightly from 2004 when the rate was 2.5% (Table 11). The population of infected crab was estimated to be 54,572 crabs in 2005, a decrease from 60,579 infected crabs in 2004 (Table 12).

### **PACIFIC COD TAGGING STUDY**

During the 2005 trawl survey, 412 Pacific cod were tagged and released with an orange spaghetti-type Floy-tag in the first dorsal fin. The majority of the Pacific cod tagged were in the



Kodiak Area (67%). Release locations for Kodiak and the Alaska Peninsula are shown in Figure 25.

### **WEATHERVANE SCALLOP SAMPLING**

The 2005 survey was the sixth consecutive year that weathervane scallop shell height measurements were collected. Eighty-nine percent of the scallops caught came from the Kodiak Area (Figure 26). The 3,017 scallops sampled averaged 143.2 mm in height, a decrease from 147.8 mm in 2004 (Figure 27).

### **SKATE SAMPLING**

All skates were speciated and sex determined during the 2005 trawl survey. A total of 2,464 skates were captured and measured. Bering skates were the most abundant, making up 40.8% of the number of skates caught, and averaging 29.7 cm from snout to wing notch. Longnose skates made up 31.8 % of the number of skates caught and averaged 44.5 cm in length. Big skates made up 14.9 % of the skate catch and had an average length of 60.6 cm. Aleutian skates accounted for 9.0% of the skates and averaged 54.0 cm, while Alaska skates made up 3.5% and averaged 40.4 cm (Figure 28). Of all the skates captured on the survey, 58% were female. Because of its small size, the most abundant skate, Bering skate, only made up 14% of the catch by weight, while the larger big skate made up 39% of the catch by weight. Skates were captured throughout the survey, but the three species of *Bathyraja* were more concentrated around Kodiak Island (Figure 29). Most longnose skates were captured east of Kupreanof Point, and big skates were more abundant closer to shore (Figure 30).

### **TANNER CRAB TAGGING STUDY**

Legal-sized male Tanner crabs were tagged and released throughout portions of the 2005 survey (Figure 31). A total of 677 crabs were tagged in the Northeast, Eastside, Southeast, and Southwest sections of the Kodiak District. As of June 2006, seventy-eight Tanner crabs tagged during the 2005 survey had been recovered. Detailed recovery information will be presented in a later report.

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## **TABLES AND FIGURES**

**Table 1.**—Location and number of hauls in the Westward Region trawl survey, 1987-2005.

Year	Kodiak	Chignik	South Peninsula	Eastern Aleutian	TOTAL
1987	191	0	0	0	191
1988	217	0	108	0	325
1989	221	35	132	0	388
1990	217	37	123	46	423
1991	228	33	117	41	419
1992	209	29	114	0	352
1993	231	35	111	0	377
1994	200	34	122	44	400
1995	218	31	0	38	287
1996	223	27	122	0	372
1997	218	34	116	0	368
1998	219	35	93	0	347
1999	231	36	93	39	399
2000	221	37	94	35	387
2001	222	36	94	0	352
2002	226	47	95	0	368
2003	211	45	93	39	388
2004	226	45	94	24	389
2005	230	46	92	23	391

**Table 2.**—Number of male red king and Tanner crabs by location, cohort, and shell condition captured in the 2005 Westward Region trawl survey.

Cohort	Definition	SHELL CONDITION				Total
		soft	new	old	very old	
<b>Kodiak red king crab</b>						
Prerecruit IV	< 95 mm CL	0	9	0	0	9
Prerecruit III	95 - 112 mm CL	0	23	0	0	23
Prerecruit II	113 - 130 mm CL	0	30	0	0	30
Prerecruit I	> 130 mm CL and sublegal	0	32	0	0	32
Recruit	< 164 mm CL and legal new-shell	0	16	--	--	16
Postrecruit	≥ 164 mm CL or legal and not new-shell	0	10	31	5	46
		0	120	31	5	156
<b>Alaska Peninsula red king crab</b>						
Prerecruit IV	< 79 mm CL	0	4	0	0	4
Prerecruit III	79 - 95 mm CL	0	1	0	0	1
Prerecruit II	96 - 115 mm CL	0	2	0	0	2
Prerecruit I	> 115 mm CL and sublegal	0	2	0	0	2
Recruit	< 152 mm CL and legal new-shell	0	1	--	--	1
Postrecruit	≥ 152 mm CL or legal and not new-shell	0	8	8	1	17
		0	18	8	1	27
<b>Kodiak Tanner crab</b>						
Prerecruit IV	< 70 mm CW	754	9,836	35	10	10,635
Prerecruit III	70 - 91 mm CW	101	2,080	81	44	2,306
Prerecruit II	92 - 114 mm CW	26	2,289	681	368	3,364
Prerecruit I	≥ 115 mm CW and sublegal	24	4,248	3,498	1,324	9,094
Recruit	< 165 mm CW and legal new-shell	65	4,609	--	--	4,674
Postrecruit	≥ 165 mm CW or legal and not new-shell	0	80	1,329	293	1,702
		970	23,142	5,624	2,039	31,775
Mature	>114 mm CW	89	8,937	4,827	1,617	15,470
<b>Chignik Tanner crab</b>						
Prerecruit IV	< 70 mm CW	236	2,539	2	1	2,778
Prerecruit III	70 - 91 mm CW	29	521	6	9	565
Prerecruit II	92 - 114 mm CW	8	612	29	82	731
Prerecruit I	≥ 115 mm CW and sublegal	4	487	98	287	876
Recruit	< 165 mm CW and legal new-shell	0	278	--	--	278
Postrecruit	≥ 165 mm CW or legal and not new-shell	0	6	104	74	184
		277	4,443	239	453	5,412
Mature	>114 mm CW	4	771	202	361	1,338

-Continued-

**Table 2.**–Page 2 of 2.

Cohort	Definition	SHELL CONDITION				Total
		soft	new	old	very old	
<b>South Peninsula Tanner crab</b>						
Prerecruit IV	< 70 mm CW	257	3,973	3	7	4,240
Prerecruit III	70 - 91 mm CW	9	787	15	10	821
Prerecruit II	92 - 114 mm CW	1	604	140	185	930
Prerecruit I	≥ 115 mm CW and sublegal	0	923	362	419	1,704
Recruit	< 165 mm CW and legal new-shell	1	481	--	--	482
Postrecruit	≥ 165 mm CW or legal and not new-shell	0	3	131	107	241
		268	6,771	651	728	8,418
Mature	>114 mm CW	1	1,407	493	526	2,427
<b>Eastern Aleutian Tanner crab</b>						
Prerecruit IV	< 70 mm CW	10	1,125	1	0	1,136
Prerecruit III	70 - 91 mm CW	0	490	7	0	497
Prerecruit II	92 - 114 mm CW	2	308	72	9	391
Prerecruit I	≥ 115 mm CW and sublegal	1	406	254	28	689
Recruit	< 165 mm CW and legal new-shell	0	313	--	--	313
Postrecruit	≥ 165 mm CW or legal and not new-shell	0	8	247	12	267
		13	2,650	581	49	3,293
Mature	>114 mm CW	1	727	501	40	1,269



**Table 3.**–Tanner crab population estimates from trawl surveys in the Kodiak District, 1987-2005.

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
<b>Northeast</b>													
1987	461,089	1,135,422	1,596,511	352,860	248,415	326,506	493,916	101,484	197,865	33,038	332,387	1,754,084	3,350,595
1988	2,643,594	674,490	3,318,084	2,495,836	395,350	545,140	685,327	384,565	23,104	20,977	428,647	4,550,299	7,868,383
1989	5,481,792	5,654,266	11,136,058	5,127,986	1,546,105	2,165,369	2,319,049	1,409,193	133,905	269,859	1,812,957	12,971,466	24,107,524
1990	1,812,656	3,140,834	4,953,490	1,446,757	1,482,180	1,142,711	1,024,535	510,407	93,031	101,879	705,317	5,801,500	10,754,990
1991	4,385,849	2,055,075	6,440,924	3,651,597	1,501,747	1,330,396	1,080,017	424,636	25,367	52,117	502,121	8,065,877	14,506,801
1992	2,013,074	1,365,357	3,378,431	1,586,874	1,225,453	929,682	793,749	209,337	15,516	7,070	231,922	4,767,681	8,146,112
1993	2,273,819	1,116,830	3,390,649	2,224,926	435,614	581,625	637,663	263,095	31,759	16,787	311,640	4,191,469	7,582,118
1994	602,256	1,227,010	1,829,266	627,897	170,908	255,845	455,371	102,589	98,082	2,401	203,072	1,713,093	3,542,359
1995	6,481,040	1,423,393	7,904,433	6,459,818	1,453,343	326,713	372,625	10,279	132,191	0	142,470	8,754,969	16,659,402
1996	2,132,659	2,508,696	4,641,355	1,766,596	2,544,865	1,190,131	427,287	30,485	54,026	1,603	86,114	6,014,993	10,656,348
1997	423,217	1,021,369	1,444,586	523,906	935,670	1,120,040	604,140	48,509	24,329	0	72,838	3,256,594	4,701,180
1998	1,716,808	3,313,210	5,030,018	1,285,328	2,361,636	2,195,617	2,012,063	393,528	44,144	12,334	450,006	8,304,650	13,334,668
1999	2,318,006	1,185,538	3,503,544	2,698,301	337,897	663,825	840,238	195,650	128,061	2,264	325,975	4,866,236	8,369,780
2000	8,092,502	2,492,158	10,584,660	7,697,742	2,017,128	982,372	1,076,359	307,896	260,546	12,240	580,682	12,354,283	22,938,943
2001	15,993,416	7,221,029	23,214,445	15,242,185	5,647,808	3,633,872	1,988,775	169,802	278,319	2,963	451,084	26,963,724	50,178,169
2002	4,353,467	2,852,185	7,205,652	4,479,192	3,179,604	3,586,696	2,567,479	298,425	50,500	0	348,925	14,161,896	21,367,548
2003	1,662,594	3,028,569	4,691,163	1,839,208	2,197,227	3,785,205	3,360,616	547,452	145,908	5,115	698,475	11,880,731	16,571,894
2004	3,196,025	4,245,111	7,441,136	2,825,284	1,296,421	2,120,589	3,363,058	1,118,175	182,106	13,671	1,313,952	10,919,304	18,360,440
2005	3,765,179	3,266,437	7,031,616	3,995,866	1,499,559	1,565,800	3,400,175	1,152,045	320,235	8,063	1,480,343	11,941,743	18,973,359
<b>Eastside</b>													
1987	5,476,413	3,930,451	9,406,864	5,750,053	609,468	514,257	1,202,144	149,925	299,091	89,925	538,941	8,614,863	18,021,727
1988	2,083,954	820,032	2,903,986	1,616,718	443,776	627,028	732,705	298,165	100,786	1,914	400,865	3,821,092	6,725,078
1989	2,393,419	3,821,312	6,214,731	2,029,181	1,567,590	1,640,007	1,285,700	799,441	270,769	29,333	1,099,543	7,622,021	13,836,752
1990	1,547,033	10,045,389	11,592,422	1,299,698	679,016	2,019,193	4,059,072	788,369	162,670	60,418	1,011,457	9,068,436	20,660,858
1991	1,490,845	3,677,868	5,168,713	1,207,670	289,090	655,547	2,669,044	3,016,121	494,482	38,622	3,549,225	8,370,576	13,539,289
1992	1,292,574	1,963,566	3,256,140	1,612,556	328,625	472,486	1,584,166	460,988	280,962	64,984	806,934	4,804,767	8,060,907
1993	1,723,641	1,504,592	3,228,233	1,362,714	252,485	406,367	1,003,469	108,462	382,993	18,760	510,215	3,535,250	6,763,483
1994	1,768,539	571,130	2,339,669	1,311,715	706,286	465,077	572,892	28,420	141,209	2,837	172,466	3,228,436	5,568,105
1995	3,796,916	505,420	4,302,336	3,326,873	594,529	456,566	411,403	24,858	87,815	2,394	115,067	4,904,438	9,206,774
1996	2,099,145	916,539	3,015,684	2,187,039	705,077	609,875	849,485	107,556	179,487	14,538	301,581	4,653,057	7,668,741
1997	802,758	652,061	1,454,819	772,755	678,462	724,637	708,745	118,243	104,661	15,679	238,583	3,123,182	4,578,001
1998	4,398,250	2,432,231	6,830,481	3,861,520	1,771,144	2,732,362	2,244,142	295,638	441,227	86,566	823,431	11,432,599	18,263,080
1999	6,310,010	1,600,247	7,910,257	5,119,000	408,238	1,087,114	2,085,986	382,318	799,959	120,985	1,303,262	10,003,600	17,913,857
2000	5,311,801	3,653,392	8,965,193	5,112,258	1,531,686	721,880	1,832,670	450,661	876,829	76,251	1,403,741	10,602,235	19,567,428
2001	28,121,728	3,038,255	31,159,983	22,626,525	3,242,716	1,457,288	1,194,066	72,121	1,113,227	87,196	1,272,544	29,793,139	60,953,122
2002	15,564,200	5,104,733	20,668,933	4,209,801	9,014,313	2,979,785	1,443,798	279,067	695,516	40,330	1,014,913	18,662,610	39,331,543
2003	2,538,934	10,743,547	13,282,481	2,660,479	3,104,611	10,673,868	5,697,764	222,739	500,735	24,251	747,725	22,884,447	36,166,928
2004	4,296,753	3,195,103	7,491,856	3,929,528	1,157,578	3,570,213	8,959,259	1,246,639	212,152	12,712	1,471,503	19,088,081	26,579,937
2005	1,555,530	3,316,789	4,872,319	1,768,741	135,364	1,329,192	7,272,524	3,119,977	562,551	52,577	3,735,105	14,240,925	19,113,244

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Table 3.—Page 2 of 4.

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
<b>Southeast</b>													
1987	2,379,119	894,205	3,273,324	2,044,847	413,335	337,537	875,142	480,004	88,816	2,841	571,661	4,242,522	7,515,846
1988	243,200	314,486	557,686	188,394	221,880	607,570	1,185,633	777,880	129,593	50,773	958,246	3,161,723	3,719,409
1989	922,092	424,847	1,346,939	694,841	140,444	246,215	564,215	175,593	70,553	9,739	255,885	1,901,600	3,248,539
1990	1,148,017	781,102	1,929,119	1,086,357	131,469	299,245	651,302	383,859	117,252	5,970	507,081	2,675,454	4,604,573
1991	4,650,523	919,633	5,570,156	4,448,179	425,927	270,594	367,736	173,532	37,162	7,382	218,076	5,730,512	11,300,668
1992	2,156,307	1,322,229	3,478,536	1,648,095	688,608	443,849	587,767	33,246	139,404	10,076	182,726	3,551,045	7,029,581
1993	3,893,506	563,806	4,457,312	3,625,310	248,343	430,013	403,299	27,357	111,011	8,453	146,821	4,853,786	9,311,098
1994	112,692	222,890	335,582	88,247	28,663	87,918	474,048	108,208	54,865	4,252	167,325	846,201	1,181,783
1995	2,728,372	110,416	2,838,788	2,425,953	15,058	28,566	82,912	76,922	47,721	2,370	127,013	2,679,502	5,518,290
1996	2,567,943	141,849	2,709,792	2,274,742	486,210	112,033	124,446	55,489	68,179	7,990	131,658	3,129,089	5,838,881
1997	460,018	141,758	601,776	361,124	206,538	114,928	45,616	3,134	45,000	1,337	49,471	777,677	1,379,453
1998	1,989,704	128,040	2,117,744	2,242,546	47,418	92,558	228,163	28,851	26,243	866	55,960	2,666,645	4,784,389
1999	3,582,504	160,235	3,742,739	3,736,209	99,398	96,118	196,109	127,718	66,630	8,583	202,931	4,330,765	8,073,504
2000	3,440,431	367,784	3,808,215	3,760,876	303,921	83,413	189,458	19,224	127,295	253	146,772	4,484,440	8,292,655
2001	9,488,305	2,951,287	12,439,592	9,581,995	2,259,657	347,865	323,336	48,356	226,017	13,947	288,320	12,801,173	25,240,765
2002	2,649,426	1,405,741	4,055,167	3,018,104	4,492,932	2,656,834	394,259	21,057	360,126	5,094	386,277	10,948,406	15,003,573
2003	485,324	486,433	971,757	635,745	1,566,764	1,720,865	1,006,338	53,539	103,688	0	157,227	5,086,939	6,058,696
2004	4,600,573	369,055	4,969,628	4,355,973	441,605	607,223	1,753,853	258,419	61,946	0	320,365	7,479,019	12,448,647
2005	3,974,812	543,331	4,518,143	3,772,470	377,234	482,212	1,505,851	103,931	212,793	1,411	318,135	6,455,902	10,974,045
<b>Southwest</b>													
1987	2,368,774	590,671	2,959,445	1,990,338	45,752	727,616	1,799,111	638,664	107,127	44,416	790,207	5,353,024	8,312,469
1988	191,219	225,135	416,354	168,051	16,405	63,339	591,313	1,370,943	61,725	76,170	1,508,838	2,347,946	2,764,300
1989	2,716,302	220,553	2,936,855	2,510,149	202,807	189,372	443,446	281,673	118,617	85,688	485,978	3,831,752	6,768,607
1990	3,527,315	1,383,437	4,910,752	2,635,176	1,259,988	709,183	704,467	53,127	59,552	11,567	124,246	5,433,060	10,343,812
1991	1,248,463	262,105	1,510,568	1,020,587	219,284	403,480	553,335	97,159	33,952	3,185	134,296	2,330,982	3,841,550
1992	461,617	212,484	674,101	455,293	153,648	320,046	236,226	296,449	58,330	5,803	360,582	1,525,795	2,199,896
1993	6,656,829	244,881	6,901,710	6,173,566	505,031	182,384	392,985	251,151	69,760	13,352	334,263	7,588,229	14,489,939
1994	205,702	120,561	326,263	131,884	70,630	60,597	145,516	129,013	23,087	7,429	159,529	568,156	894,419
1995	151,984	91,201	243,185	137,702	57,628	109,653	124,067	33,631	48,012	0	81,643	510,693	753,878
1996	348,245	44,722	392,967	326,522	98,585	162,621	240,133	36,057	74,458	1,571	112,086	939,947	1,332,914
1997	265,172	66,131	331,303	255,708	102,022	82,313	185,338	124,784	88,079	3,170	216,033	841,414	1,172,717
1998	236,303	34,231	270,534	232,953	58,264	50,176	61,014	19,712	85,406	2,193	107,311	509,718	780,252
1999	816,972	30,112	847,084	844,138	56,872	45,036	176,080	33,257	119,806	4,314	157,377	1,279,503	2,126,587
2000	2,959,952	58,363	3,018,315	2,996,836	161,085	103,332	165,015	51,082	99,590	714	151,386	3,577,654	6,595,969
2001	9,326,226	285,620	9,611,846	6,753,883	3,232,580	248,556	176,608	93,598	46,287	1,972	141,857	10,553,484	20,165,330
2002	2,512,624	977,758	3,490,382	1,591,521	1,805,112	1,787,021	426,645	85,073	74,670	1,974	161,717	5,772,016	9,262,398
2003	89,552	308,930	398,482	73,759	335,444	800,622	1,319,308	115,287	89,729	8,715	213,731	2,742,864	3,141,346
2004	337,897	297,393	635,290	310,629	66,245	311,262	919,571	1,199,667	124,722	15,782	1,340,171	2,947,878	3,583,168
2005	594,163	226,717	820,880	566,754	43,965	158,694	593,624	337,438	467,100	22,971	827,509	2,190,546	3,011,426

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Table 3.–Page 3 of 4.

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
<b>Westside</b>													
1987	2,541,394	1,526,443	4,067,837	1,243,848	2,401,608	1,149,549	1,302,877	835,177	46,421	50,537	932,135	7,030,017	11,097,854
1988	3,232,321	1,125,086	4,357,407	2,903,179	160,149	477,223	606,182	243,134	45,969	21,869	310,972	4,457,705	8,815,112
1989	8,655,122	1,185,882	9,841,004	7,125,499	1,387,997	651,689	739,127	373,683	71,456	32,282	477,421	10,381,733	20,222,737
1990	1,539,037	4,037,828	5,576,865	725,246	1,325,090	807,624	874,879	209,757	98,770	42,662	351,189	4,084,028	9,660,893
1991	188,063	564,038	752,101	130,079	138,641	480,619	440,221	35,631	22,320	4,335	62,286	1,251,846	2,003,947
1992	168,907	419,822	588,729	129,031	171,209	214,118	299,796	114,508	46,032	5,615	166,155	980,309	1,569,038
1993	397,675	587,678	985,353	266,121	161,469	153,721	292,347	56,918	114,132	8,001	179,051	1,052,709	2,038,062
1994	159,998	248,767	408,765	108,531	113,242	74,755	90,262	31,733	42,415	0	74,148	460,938	869,703
1995	169,581	419,442	589,023	108,716	165,389	162,040	136,931	15,092	89,628	2,203	106,923	679,999	1,269,022
1996	221,986	406,957	628,943	104,838	263,794	293,384	226,226	36,717	99,630	469	136,816	1,025,058	1,654,001
1997	221,626	679,270	900,896	83,887	293,572	424,991	330,268	70,487	62,404	2,605	135,496	1,268,214	2,169,110
1998	785,691	640,981	1,426,672	694,427	171,682	292,985	238,698	38,125	53,772	3,008	94,905	1,492,697	2,919,369
1999	720,955	301,742	1,022,697	412,434	308,618	255,995	223,631	58,067	102,486	9,444	169,997	1,370,675	2,393,372
2000	836,978	700,065	1,537,043	524,055	449,696	463,886	271,170	101,461	77,373	12,525	191,359	1,900,166	3,437,209
2001	1,769,528	836,974	2,606,502	1,401,945	660,806	397,682	442,327	84,184	85,335	11,243	180,762	3,083,522	5,690,024
2002	527,879	793,458	1,321,337	314,870	576,050	490,653	314,500	97,533	71,449	9,680	178,662	1,874,735	3,196,072
2003	569,026	1,590,996	2,160,022	527,613	303,556	838,748	533,453	106,583	113,052	10,142	229,777	2,433,147	4,593,169
2004	346,529	513,762	860,291	318,277	122,222	160,065	176,307	101,753	60,377	5,687	167,817	944,688	1,804,979
2005	1,276,033	605,689	1,881,722	1,010,851	366,121	309,274	173,180	49,512	95,099	5,734	150,345	2,009,771	3,891,493
<b>North Mainland</b>													
1987	668,509	2,267,682	2,936,191	622,331	926,344	2,693,481	2,761,800	498,657	101,469	39,646	639,772	7,643,728	10,579,919
1988	3,055,286	861,060	3,916,346	2,592,371	131,758	424,485	1,227,352	922,762	82,755	32,415	1,037,932	5,413,898	9,330,244
1989	4,557,775	1,263,559	5,821,334	4,670,560	251,950	289,575	1,150,687	417,410	105,261	165,459	688,130	7,050,902	12,872,236
1990	7,046,141	3,301,573	10,347,714	5,970,049	2,313,040	806,067	1,470,971	148,847	115,216	36,289	300,352	10,860,479	21,208,193
1991	760,801	1,128,212	1,889,013	605,036	606,408	537,513	948,691	61,666	121,712	4,747	188,125	2,885,773	4,774,786
1992	2,379,002	898,078	3,277,080	2,279,142	224,065	392,813	753,649	108,416	70,078	14,613	193,107	3,842,776	7,119,856
1993	3,812,333	1,022,423	4,834,756	3,215,642	150,137	418,016	820,819	157,189	146,364	36,468	340,021	4,944,635	9,779,391
1994	3,023,459	536,322	3,559,781	2,228,789	554,325	232,786	360,218	143,776	116,170	58,652	318,598	3,694,716	7,254,497
1995	626,581	246,765	873,346	676,801	133,803	61,118	151,268	38,078	49,671	18,653	106,402	1,129,392	2,002,738
1996	4,440,244	390,477	4,830,721	4,282,612	340,128	215,935	341,473	34,667	164,161	21,682	220,510	5,400,658	10,231,379
1997	2,395,876	263,513	2,659,389	2,345,312	505,068	343,651	654,116	52,567	186,794	8,054	247,415	4,095,562	6,754,951
1998	3,768,973	228,208	3,997,181	3,527,325	316,626	274,495	293,841	0	129,230	15,548	144,778	4,557,065	8,554,246
1999	3,978,558	249,442	4,228,000	4,095,930	513,789	193,813	560,732	46,816	102,885	0	149,701	5,513,965	9,741,965
2000	4,426,732	535,607	4,962,339	4,544,305	1,373,199	537,535	345,613	66,809	57,974	2,151	126,934	6,927,586	11,889,925
2001	5,571,966	581,737	6,153,703	5,958,909	493,796	449,541	398,103	21,432	174,614	5,736	201,782	7,502,131	13,655,834
2002	7,070,670	651,122	7,721,792	7,270,219	2,447,268	932,292	219,673	9,268	26,941	358	36,567	10,906,019	18,627,811
2003	1,587,275	1,005,975	2,593,250	3,244,027	615,374	253,586	227,890	23,143	52,385	4,156	79,684	4,420,561	7,013,811
2004	4,834,514	273,296	5,107,810	4,069,093	288,162	396,362	417,126	28,794	52,189	4,981	85,964	5,256,707	10,364,517
2005	6,017,625	608,048	6,625,673	5,495,781	571,957	188,005	255,202	64,158	23,541	2,023	89,722	6,600,667	13,226,340

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**Table 3.**—Page 4 of 4.

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
<b>GRAND TOTAL</b>													
1987	13,906,688	10,409,430	24,316,118	12,042,252	4,656,314	5,786,921	8,438,786	2,703,910	840,789	260,402	3,805,101	34,729,374	59,045,492
1988	11,449,574	4,020,290	15,469,864	9,964,549	1,369,319	2,744,783	5,028,512	3,997,449	443,932	204,119	4,645,500	23,752,663	39,222,527
1989	24,726,502	12,570,419	37,296,921	22,158,216	5,096,893	5,182,227	6,502,224	3,456,993	770,561	592,360	4,819,914	43,759,474	81,056,395
1990	16,620,199	22,690,162	39,310,361	13,163,283	7,190,782	5,784,022	8,785,225	2,094,366	646,492	258,785	2,999,643	37,922,955	77,233,316
1991	12,724,544	8,606,932	21,331,476	11,063,149	3,181,096	3,678,149	6,059,042	3,808,745	734,995	110,388	4,654,128	28,635,564	49,967,040
1992	8,671,479	6,181,536	14,853,015	7,710,991	2,791,607	2,772,995	4,255,353	1,222,944	1,220,642	108,160	2,551,746	20,082,692	34,935,707
1993	18,757,803	5,040,209	23,798,012	16,868,279	1,753,109	2,172,126	3,550,581	864,271	856,019	101,822	1,822,112	26,166,207	49,964,219
1994	5,876,645	2,929,680	8,806,325	4,497,063	1,634,055	1,176,978	2,098,307	543,740	475,828	75,571	1,095,139	10,501,542	19,307,867
1995	13,954,474	2,796,636	16,751,110	13,135,863	2,419,749	1,144,656	1,279,207	198,861	455,038	25,620	679,519	18,658,994	35,410,104
1996	11,810,222	4,409,239	16,219,461	10,942,349	4,438,659	2,583,980	2,209,049	300,970	639,942	47,854	988,766	21,162,803	37,382,264
1997	4,568,667	2,824,101	7,392,768	4,342,691	2,721,331	2,810,559	2,528,223	417,724	511,267	30,844	959,835	13,362,639	20,755,407
1998	12,895,729	6,776,901	19,672,630	11,844,098	4,726,771	5,638,194	5,077,922	775,854	780,022	120,516	1,676,392	28,963,377	48,636,007
1999	17,727,005	3,527,316	21,254,321	16,906,012	1,724,812	2,341,901	4,082,776	843,826	1,319,827	145,590	2,309,243	27,364,744	48,619,065
2000	25,068,396	7,807,369	32,875,765	24,636,072	5,836,715	2,892,418	3,880,285	997,133	1,499,607	104,134	2,600,874	39,846,364	72,722,129
2001	70,271,169	14,914,902	85,186,071	61,565,442	15,537,363	6,534,804	4,523,215	489,493	1,923,799	123,057	2,536,349	90,697,173	175,883,244
2002	32,678,266	11,784,997	44,463,263	20,883,707	21,515,279	12,433,281	5,366,354	790,423	1,279,202	57,436	2,127,061	62,325,682	106,788,945
2003	6,932,705	17,164,450	24,097,155	8,980,831	8,122,976	18,072,894	12,145,369	1,068,743	1,005,497	52,379	2,126,619	49,448,689	73,545,844
2004	17,612,291	8,893,720	26,506,011	15,808,784	3,372,233	7,165,714	15,589,174	3,953,447	693,492	52,833	4,699,772	46,635,677	73,141,688
2005	17,183,342	8,567,011	25,750,353	16,610,463	2,994,200	4,033,177	13,200,556	4,827,061	1,681,319	92,779	6,601,159	43,439,554	69,189,907

**Table 4.**—Westward Region Tanner crab threshold levels, estimates of adult male populations, and potential guideline harvest levels (GHLs) by year from the Westward Region trawl surveys, 2000-2005.

	Regulatory Threshold	Number of Adult Males (cw $\geq$ 114 mm)				
		2001	2002	2003	2004	2005
<b>Kodiak District</b>						
Northeast Section	1,123,000	<b>2,439,855</b>	<b>2,916,398</b>	<b>4,059,089</b>	<b>4,689,184</b>	<b>4,880,518</b>
Eastside Section	1,552,000	<b>2,466,608</b>	<b>2,458,705</b>	<b>6,445,486</b>	<b>10,430,764</b>	<b>11,007,629</b>
Southeast Section	733,000	611,657	<b>780,533</b>	<b>1,163,562</b>	<b>2,074,215</b>	<b>1,823,986</b>
Southwest Section	1,236,000	318,466	588,361	<b>1,533,042</b>	<b>2,259,741</b>	<b>1,421,133</b>
Westside Section	764,000	623,087	493,161	763,228	344,125	323,525
North Mainland Section	1,469,000	599,876	256,237	307,569	503,082	344,924
Chignik District	973,000	954,135	<b>1,618,913</b>	<b>1,266,844</b>	<b>2,971,077</b>	<b>1,497,118</b>
South Peninsula District	1,375,000	1,213,607	<b>1,586,395</b>	<b>1,616,022</b>	<b>4,623,916</b>	na
Eastern Section	2,015,000	na	na	na	na	714,393
Western Section	1,250,000	na	na	na	na	<b>2,264,103</b>
Eastern Aleutian District	not established	no survey	no survey	1,685,370	1,167,432	1,119,653

**Bold** = Above threshold

na = not applicable

	Minimum GHL (pounds)	Potential GHL				
		2001	2002	2003	2004	2005
<b>Kodiak District</b>						
Northeast Section	100,000	<b>300,211</b>	<b>223,922</b>	<b>461,934</b>	<b>897,852</b>	<b>1,028,300</b>
Eastside Section	100,000	<b>183,162</b>	<b>340,884</b>	<b>500,203</b>	<b>969,034</b>	<b>2,664,316</b>
Southeast Section	100,000	48,898	57,423	97,555	<b>212,782</b>	<b>211,635</b>
Southwest Section	100,000	52,731	undetermined	<b>155,018</b>	<b>446,805</b>	<b>162,822</b>
Westside Section	100,000	<b>115,096</b>	undetermined	undetermined	undetermined	undetermined
North Mainland Section	100,000	60,273	undetermined	undetermined	undetermined	undetermined
Chignik District	200,000	166,694	<b>238,486</b>	183,804	<b>624,764</b>	<b>210,739</b>
South Peninsula District	200,000	177,597	<b>227,444</b>	<b>218,886</b>	<b>622,959</b>	na
Eastern Section	200,000	na	na	na	na	na
Western Section	200,000	na	na	na	na	<b>293,440</b>
Eastern Aleutian District	not established	no survey	no survey	undetermined	undetermined	undetermined

**Bold** = Above minimum GHL

**Table 5.**—Red king crab population estimates from trawl surveys in the Kodiak and Alaska Peninsula Areas, 1994-2005.

Year	Females			Sublegal Males by size (mm CL)				Recruit	Post-recruit	Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<95	95-112	113-130	>130					
<b><u>KODIAK AREA</u></b>												
<b>Northeast</b>												
1994	174	7,823	7,997	1,519	516	2,495	6,318	1,762	11,525	13,287	24,135	32,132
1995	116	7,372	7,488	162	0	233	465	1,780	3,057	4,837	5,697	13,185
1996	365	5,099	5,464	481	116	233	197	233	3,199	3,432	4,459	9,923
1997	1,651	1,514	3,165	162	0	0	116	116	729	845	1,123	4,288
1998	1,397	13,562	14,959	0	81	727	116	1,220	6,495	7,715	8,639	23,598
1999	6,886	13,125	20,011	1,863	8,101	4,294	567	162	5,750	5,912	20,737	40,748
2000	34,086	21,053	55,139	19,610	13,170	19,367	10,846	6,972	775	7,747	70,740	125,879
2001	6,789	5,227	12,016	1,419	709	1,419	709	2,128	2,516	4,644	8,900	20,916
2002	1,013	1,013	2,026	0	0	0	0	0	1,397	1,397	1,397	3,423
2003	1,139	5,077	6,216	0	0	0	1,139	0	703	703	1,842	8,058
2004	0	2,548	2,548	1,775	0	0	0	0	4,770	4,770	6,545	9,093
2005	0	1,952	1,952	0	0	208	416	0	2,173	2,173	2,797	4,749
<b>Southeast</b>												
1994	0	668	668	0	0	0	0	0	2,673	2,673	2,673	3,341
1995	0	456	456	0	0	0	0	0	1,322	1,322	1,322	1,778
1996	0	957	957	0	0	0	0	0	668	668	668	1,625
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	949	949	949	949
2001	0	1,215	1,215	0	0	0	0	0	0	0	0	1,215
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	2,055	2,055	2,055	2,055
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0
<b>Southwest</b>												
1994	0	11,181	11,181	1,018	360	1,961	2,190	3,854	4,247	8,101	13,630	24,811
1995	1,063	4,223	5,286	0	881	927	0	668	360	1,028	2,836	8,122
1996	2,520	36,866	39,386	3,854	6,887	6,342	5,972	10,315	3,116	13,431	36,486	75,872
1997	13,823	69,679	83,502	7,997	4,405	7,494	12,742	18,274	5,306	23,580	56,218	139,720
1998	5,127	34,560	39,687	638	4,679	4,230	6,401	9,187	8,760	17,947	33,895	73,582
1999	0	9,686	9,686	0	0	0	1,271	4,298	9,837	14,135	15,406	25,092

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Table 5.—Page 2 of 6.

Year	Females			Sublegal Males by size (mm CL)				Recruit	Post-recruit	Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<95	95-112	113-130	>130					
2000	19,528	2,581	22,109	15,030	1,147	0	2,057	4,448	16,407	20,855	39,089	61,198
2001	164,979	12,035	177,014	196,690	34,415	6,532	3,425	5,871	15,038	20,909	261,971	438,985
2002	61,709	6,069	67,778	52,216	2,613	3,668	3,400	3,727	16,934	20,661	82,558	150,336
2003	22,309	7,894	30,203	15,244	6,098	744	360	1,451	4,908	6,359	28,805	59,008
2004	7,130	32,784	39,914	729	4,697	17,920	6,916	6,735	14,719	21,454	51,716	91,630
2005	2,856	32,151	35,007	0	7,689	11,613	12,374	6,341	20,777	27,118	58,794	93,801
<b>Shelikof</b>												
1994	13,993	15,267	29,260	9,978	723	352	0	0	362	362	11,415	40,675
1995	0	1,135	1,135	0	757	402	0	2,115	0	2,115	3,274	4,409
1996	120	5,133	5,253	0	0	0	0	0	1,686	1,686	1,686	6,939
1997	17,772	0	17,772	20,734	0	0	614	0	0	0	21,348	39,120
1998	5,204	26,841	32,045	3,092	2,064	1,262	8,085	4,762	7,457	12,219	26,722	58,767
1999	229	5,400	5,629	2,029	763	1,325	2,489	402	14,806	15,208	21,814	27,443
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	47,254	110,334	157,588	5,683	17,772	12,694	10,156	30,467	17,772	48,239	94,544	252,132
2002	447	0	447	447	298	0	0	0	382	382	1,127	1,574
2003	803	201	1,004	977	0	0	0	672	471	1,143	2,120	3,124
2004	3,999	29,485	33,484	2,853	2,223	1,805	14,900	73,230	140,561	213,791	235,572	269,056
2005	0	3,993	3,993	1,227	1,440	2,292	1,574	1,803	2,831	4,634	11,167	15,160
<b><u>KODIAK TOTAL</u></b>												
1994	14,167	34,939	49,106	12,515	1,599	4,808	8,508	5,616	18,707	24,323	51,753	100,859
1995	1,179	13,186	14,365	162	1,638	1,562	465	4,563	4,739	9,302	13,129	27,494
1996	3,005	48,055	51,060	4,335	7,003	6,576	6,169	10,548	8,669	19,217	43,300	94,360
1997	33,246	71,193	104,439	28,893	4,405	7,494	13,472	18,360	6,035	24,395	78,659	183,098
1998	11,728	74,963	86,691	3,730	6,824	6,219	14,602	15,169	22,712	37,881	69,256	155,947
1999	7,115	28,211	35,326	3,892	8,864	5,619	4,327	4,862	30,393	35,255	57,957	93,283
2000	53,614	23,634	77,248	34,640	14,317	19,367	12,903	11,420	18,131	29,551	110,778	188,026
2001	219,022	128,811	347,833	203,792	52,896	20,645	14,290	38,466	35,326	73,792	365,415	713,248
2002	63,169	7,082	70,251	52,663	2,911	3,668	3,400	3,727	18,713	22,440	85,082	155,333
2003	24,251	13,172	37,423	16,221	6,098	744	1,499	2,123	8,137	10,260	34,822	72,245
2004	11,129	64,817	75,946	5,357	6,920	19,725	21,816	79,965	160,050	240,015	293,833	369,779
2005	2,856	38,096	40,952	1,227	9,129	14,113	14,364	8,144	25,781	33,925	72,758	113,710

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Table 5.—Page 3 of 6.

Year	Females			Sublegal Males by size (mm CL)				Recruit	Post-recruit	Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<79	79-95	96-115	>115					
<b>ALASKA PENINSULA AREA</b>												
<b>Morzhovoi</b>												
1994	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	714	714	1,428	1,428	1,428
1997	11,798	714	12,512	6,425	9,995	2,142	1,428	714	0	714	20,704	33,216
1998	0	0	0	0	0	0	0	0	1,468	1,468	1,468	1,468
1999	0	1,468	1,468	0	0	0	0	0	744	744	744	2,212
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	714	2,142	2,856	0	0	0	0	0	714	714	714	3,570
2002	0	0	0	0	0	0	2,597	0	714	714	3,311	3,311
2003	0	0	0	0	0	0	0	0	714	714	714	714
2004	2,937	14,684	17,621	1,468	1,468	10,279	1,468	0	1,468	1,468	16,151	33,772
2005	1,101	3,304	4,405	0	0	2,203	0	1,101	7,853	8,954	11,157	15,562
<b>Cold Bay/Belkofski</b>												
1994	19,650	27,135	46,785	1,871	14,036	14,971	6,550	0	0	0	37,428	84,213
1996	4,180	0	4,180	2,777	0	0	0	1,575	4,155	5,730	8,507	12,687
1997	776	161	937	776	0	0	0	0	1,687	1,687	2,463	3,400
1998	0	6,896	6,896	1,871	931	0	0	0	2,557	2,557	5,359	12,255
1999	0	8,767	8,767	1,136	0	936	0	0	1,420	1,420	3,492	12,259
2000	15,055	44,398	59,453	7,211	3,399	5,588	2,188	3,553	10,929	14,482	32,868	92,321
2001	1,170	4,236	5,406	1,410	1,170	727	0	0	6,158	6,158	9,465	14,871
2002	7,064	3,703	10,767	4,564	0	216	483	1,771	13,381	15,152	20,415	31,182
2003	2,440	1,151	3,591	845	0	0	161	0	3,080	3,080	4,086	7,677
2004	2,505	1,207	3,712	4,066	0	0	0	0	0	0	4,066	7,778
2005	2,032	0	2,032	1,531	1,136	0	1,136	0	1,731	1,731	5,534	7,566
<b>Pavlof/Volcano Bays</b>												
1994	0	0	0	0	0	0	0	0	0	0	0	0
1996	403	0	403	403	0	0	0	0	498	498	901	1,304
1997	0	0	0	0	0	0	0	805	805	1,610	1,610	1,610
1998	17,855	2,415	20,270	1,208	1,208	7,246	3,364	1,899	14,499	16,398	29,424	49,694
1999	3,501	0	3,501	1,899	0	0	1,208	0	0	0	3,107	6,608
2000	1,208	1,885	3,093	1,208	0	1,208	0	1,208	1,208	2,416	4,832	7,925
2001	7,364	0	7,364	2,000	2,110	0	3,068	0	10,526	10,526	17,704	25,068
2002	527	2,415	2,942	0	0	0	0	0	1,489	1,489	1,489	4,431

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Table 5.—Page 4 of 6.

Year	Females			Sublegal Males by size (mm CL)				Recruit	Post-recruit	Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<79	79-95	96-115	>115					
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	2,133	2,133	4,266	2,133	0	0	0	0	0	0	2,133	6,399
2005	0	0	0	978	0	0	1,208	0	2,415	2,415	4,601	4,601
<b>Beaver/Balboa/Unga</b>												
1994	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	747	747	747	747
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	8,968	8,968	8,968	8,968
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	1,835	1,835	0	0	0	0	0	0	0	0	1,835
2005	0	747	747	0	0	0	0	0	0	0	0	747
<b>Stepovak Bay</b>												
1994	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	1,765	1,765	1,765	1,765
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0
<b>West Nagai</b>												
1994	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	1,849	0	0	0	1,849	1,849
2000	22,183	0	22,183	11,092	0	0	0	0	0	0	11,092	33,275

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Table 5.–Page 5 of 6.

Year	Females			Sublegal Males by size (mm CL)				Recruit	Post-recruit	Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<79	79-95	96-115	>115					
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	1,849	0	1,849	0	0	0	0	0	1,849	1,849	1,849	3,698
2003	0	1,849	1,849	0	0	0	0	0	0	0	0	1,849
2004	0	0	0	0	0	0	1,849	0	0	0	1,849	1,849
2005	0	0	0	0	0	0	0	0	0	0	0	0
<b>Ivanof Bay</b>												
1994	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	2,909	246	3,155	3,155	3,155
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	2,288	2,288	0	0	0	0	0	246	246	246	2,534
2005	0	0	0	0	0	0	0	0	2,626	2,626	2,626	2,626
<b>Chignik/Castle Bays</b>												
1994	0	0	0	0	0	0	892	0	892	892	1,784	1,784
1996	424	0	424	0	0	0	0	0	0	0	0	424
1997	61,354	2,378	63,732	45,061	12,998	11,992	651	0	0	0	70,702	134,434
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	586	4,104	4,690	0	0	586	424	586	1,773	2,359	3,369	8,059
2002	35,637	39,948	75,585	2,280	4,560	22,802	16,613	3,909	7,733	11,642	57,897	133,482
2003	6,621	4,691	11,312	0	4,398	2,345	4,104	2,932	4,528	7,460	18,307	29,619
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0
<b>Kujulik Bay</b>												
1994	0	0	0	0	0	0	456	0	456	456	912	912
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	1,307	0	1,307	0	0	0	0	0	0	0	0	1,307
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0

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Table 5.—Page 6 of 6.

Year	Females			Sublegal Males by size (mm CL)				Recruit	Post-recruit	Total Legal	Total Male	Total Crab
	Juvenile	Adult	Total	<79	79-95	96-115	>115					
2000	456	456	912	0	0	0	0	0	0	0	0	912
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0
<b><u>ALASKA PENINSULA TOTAL</u></b>												
1994	19,650	27,135	46,785	1,871	14,036	14,971	7,898	0	1,348	1,348	40,124	86,909
1996	5,007	0	5,007	3,180	0	0	0	2,289	5,367	7,656	10,836	15,843
1997	75,235	3,253	78,488	52,262	22,993	14,134	2,079	1,519	4,257	5,776	97,244	175,732
1998	17,855	9,311	27,166	3,079	2,139	7,246	3,364	1,899	18,524	20,423	36,251	63,417
1999	3,501	10,235	13,736	3,035	0	936	3,057	0	2,911	2,911	9,939	23,675
2000	38,902	46,739	85,641	19,511	3,399	6,796	2,188	4,761	12,137	16,898	48,792	134,433
2001	9,834	10,482	20,316	3,410	3,280	1,313	3,492	3,495	19,417	22,912	34,407	54,723
2002	45,077	46,066	91,143	6,844	4,560	23,018	19,693	5,680	34,134	39,814	93,929	185,072
2003	9,061	7,691	16,752	845	4,398	2,345	4,265	2,932	8,322	11,254	23,107	39,859
2004	7,575	22,147	29,722	7,667	1,468	10,279	3,317	0	1,714	1,714	24,445	54,167
2005	3,133	4,051	7,184	2,509	1,136	2,203	2,344	1,101	14,625	15,726	23,918	31,102

**Table 6.**—Percent of catch by weight of the top species groups in the Kodiak Area trawl survey, 2005.

Rank	Common name	Species name	% of catch by weight
1	Arrowtooth flounder	<i>Atheresthes stomias</i>	39.2
2	Flathead sole	<i>Hippoglossoides elassodon</i>	18.2
3	Walleye pollock	<i>Theragra chalcogramma</i>	11.1
4	Tanner crab	<i>Chionoectes bairdi</i>	5.0
5	Sunflower sea star	<i>Pycnopodia helianthoides</i>	4.2
6	Pacific halibut	<i>Hippoglossus stenolepis</i>	3.0
7	Pacific cod	<i>Gadus macrocephalus</i>	1.9
8	Dover sole	<i>Microstomus pacificus</i>	1.7
9	Yellowfin sole	<i>Pleuronectes aspera</i>	1.5
10	Rex sole	<i>Glyptocephalus zachirus</i>	1.3
11	Longnose skate	<i>Raja rhina</i>	1.2
12	Big skate	<i>Raja binoculata</i>	1.1
13	Northern rock sole	<i>Lepidopsetta perarcuata</i>	0.9
14	Butter sole	<i>Isopsetta bilineata</i>	0.8
15	Weathervane scallop	<i>Patinopecten caurinus</i>	0.8
16	Spiny dogfish	<i>Squalus acanthius</i>	0.7
17	Great sculpin	<i>Myoxocephalus polyacanthocephalus</i>	0.6
18	Alaska plaice	<i>Pleuronectes quadrituberculatus</i>	0.6
19	Starry flounder	<i>Platichthys stellatus</i>	0.5
20	Sea anemone	Order: Actinaria	0.5
	All others	(136 species)	5.2
			100.0

**Table 7.**–Tanner crab population estimates from trawl surveys in the South Peninsula and Chignik Districts, 1988-2005.

Year	Females		No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs	
	Juvenile	Adult	Total	<70	70-91	92-114		>114	<165				≥165
<b>SOUTH PENINSULA DISTRICT</b>													
<b>Sanak Island</b>													
1989	1,007,287	116,393	1,123,680	1,087,034	23,924	31,519	64,368	6,836	0	0	6,836	1,213,681	2,337,361
1990	544,525	102,533	647,058	412,210	80,760	52,532	22,785	0	0	0	0	568,287	1,215,345
1991	448,105	27,532	475,637	461,396	30,380	34,178	0	0	0	0	0	525,954	1,001,591
1992	344,623	41,013	385,636	270,952	42,912	45,760	3,798	0	0	0	0	363,422	749,058
1993	337,216	19,132	356,348	260,565	30,577	37,408	9,998	0	0	0	0	338,548	694,896
1994	87,847	69,011	156,858	112,055	13,413	18,801	19,823	0	0	0	0	164,092	320,950
1996	579,289	134,287	713,576	433,898	53,476	29,469	36,368	0	0	0	0	553,211	1,266,787
1997	104,890	53,408	158,298	79,644	75,563	38,236	17,180	0	0	0	0	210,623	368,921
1998	287,241	401,487	688,728	389,587	81,490	125,691	63,941	0	0	0	0	660,709	1,349,437
1999	88,145	94,727	182,872	55,776	5,043	44,697	20,518	0	0	0	0	126,034	308,906
2000	606,606	185,506	792,112	563,172	59,648	94,142	32,780	0	2,522	0	2,522	752,264	1,544,376
2001	914,269	131,632	1,045,901	790,961	56,567	82,328	116,972	5,043	0	0	5,043	1,051,871	2,097,772
2002	728,706	1,017,860	1,746,566	721,599	274,754	222,696	103,774	0	10,807	0	10,807	1,333,630	3,080,196
2003	249,807	392,738	642,545	207,329	84,100	222,323	124,490	0	10,086	0	10,086	648,328	1,290,873
2004	725,751	201,243	926,994	664,293	103,797	57,946	6,671	0	0	0	0	832,707	1,759,701
2005	264,848	129,560	394,408	219,763	85,952	61,173	0	0	0	0	0	366,888	761,296
<b>Morzhovoi Bay</b>													
1988	473,143	393,460	866,603	256,652	287,299	245,461	221,888	96,780	30,848	17,019	144,647	1,155,947	2,022,550
1989	3,840,620	1,173,058	5,013,678	3,214,760	1,373,096	440,767	133,655	42,427	4,949	0	47,376	5,209,654	10,223,332
1990	2,137,939	1,047,225	3,185,164	1,503,423	663,670	551,967	197,960	25,633	25,542	1,489	52,664	2,969,684	6,154,848
1991	1,657,718	478,548	2,136,266	1,318,755	426,210	209,931	57,608	15,555	4,667	0	20,222	2,032,726	4,168,992
1992	364,690	886,270	1,250,960	193,851	455,385	278,843	207,281	39,945	21,471	949	62,365	1,197,725	2,448,685
1993	72,434	544,697	617,131	18,974	160,368	414,318	368,297	62,370	63,859	949	127,178	1,089,135	1,706,266
1994	43,583	284,888	328,471	9,922	62,598	132,024	214,544	7,299	49,193	0	56,492	475,580	804,051
1996	221,620	107,996	329,616	191,235	22,344	14,476	53,533	5,696	31,185	0	36,881	318,469	648,085
1997	142,085	103,607	245,692	93,088	79,525	63,073	38,078	6,646	10,622	0	17,268	291,032	536,724
1998	927,801	1,905,001	2,832,802	372,190	1,244,517	1,545,607	337,412	40,345	81,441	0	121,786	3,621,512	6,454,314
1999	162,720	506,161	668,881	51,455	287,843	555,623	767,631	66,609	59,158	1,899	127,666	1,790,218	2,459,099
2000	904,853	872,919	1,777,772	833,624	156,937	384,386	731,583	448,222	107,962	0	556,184	2,662,714	4,440,486
2001	1,087,232	331,894	1,419,126	664,349	960,195	226,770	237,689	183,362	114,032	11,371	308,765	2,397,768	3,816,894
2002	2,244,691	776,464	3,021,155	1,475,699	1,592,739	840,445	343,710	50,245	171,029	3,104	224,378	4,476,971	7,498,126
2003	582,190	1,727,429	2,309,619	131,736	1,225,348	864,920	442,811	41,171	114,835	0	156,006	2,820,821	5,130,440
2004	368,636	1,834,413	2,203,049	324,436	217,363	1,648,927	2,551,507	293,816	195,276	6,638	495,730	5,237,963	7,441,012
2005	566,624	4,274,817	4,841,441	405,310	158,006	400,612	1,340,751	479,938	229,744	2,848	712,530	3,017,209	7,858,650
<b>Cold Bay/Belkofski Bay</b>													
1988	263,424	311,506	574,930	133,813	222,565	234,339	220,235	88,143	32,649	8,520	129,312	940,264	1,515,194
1989	465,622	55,256	520,878	408,728	54,811	29,720	16,589	3,881	488	0	4,369	514,217	1,035,095
1990	1,819,773	553,714	2,373,487	1,536,289	526,568	276,381	224,763	88,021	51,348	4,548	143,917	2,707,918	5,081,405
1991	601,571	588,961	1,190,532	668,699	135,225	223,859	374,770	74,553	110,621	161	185,335	1,587,888	2,778,420

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Table 7.--Page 2 of 6.

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
1992	177,787	174,384	352,171	95,544	110,096	97,452	142,607	39,898	39,104	1,721	80,723	526,422	878,593
1993	100,302	269,850	370,152	68,373	87,201	156,298	137,850	35,907	18,608	434	54,949	504,671	874,823
1994	96,033	220,312	316,345	28,880	54,379	64,115	75,642	27,345	10,266	1,258	38,869	261,885	578,230
1996	339,068	15,337	354,405	266,412	62,717	40,124	30,565	24,165	2,530	201	26,896	426,714	781,119
1997	118,157	12,184	130,341	44,101	59,543	90,588	80,558	37,302	936	483	38,721	313,511	443,852
1998	374,298	149,169	523,467	116,355	270,327	322,268	168,190	49,039	17,619	5,616	72,274	949,414	1,472,881
1999	111,133	78,031	189,164	63,078	58,424	235,743	266,603	59,853	21,247	869	81,969	705,817	894,981
2000	453,965	220,395	674,360	548,118	105,008	264,499	297,586	181,329	16,470	2,811	200,610	1,415,821	2,090,181
2001	990,492	66,837	1,057,329	873,549	142,999	138,379	147,340	89,545	15,002	3,544	108,091	1,410,358	2,467,687
2002	944,644	243,043	1,187,687	500,871	462,835	300,913	195,094	53,670	86,361	2,362	142,393	1,602,106	2,789,793
2003	491,246	245,629	736,875	263,140	313,721	278,557	79,036	0	8,746	1,136	9,882	944,336	1,681,211
2004	621,194	134,237	755,431	421,093	333,481	400,520	193,003	22,915	2,291	0	25,206	1,373,303	2,128,734
2005	975,377	210,419	1,185,796	702,023	284,625	271,704	172,169	22,450	16,203	0	38,653	1,469,174	2,654,970
<b>Pavlof Bay/Volcano Bay</b>													
1988	438,378	879,351	1,317,729	351,825	213,743	527,769	473,115	211,734	88,807	79839	380,380	1,946,832	3,264,561
1989	1,193,787	1,898,744	3,092,531	752,840	448,297	374,030	447,775	121,787	80,943	17669	220,399	2,243,341	5,335,872
1990	1,138,250	2,110,361	3,248,611	823,545	574,445	631,345	345,196	62,129	125,646	18957	206,732	2,581,263	5,829,874
1991	440,000	549,233	989,233	398,020	76,496	276,907	273,133	38,822	89,006	3039	130,867	1,155,423	2,144,656
1992	206,620	387,633	594,253	96,109	162,427	150,644	164,303	32,774	52,064	0	84,838	658,321	1,252,574
1993	115,627	201,551	317,178	71,677	168,723	494,229	230,544	44,414	27,416	1925	73,755	1,038,928	1,356,106
1994	40,819	123,378	164,197	25,438	50,672	91,918	143,134	54,379	28,337	0	82,716	393,878	558,075
1996	391,494	55,285	446,779	367,493	40,122	31,041	52,307	14,841	9,517	992	25,350	516,313	963,092
1997	70,299	79,456	149,755	31,066	48,449	82,056	53,514	5,405	28,417	949	34,771	249,856	399,611
1998	107,725	176,994	284,719	33,533	150,682	314,198	381,821	8,180	51,664	0	59,844	940,078	1,224,797
1999	51,913	91,936	143,849	44,539	39,952	97,486	128,419	87,932	12,812	0	100,744	411,140	554,989
2000	1,207,175	224,317	1,431,492	1,041,536	173,535	121,638	221,221	79,138	25,241	0	104,379	1,662,309	3,093,801
2001	611,552	212,400	823,952	354,209	294,910	215,290	164,409	46,972	27,103	0	74,075	1,102,893	1,926,845
2002	1,154,893	395,314	1,550,207	1,087,997	304,225	421,947	324,820	38,594	42,881	1,276	82,751	2,221,740	3,771,947
2003	213,833	354,086	567,919	139,469	202,287	473,179	453,022	80,609	91,604	921	173,134	1,441,091	2,009,010
2004	372,122	482,366	854,488	312,093	127,637	648,547	722,695	124,011	258,594	5,692	388,297	2,199,269	3,053,757
2005	1,221,386	328,436	1,549,822	1,161,084	319,276	350,746	440,656	33,255	80,459	0	113,714	2,385,476	3,935,298
<b>Beaver Bay/Balboa Bay/Unga Strait</b>													
1988	123,769	76,533	200,302	106,816	66,274	50,497	22,020	5,399	10,364	0	15,763	261,370	461,672
1989	129,353	247,345	376,698	141,019	56,566	48,228	30,418	0	6,059	0	6,059	282,290	658,988
1990	373,873	479,216	853,089	384,768	40,079	155,649	89,422	16,441	6,615	0	23,056	692,974	1,546,063
1991	337,522	188,765	526,287	313,050	36,940	56,286	51,489	5,058	1,127	0	6,185	463,950	990,237
1992	73,138	128,905	202,043	80,582	30,326	47,470	20,585	564	2,026	0	2,590	181,553	383,596
1993	9,322	43,753	53,075	16,876	7,062	28,751	29,838	3,164	4,361	0	7,525	90,052	143,127
1994	10,118	29,294	39,412	9,240	4,361	11,329	25,120	2,254	5,938	0	8,192	58,242	97,654
1996	716,832	5,415	722,247	746,234	10,645	9,232	4,541	905	460	0	1,365	772,017	1,494,264
1997	107,308	23,353	130,661	57,536	34,559	4,218	6,683	0	0	0	0	102,996	233,657

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Table 7.–Page 3 of 6.

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
1998	116,365	79,539	195,904	88,495	37,608	51,697	5,075	0	0	0	0	182,875	378,779
1999	30,113	59,467	89,580	78,639	10,903	35,551	22,833	685	0	0	685	148,611	238,191
2000	381,031	30,449	411,480	386,349	7,007	19,002	21,063	1,356	1,356	0	2,712	436,133	847,613
2001	795,671	78,698	874,369	856,993	65,117	32,117	16,721	0	0	0	0	970,948	1,845,317
2002	611,008	261,574	872,582	499,072	657,739	350,410	33,171	0	13,343	0	13,343	1,553,735	2,426,317
2003	60,835	238,017	298,852	12,620	108,980	223,498	129,934	7,972	9,746	0	17,718	492,750	791,602
2004	212,383	171,702	384,085	256,296	87,009	170,737	132,662	31,648	1,370	685	33,703	680,407	1,064,492
2005	2,048,134	48,614	2,096,748	2,620,901	83,483	38,576	45,137	6,646	0	0	6,646	2,794,743	4,891,491
<b>West Nagai Strait</b>													
1989	263,853	202,990	466,843	307,542	136,756	71,670	23,766	2,101	5,383	0	7,484	547,218	1,014,061
1990	223,997	36,745	260,742	228,844	17,172	17,328	5,913	0	908	0	908	270,165	530,907
1991	212,474	24,805	237,279	236,403	6,002	6,002	18,007	3,813	0	0	3,813	270,227	507,506
1992	24,726	33,234	57,960	13,306	8,516	19,137	8,255	0	3,165	0	3,165	52,379	110,339
1993	19,405	4,835	24,240	16,141	9,946	74,494	14,797	908	0	0	908	116,286	140,526
1994	20,348	24,860	45,208	8,615	24,858	29,968	27,774	8,468	0	0	8,468	99,683	144,891
1996	50,747	4,706	55,453	40,628	7,431	16,597	20,148	0	908	0	908	85,712	141,165
1997	334,022	263,780	597,802	180,257	292,164	173,397	25,182	0	4,706	0	4,706	675,706	1,273,508
1998	79,789	104,054	183,843	34,976	94,673	152,269	54,389	3,761	760	0	4,521	340,828	524,671
1999	59,602	24,684	84,286	46,815	34,194	28,481	46,396	5,615	0	0	5,615	161,501	245,787
2000	324,382	24,281	348,663	368,760	5,425	5,696	18,988	5,615	1,899	0	7,514	406,383	755,046
2001	509,223	69,773	578,996	349,814	126,647	65,816	33,598	908	0	0	908	576,783	1,155,779
2002	184,778	128,229	313,007	84,584	92,106	302,759	104,534	4,747	0	0	4,747	588,730	901,737
2003	40,103	57,642	97,745	7,611	60,133	37,806	11,146	3,798	0	0	3,798	120,494	218,239
2004	36,864	92,662	129,526	33,096	11,393	59,786	46,150	12,301	1,899	0	14,200	164,625	294,151
2005	411,852	47,535	459,387	476,008	14,241	38,507	70,969	11,106	0	0	11,106	610,831	1,070,218
<b>Stepovak Bay</b>													
1989	369,775	129,844	499,619	327,572	19,700	18,217	4,025	0	0	0	0	369,514	869,133
1990	891,103	138,654	1,029,757	992,870	7,256	28,929	19,636	8,266	6,158	0	14,424	1,063,115	2,092,872
1991	225,164	24,116	249,280	273,356	8,175	30,978	13,539	0	8,171	0	8,171	334,219	583,499
1992	286,231	26,900	313,131	255,298	7,249	31,206	7,802	2,013	0	0	2,013	303,568	616,699
1993	27,147	4,177	31,324	35,652	2,013	5,092	4,025	0	3,079	0	3,079	49,861	81,185
1994	30,462	2,013	32,475	32,303	0	0	0	0	0	0	0	32,303	64,778
1996	158,463	0	158,463	158,924	6,038	2,013	6,038	0	0	0	0	173,013	331,476
1997	25,774	18,114	43,888	67,372	40,254	14,089	0	0	2,013	0	2,013	123,728	167,616
1998	41,426	2,013	43,439	40,438	2,013	4,025	0	0	0	0	0	46,476	89,915
1999	40,454	8,051	48,505	58,559	0	4,025	8,051	0	0	0	0	70,635	119,140
2000	232,994	2,013	235,007	226,019	0	4,025	0	0	0	0	0	230,044	465,051
2001	479,137	0	479,137	466,342	29,292	0	0	0	0	0	0	495,634	974,771
2002	54,541	51,584	106,125	124,148	29,043	11,144	2,875	0	0	0	0	167,210	273,335
2003	53,954	6,038	59,992	57,279	10,063	14,089	4,955	0	0	0	0	86,386	146,378

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Table 7.—Page 4 of 6

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
2004	173,481	17,108	190,589	160,516	22,827	11,070	6,038	6,038	2,013	0	8,051	208,502	399,091
2005	419,167	101,564	520,731	515,631	11,022	13,083	20,127	6,038	0	0	6,038	565,901	1,086,632
<b>SOUTH PENINSULA TOTALS</b>													
1988	1,298,714	1,660,850	2,959,564	849,106	789,881	1,058,066	937,258	402,056	162,668	105,378	670,102	4,304,413	7,263,977
1989	7,270,297	3,823,630	11,093,927	6,239,495	2,113,150	1,014,151	720,596	177,032	97,822	17,669	292,523	10,379,915	21,473,842
1990	7,129,460	4,468,448	11,597,908	5,881,949	1,909,950	1,714,131	905,675	200,490	216,217	24,994	441,701	10,853,406	22,451,314
1991	3,922,555	1,881,961	5,804,516	3,669,679	719,429	838,141	788,545	137,801	213,591	3,200	354,592	6,370,386	12,174,902
1992	1,477,816	1,678,339	3,156,155	1,005,643	816,910	670,511	554,631	111,193	235,659	2,671	349,523	3,397,218	6,553,373
1993	681,454	1,087,994	1,769,448	488,259	465,890	1,210,591	795,350	146,764	117,323	3,308	267,395	3,227,485	4,996,933
1994	329,210	753,755	1,082,965	226,452	210,281	348,155	506,035	99,746	93,734	1,258	194,738	1,485,661	2,568,626
1996	2,457,513	323,027	2,780,540	2,204,825	202,773	142,952	203,500	45,608	44,601	1,193	91,402	2,845,452	5,625,992
1997	902,536	553,903	1,456,439	553,065	630,056	465,658	221,195	49,352	46,693	1,432	97,477	1,967,451	3,423,890
1998	1,934,646	2,818,255	4,752,901	1,075,574	1,881,309	2,515,756	1,010,828	101,324	151,483	5,616	258,423	6,741,890	11,494,791
1999	544,080	863,057	1,407,137	398,861	436,359	1,001,606	1,260,451	220,694	93,217	2,768	316,679	3,413,956	4,821,093
2000	4,111,006	1,559,880	5,670,886	3,967,578	507,560	893,388	1,323,221	715,660	155,450	2,811	873,921	7,565,668	13,236,554
2001	5,387,576	891,234	6,278,810	4,356,217	1,675,727	760,700	716,729	325,830	156,137	14,915	496,882	8,006,255	14,285,065
2002	5,923,261	2,874,068	8,797,329	4,493,970	3,413,441	2,450,314	1,107,978	147,256	324,421	6,742	478,419	11,944,122	20,741,451
2003	1,691,968	3,021,579	4,713,547	819,184	2,004,632	2,114,372	1,245,394	133,550	235,017	2,057	370,624	6,554,206	11,267,753
2004	2,510,431	2,933,731	5,444,162	2,171,823	903,507	2,997,533	3,658,726	490,729	461,443	13,015	965,187	10,696,776	16,140,938
2005	5,907,388	5,140,945	11,048,333	6,100,720	956,605	1,174,401	2,089,809	559,433	326,406	2,848	888,687	11,210,222	22,258,555
<b>CHIGNIK DISTRICT</b>													
<b>Ivanof Bay</b>													
1989	502,222	266,214	768,436	451,363	139,929	782,548	739,638	336,765	12,413	12,413	361,591	2,475,069	3,243,505
1990	883,810	32,971	916,781	1,040,228	14,699	108,905	250,741	108,961	0	0	108,961	1,523,534	2,440,315
1991	360,136	1,476	361,612	349,152	0	0	1,723	7,136	0	738	7,874	358,749	720,361
1992	32,735	2,215	34,950	37,240	1,969	984	5,028	4,119	1,282	738	6,139	51,360	86,310
1993	54,793	1,625	56,418	27,817	41,776	9,880	2,751	0	395	0	395	82,619	139,037
1994	44,186	12,094	56,280	13,569	22,612	12,866	3,832	984	246	0	1,230	54,109	110,389
1995	60,450	3,832	64,282	72,813	2,848	492	2,461	2,707	492	0	3,199	81,813	146,095
1996	72,588	699	73,287	73,697	41,649	6,890	7,871	8,754	0	0	8,754	138,861	212,148
1997	40,249	4,675	44,924	56,022	4,595	7,770	4,183	3,691	492	246	4,429	76,999	121,923
1998	27,874	1,191	29,065	40,904	1,864	246	1,230	1,723	0	0	1,723	45,967	75,032
1999	58,134	3,652	61,786	61,575	492	1,476	9,919	10,089	945	0	11,034	84,496	146,282
2000	920,897	15,177	936,074	1,178,257	37,727	25,900	15,503	10,089	945	246	11,280	1,268,667	2,204,741
2001	783,211	97,341	880,552	620,710	325,720	73,445	43,541	2,848	15,299	0	18,147	1,081,563	1,962,115
2002	394,202	75,043	469,245	282,633	1,428,945	484,541	118,262	4,490	9,085	0	13,575	2,327,956	2,797,201
2003	39,742	243,170	282,912	14,791	50,549	98,822	111,679	28,974	7,933	0	36,907	312,748	595,660
2004	81,273	451,276	532,549	128,440	35,700	442,524	682,096	216,842	38,462	6,354	261,658	1,550,418	2,082,967
2005	663,287	907,178	1,570,465	947,259	55,244	86,930	225,662	56,910	51,450	1,182	109,542	1,424,637	2,995,102

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Table 7.–Page 5 of 6.

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
<b>Mitrofanía Island</b>													
1989	193,422	510,311	703,733	201,538	155,170	637,889	315,908	42,526	17,719	21,263	81,508	1,392,013	2,095,746
1990	280,518	49,611	330,129	226,831	147,864	178,760	224,330	81,523	22,790	6,582	110,895	888,680	1,218,809
1991	491,176	51,907	543,083	469,640	113,946	89,887	96,212	87,350	5,064	2,532	94,946	864,631	1,407,714
1992	290,955	6,875	297,830	219,423	36,769	6,451	14,620	17,153	0	2,532	19,685	296,948	594,778
1993	133,718	17,870	151,588	76,188	68,542	37,635	15,337	18,459	9,047	653	28,159	225,861	377,449
1994	48,370	8,682	57,052	32,122	19,976	14,992	6,150	13,384	2,532	0	15,916	89,156	146,208
1995	221,670	39,309	260,979	258,696	13,475	46,293	32,346	27,261	0	2,532	29,793	380,603	641,582
1997	581,969	129,834	711,803	376,751	832,433	412,232	101,307	8,230	25,322	10,129	43,681	1,766,404	2,478,207
1998	278,452	283,845	562,297	202,037	177,978	230,584	88,287	25,342	31,019	0	56,361	755,247	1,317,544
1999	186,567	78,335	264,902	182,886	81,213	66,349	83,377	17,305	3,165	3,165	23,635	437,460	702,362
2000	974,170	134,935	1,109,105	972,295	104,618	86,768	84,651	92,390	14,832	66,560	173,782	1,422,114	2,531,219
2001	617,763	326,224	943,987	586,714	258,191	308,027	118,323	43,225	36,561	8,441	88,227	1,359,482	2,303,469
2002	759,113	396,998	1,156,111	733,710	895,454	1,132,908	343,176	34,181	7,504	1,282	42,967	3,148,215	4,304,326
2003	248,604	248,624	497,228	120,172	700,416	659,884	362,964	23,818	46,724	7,597	78,139	1,921,575	2,418,803
2004	1,270,236	285,554	1,555,790	1,471,068	280,904	999,732	780,371	190,814	29,323	5,064	225,201	3,757,276	5,313,066
2005	2,461,016	149,801	2,610,817	2,464,176	393,571	200,858	300,278	118,098	27,134	3,284	148,516	3,507,399	6,118,216
<b>Chignik Bay</b>													
1989	672,315	450,163	1,122,478	660,618	89,843	81,938	174,032	40,159	13,229	0	53,388	1,059,819	2,182,297
1990	1,650,408	423,973	2,074,381	1,330,223	112,046	133,699	445,000	83,477	77,931	1,387	162,795	2,183,763	4,258,144
1991	1,119,262	486,770	1,606,032	1,065,392	98,759	48,866	131,640	67,386	66,421	0	133,807	1,478,464	3,084,496
1992	1,150,083	323,334	1,473,417	1,307,665	91,362	69,122	34,071	0	14,828	0	14,828	1,517,048	2,990,465
1993	823,018	216,258	1,039,276	790,570	467,458	307,173	186,929	22,190	60,687	3,285	86,162	1,838,292	2,877,568
1994	235,448	135,863	371,311	72,104	520,864	514,182	143,525	28,567	32,314	949	61,830	1,312,505	1,683,816
1995	173,571	93,530	267,101	206,860	3,191	52,921	174,183	82,082	14,528	0	96,610	533,765	800,866
1996	1,007,659	128,777	1,136,436	995,237	34,926	44,795	249,658	263,870	72,615	0	336,485	1,661,101	2,797,537
1997	1,125,526	334,726	1,460,252	1,020,376	270,496	167,556	237,470	150,391	77,358	5,367	233,116	1,929,014	3,389,266
1998	427,675	626,553	1,054,228	292,559	187,095	243,303	230,118	45,704	91,684	1,213	138,601	1,091,676	2,145,904
1999	628,224	146,209	774,433	471,690	307,845	353,425	431,851	144,268	165,099	0	309,367	1,874,178	2,648,611
2000	3,145,891	433,733	3,579,624	2,800,331	1,657,007	793,849	546,024	224,130	182,700	10,414	417,244	6,214,455	9,794,079
2001	2,232,384	487,845	2,720,229	922,107	2,819,978	841,760	416,338	217,533	48,541	2,554	268,628	5,268,811	7,989,040
2002	274,304	697,209	971,513	112,154	435,225	1,001,961	640,835	86,152	361,570	8,156	455,878	2,646,053	3,617,566
2003	136,009	497,809	633,818	116,352	120,965	345,914	466,463	70,510	132,708	7,476	210,694	1,260,388	1,894,206
2004	937,675	578,275	1,515,950	846,232	359,958	266,305	557,742	288,177	166,916	7,971	463,064	2,493,301	4,009,251
2005	1,020,682	440,895	1,461,577	1,040,777	375,038	638,701	514,912	112,435	84,155	1,618	198,208	2,767,636	4,229,213
<b>Kujulik Bay</b>													
1989	83,550	13,089	96,639	78,148	722	9,150	11,386	931	0	0	931	100,337	196,976
1990	394,255	122,744	516,999	380,715	2,193	10,486	10,206	2,525	0	0	2,525	406,125	923,124
1991	8,256	949	9,205	14,470	0	0	0	0	0	0	0	14,470	23,675
1992	108,457	18,988	127,445	129,874	760	760	3,038	0	1,519	0	1,519	135,951	263,396
1993	107,646	16,184	123,830	100,150	81,074	29,658	1,367	0	0	0	0	212,249	336,079

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Table 7.--Page 6 of 6.

Year	Females			No. Sublegal Males by size (mm CW)				Recruits	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	≥165			
1994	7,736	3,190	10,926	9,141	7,322	4,952	6,471	0	2,279	0	2,279	30,165	41,091
1995	851	28,922	29,773	2,772	0	911	456	0	0	0	0	4,139	33,912
1996	231,502	7,595	239,097	188,334	0	0	0	0	0	0	0	188,334	427,431
1997	49,589	61,537	111,126	63,018	456	3,711	14,105	0	5,425	0	5,425	86,715	197,841
1998	39,290	15,190	54,480	38,305	0	2,279	3,798	0	760	0	760	45,142	99,622
1999	92,824	0	92,824	88,526	456	0	0	0	456	0	456	89,438	182,262
2000	221,879	949	222,828	262,224	1,307	0	0	0	0	0	0	263,531	486,359
2001	188,570	0	188,570	213,511	760	2,640	0	931	0	0	931	217,842	406,412
2002	15,870	844	16,714	16,479	6,179	7,689	3,376	844	0	0	844	34,567	51,281
2003	374,935	0	374,935	451,837	949	0	0	0	0	0	0	452,786	827,721
2004	301,627	0	301,627	351,399	9,545	2,279	949	0	0	0	0	364,172	665,799
2005	159,268	0	159,268	150,081	4,093	2,318	0	0	0	0	0	156,492	315,760
<b>CHIGNIK DISTRICT TOTALS</b>													
1989	1,451,509	1,239,777	2,691,286	1,391,667	385,664	1,511,525	1,240,964	420,381	43,361	33,676	497,418	5,027,238	7,718,524
1990	3,208,991	629,299	3,838,290	2,977,997	276,802	431,850	930,277	276,486	100,721	6,582	383,789	5,000,715	8,839,005
1991	1,978,830	541,103	2,519,933	1,898,654	212,706	138,753	229,574	161,872	71,486	3,270	236,628	2,716,315	5,236,248
1992	1,582,231	351,412	1,933,643	1,694,201	130,859	77,317	56,757	21,271	35,259	3,270	59,800	2,018,934	3,952,577
1993	1,119,174	251,937	1,371,111	994,727	658,849	384,345	206,384	40,648	70,129	3,939	114,716	2,359,021	3,730,132
1994	335,740	159,829	495,569	126,937	570,773	546,992	159,978	42,936	37,371	949	81,256	1,485,936	1,981,505
1995	456,542	165,594	622,136	541,142	19,515	100,618	209,445	112,050	15,020	2,532	129,602	1,000,322	1,622,458
1996	1,311,749	137,071	1,448,820	1,257,268	76,575	51,685	257,530	272,624	72,615	0	345,239	1,988,297	3,437,117
1997	1,797,334	530,773	2,328,107	1,516,168	1,107,980	591,269	357,066	162,312	108,597	15,742	286,651	3,859,134	6,187,241
1998	773,292	926,779	1,700,071	573,805	366,937	476,412	323,433	72,768	123,462	1,213	197,443	1,938,030	3,638,101
1999	965,749	228,196	1,193,945	804,677	390,004	421,252	525,146	171,663	169,664	3,165	344,492	2,485,571	3,679,516
2000	5,262,837	584,794	5,847,631	5,213,107	1,800,659	906,517	646,178	326,609	198,477	77,220	602,306	9,168,767	15,016,398
2001	3,821,928	911,410	4,733,338	2,343,042	3,404,649	1,225,872	578,202	264,537	100,401	10,995	375,933	7,927,698	12,661,036
2002	1,443,489	1,170,094	2,613,583	1,144,976	2,765,803	2,627,099	1,105,649	125,667	378,159	9,438	513,264	8,156,791	10,770,374
2003	799,290	989,603	1,788,893	703,152	872,879	1,104,620	941,106	123,302	187,365	15,073	325,740	3,947,497	5,736,390
2004	2,590,811	1,315,105	3,905,916	2,797,139	686,107	1,710,840	2,021,158	695,833	234,701	19,389	949,923	8,165,167	12,071,083
2005	4,304,253	1,497,874	5,802,127	4,602,293	827,946	928,807	1,040,852	287,443	162,739	6,084	456,266	7,856,164	13,658,291

**Table 8.**—Percent of catch by weight of the top species groups in the Alaska Peninsula Area trawl survey, 2005.

Rank	Common name	Species name	% of catch by weight
1	Arrowtooth flounder	<i>Atheresthes stomias</i>	30.7
2	Flathead sole	<i>Hippoglossoides elassodon</i>	18.5
3	Walleye pollock	<i>Theragra chalcogramma</i>	15.4
4	Yellowfin sole	<i>Pleuronectes aspera</i>	8.4
5	Pacific halibut	<i>Hippoglossus stenolepis</i>	4.2
6	Tanner crab	<i>Chionoecetes bairdi</i>	3.1
7	Sea anemone	Order: Actinaria	2.7
8	Starry flounder	<i>Platichthys stellatus</i>	2.2
9	Sunflower sea star	<i>Pycnopodia helianthoides</i>	1.8
10	Alaska plaice	<i>Pleuronectes quadrituberculatus</i>	1.8
11	Northern rock sole	<i>Lepidopsetta perarcuata</i>	1.5
12	Pacific cod	<i>Gadus macrocephalus</i>	1.5
13	Great sculpin	<i>Myoxocephalus polyacanthocephalus</i>	1.4
14	Big skate	<i>Raja binoculata</i>	0.8
15	Rex sole	<i>Glyptocephalus zachirus</i>	0.5
16	Purple-orange sea star	<i>Asterias amurensis</i>	0.5
17	Hermit crab	Family: Paguridae	0.4
18	Jellyfish	Class: Schyphozoa	0.3
19	Dungeness crab	<i>Cancer magister</i>	0.3
20	Butter sole	<i>Pleuronectes isolepis</i>	0.2
	All others	(106 species)	3.8
			100.0

**Table 9.**—Tanner crab population estimates from trawl surveys in the Eastern Aleutian District, 1990-2005.

Year	Females			Sublegal Males (mmCW)				Recruit	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
<b>AKUTAN BAY</b>													
1990	464,233	779,189	1,243,422	621,580	927,652	454,522	148,140	15,190	0	0	15,190	2,167,084	3,410,506
1991	745,793	580,770	1,326,563	812,713	355,129	533,276	374,345	13,291	13,291	0	26,582	2,102,045	3,428,608
1994	949	2,937	3,886	2,937	7,685	15,638	34,572	2,848	949	0	3,797	64,629	68,515
1995	19,077	5,696	24,773	12,521	8,294	32,137	100,690	949	8,903	0	9,852	163,494	188,267
1999	126,273	698,970	825,243	20,308	148,942	726,903	1,055,747	211,475	4,451	0	215,926	2,167,826	2,993,069
2000	7,038	251,383	258,421	7,034	12,322	167,578	327,390	86,955	17,651	0	104,606	618,930	877,351
2003	56,779	694,494	751,273	38,383	140,581	416,421	122,993	21,155	74,181	4,066	99,402	817,780	1,569,053
2004	132,737	1,026,429	1,159,166	75,944	228,035	293,316	225,456	10,533	23,424	2,078	36,035	858,786	2,017,952
2005	128,780	514,705	643,485	85,513	201,219	191,187	274,966	50,725	9,975	1,187	61,887	814,772	1,458,257
<b>BEAVER INLET</b>													
1990	943,653	190,344	1,133,997	931,324	229,434	97,915	27,056	3,093	772	0	3,865	1,289,594	2,423,591
1991	468,821	136,295	605,116	446,024	178,136	72,435	21,868	2,123	0	0	2,123	720,586	1,325,702
1994	38,944	51,618	90,562	33,996	6,696	41,034	47,663	17,028	772	0	17,800	147,189	237,751
1995	702,658	28,666	731,324	555,914	15,770	6,531	8,478	3,687	0	0	3,687	590,380	1,321,704
1999	159,654	14,615	174,269	145,897	7,207	5,860	1,543	0	1,543	0	1,543	162,050	336,319
2000	249,908	19,455	269,363	215,534	19,505	11,892	2,577	0	0	0	0	249,508	518,871
2003	70,900	95,139	166,039	135,175	109,282	51,368	5,414	0	0	0	0	301,239	467,278
<b>UNALASKA/KALEKTA BAY</b>													
1990	1,120,173	359,538	1,479,711	664,933	59,141	78,357	42,847	11,544	793	2,002	14,339	859,617	2,339,328
1991	981,240	137,467	1,118,707	920,709	167,932	41,207	25,026	8,906	0	1,001	9,907	1,164,781	2,283,488
1994	17,484	1,465	18,949	17,485	949	0	1,982	949	1,549	0	2,498	22,914	41,863
1995	23,706	7,595	31,301	17,863	3,387	10,847	1,899	1,309	0	0	1,309	35,305	66,606
1999	230,687	194,469	425,156	141,403	95,640	253,997	313,785	123,839	43,171	1,356	168,366	973,191	1,398,347
2000	248,548	952,496	1,201,044	31,132	195,166	243,495	148,668	35,059	12,573	738	48,370	666,831	1,867,875
2003	72,717	7,654	80,371	82,917	6,985	55,771	390,914	99,621	174,933	7,150	281,704	818,291	898,662
2004	349,355	138,187	487,542	339,323	129,071	53,331	26,662	68,615	6,226	8,008	82,849	631,236	1,118,778
2005	854,570	212,211	1,066,781	652,400	241,781	90,170	47,959	20,182	6,616	2,730	29,528	1,061,838	2,128,619
<b>MAKUSHIN BAY</b>													
1990	440,133	313,413	753,546	368,957	83,150	76,482	125,452	6,927	23,029	0	29,956	683,997	1,437,543
1991	89,388	149,173	238,561	76,314	85,035	51,894	70,212	5,911	29,134	2,576	37,621	321,076	559,637
1994	148,701	159,043	307,744	127,268	19,767	98,635	109,428	36,354	1,662	0	38,016	393,114	700,858

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Table 9.–Page 2 of 3.

Year	Females			Sublegal Males (mmCW)				Recruit	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
1995	125,736	85,759	211,495	93,308	25,608	38,406	51,872	2,837	8,622	0	11,459	220,653	432,148
1999	539,110	79,122	618,232	487,270	37,716	50,718	41,163	4,800	9,597	0	14,397	631,264	1,249,496
2000	570,431	152,224	722,655	451,979	122,785	42,701	17,963	2,349	0	0	2,349	637,777	1,360,432
2003	66,514	1,156,497	1,223,011	47,714	83,157	278,037	484,002	190,822	74,521	1,159	266,502	1,159,412	2,382,423
2004	119,730	696,041	815,771	128,034	44,207	220,337	372,695	365,230	50,739	7,428	423,397	1,188,670	2,004,441
2005	316,090	229,932	546,022	341,081	23,371	35,372	311,692	165,906	211,288	6,985	384,179	1,095,695	1,641,717
<b>USOF BAY</b>													
1990	103,298	25,189	128,487	103,381	100,686	29,612	2,023	574	0	0	574	236,276	364,763
1991	89,209	70,803	160,012	232,477	259,878	66,540	26,990	4,497	2,625	0	7,122	593,007	753,019
1994	15,861	3,500	19,361	13,783	8,932	6,187	7,638	875	0	0	875	37,415	56,776
1995	33,624	3,343	36,967	42,260	10,195	6,931	4,375	0	2,625	0	2,625	66,386	103,353
1999	79,820	11,426	91,246	70,550	13,340	2,523	0	0	0	0	0	86,413	177,659
2000	52,026	7,968	59,994	48,176	4,710	4,710	0	0	0	0	0	57,596	117,590
2003	30,966	70,430	101,396	34,381	90,009	151,473	30,169	0	899	0	899	306,931	408,327
<b>AKUN BAY</b>													
1990	2,123	1,063	3,186	0	0	0	0	0	0	0	0	0	3,186
1991	0	0	0	1,060	0	0	0	0	0	0	0	1,060	1,060
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	4,253	1,063	5,316	0	4,253	4,253	0	0	0	0	0	8,506	13,822
2000	3,305	5,317	8,622	6,495	3,190	0	0	0	0	0	0	9,685	18,307
2003	0	3,187	3,187	0	1,063	2,127	0	0	0	0	0	3,190	6,377
<b>PUMICESTONE BAY</b>													
1990	48,859	0	48,859	48,607	674	0	0	0	0	0	0	49,281	98,140
1991	22,565	235	22,800	18,870	5,865	1,173	0	0	235	0	235	26,143	48,943
1994	6,510	909	7,419	5,748	5,366	5,220	674	0	0	0	0	17,008	24,427
1995	10,299	3,543	13,842	9,495	3,965	3,754	1,349	0	0	0	0	18,563	32,405
1999	13,078	0	13,078	8,657	1,171	0	1,499	749	749	0	1,498	12,825	25,903
2000	3,304	1,499	4,803	352	749	0	2,997	749	0	0	749	4,847	9,650
2003	231,873	21,026	252,899	284,394	78,649	25,453	2,698	674	0	0	674	391,868	644,767
2004	27,652	674	28,326	17,536	1,348	1,349	337	0	0	0	0	20,570	48,896
2005	46,067	19,559	65,626	42,050	19,559	49,234	7,419	1,349	674	0	2,023	120,285	185,911

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Table 9.—Page 3 of 3.

Year	Females			Sublegal Males (mmCW)				Recruit	Postrecruit (mm CW)		Total Legal	Total Males	Total Crabs
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
<b>CAPE IDAK</b>													
1990	3,255	3,662	6,917	0	2,713	0	2,713	0	3,255	0	3,255	8,681	15,598
1991	119,622	2,848	122,470	122,470	3,797	949	1,898	0	0	0	0	129,114	251,584
1994	0	949	949	2,848	5,697	0	0	0	0	0	0	8,545	9,494
1995	0	0	0	0	1,898	0	0	0	0	0	0	1,898	1,898
1999	949	2,848	3,797	3,798	3,798	1,898	0	0	0	0	0	9,494	13,291
2000	12,342	5,697	18,039	18,038	19,937	9,493	949	0	0	0	0	48,417	66,456
2003	0	6,646	6,646	1,898	9,493	18,038	0	0	0	0	0	29,429	36,075
<b>INANUDAK BAY</b>													
1990	4,658	0	4,658	0	0	3,110	949	0	0	0	0	4,059	8,717
1994	3,390	0	3,390	1,695	0	0	0	0	0	0	0	1,695	5,085
<b>EASTERN ALEUTIAN TOTALS</b>													
1990	3,130,385	1,672,398	4,802,783	2,738,782	1,403,450	739,998	349,180	37,328	27,849	2,002	67,179	5,298,589	10,101,372
1991	2,516,638	1,077,591	3,594,229	2,630,637	1,055,772	767,474	520,339	34,728	45,285	3,577	83,590	5,057,812	8,652,041
1994	231,839	220,421	452,260	205,760	55,092	166,714	201,957	58,054	4,932	0	62,986	692,509	1,144,769
1995	915,100	134,602	1,049,702	731,361	69,117	98,606	168,663	8,782	20,150	0	28,932	1,096,679	2,146,381
1999	1,153,824	1,002,513	2,156,337	877,883	312,067	1,046,152	1,413,737	340,863	59,511	1,356	401,730	4,051,569	6,207,906
2000	1,146,902	1,396,039	2,542,941	778,740	378,364	479,869	500,544	125,112	30,224	738	156,074	2,293,591	4,836,532
2003	529,749	2,055,073	2,584,822	624,862	519,219	998,688	1,036,190	312,272	324,534	12,375	649,181	3,828,140	6,412,962
2004	629,474	1,861,331	2,490,805	560,837	402,661	568,333	625,150	444,378	80,389	17,514	542,281	2,699,262	5,190,067
2005	1,345,507	976,407	2,321,914	1,121,044	485,930	365,963	642,036	238,162	228,553	10,902	477,617	3,092,590	5,414,504

**Table 10.**—Percent of catch by weight of the top species groups in the Aleutian Islands Area trawl survey, 2005.

Rank	Common name	Species name	% of catch by weight
1	Arrowtooth flounder	<i>Atheresthes stomias</i>	25.0
2	Walleye pollock	<i>Theragra chalcogramma</i>	18.8
3	Flathead sole	<i>Hippoglossoides elassodon</i>	15.7
4	Rex sole	<i>Glyptocephalus zachirus</i>	11.9
5	Tanner crab	<i>Chionoecetes bairdi</i>	8.5
6	Pacific halibut	<i>Hippoglossus stenolepis</i>	3.2
7	Sunflower sea star	<i>Pycnopodia helianthoides</i>	2.6
8	Pacific cod	<i>Gadus macrocephalus</i>	2.4
9	Northern rock sole	<i>Lepidopsetta perarcuata</i>	1.3
10	Southern rock sole	<i>Isopsetta isolepis</i>	1.2
11	Dover sole	<i>Microstomus pacificus</i>	0.9
12	Anemone	order: Actinaria	0.8
13	Rougheye rockfish	<i>Sebastes aleutianus</i>	0.8
14	Yellow Irish lord	<i>Hemilepidotus jordani</i>	0.7
15	English sole	<i>Paraphrys vetulus</i>	0.6
16	Giant Pacific octopus	<i>Octopus dofleini</i>	0.6
17	Sea urchin	superorder: Echinacea	0.4
18	Great sculpin	<i>Myoxocephalus polyacanthocephalus</i>	0.4
19	Giant Pacific octopus	<i>Octopus dofleini</i>	0.4
20	Basket star	<i>Gorgonocephalus sp.</i>	0.4
	All others	(67 species)	3.4
			100.0

**Table 11.**—Percent prevalence of bitter crab syndrome (BCS) determined from Alitak Bay samples, 1996-2005.

Station	BITTER CRAB SAMPLING YEAR									
	1996	1997	1998	1999	2000	2001	2002	2003 <sup>a</sup>	2004	2005
ALA	0.0	0.0	0.0	3.3	3.3	0.0	6.7	na	3.3	0.0
ALB	na	na	0.0	0.0	0.0	0.0	3.3	na	0.0	0.0
ALC	3.3	3.3	0.0	0.0	0.0	3.4	0.0	na	0.0	6.7
ALD	0.0	na	3.6	0.0	0.0	0.0	0.0	na	3.3	3.4
ALF	6.9	7.7	na	0.0	0.0	0.0	3.3	na	0.0	0.0
ALG	0.0	3.3	0.0	6.7	3.3	25.0	3.3	na	3.3	3.3
ALH	0.0	3.0	0.0	0.0	3.3	0.0	3.3	na	3.3	0.0
ALI	0.0	0.0	0.0	3.3	13.3	0.0	0.0	na	0.0	0.0
ALJ	0.0	14.3	3.3	0.0	6.7	13.3	0.0	na	3.3	3.3
ALK	0.0	9.1	3.2	20.0	6.7	20.0	63.3	na	0.0	16.7
ALL	0.0	0.0	0.0	6.7	6.7	3.3	0.0	na	6.7	3.3
ALM	0.0	25.0	20.0	16.7	10.0	3.3	13.3	na	13.3	3.3
ALO	10.0	13.3	6.7	23.1	53.3	6.7	6.7	na	6.7	0.0
ALP	23.3	30.0	43.3	33.3	46.7	23.3	26.7	na	3.3	10.3
ALQ	31.0	36.7	43.3	36.7	33.3	45.8	30.0	na	3.4	0.0
ALR	13.3	26.7	12.9	38.9	16.7	20.0	10.0	na	0.0	3.3
Total <sup>b</sup>	6.6	13.6	18.1	7.6	4.7	3.7	4.3	na	2.5	3.2

<sup>a</sup> No samples in 2003.

<sup>b</sup> Percent prevalence of BCS in the entire Alitak Bay Tanner crab population



**Table 12.**—Estimated number of Tanner crabs per station with bitter crab syndrome and estimated population from stations sampled for bitter crab in Alitak Bay, 1996-2005.

Station	BITTER CRAB SAMPLING YEAR									
	1996	1997	1998	1999	2000	2001	2002	2003 <sup>a</sup>	2004	2005
ALA	0	0	0	246	72	0	8,593		865	0
ALB	no sample	no sample	0	0	0	0	4,721		0	0
ALC	2,808	4,788	0	0	0	4,669	0		0	9,840
ALD	0	no sample	247	0	0	0	0		3,646	1,154
ALF	2,357	1,899	no sample	0	0	0	38,829		0	0
ALG	0	1,322	0	1,880	3,024	223,527	17,584		5,374	3,465
ALH	0	2,748	0	0	9,542	0	25,345		284	0
ALI	0	0	0	1,154	70,548	0	0		0	0
ALJ	0	1,337	713	0	9,628	54,577	0		2,696	4,478
ALK	0	601	853	6,167	5,608	23,688	38,660		0	17,865
ALL	0	0	0	705	5,478	7,315	0		5,201	2,613
ALM	0	2,142	8,710	1,428	7,353	51,403	38,314		17,668	2,142
ALO	3,722	10,520	3,920	4,466	47,165	23,064	12,830		10,867	0
ALP	19,848	36,748	75,197	15,312	31,212	19,820	44,107		4,585	7,920
ALQ	29,105	52,165	39,257	7,252	11,803	17,532	22,393		9,393	0
ALR	10,821	35,861	3,822	4,147	5,046	20,260	11,493		0	5,095
Total infected	68,661	150,129	132,718	42,755	206,478	445,855	262,870		60,579	54,572
Population Estimate <sup>b</sup>	1,044,139	1,105,130	733,542	566,191	4,397,213	11,956,612	6,121,887	2,114,926	2,388,637	1,681,763

<sup>a</sup>No samples in 2003.

<sup>b</sup>Includes only the estimated population from stations in Alitak Bay that are sampled for bitter crab syndrome.

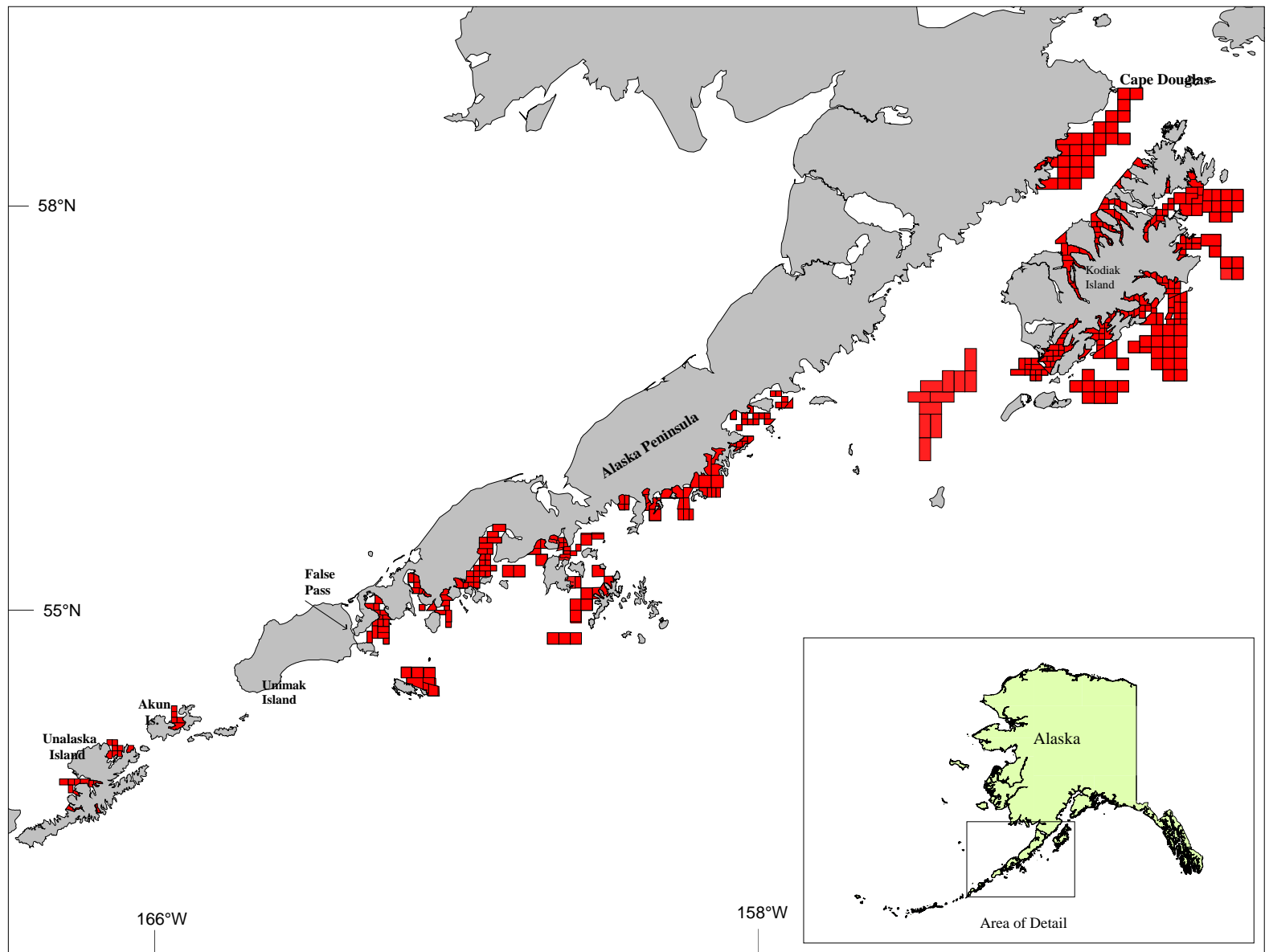
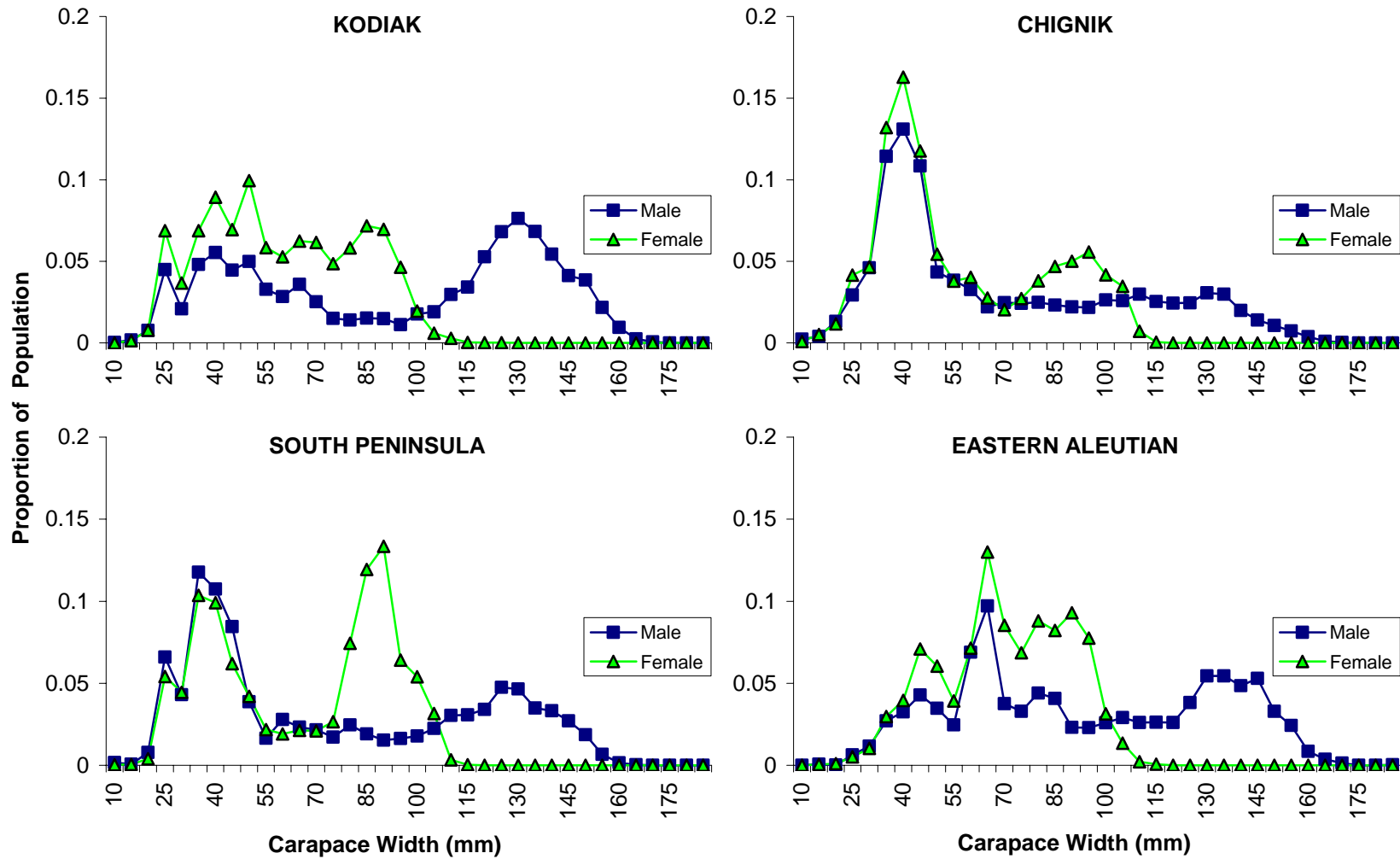
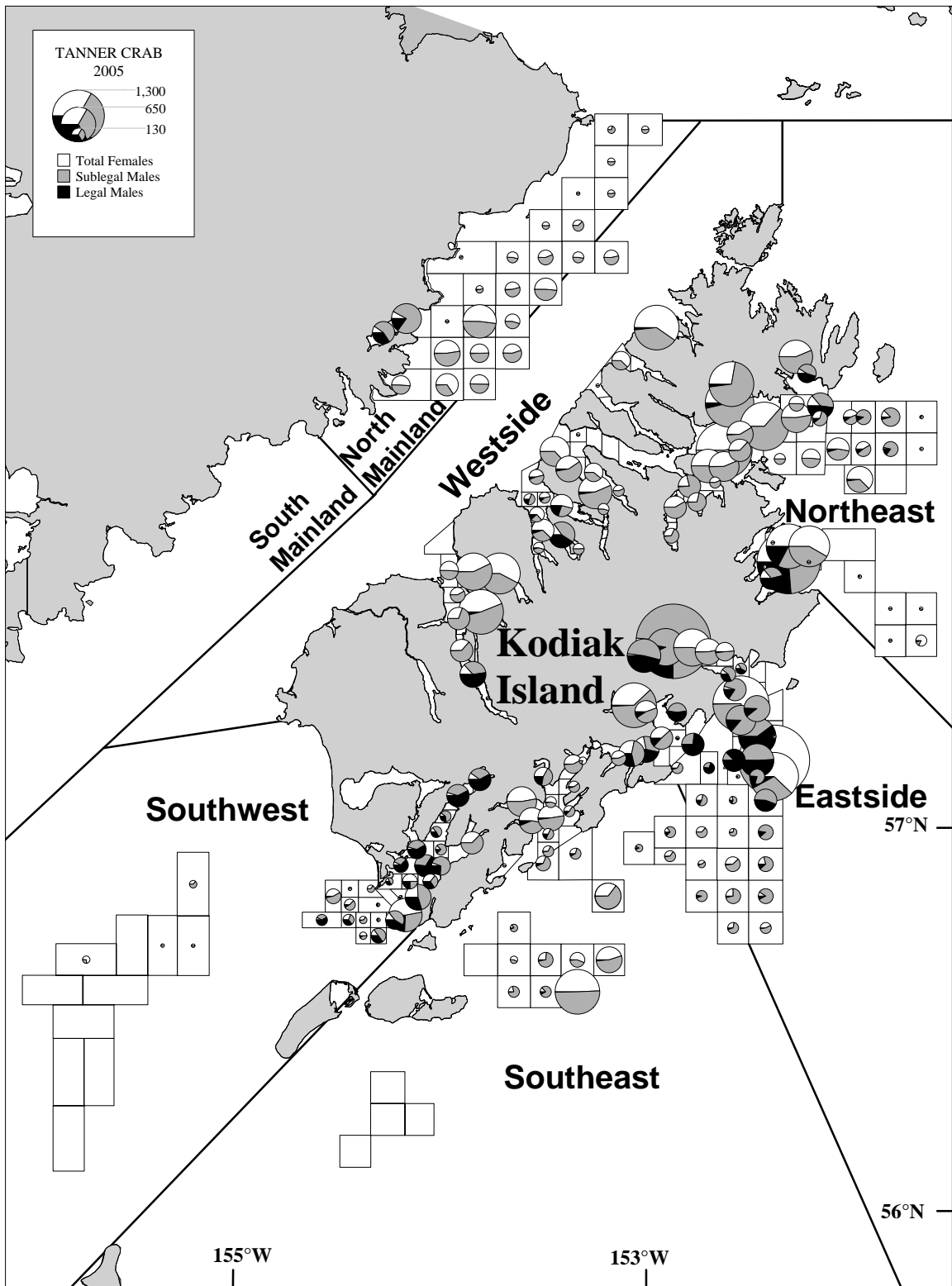


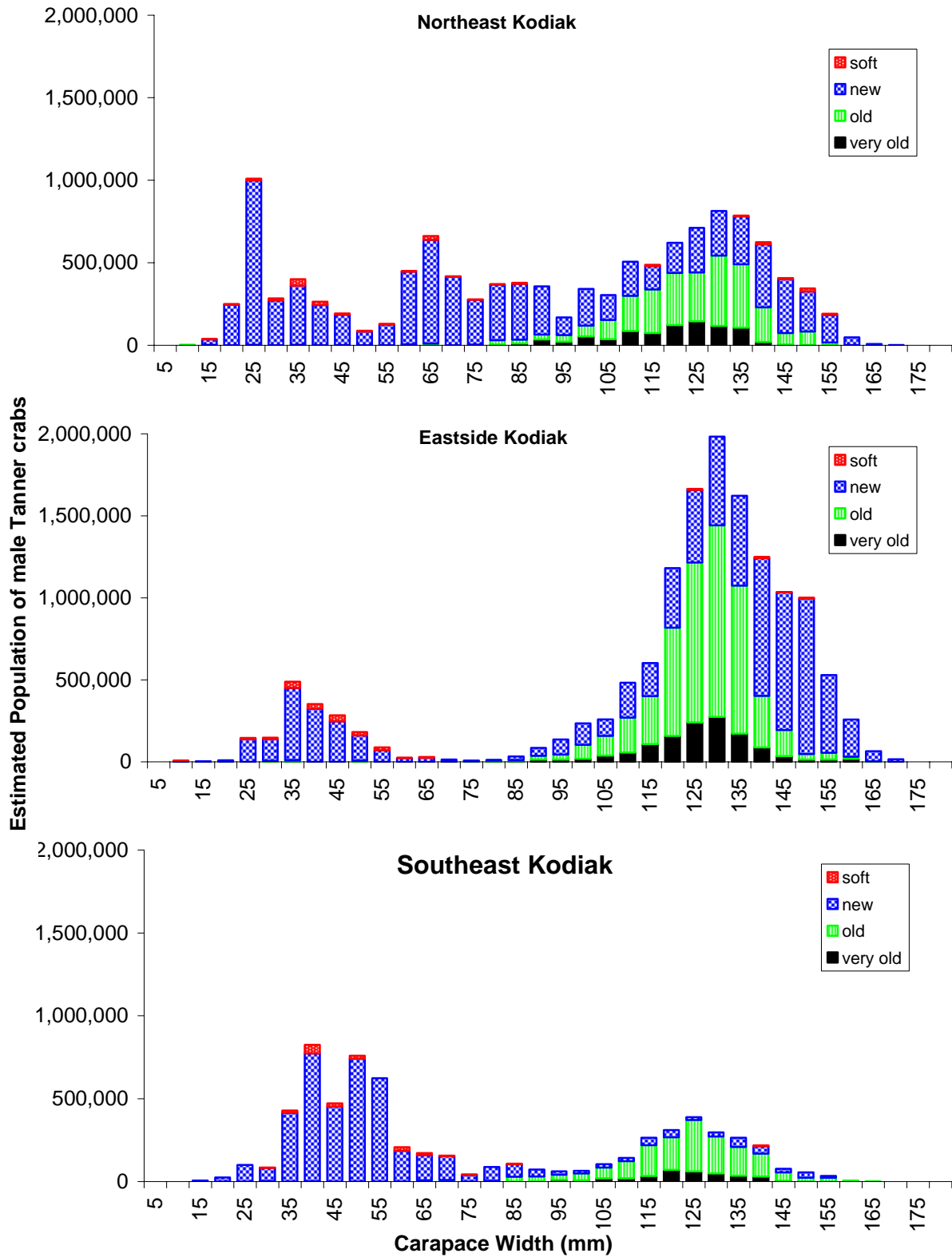
Figure 1.—Westward Region trawl survey area, 2005.



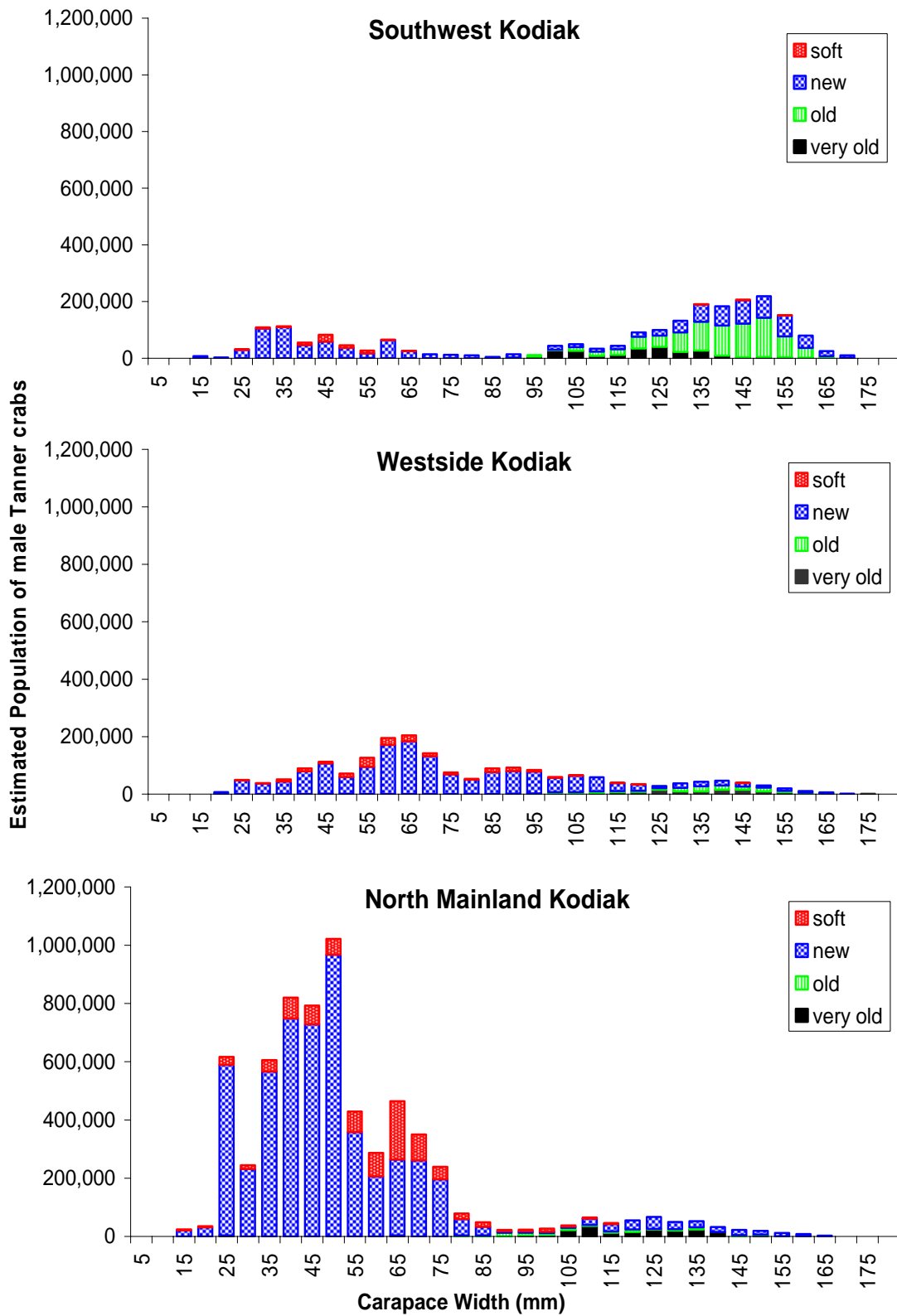
**Figure 2.**—Estimated male and female Tanner crab size frequency proportion by district from the 2005 Westward Region trawl survey.



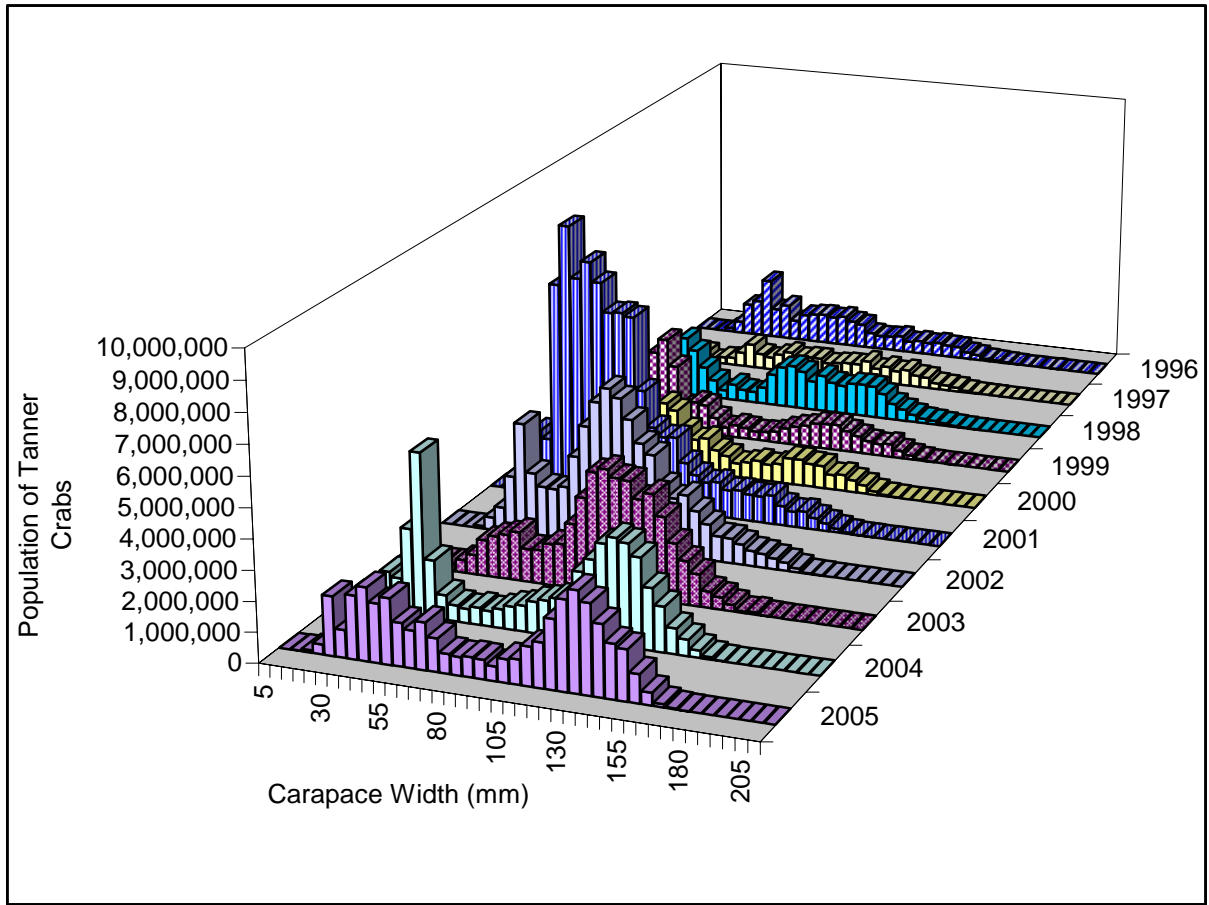
**Figure 3.**—Number of Tanner crabs per kilometer towed in the 2005 Kodiak trawl survey.



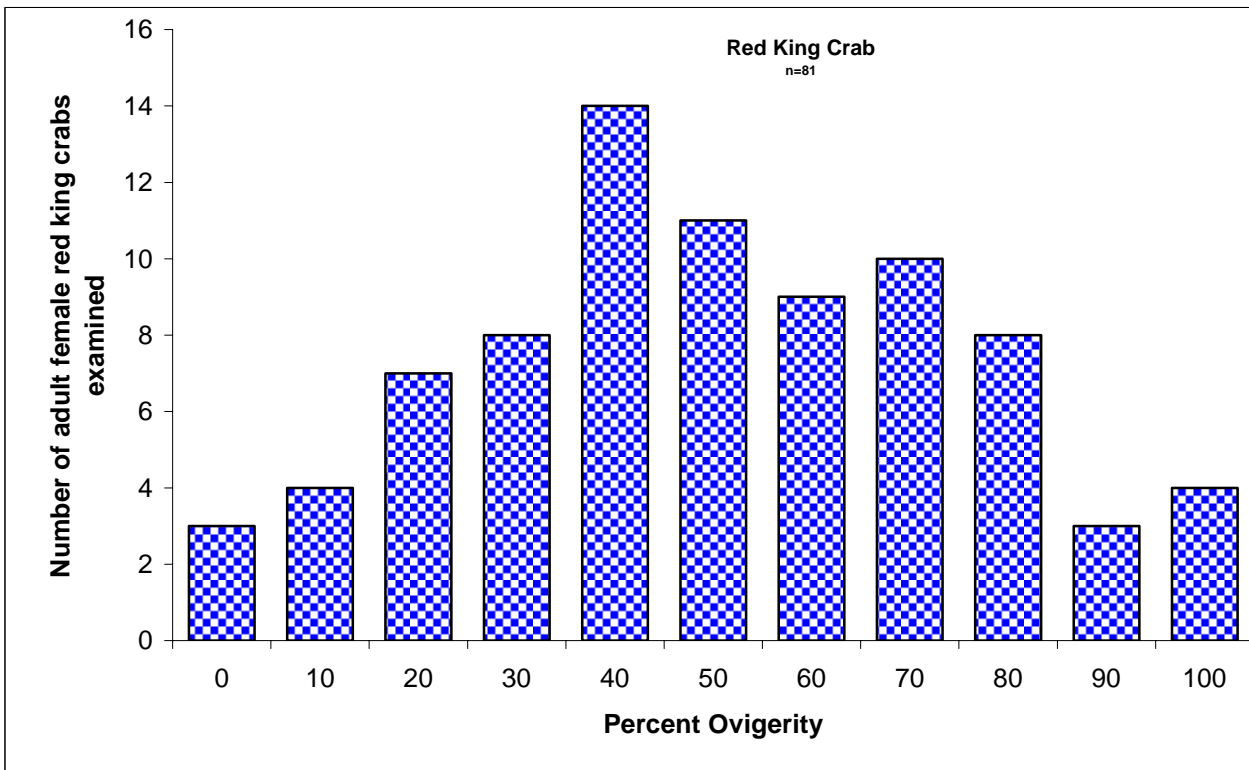
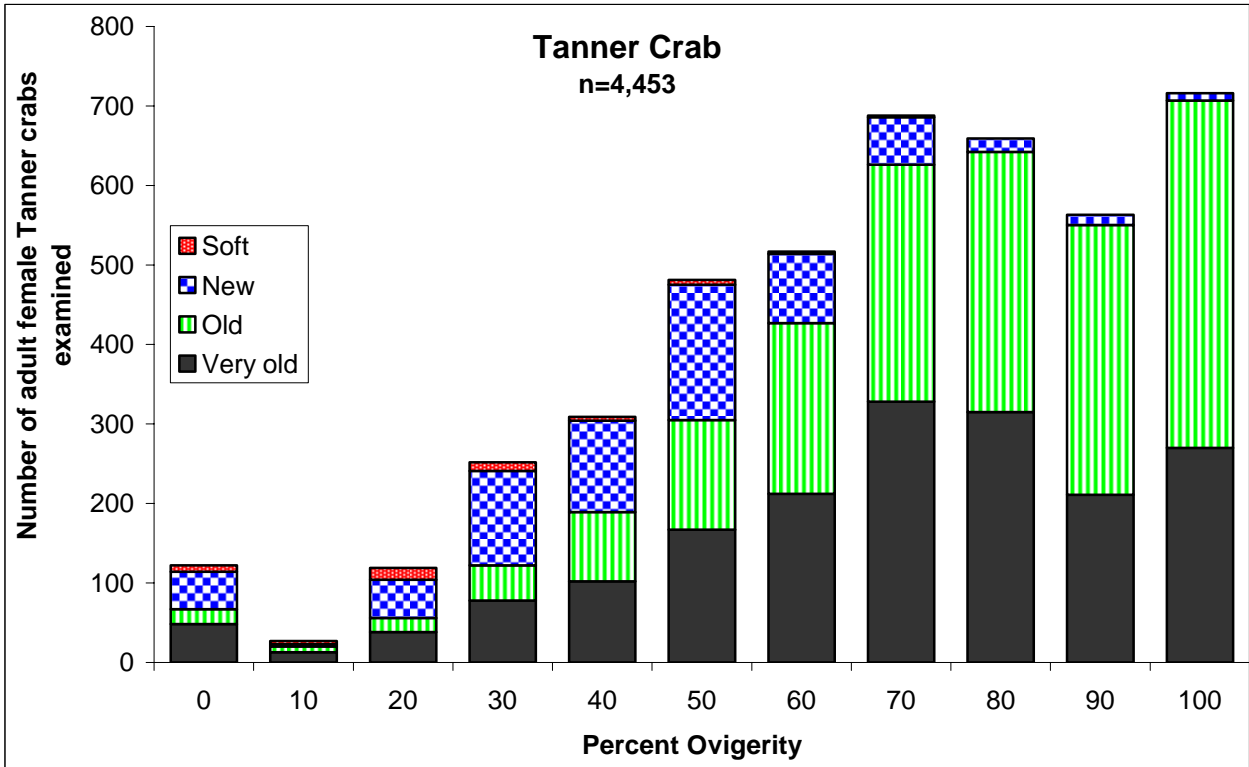
**Figure 4.**—Carapace width frequency by shell condition of the estimated population of male Tanner crabs from the Northeast, Eastside, and Southeast Sections of the 2005 Kodiak District trawl survey.



**Figure 5.**—Carapace width frequency by shell condition of the estimated population of male Tanner crabs from the Southwest, Westside, and North Mainland Sections of the 2005 Kodiak District trawl survey.

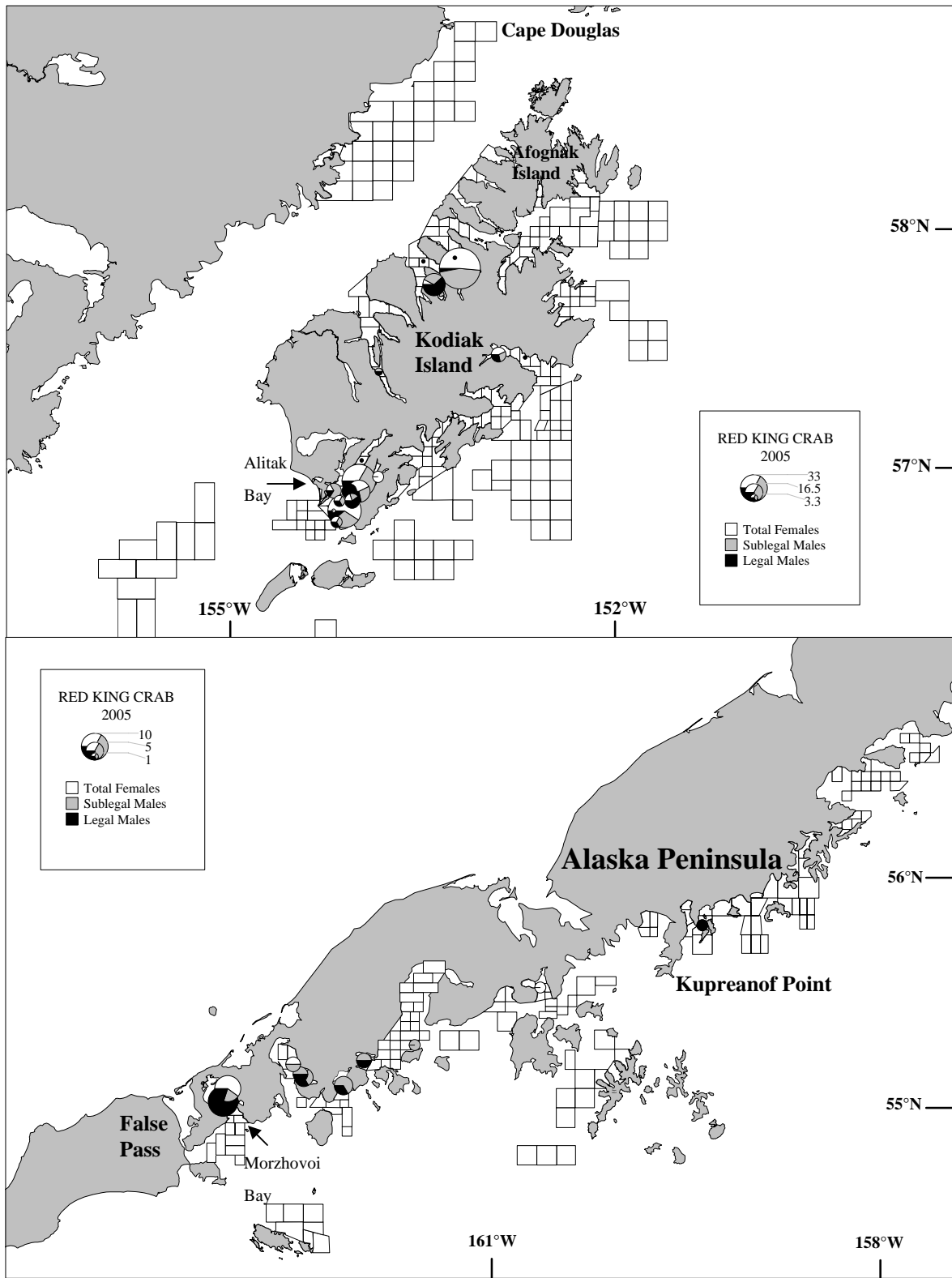


**Figure 6.**—Estimated population of male Tanner crabs by carapace width in the Kodiak District, 1996-2005.

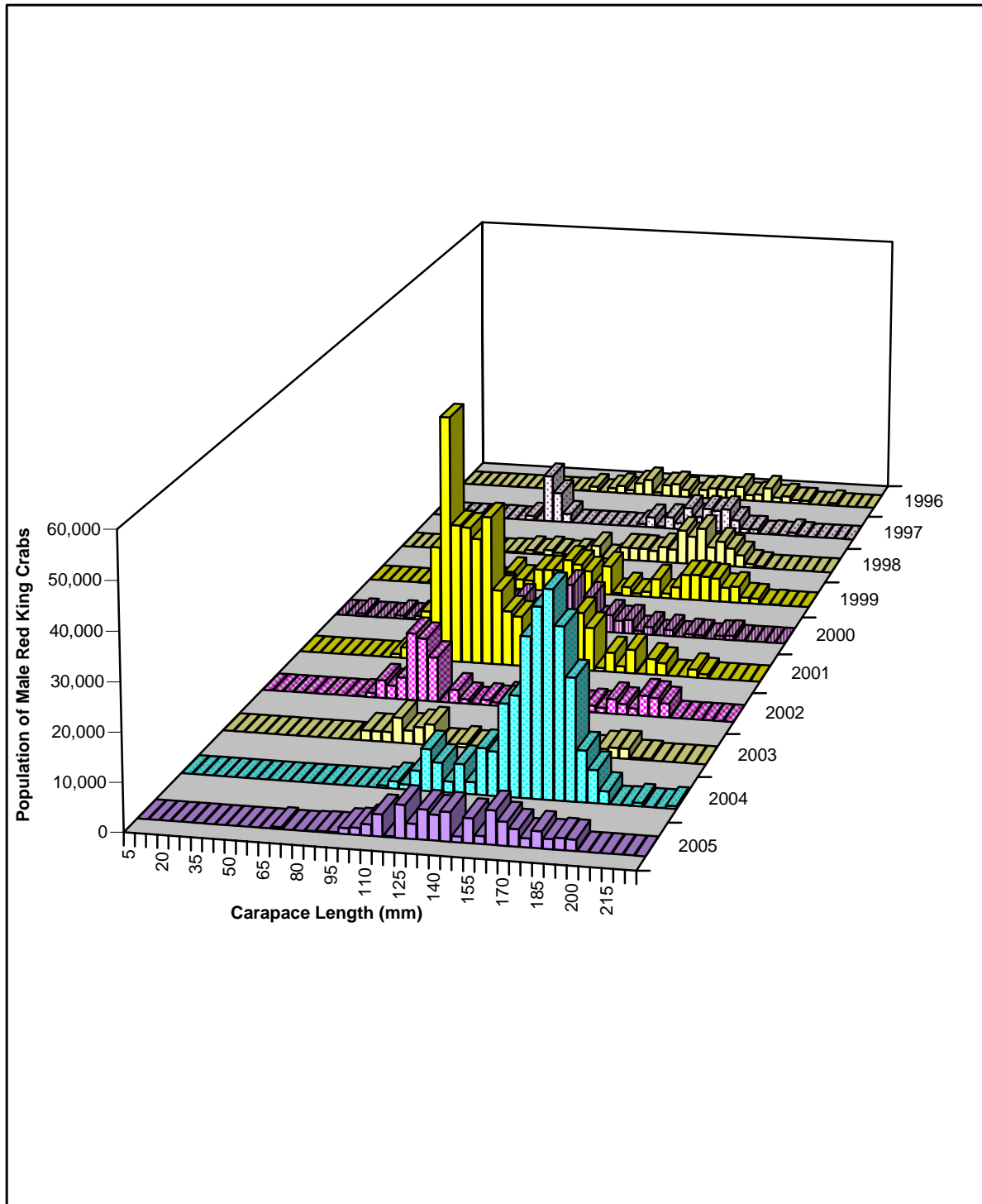


**Figure 7.**—Percent ovigerity (clutch fullness) by shell age of adult female Tanner and red king crabs captured in the Kodiak trawl survey, 2005.

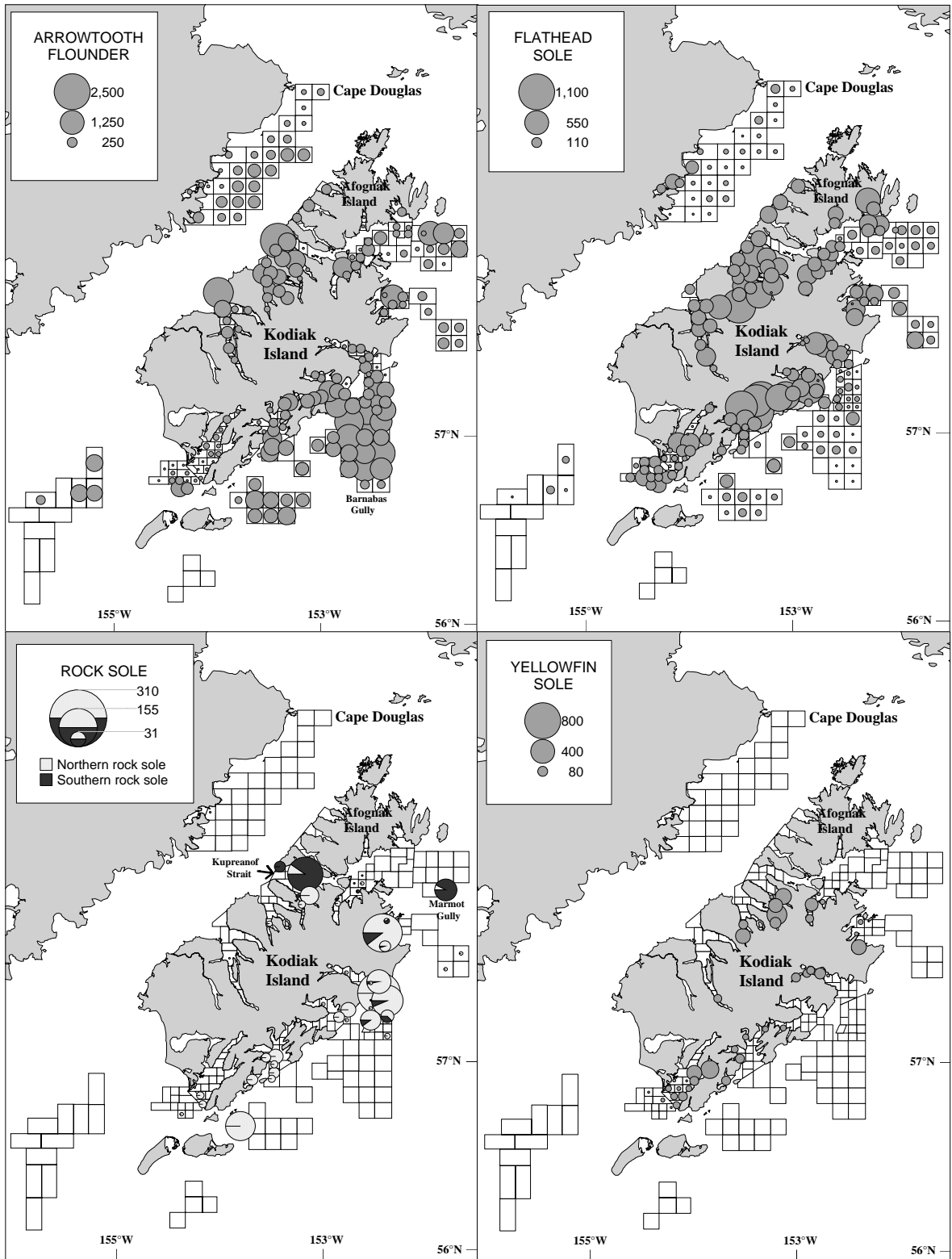




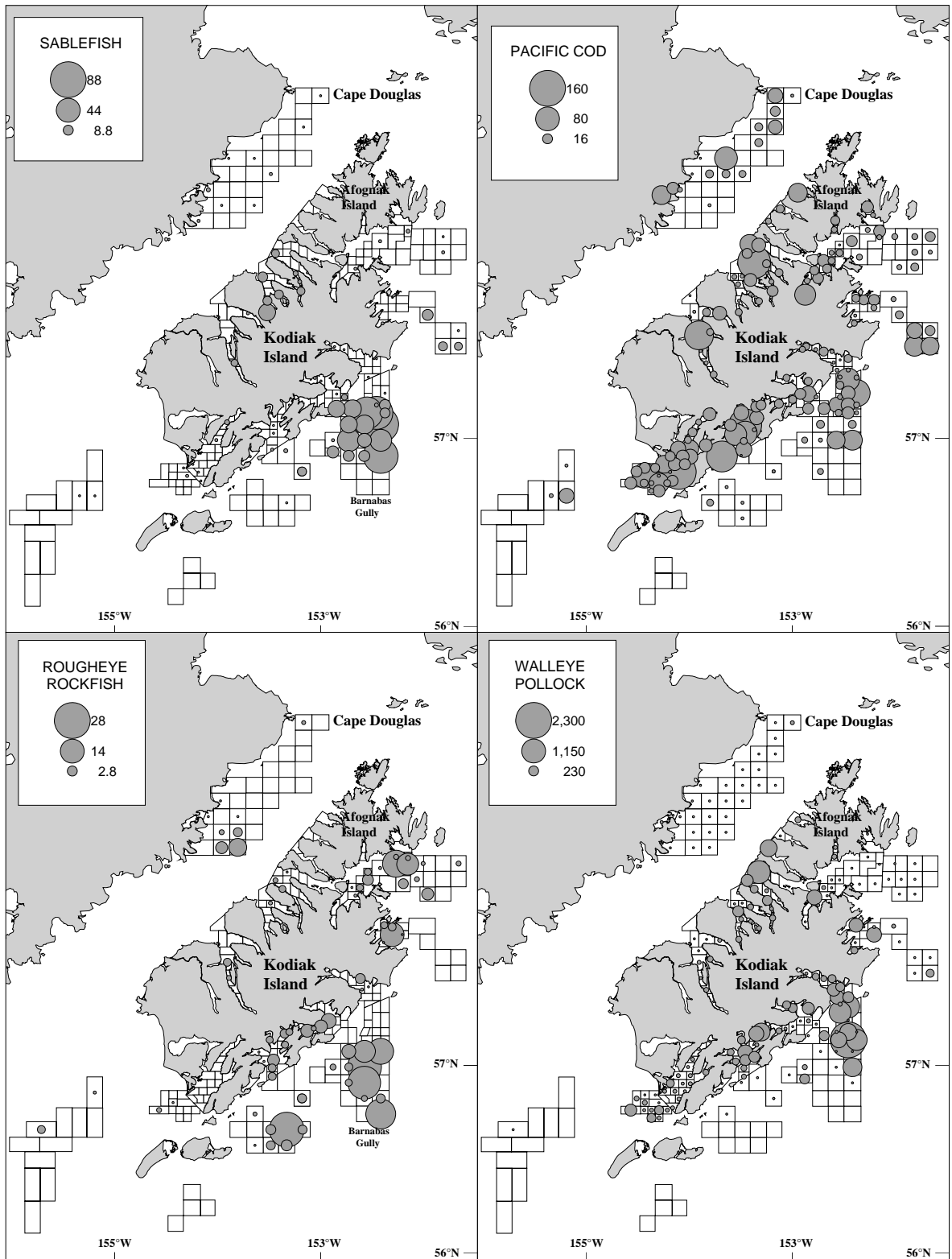
**Figure 8.**—Number of red king crabs per kilometer towed from the 2005 Kodiak and Alaska Peninsula Area trawl surveys.



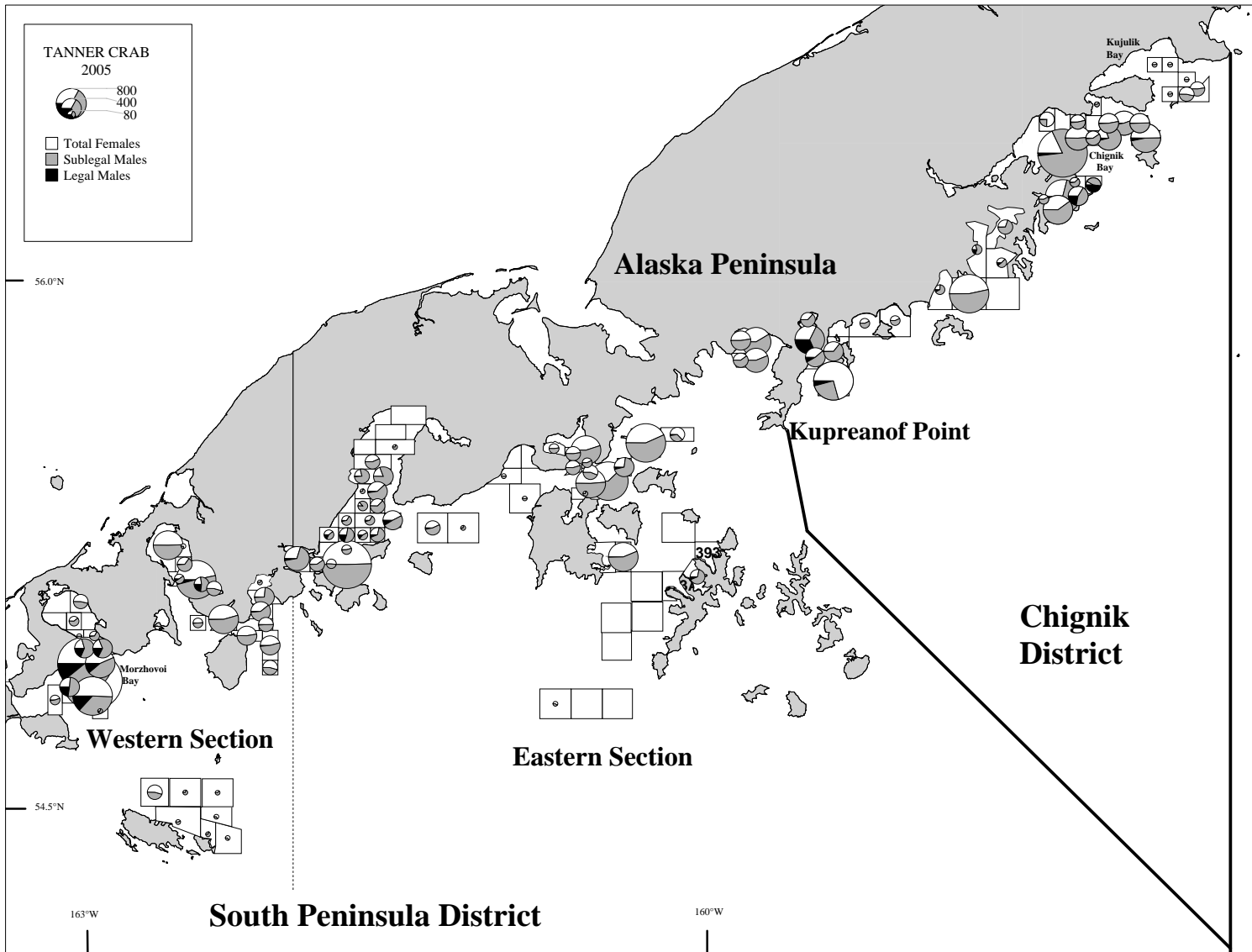
**Figure 9.**—Estimated population of male red king crabs by carapace length from the Kodiak Area, 1996-2005.



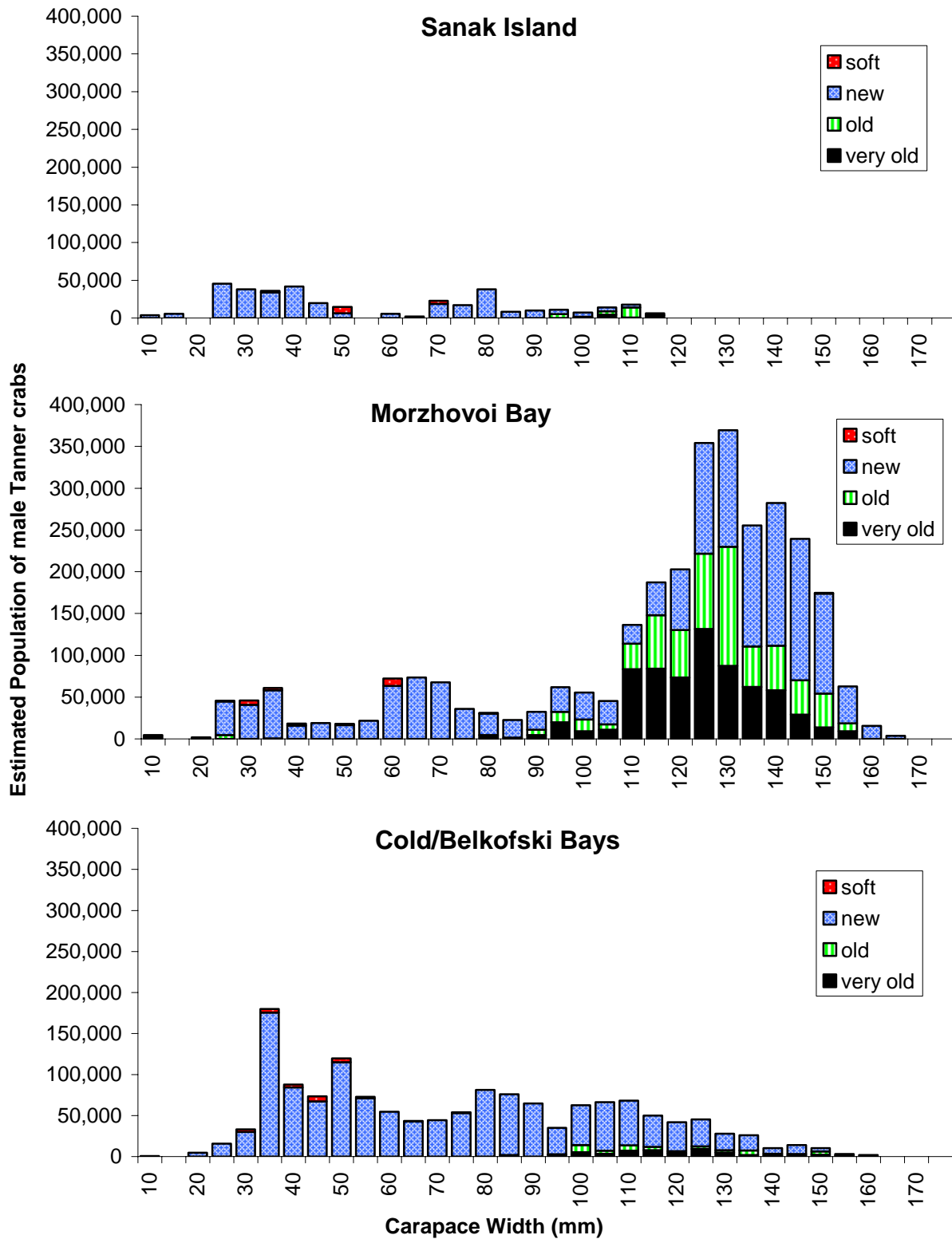
**Figure 10.**—Catch in kilograms per kilometer towed of arrowtooth flounder, flathead sole, rock sole, and yellowfin sole from the 2005 Kodiak trawl survey.



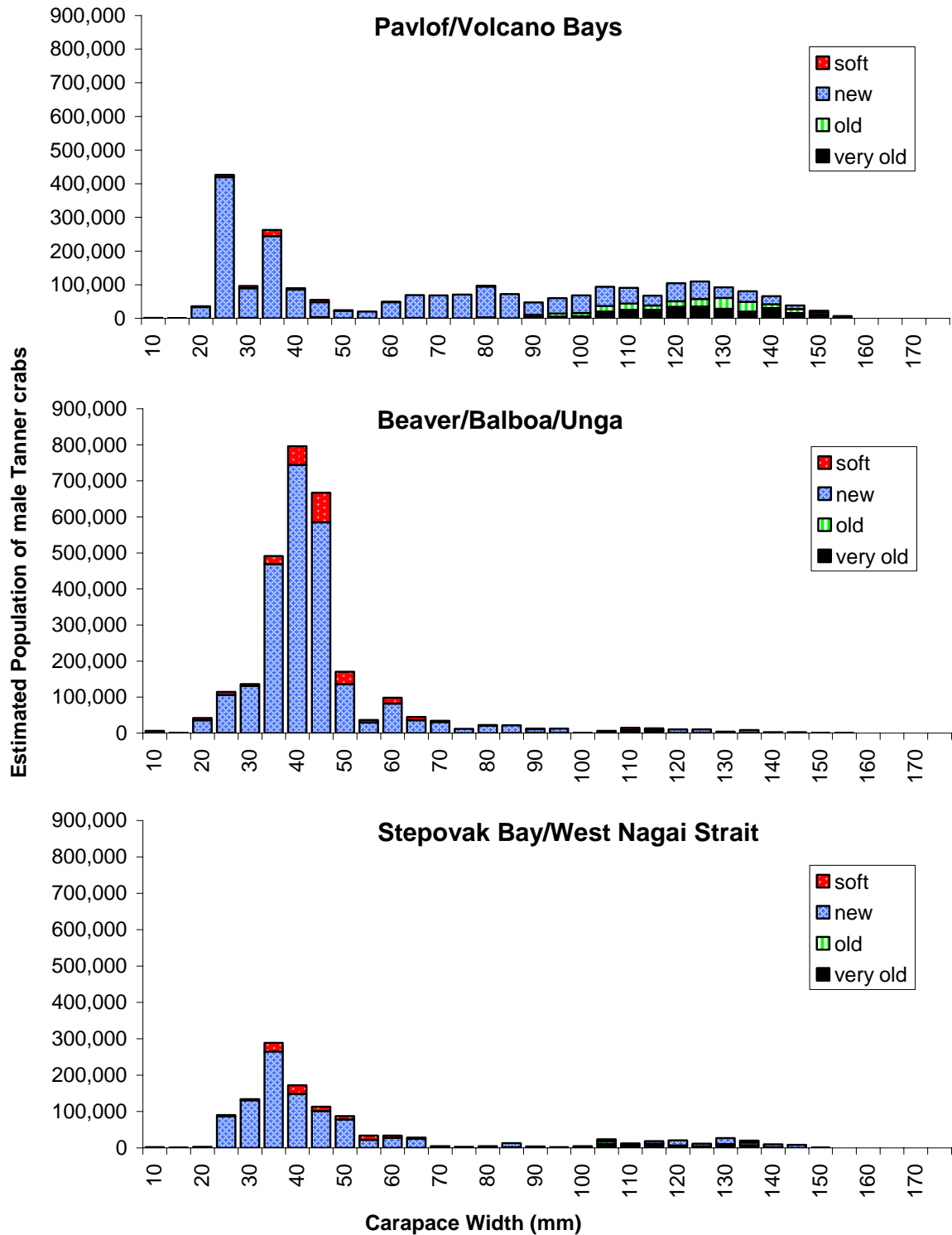
**Figure 11.**—Catch in kilograms per kilometer towed of sablefish, Pacific cod, rougheye rockfish, and walleye pollock from the 2005 Kodiak trawl survey.



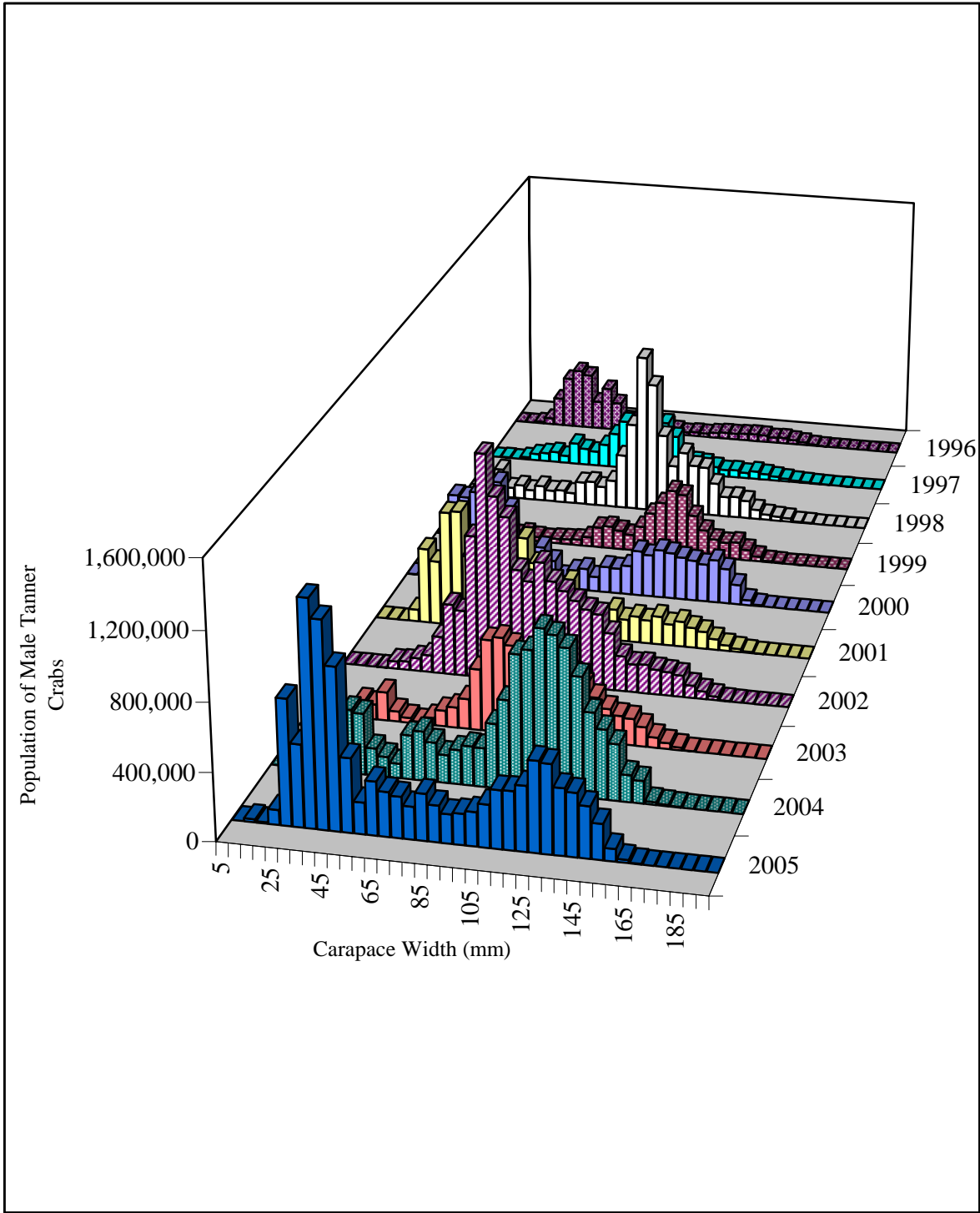
**Figure 12.**—The number of Tanner crabs per kilometer towed from the 2005 Alaska Peninsula trawl survey.



**Figure 13.**—Carapace width frequency by shell condition of the estimated population of male Tanner crabs in Sanak Island, Morzhovoi Bay, and Cold/Belkofski Bays from the 2005 South Peninsula trawl survey.

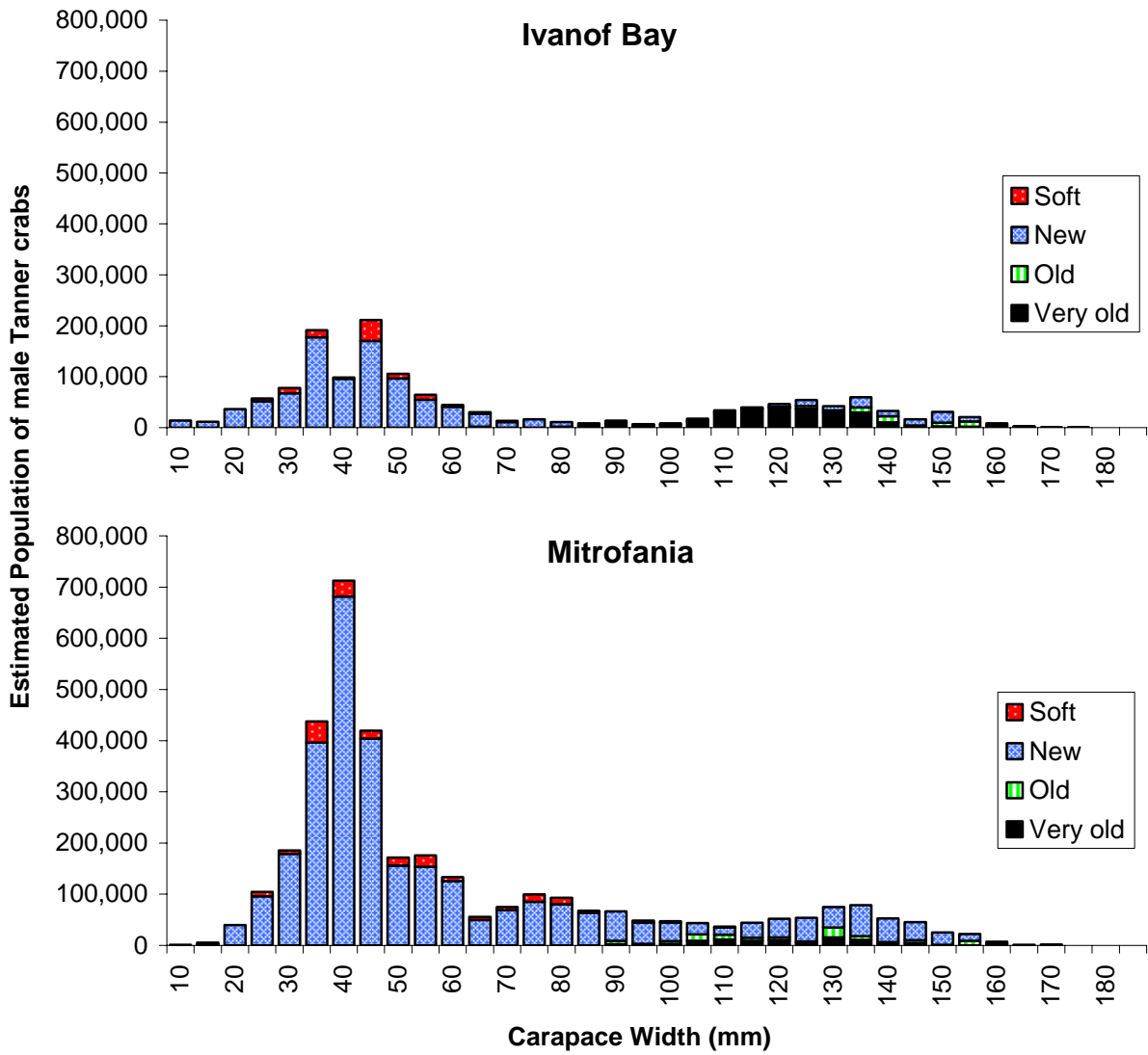


**Figure 14.**—Carapace width frequency by shell condition of the estimated population of male Tanner crabs in Pavlof/Volcano Bays, Beaver/Balboa/Unga, and Stepovak Bay/West Nagai Strait from the 2005 South Peninsula trawl survey.

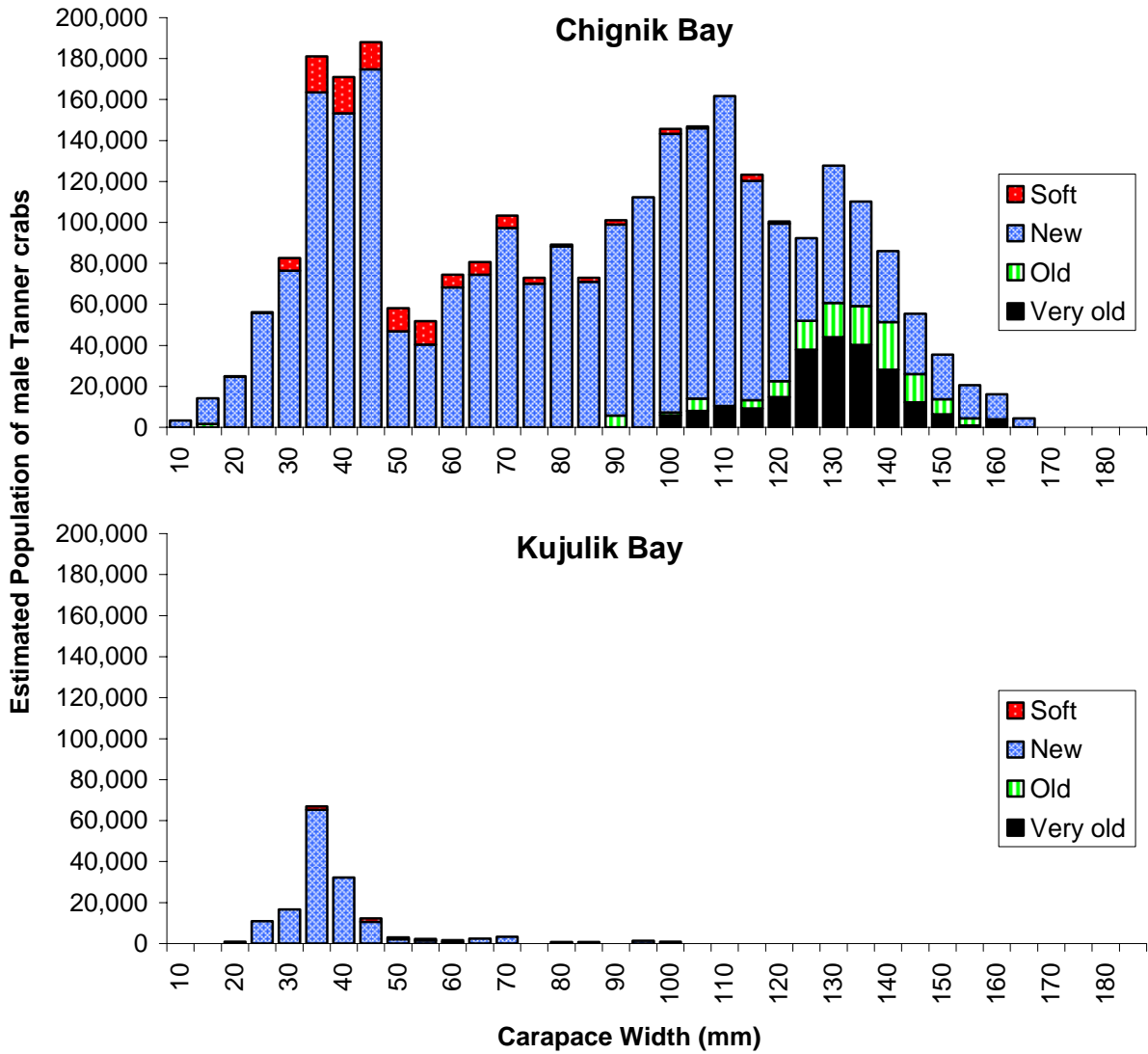


**Figure 15.**—Estimated population of male Tanner crabs by carapace width in the South Peninsula District, 1996-2005.

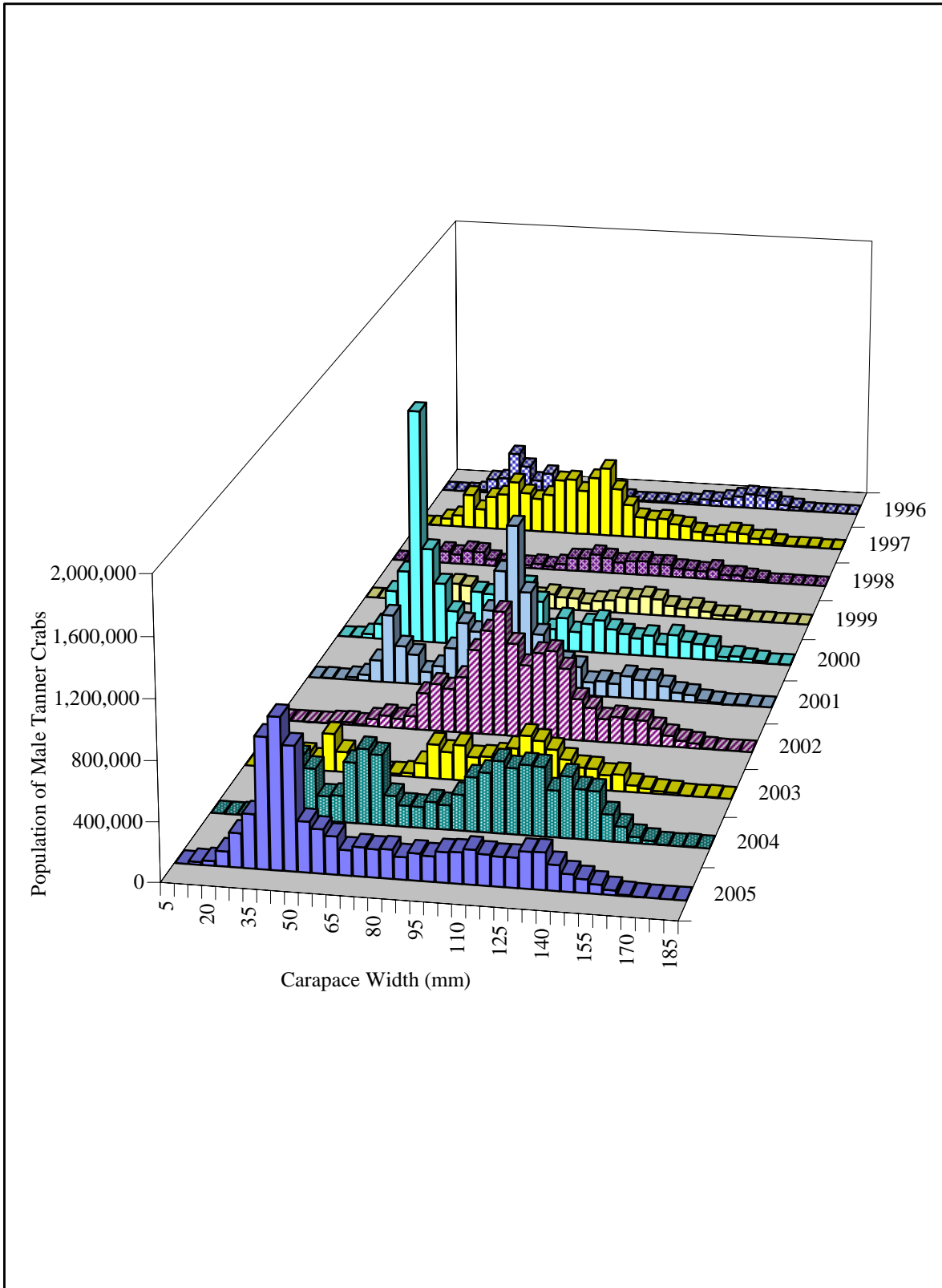




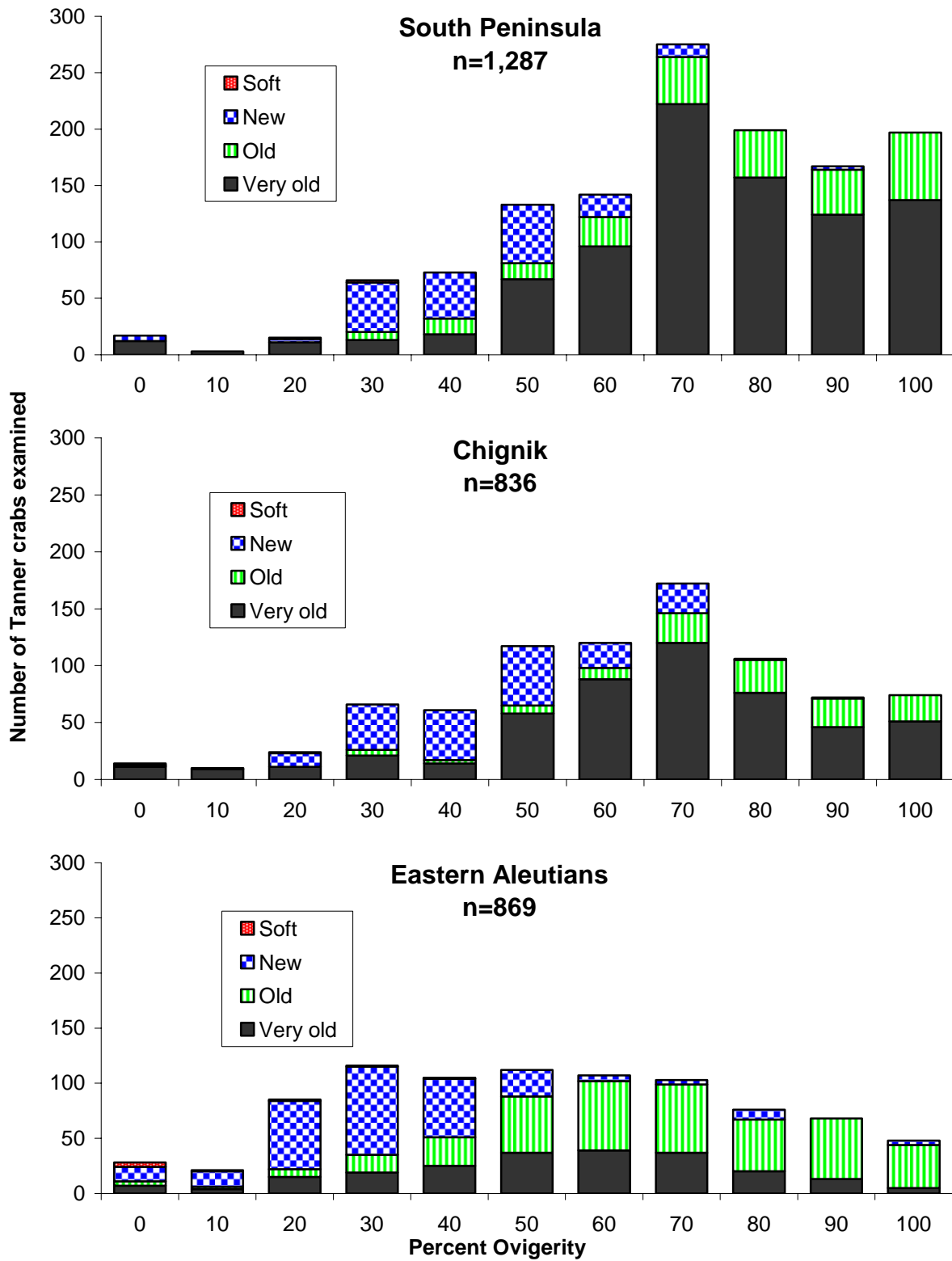
**Figure 16.**—Carapace width frequency by shell condition of the estimated population of male Tanner crabs in Ivanof Bay and Mitrofanina from the 2005 Chignik trawl survey.



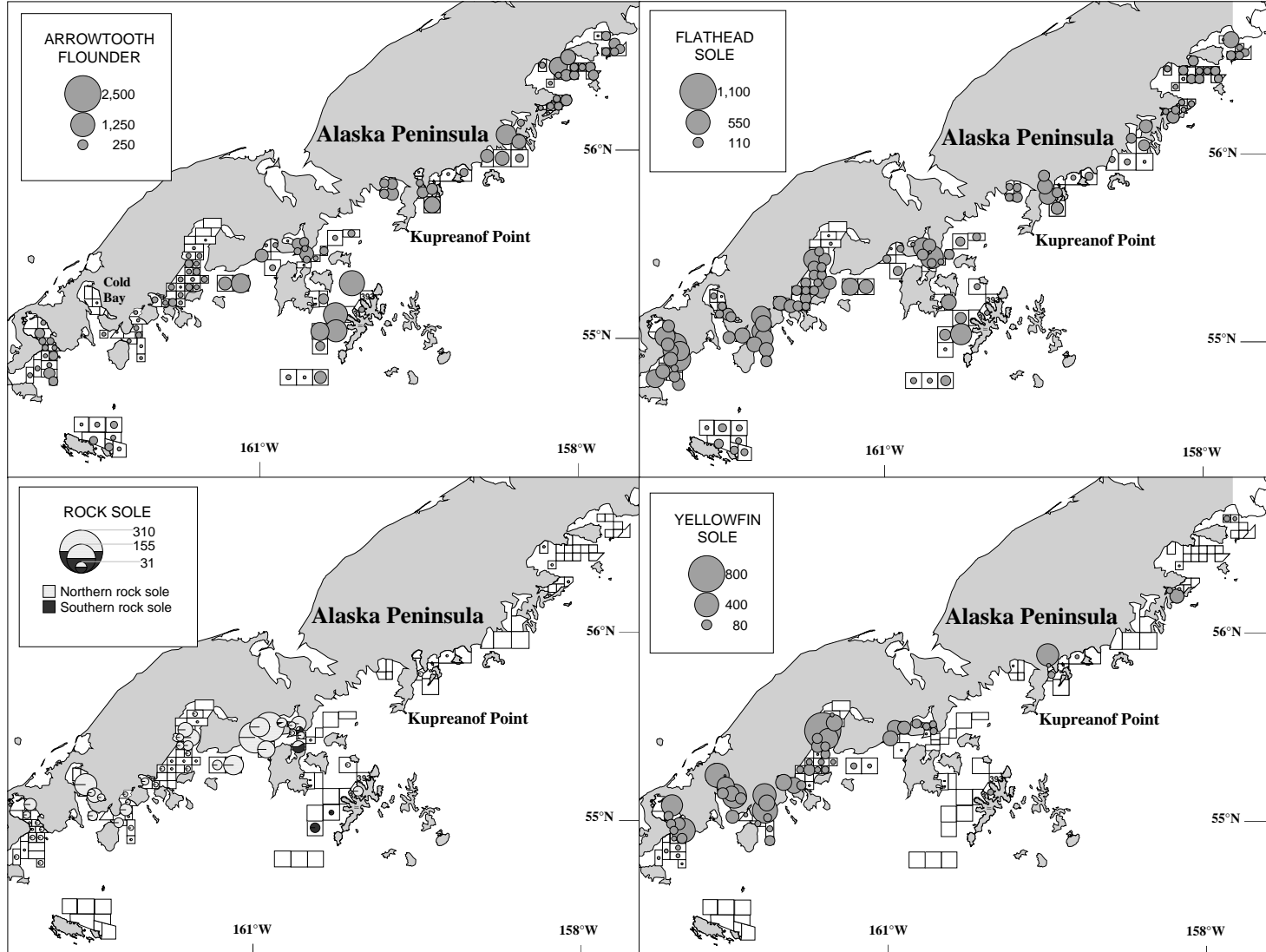
**Figure 17.**—Carapace width frequency by shell condition of the estimated population of male Tanner crabs in Chignik and Kujulik Bays from the 2005 Chignik trawl survey.



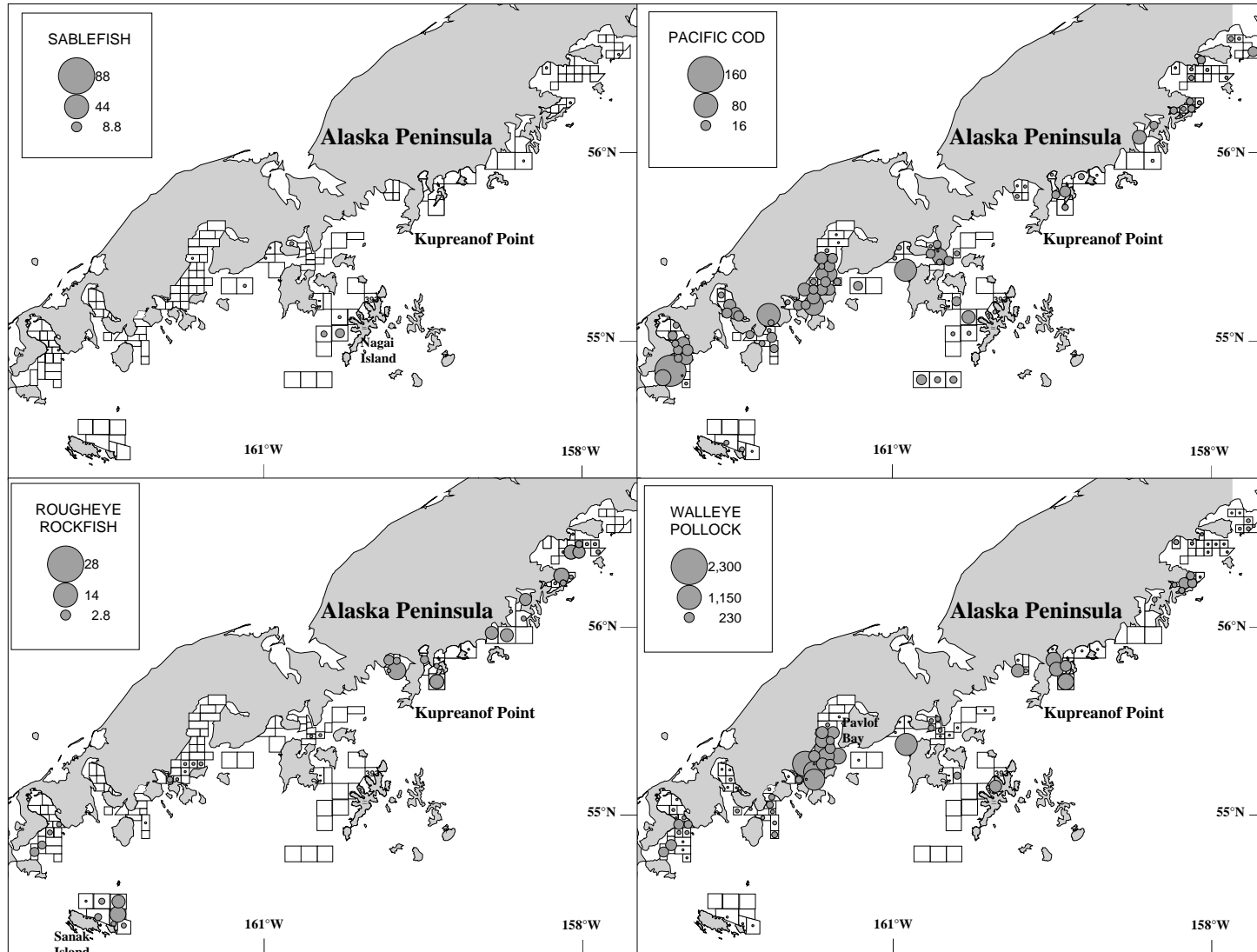
**Figure 18.**—Estimated population of male Tanner crabs by carapace width in the Chignik District, 1996-2005.



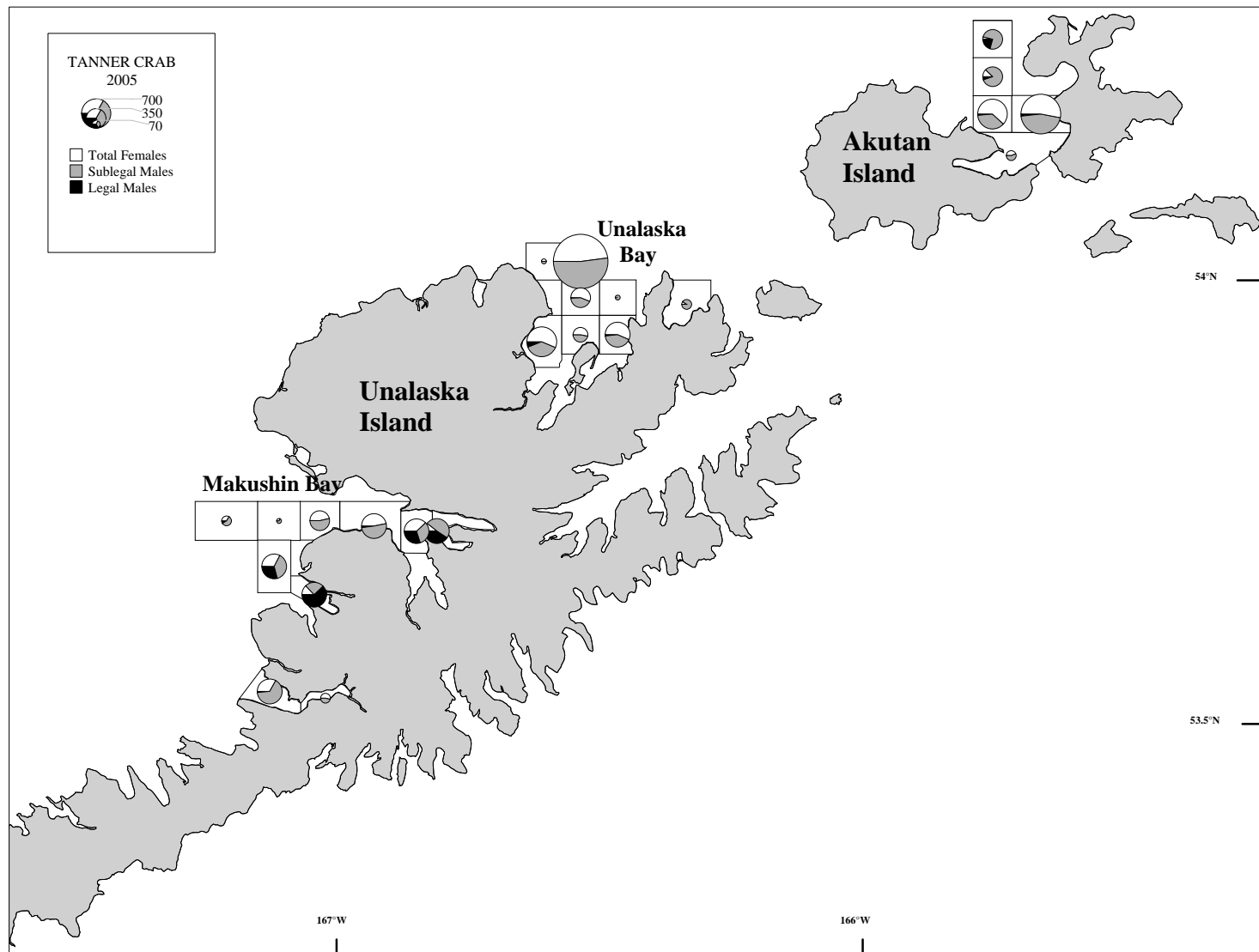
**Figure 19.**—Percent ovigerity (clutch fullness) by shell condition of adult female Tanner crabs captured in the South Peninsula, Chignik, and Eastern Aleutian Districts, 2005.



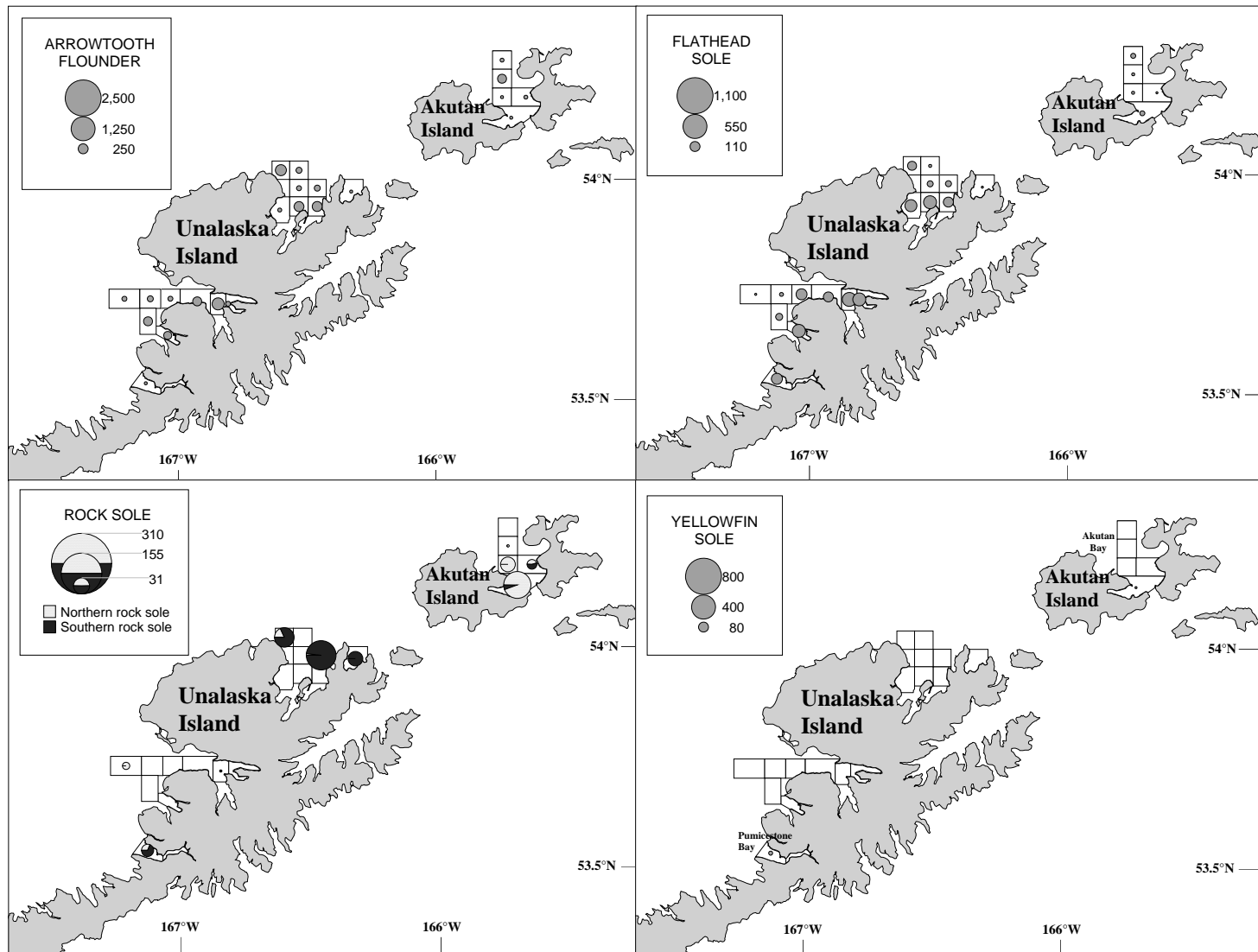
**Figure 20.**—Catch in kilograms per kilometer towed of arrowtooth flounder, flathead sole, rock sole, and yellowfin sole from the 2005 Alaska Peninsula trawl survey.



**Figure 21.**—Catch in kilograms per kilometer towed of sablefish, Pacific cod, rougheye rockfish, and walleye pollock from the 2005 Alaska Peninsula trawl survey.

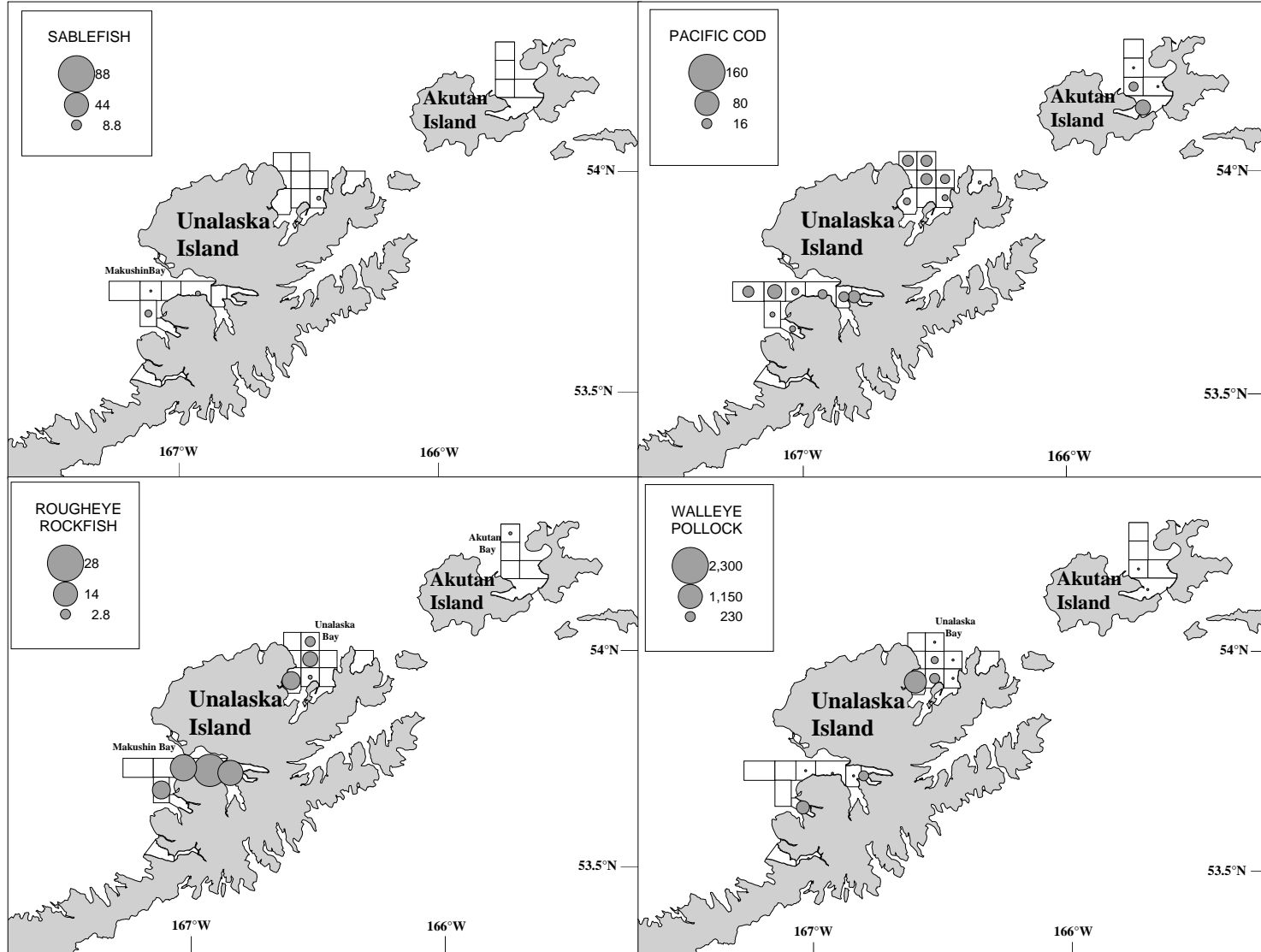


**Figure 22.**—Number of Tanner crabs per kilometer towed in the 2005 Eastern Aleutian trawl survey.

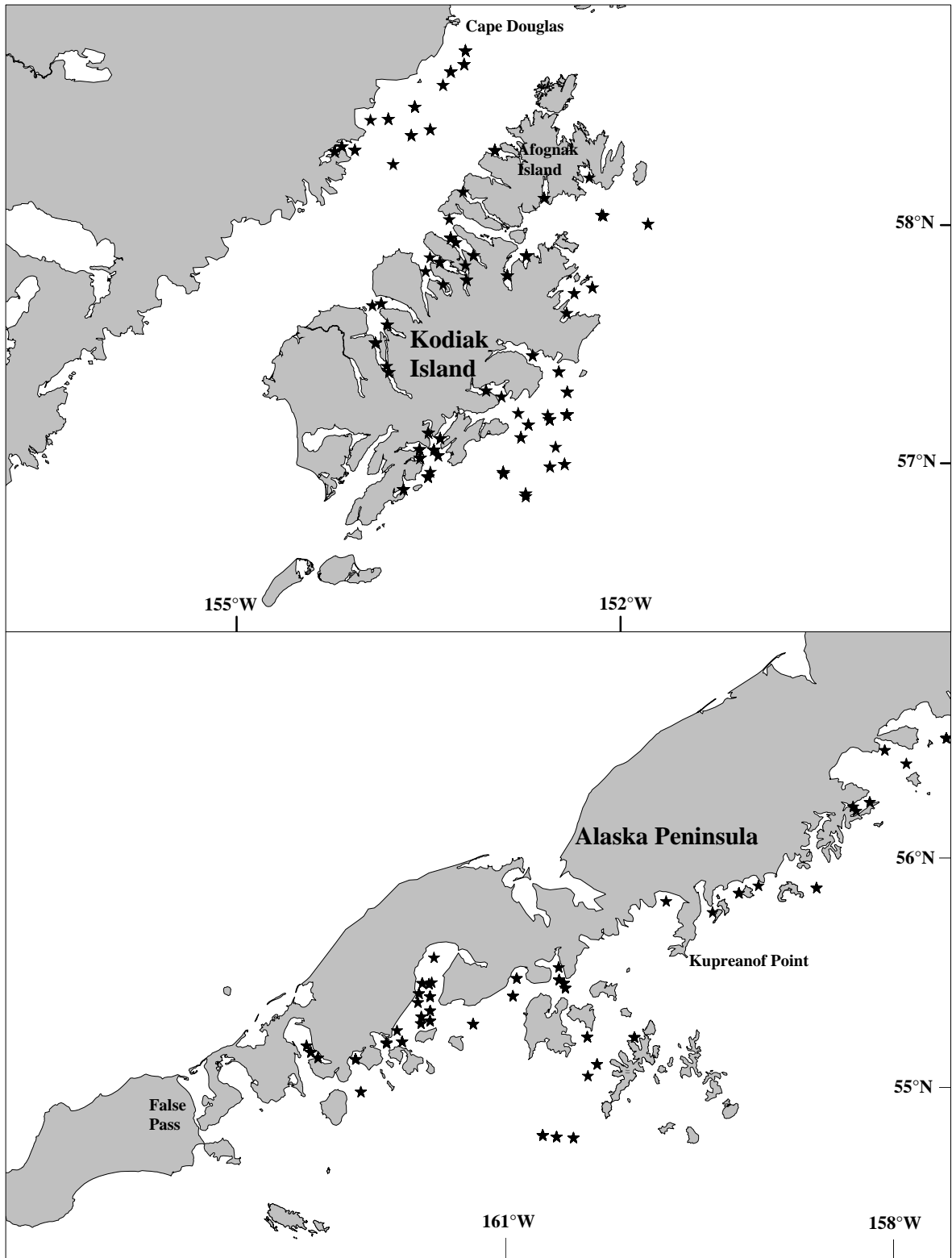


**Figure 23.**—Catch in kilograms per kilometer towed of arrowtooth flounder, flathead sole, rock sole, and yellowfin sole from the 2005 Eastern Aleutian trawl survey.





**Figure 24.**—Catch in kilograms per kilometer towed of sablefish, Pacific cod, rougheye rockfish, and walleye pollock from the 2005 Eastern Aleutian trawl survey.



**Figure 25.**—Tagged Pacific cod release locations from the 2005 Westward Region trawl survey.

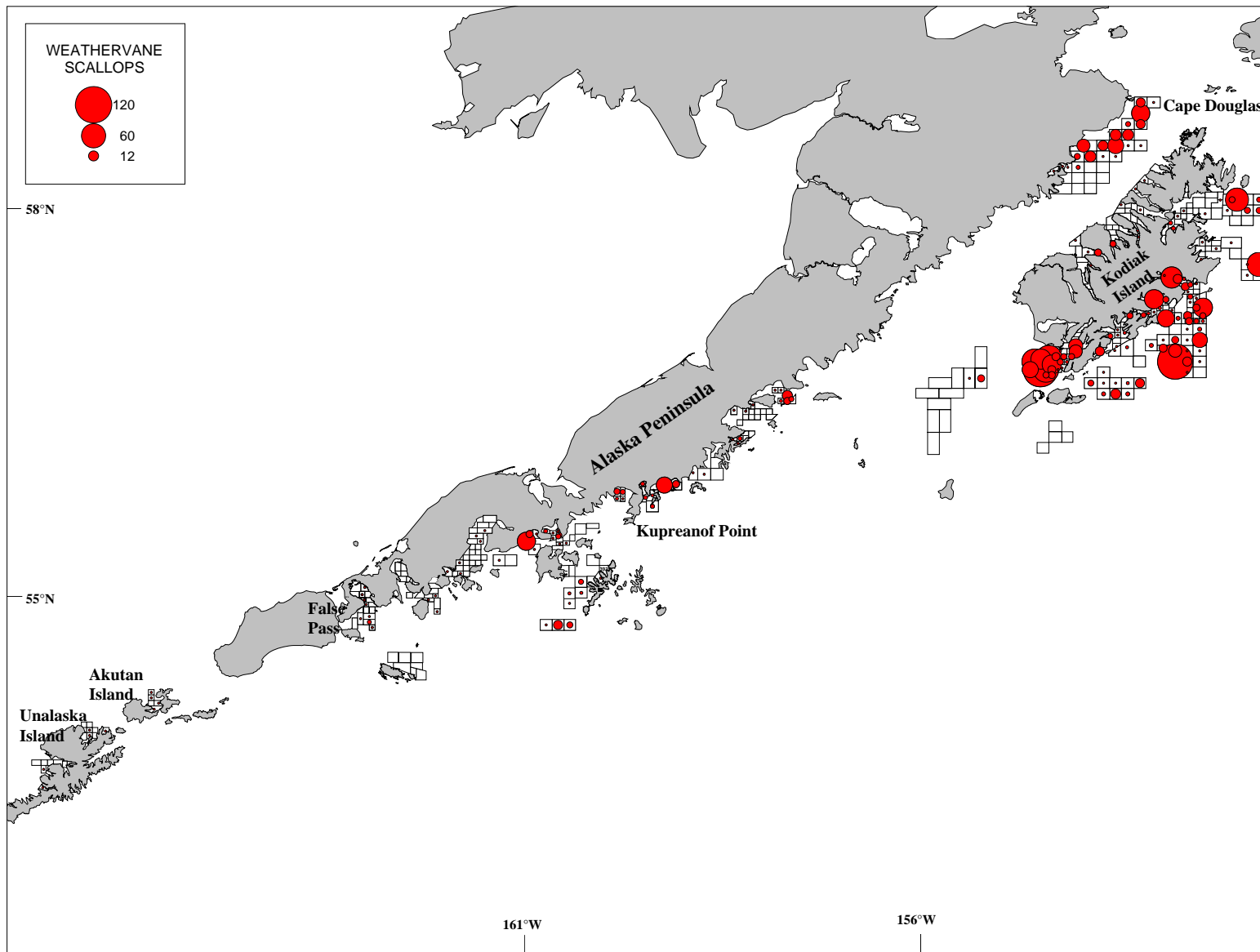
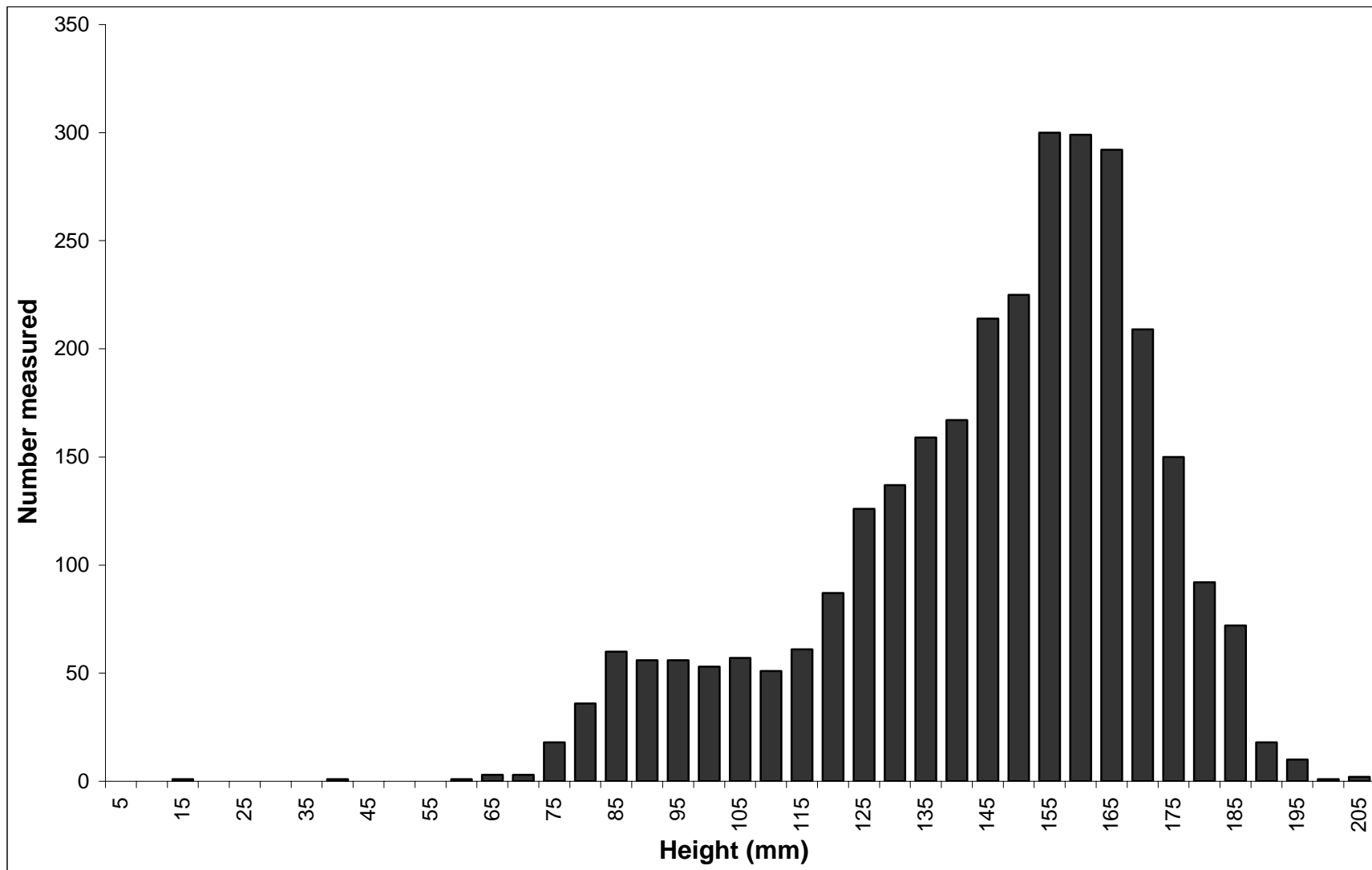


Figure 26.—Catch in kilograms per kilometer towed of weathervane scallops from the 2005 Westward Region trawl survey.



**Figure 27.**—Number of measured weathervane scallops by shell height from the 2005 Westward Region trawl survey.

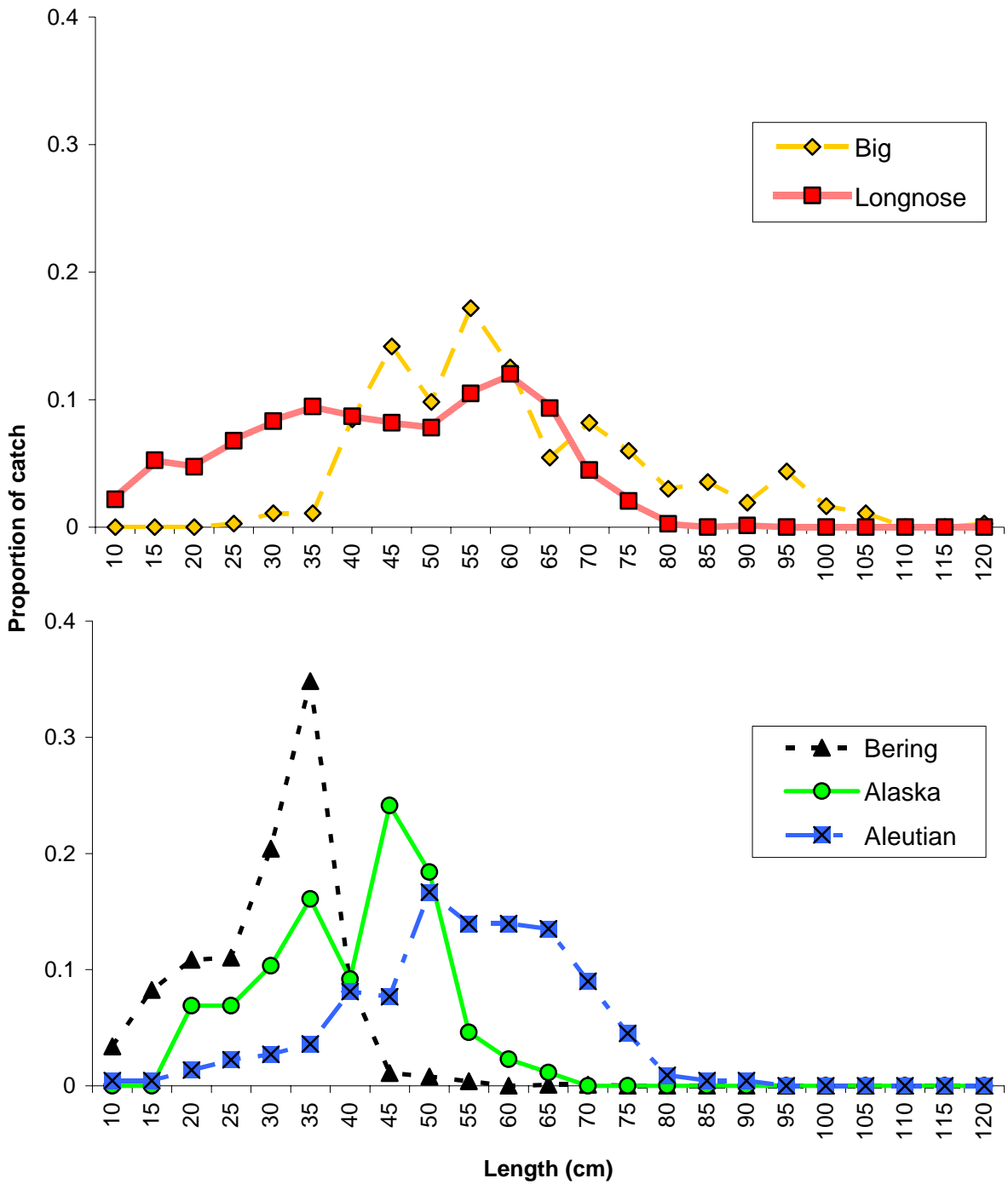
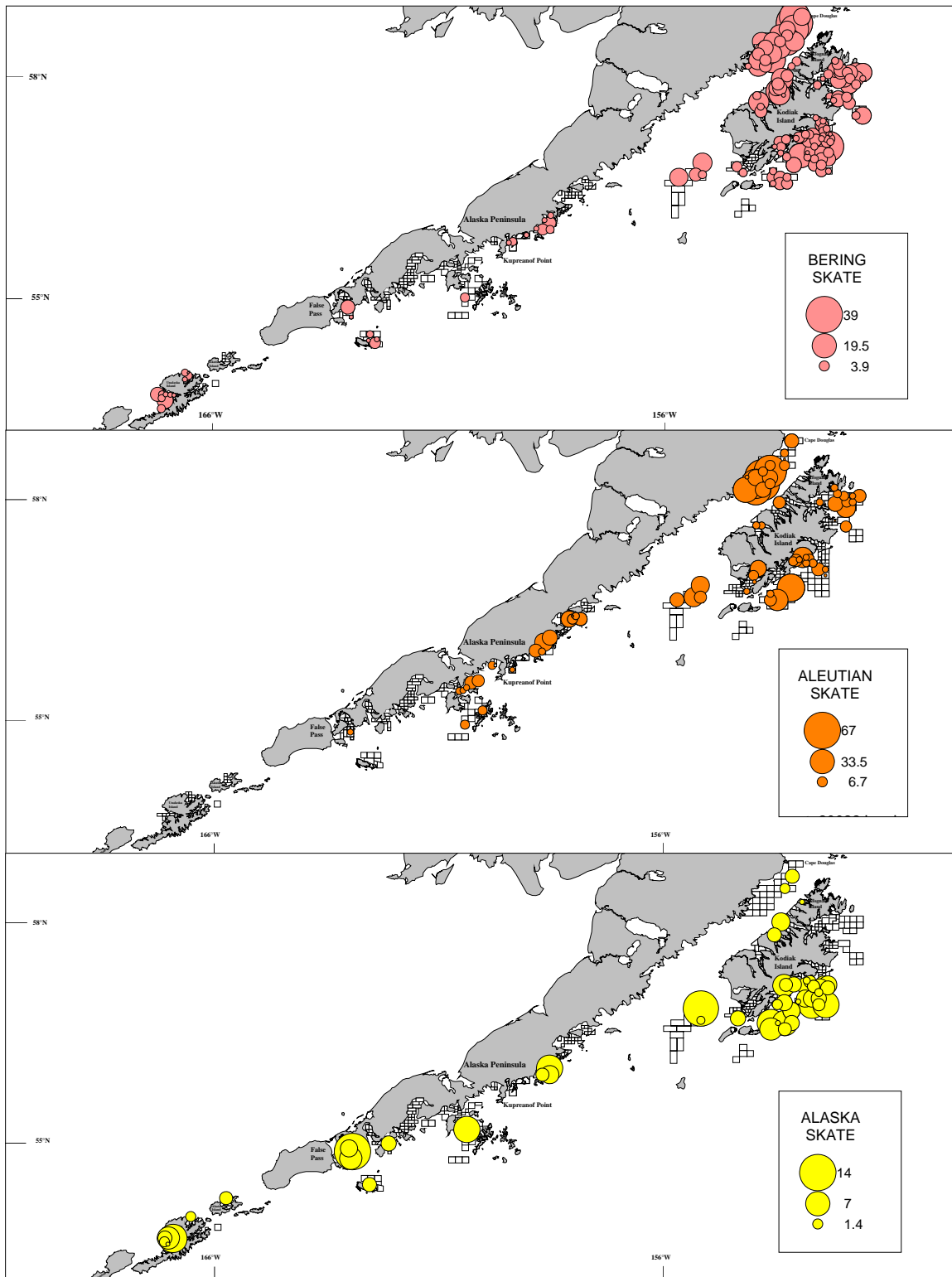
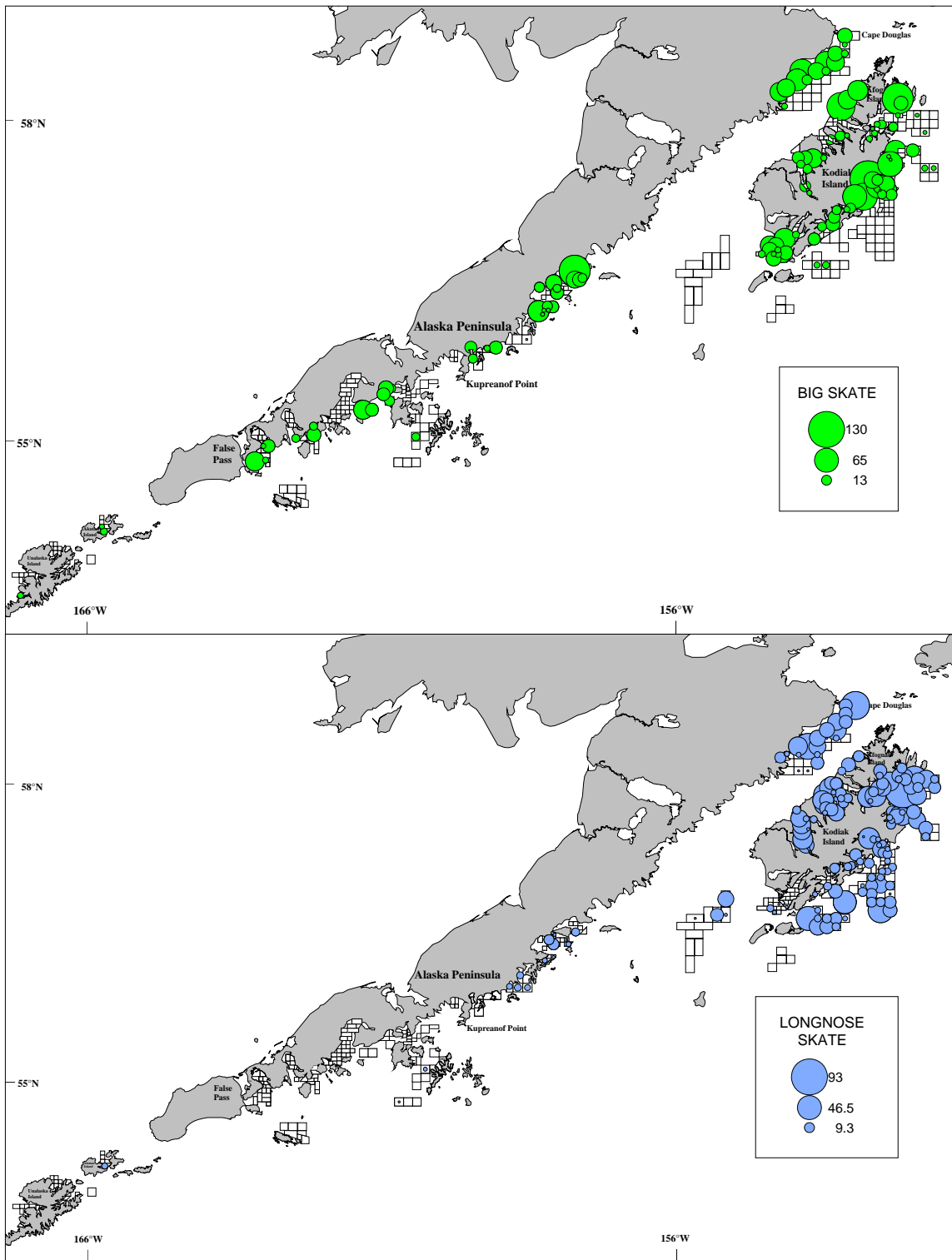


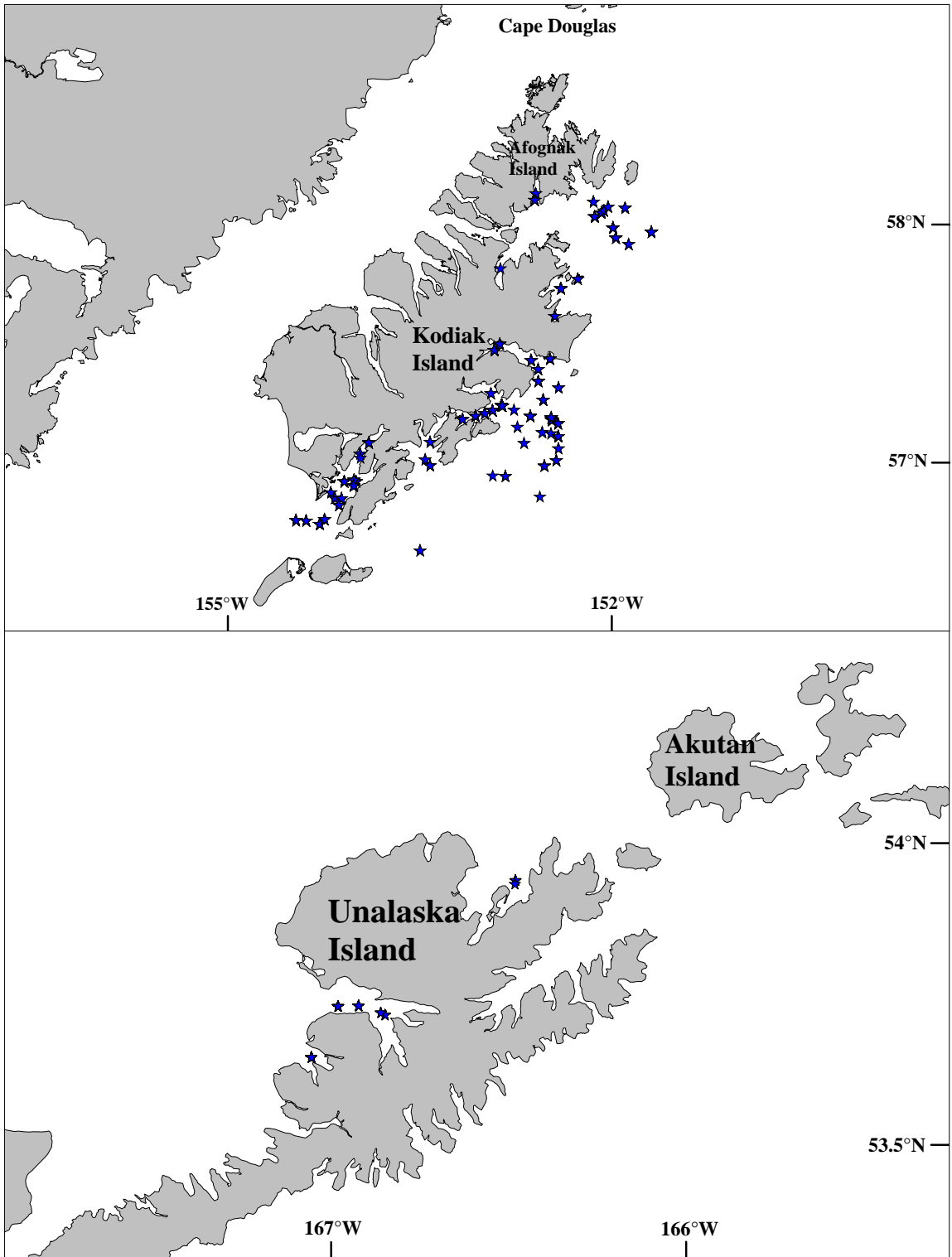
Figure 28.—Lengths (snout to wing notch) of skate species captured in the 2005 Westward Region trawl survey.



**Figure 29.**—Catch in kilograms per kilometer towed of Bering, Aleutian, and Alaska skates from the 2005 Westward Region trawl survey.



**Figure 30.**—Catch in kilograms per kilometer towed of Big and Longnose skates from the 2005 Westward Region trawl survey.



**Figure 31.**-Tagged Tanner crab release locations from the 2005 Kodiak and Eastern Aleutian Islands trawl survey.



## **APPENDIX A. EXPLANATION OF TERMS**

**Appendix A1.**—Explanation of terms.

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The following definitions were developed for characterizing Tanner crab *Chionoecetes bairdi*.

Softshell	Soft exoskeleton that is newly molted; exoskeletons are thin and flexible and are not calcified; clean shell with no abrasions or scratches; the dactylus and spines are sharp with little or no wear present.
Newshell	Hard exoskeletal animal; the dorsal side of the carapace brownish-red; no apparent scratching on ventral side; epifauna absent or limited; and dactyls, pterygostomial and branchial spines sharp.
Oldshell	An apparent skip molt; carapace hard and brownish; thoracic sternum and ventral sides of legs with numerous scratches and abrasions; dactyls, pterygostomial and branchial spines worn; epifauna may be present.
Very Oldshell	An obvious skip molt; carapace hard, dark brown to blackish; thoracic sternum and ventral side of legs with multiple scratches and abrasions; underside of legs usually dark yellow-brown; dactyls, pterygostomial and branchial spines heavily worn; epifauna usually present: e.g., large barnacles.
Molting	Physiological events immediately proceeding shedding the old shell and the actual extraction from the old shell itself.
Skip Molt	A crab which has retained its exoskeleton (not molted) for more than 12 months.
Crab Measurements	Crab measurements are made in millimeters with vernier calipers and refer to carapace width (CW) inside the spines, a straight-line distance across the carapace at a right angle to a line midway between the eyes to the posterior margin. However legal size is measured outside the spines.
Chela Height	Chela height is the greatest height on the right chela, excluding spines.
Prerecruit IV	Male Tanner crab less than or equal to 69 mm in carapace width and four or more molts from attaining legal size. Note that this group includes prerecruit IV, V and VI and younger crabs but are referred to a prerecruit IV's herein.
Prerecruit III	Male Tanner crab 70-91 mm in carapace width and three molts from attaining legal size.
Prerecruit II	Male Tanner crab 92-114 mm in carapace width and two molts from attaining legal size.
Prerecruit I	Male Tanner crab 115-139 mm in carapace width and one molt from attaining legal size.

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Mature Males	Males $\geq$ 115 mm cw.
Molting Mature Males	100% of new shell crab and 15% of old shell crab that are greater than size at maturity ( $\geq$ 115 mm cw).
Recruit Legals	Newshell male Tanner crab 140-164 mm in carapace width outside the spines, recruited to legal size in year of capture.
Postrecruit Legals	Male crab that have been legal size at least one year: defined as oldshells and very oldshells 140-164 mm outside the spines and all males $\geq$ 165 mm in carapace width.
Total Legals	All male Tanner crab $>$ 139 mm in carapace width outside the spines.
Females	Identified as adult or immature by visual observation of abdominal flap.
Primiparous female	A new-shell ovigerous female.

The following definitions were developed for characterizing red king crab *Paralithodes camtschaticus*.

Carapace Length	The straight line distance across the carapace from the posterior margin of the right eye orbit to the medial-posterior margin of the carapace.
Legal Size	In the Kodiak Registration area, legal size is set at seven inches (178 mm) or greater in carapace width. In the Alaska Peninsula and Dutch Harbor Registration areas, legal size is set at 6 1/2 inches (165 mm cw). Measurements are made including the spines, as the straight line distance across the carapace at a right angle to a line midway between the eyes to the midpoint of the posterior portion of the carapace.
Juvenile Females	Nonovigerous females with carapace lengths of less than 116 mm that have not had a previous egg clutch.
Adult, Mature Females	Ovigerous females and nonovigerous females with carapace lengths greater than 115 mm.
Adult, Mature Males	Male king crabs with carapace lengths greater than 130 mm.
Newshell Males	Individuals that molted during the last molting season (generally January through April).
Oldshell Males	(Skipmolts) Individuals that failed to molt during last molting season.
Very Oldshell Males	(Double Skipmolts) Individuals that failed to molt during the last two or more molting seasons.

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Prerecruit IV	Individuals estimated to be 4 or more years from legal size and less than 95 mm in length in the Kodiak Registration area, less than 79 mm in length in the Alaska Peninsula and Dutch Harbor Registration areas.
Prerecruit III	Individuals estimated to be 3 years from legal size and 95-112 mm in length in the Kodiak Registration area, and 79-95 mm in length in the Alaska Peninsula and Dutch Harbor Registration areas.
Prerecruit II	Individuals estimated to be 2 years from legal size and 113-130 mm in length in the Kodiak Registration area, and 96-115 mm in length in the Alaska Peninsula and Dutch Harbor Registration areas.
Prerecruit I	Individuals estimated to be 1 year from legal size, which includes all sublegals greater than 130 mm in length in the Kodiak Registration area, and greater than 115 mm in length in the Alaska Peninsula.
Recruits	Newshell males which are legal size and are in their first year of availability to the fishery which includes crabs less than or equal to 164 mm in length in the Kodiak Registration area, and less than or equal to 152 mm in length in the Alaska Peninsula and Dutch Harbor Registration areas.
Postrecruit	Males which are legal size and old shell or very old shell or newshell males which are of greater length than recruit crab.

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## **APPENDIX B. FISHING LOG AND TRAWL STATIONS FISHED**

Appendix B1.–Fishing log from the Westward Region trawl survey, 2005.

<b>Haul</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
Location	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD
Month/Day/Year	6/16/2005	6/16/2005	6/16/2005	6/16/2005	6/16/2005	6/17/2005	6/17/2005	6/17/2005	6/20/2005	6/20/2005	6/20/2005	6/20/2005	6/20/2005	6/21/2005
Station	CHJ	CHE	CHK	CHL	CHG	CHF	CHA	CHB	KZG	KZK	KZO	MONX	MOEX	MOGX
Longitude Start	152°22.7	152°27.1	152°18.5	152°14.4	152°11.8	152°18.7	152°26.0	152°22.4	152°35.8	152°33.0	152°32.1	152°29.2	152°22.3	152°12.2
Latitude Start	57°43.7	57°40.6	57°43.0	57°43.9	57°41.9	57°42.0	57°37.2	57°39.6	57°56.8	57°58.6	58°1.4	58°1.7	57°56.9	57°56.5
Heading, Degrees	119	46	295	60	85	30	42	39	268	2	20	14	66	88
Average Depth (m)	106	18	155	173	106	142	54	106	133	170	182	190	124	192
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.9
Bottom Temperature (°C)	6.5	7.6	6.5	6.6	6.7	6.2	7	6.2	5.9	5.9	5.9	5.9	6.1	2.9
<b>Haul</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>31</b>	<b>32</b>
Location	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD
Month/Day/Year	6/21/2005	6/21/2005	6/21/2005	6/21/2005	6/21/2005	6/21/2005	6/21/2005	6/22/2005	6/22/2005	6/22/2005	6/22/2005	6/22/2005	6/23/2005	6/23/2005
Station	283X	283	313	314	284	285	257	MOX	MOXX	255X	255	256	MOPX	MOT
Longitude Start	152°5.6	151°59.5	151°59.2	151°48.4	151°47.0	151°39.9	151°39.2	152°15.0	152°14.5	152°5.4	152°0.1	151°50.8	152°14.1	152°15.1
Latitude Start	57°58.3	57°59.4	57°56.3	57°54.7	57°59.0	57°58.2	58°3.4	58°12.6	58°9.4	58°4.6	58°3.4	58°4.4	58°6.6	58°5.1
Heading, Degrees	183	121	63	323	47	333	357	155	134	150	100	73	223	229
Average Depth (m)	173	171	201	60	133	100	157	128	164	151	128	135	170	164
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.7	5.9	5.7	6.6	6	6.3	6	6.4	6.2	6	6.1	6.2	6	6.1
<b>Haul</b>	<b>33</b>	<b>34</b>	<b>38</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>	<b>49</b>
Location	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	E.KOD	E.KOD	E.KOD
Month/Day/Year	6/23/2005	6/23/2005	6/24/2005	6/24/2005	6/24/2005	6/24/2005	6/24/2005	6/24/2005	6/24/2005	6/24/2005	6/25/2005	6/28/2005	6/28/2005	6/28/2005
Station	MOLX	MOQ	KZS	KZR	KZJ	KZF	KZD	KZA	KZB	KZC	KZE	UGG	UGJ	UGI
Longitude Start	152°10.3	152°7.9	152°35.0	152°35.3	152°38.7	152°39.8	152°47.7	152°52.4	152°52.0	152°44.8	152°40.6	152°30.3	152°27.6	152°33.2
Latitude Start	58°6.2	58°3.4	58°8.7	58°7.8	57°58.1	57°58.0	57°52.8	57°47.9	57°48.7	57°51.7	57°55.7	57°23.1	57°22.3	57°21.3
Heading, Degrees	137	173	179	183	43	172	39	181	23	36	193	70	185	344
Average Depth (m)	199	151	100	118	128	115	91	47	53	62	104	65	69	96
Distance Fished (km)	1.9	1.9	1.3	1.9	1.9	1.9	1.7	0.9	1.3	1.5	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	6.1	6.4	4.9	4.8	7	7.2	7.2	6	6.1	7.4	7.2	7.5	7.6	6.8
<b>Haul</b>	<b>50</b>	<b>51</b>	<b>52</b>	<b>53</b>	<b>54</b>	<b>55</b>	<b>56</b>	<b>57</b>	<b>58</b>	<b>59</b>	<b>60</b>	<b>61</b>	<b>62</b>	<b>63</b>
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD
Month/Day/Year	6/28/2005	6/29/2005	6/29/2005	6/29/2005	6/29/2005	6/29/2005	6/29/2005	6/29/2005	6/29/2005	6/29/2005	6/30/2005	6/30/2005	6/30/2005	6/30/2005
Station	UGF	UGM	486A	486B	511B	511A	510B	UGE	UGD	UGAC	UGAB	UGAA	UGB	UGC
Longitude Start	152°34.1	152°32.5	152°29.7	152°24.6	152°24.8	152°28.0	152°31.7	152°35.2	152°36.5	152°59.8	152°54.1	152°51.4	152°45.3	152°42.4
Latitude Start	57°24.1	57°19.6	57°17.6	57°19.1	57°13.4	57°12.6	57°15.9	57°24.0	57°25.7	57°27.4	57°28.5	57°29.8	57°28.4	57°27.8
Heading, Degrees	180	182	17	179	175	324	325	337	287	44	78	122	183	144
Average Depth (m)	85	102	98	69	76	100	98	91	96	34	67	76	91	91
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	6.7	6.8	6.8	7.5	6.8	6.9	6.7	6.8	6.7	5.1	5	4.9	6.8	6.7

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Appendix B1.–Page 2 of 7.

<b>Haul</b>	<b>64</b>	<b>65</b>	<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>	<b>71</b>	<b>72</b>	<b>73</b>	<b>74</b>	<b>75</b>	<b>76</b>	<b>77</b>
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD
Month/Day/Year	6/30/2005	7/1/2005	7/1/2005	7/1/2005	7/1/2005	7/1/2005	7/1/2005	7/1/2005	7/1/2005	7/1/2005	7/2/2005	7/2/2005	7/2/2005	7/2/2005
Station	KLD	KLA	KLB	KLC	KLI	KLL	KLH	KLG	KLF	KLE	533A	533B	510C	534B
Longitude Start	152°44.8	153°4.4	152°59.0	152°56.4	152°51.5	152°45.9	152°54.6	152°58.8	153°2.7	153°8.4	152°46.1	152°43.9	152°32.8	152°32.8
Latitude Start	57°16.8	57°18.3	57°18.6	57°17.7	57°14.7	57°12.4	57°13.4	57°12.7	57°12.1	57°10.6	57°7.7	57°9.2	57°13.1	57°12.2
Heading, Degrees	196	83	136	148	128	308	270	238	250	41	197	42	200	185
Average Depth (m)	25	91	82	91	122	129	131	117	122	115	142	140	91	102
Distance Fished (km)	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.9	1.9
Bottom Temperature (°C)	8.8	4.4	6.8	6.9	6.9	6.2	5.8	6.4	5.8	6.1	5.6	5.6	7.2	7.2
<b>Haul</b>	<b>78</b>	<b>79</b>	<b>80</b>	<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>	<b>85</b>	<b>88</b>	<b>89</b>	<b>90</b>	<b>91</b>	<b>92</b>	<b>94</b>
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD
Month/Day/Year	7/2/2005	7/2/2005	7/2/2005	7/2/2005	7/3/2005	7/3/2005	7/3/2005	7/3/2005	7/3/2005	7/3/2005	7/3/2005	7/4/2005	7/4/2005	7/4/2005
Station	535A	535B	535D	535C	559	560	534D	561	589	588	588	587	620	621
Longitude Start	152°27.8	152°24.9	152°24.5	152°28.1	152°44.8	152°38.5	152°31.0	152°26.7	152°25.6	152°31.3	152°36.5	152°42.8	152°37.7	152°26.6
Latitude Start	57°11.0	57°10.4	57°8.5	57°7.9	57°5.0	57°4.0	57°3.8	57°5.9	57°0.8	56°59.4	56°59.8	56°59.0	56°55.8	56°54.7
Heading, Degrees	158	178	184	190	40	159	46	159	180	263	194	185	122	197
Average Depth (m)	137	124	137	148	151	151	137	153	135	146	155	142	149	160
Distance Fished (km)	1.9	1.9	1.9	1.3	1.5	1.5	1.3	1.5	1.3	1.5	1.3	1.3	1.3	1.3
Bottom Temperature (°C)	6.4	6.6	5.6	5.7	5.5	5.4	5.6	5.6	5.6	5.6	5.4	5.4	5.4	5.5
<b>Haul</b>	<b>95</b>	<b>96</b>	<b>98</b>	<b>99</b>	<b>100</b>	<b>101</b>	<b>102</b>	<b>105</b>	<b>106</b>	<b>107</b>	<b>108</b>	<b>109</b>	<b>110</b>	<b>111</b>
Location	E.KOD	E.KOD	E.KOD	S.E.KOD	S.E.KOD	E.KOD	E.KOD	E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD
Month/Day/Year	7/4/2005	7/4/2005	7/4/2005	7/5/2005	7/5/2005	7/5/2005	7/5/2005	7/5/2005	7/5/2005	7/5/2005	7/5/2005	7/6/2005	7/6/2005	7/6/2005
Station	656	696	695	651	586	619	655	654	618A	585X	THI	THF	THG	THD
Longitude Start	152°25.4	152°25.7	152°33.5	153°15.0	152°55.7	152°45.2	152°37.6	152°43.1	152°51.1	153°0.6	153°35.2	153°34.9	153°28.2	153°28.6
Latitude Start	56°51.2	56°46.3	56°44.6	56°50.8	56°57.0	56°56.0	56°51.8	56°51.4	56°55.7	56°57.0	57°4.0	57°1.3	57°0.5	56°59.0
Heading, Degrees	167	191	1	136	42	115	105	305	4	264	117	65	48	185
Average Depth (m)	162	173	137	171	126	135	137	98	118	133	89	73	120	129
Distance Fished (km)	1.3	1.5	1.3	1.9	1.5	1.5	1.5	1.5	1.5	1.3	1.5	1.3	1.9	1.9
Bottom Temperature (°C)	5.5	5.4	5.5	5.1	6	5.6	5.4	5.8	5.8	6.2	6.2	6.1	5.8	5.8
<b>Haul</b>	<b>112</b>	<b>113</b>	<b>114</b>	<b>115</b>	<b>116</b>	<b>117</b>	<b>118</b>	<b>119</b>	<b>120</b>	<b>121</b>	<b>122</b>	<b>123</b>	<b>124</b>	<b>125</b>
Location	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD
Month/Day/Year	7/6/2005	7/6/2005	7/6/2005	7/6/2005	7/7/2005	7/7/2005	7/7/2005	7/7/2005	7/7/2005	7/7/2005	7/7/2005	7/8/2005	7/8/2005	7/8/2005
Station	THC	614	615	THH	THN	THM	THL	THK	THJ	THA	688	726	727	728
Longitude Start	153°29.3	153°27.8	153°25.1	153°25.0	153°20.1	153°20.9	153°23.4	153°29.6	153°27.7	153°43.0	153°39.5	153°35.3	153°29.3	153°19.5
Latitude Start	56°57.8	56°55.4	56°54.4	57°1.2	57°10.1	57°9.2	57°7.4	57°8.8	57°4.5	56°53.2	56°43.3	56°41.7	56°40.4	56°38.6
Heading, Degrees	176	175	18	351	180	217	201	183	166	64	94	160	162	40
Average Depth (m)	128	140	144	118	109	118	120	102	111	49	149	149	144	144
Distance Fished (km)	1.9	1.9	1.9	1.9	1.5	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.8	5.9	6	6	6.1	5.7	5.6	5.8	5.8	7.7	5.8	5.9	5.8	5.3

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<b>Haul</b>	<b>126</b>	<b>127</b>	<b>128</b>	<b>129</b>	<b>130</b>	<b>131</b>	<b>132</b>	<b>133</b>	<b>134</b>	<b>135</b>	<b>136</b>	<b>137</b>	<b>138</b>	<b>139</b>
Location	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD
Month/Day/Year	7/8/2005	7/8/2005	7/8/2005	7/8/2005	7/9/2005	7/9/2005	7/9/2005	7/9/2005	7/10/2005	7/10/2005	7/10/2005	7/10/2005	7/10/2005	7/10/2005
Station	729	761	760	759	608X	678X	677X	712X	646D	646B	646A	645B	646C	682B
Longitude Start	153°11.6	153°16.4	153°27.1	153°34.3	155°11.1	155°12.5	155°18.8	155°37.1	154°20.0	154°23.3	154°25.0	154°30.1	154°28.4	154°28.8
Latitude Start	56°40.0	56°36.7	56°34.8	56°32.9	56°49.2	56°44.1	56°42.2	56°38.2	56°48.8	56°50.3	56°51.6	56°51.2	56°49.2	56°47.0
Heading, Degrees	358	270	188	197	214	329	212	217	270	354	245	140	134	170
Average Depth (m)	146	140	131	135	142	91	117	224	53	58	60	65	64	60
Distance Fished (km)	1.9	1.9	1.9	1.5	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	4.9	5	5.4	5.5	5.4	5.3	5.4	5.3	8.6	9.1	9.4	9	8.8	8.9
<b>Haul</b>	<b>140</b>	<b>141</b>	<b>142</b>	<b>143</b>	<b>144</b>	<b>145</b>	<b>146</b>	<b>147</b>	<b>148</b>	<b>149</b>	<b>150</b>	<b>151</b>	<b>152</b>	<b>153</b>
Location	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD
Month/Day/Year	7/10/2005	7/10/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/11/2005	7/12/2005	7/12/2005	7/12/2005	7/12/2005	7/12/2005
Station	683A	683B	684B	684A	683D	684C	ALA	ALC	ALG	ALR	ALQ	ALP	ALO	ALI
Longitude Start	154°28.7	154°23.8	154°14.1	154°17.2	154°22.0	154°20.1	154°7.9	154°7.7	154°5.8	153°48.3	153°53.7	153°57.4	153°57.7	154°6.1
Latitude Start	56°45.8	56°45.6	56°45.7	56°44.8	56°43.9	56°44.2	56°48.0	56°49.4	56°51.6	57°7.5	57°5.1	57°2.6	57°1.2	56°53.9
Heading, Degrees	103	101	49	264	85	73	181	29	47	242	221	212	197	33
Average Depth (m)	62	62	82	60	67	67	64	71	58	109	171	153	160	78
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	8.9	8.7	9	8.7	9	8.7	6.8	6.4	6.2	3.4	3.4	3.5	3.5	4
<b>Haul</b>	<b>154</b>	<b>155</b>	<b>156</b>	<b>157</b>	<b>158</b>	<b>159</b>	<b>160</b>	<b>161</b>	<b>162</b>	<b>163</b>	<b>164</b>	<b>165</b>	<b>166</b>	<b>167</b>
Location	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD
Month/Day/Year	7/12/2005	7/12/2005	7/12/2005	7/12/2005	7/13/2005	7/13/2005	7/13/2005	7/13/2005	7/13/2005	7/15/2005	7/15/2005	7/15/2005	7/15/2005	7/15/2005
Station	ALL	ALJ	ALM	ALK	ALH	ALF	ALD	ALB	725	443	444	421	420	395
Longitude Start	154°5.1	154°0.6	153°59.8	153°52.2	154°7.8	154°9.8	154°11.4	154°13.7	153°49.6	151°44.1	151°42.2	151°41.9	151°45.5	151°57.7
Latitude Start	56°55.5	56°54.7	56°55.3	56°58.9	56°52.8	56°51.3	56°52.8	56°50.6	56°40.1	57°31.7	57°31.8	57°34.9	57°35.5	57°39.8
Heading, Degrees	42	202	42	188	28	9	176	121	53	281	110	136	299	291
Average Depth (m)	82	71	69	43	64	43	54	38	95	146	159	117	120	197
Distance Fished (km)	1.9	1.9	1.9	1.1	1.9	1.9	1.9	1.9	1.9	1.3	1.5	1.9	1.9	1.9
Bottom Temperature (°C)	3.9	5.8	5.8	7.3	6.8	7.4	6.9	8.6	7.3	6.6	6.7	7.4	7.3	7.2
<b>Haul</b>	<b>168</b>	<b>169</b>	<b>170</b>	<b>171</b>	<b>172</b>	<b>173</b>	<b>174</b>	<b>175</b>	<b>176</b>	<b>177</b>	<b>178</b>	<b>179</b>	<b>180</b>	<b>181</b>
Location	N.E.KOD	AKUTAN	AKUTAN	AKUTAN	AKUTAN	AKUTAN	PUM. BAY	PUM. BAY	MAKUSH.	MAKUSH.	MAKUSH.	MAKUSH.	MAKUSH.	MAKUSH.
Month/Day/Year	7/15/2005	7/26/2005	7/26/2005	7/26/2005	7/26/2005	7/26/2005	7/27/2005	7/27/2005	7/27/2005	7/27/2005	7/28/2005	7/28/2005	7/28/2005	7/28/2005
Station	369X	AKA	AKC	AKD	AKG	AKL	PUB	PUA	MKN	MKP	MKB	MKC	MKE	MKF
Longitude Start	152°3.2	165°42.0	165°42.7	165°42.5	165°45.4	165°44.6	167°10.2	167°2.6	167°6.8	167°3.7	166°47.2	166°51.1	166°55.5	167°0.7
Latitude Start	57°43.9	54°8.7	54°9.9	54°12.5	54°14.5	54°15.2	53°33.2	53°31.8	53°40.6	53°38.8	53°42.1	53°43.0	53°43.8	53°44.3
Heading, Degrees	342	32	331	191	152	343	142	79	308	302	332	280	274	246
Average Depth (m)	115	69	80	87	100	102	69	76	135	137	100	177	186	188
Distance Fished (km)	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.5	1.9	1.9	1.7	1.9	1.9	1.9
Bottom Temperature (°C)	7.2	6.9	6.8	6.6	6.6	6.5	6.6	4.5	5.7	5.8	5.2	4.9	5.4	5.3

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<b>Haul</b>	<b>182</b>	<b>183</b>	<b>184</b>	<b>185</b>	<b>186</b>	<b>187</b>	<b>188</b>	<b>189</b>	<b>190</b>	<b>191</b>	<b>192</b>	<b>193</b>	<b>194</b>	<b>195</b>
Location	MAKUSH.	MAKUSH.	UNAK	UNAK	UNAK	UNAK	UNAK	UNAK	UNAK	UNAK	MORZ.	MORZ.	MORZ.	MORZ.
Month/Day/Year	7/28/2005	7/28/2005	7/29/2005	7/29/2005	7/29/2005	7/29/2005	7/29/2005	7/29/2005	7/30/2005	7/30/2005	8/1/2005	8/1/2005	8/1/2005	8/1/2005
Station	MKJ	MKK	UNE	UNF	UNJ	UNI	UNC	UND	UNG	CAA	MORX	MOSX	MOK	MOH
Longitude Start	167°6.8	167°9.1	166°30.2	166°31.5	166°29.8	166°37.0	166°36.2	166°28.8	166°26.8	166°19.7	163°9.9	163°6.0	162°59.8	162°59.9
Latitude Start	53°43.2	53°43.2	53°56.5	53°58.1	54°1.8	54°1.7	53°55.0	53°56.6	53°58.8	53°58.4	54°49.9	54°51.2	54°53.4	54°57.3
Heading, Degrees	96	303	0	34	181	126	347	8	25	10	93	46	15	98
Average Depth (m)	126	117	100	142	164	82	131	78	76	82	91	96	106	98
Distance Fished (km)	1.9	1.9	1.3	1.9	1.9	1.3	2	0.9	1.1	1.5	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.3	5.4	5.8	5.6	5.6	5.8	5.8	5.9	5.9	6.3	6.5	6.3	6	6
<b>Haul</b>	<b>196</b>	<b>197</b>	<b>198</b>	<b>199</b>	<b>200</b>	<b>201</b>	<b>202</b>	<b>203</b>	<b>204</b>	<b>205</b>	<b>206</b>	<b>207</b>	<b>208</b>	<b>209</b>
Location	MORZ.	MORZ.	MORZ.	MORZ.	MORZ.	MORZ.	MORZ.	MORZ.	MORZ.	SANAK	SANAK	SANAK	SANAK	SANAK
Month/Day/Year	8/1/2005	8/1/2005	8/1/2005	8/1/2005	8/2/2005	8/2/2005	8/2/2005	8/2/2005	8/2/2005	8/3/2005	8/3/2005	8/3/2005	8/3/2005	8/3/2005
Station	MOG	MOF	MOD	MOB	MOI	MOL	MOOX	87AX	87D	113	125	137	138A	138C
Longitude Start	162°59.8	163°1.4	163°2.5	163°4.0	162°58.1	162°57.4	162°59.2	163°0.3	162°56.8	162°40.6	162°32.3	162°25.2	162°23.9	162°20.7
Latitude Start	54°59.5	54°59.0	55°1.0	55°3.1	54°57.2	54°54.6	54°51.1	54°48.9	54°46.6	54°33.8	54°31.0	54°30.8	54°29.4	54°26.9
Heading, Degrees	145	333	351	0	161	348	351	43	129	168	114	138	153	137
Average Depth (m)	87	82	87	69	106	131	95	82	85	133	144	144	142	142
Distance Fished (km)	1.9	1.9	1.9	1.5	1.9	1.9	1.9	1.9	1.7	1.1	1.5	1.9	1.9	1.9
Bottom Temperature (°C)	6	6	6	6.2	6	6.1	6.2	6.6	6.1	5.3	5.2	5.2	5.1	5.2
<b>Haul</b>	<b>210</b>	<b>211</b>	<b>212</b>	<b>213</b>	<b>214</b>	<b>215</b>	<b>216</b>	<b>217</b>	<b>218</b>	<b>219</b>	<b>220</b>	<b>221</b>	<b>222</b>	<b>223</b>
Location	SANAK	SANAK	COLD B.	COLD B.	COLD B.	COLD B.	COLD B.	COLD B.	COLD B.	COLD B.	COLD B.	COLD B.	COLD B.	COLD B.
Month/Day/Year	8/3/2005	8/4/2005	8/4/2005	8/4/2005	8/5/2005	8/5/2005	8/5/2005	8/5/2005	8/5/2005	8/5/2005	8/5/2005	8/6/2005	8/6/2005	8/6/2005
Station	138B	126	COO	COM	COB	COC	COE	COF	COH	COGB	COGA	BEG	157A	156A
Longitude Start	162°24.4	162°33.3	162°23.0	162°27.8	162°35.8	162°33.3	162°32.7	162°31.6	162°23.8	162°25.7	162°28.5	162°10.3	162°7.4	162°6.4
Latitude Start	54°26.8	54°29.0	55°0.1	55°0.9	55°13.6	55°13.6	55°11.9	55°9.7	55°6.6	55°6.9	55°8.6	54°59.5	54°55.1	54°57.9
Heading, Degrees	290	120	92	91	144	165	159	120	286	321	320	168	153	344
Average Depth (m)	137	140	100	80	51	42	65	84	45	54	91	82	74	85
Distance Fished (km)	1.9	1.9	1.7	1.9	1.3	1.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.2	5.3	7.4	7.7	9.2	9.6	9.1	9.2	9.3	9.3	9.2	7.5	7.2	7
<b>Haul</b>	<b>224</b>	<b>225</b>	<b>226</b>	<b>227</b>	<b>228</b>	<b>229</b>	<b>230</b>	<b>231</b>	<b>232</b>	<b>233</b>	<b>234</b>	<b>235</b>	<b>236</b>	<b>237</b>
Location	COLD B.	COLD B.	COLD B.	COLD B.	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF
Month/Day/Year	8/6/2005	8/6/2005	8/6/2005	8/6/2005	8/7/2005	8/7/2005	8/7/2005	8/7/2005	8/7/2005	8/7/2005	8/7/2005	8/7/2005	8/8/2005	8/8/2005
Station	BEBX	BECX	BEE	BEF	VOLX	VOP	VOQ	VOR	VON	VOMB	VOFB	VOG	VOH	VOI
Longitude Start	162°9.0	162°9.6	162°9.0	162°6.8	161°58.4	161°56.3	161°49.2	161°44.9	161°45.5	161°50.3	161°49.1	161°46.6	161°40.5	161°36.5
Latitude Start	55°8.4	55°6.8	55°4.2	55°1.1	55°12.8	55°11.0	55°11.9	55°11.9	55°13.7	55°13.9	55°15.6	55°15.2	55°16.1	55°17.0
Heading, Degrees	198	181	172	198	116	44	88	310	55	3	43	105	50	59
Average Depth (m)	67	78	80	91	73	76	89	117	117	87	96	106	100	106
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.1	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	6.8	6.6	7	6.9	6.4	6.1	5.9	5.7	5.7	6	5.9	5.7	5.7	5.7

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<b>Haul</b>	<b>238</b>	<b>239</b>	<b>240</b>	<b>241</b>	<b>242</b>	<b>243</b>	<b>244</b>	<b>245</b>	<b>246</b>	<b>247</b>	<b>248</b>	<b>249</b>	<b>250</b>	<b>251</b>
Location	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF	PAVLOF
Month/Day/Year	8/8/2005	8/8/2005	8/8/2005	8/8/2005	8/8/2005	8/8/2005	8/8/2005	8/9/2005	8/9/2005	8/9/2005	8/9/2005	8/9/2005	8/11/2005	8/11/2005
Station	VOD	VOBX	VOA	PAU	PARA	PARB	PAV	PAOA	PAP	PALX	PAEX	PAIX	228	245
Longitude Start	161°32.9	161°36.7	161°43.3	161°40.4	161°40.3	161°35.5	161°34.5	161°39.3	161°34.2	161°32.6	161°32.6	161°35.1	161°16.8	161°13.2
Latitude Start	55°18.9	55°18.6	55°17.6	55°21.2	55°23.5	55°24.9	55°21.1	55°26.1	55°27.4	55°30.0	55°33.5	55°31.9	55°16.8	55°16.2
Heading, Degrees	60	259	14	357	4	158	183	13	234	199	327	186	98	296
Average Depth (m)	109	96	109	126	109	80	96	91	73	53	18	51	82	82
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.7	0.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.8	5.8	5.7	5.8	5.9	6.3	5	6.1	6.6	7.3	12.5	7.2	7	7.2
<b>Haul</b>	<b>252</b>	<b>253</b>	<b>254</b>	<b>255</b>	<b>256</b>	<b>257</b>	<b>258</b>	<b>259</b>	<b>260</b>	<b>261</b>	<b>262</b>	<b>263</b>	<b>264</b>	<b>265</b>
Location	BEAVER	BEAVER	BEAVER	BEAVER	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI
Month/Day/Year	8/11/2005	8/11/2005	8/11/2005	8/11/2005	8/12/2005	8/12/2005	8/12/2005	8/12/2005	8/12/2005	8/12/2005	8/12/2005	8/12/2005	8/13/2005	8/13/2005
Station	278	BVB	BVA	BVC	301	318	337	335	334	354	353	373A	373B	393
Longitude Start	160°56.6	160°52.4	160°54.4	160°53.9	160°44.0	160°37.7	160°29.7	160°29.3	160°22.5	160°19.7	160°18.1	160°8.5	160°3.4	159°58.8
Latitude Start	55°22.8	55°30.2	55°29.6	55°27.8	54°48.2	54°47.5	54°46.1	54°58.0	55°2.5	55°4.0	55°5.4	55°7.7	55°9.0	55°12.0
Heading, Degrees	11	200	182	220	124	106	38	355	48	36	39	121	317	336
Average Depth (m)	109	32	40	82	107	107	104	96	117	107	107	29	73	73
Distance Fished (km)	1.9	1.9	1.9	1.9	1.5	1.5	1.5	1.5	1.1	1.3	1.3	1.7	1.9	1.3
Bottom Temperature (°C)	7.3	9.3	8.5	7.5	5.3	5.4	5.4	6.8	6.6	6.6	6.5	9.7	6.4	6.9
<b>Haul</b>	<b>266</b>	<b>267</b>	<b>268</b>	<b>269</b>	<b>270</b>	<b>271</b>	<b>272</b>	<b>273</b>	<b>274</b>	<b>275</b>	<b>276</b>	<b>277</b>	<b>278</b>	<b>279</b>
Location	W.NAGAI	W.NAGAI	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	STEP.
Month/Day/Year	8/13/2005	8/13/2005	8/14/2005	8/14/2005	8/14/2005	8/14/2005	8/14/2005	8/14/2005	8/14/2005	8/14/2005	8/14/2005	8/14/2005	8/15/2005	8/15/2005
Station	371	332B	329C	311B	312A	311A	BAE	BAF	BAD	BAC	BAA	329B	348	368A
Longitude Start	160°9.2	160°22.5	160°29.3	160°30.2	160°37.3	160°34.9	160°35.9	160°33.2	160°34.5	160°36.9	160°40.8	160°25.6	160°20.0	160°10.9
Latitude Start	55°16.7	55°12.3	55°25.8	55°26.0	55°24.5	55°27.4	55°29.1	55°28.6	55°30.5	55°31.2	55°32.0	55°27.9	55°30.9	55°33.8
Heading, Degrees	324	350	62	269	131	94	159	335	327	176	302	38	42	88
Average Depth (m)	137	155	131	133	45	137	118	76	93	95	31	168	170	179
Distance Fished (km)	1.5	1.5	1.9	1.9	0.7	1.9	1.9	1.9	1.9	1.9	1.5	1.9	1.1	1.9
Bottom Temperature (°C)	6.5	6.3	5	5	8.2	5	5.3	7.1	6.5	5.9	10.6	5	5	5
<b>Haul</b>	<b>280</b>	<b>281</b>	<b>282</b>	<b>283</b>	<b>284</b>	<b>285</b>	<b>286</b>	<b>287</b>	<b>288</b>	<b>289</b>	<b>290</b>	<b>291</b>	<b>292</b>	<b>293</b>
Location	STEP.	STEP.	STEP.	STEP.	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	IVANOF	MITRO.	MITRO.
Month/Day/Year	8/15/2005	8/15/2005	8/15/2005	8/15/2005	8/16/2005	8/16/2005	8/16/2005	8/16/2005	8/16/2005	8/16/2005	8/17/2005	8/17/2005	8/17/2005	8/17/2005
Station	STD	STA	STB	STE	4007	4008	4000	400X	4900	4915	4024	4036	4037	4025
Longitude Start	159°49.5	159°48.8	159°45.6	159°46.0	159°23.5	159°25.2	159°28.5	159°29.3	159°29.8	159°10.8	159°4.1	158°55.9	158°57.4	159°0.5
Latitude Start	55°45.2	55°48.6	55°49.7	55°47.4	55°46.8	55°44.3	55°47.3	55°49.1	55°51.8	55°51.7	55°53.5	55°53.0	55°49.0	55°48.0
Heading, Degrees	17	357	165	186	192	166	120	155	64	213	130	198	196	183
Average Depth (m)	118	91	106	118	82	100	78	69	38	64	96	128	128	122
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.1	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.1	6.4	5.4	5.1	7.3	6.4	7.2	6.5	10.3	10.2	6.9	5.9	5.6	6.4

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<b>Haul</b>	<b>294</b>	<b>295</b>	<b>296</b>	<b>297</b>	<b>298</b>	<b>299</b>	<b>300</b>	<b>301</b>	<b>302</b>	<b>303</b>	<b>304</b>	<b>305</b>	<b>306</b>	<b>307</b>
Location	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	MITRO.	CHIGNIK
Month/Day/Year	8/17/2005	8/17/2005	8/17/2005	8/17/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/18/2005	8/19/2005
Station	4026	4038	4043	4035	4063	4048	4064	4065	4068	4067	4066	4095	4094	4964
Longitude Start	159°1.3	158°58.5	158°54.8	158°50.5	158°34.9	158°38.0	158°35.7	158°34.0	158°32.9	158°35.9	158°39.9	158°43.4	158°45.1	158°20.9
Latitude Start	55°43.5	55°42.1	55°42.1	55°57.1	56°8.0	56°3.8	55°60.0	55°56.8	55°52.1	55°53.2	55°52.5	55°53.8	55°55°3	56°13.5
Heading, Degrees	203	32	201	117	221	180	336	182	338	179	0	296	291	92
Average Depth (m)	133	146	146	140	142	146	146	102	122	115	117	137	142	67
Distance Fished (km)	1.9	1.9	1.5	1.9	1.9	1.9	1.5	1.9	1.9	1.9	1.9	1.5	1.9	1.9
Bottom Temperature (°C)	5.4	5.3	5.2	6.7	5.4	6	5.7	6.7	6.6	6.8	6.8	6.7	6.7	9.9
<b>Haul</b>	<b>308</b>	<b>309</b>	<b>310</b>	<b>311</b>	<b>312</b>	<b>313</b>	<b>314</b>	<b>315</b>	<b>316</b>	<b>317</b>	<b>318</b>	<b>319</b>	<b>320</b>	<b>321</b>
Location	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK
Month/Day/Year	8/19/2005	8/19/2005	8/19/2005	8/19/2005	8/19/2005	8/19/2005	8/19/2005	8/20/2005	8/20/2005	8/20/2005	8/20/2005	8/20/2005	8/20/2005	8/20/2005
Station	4264	4265	4271	4270	4312	4278	4282	4272	4277	4274	4267	4266	4256	4262
Longitude Start	158°15.6	158°18.4	158°12.7	158°11.1	158°8.9	158°2.1	157°59.8	158°5.6	158°3.5	158°8.6	158°9.9	158°12.6	158°18.3	158°16.1
Latitude Start	56°14.1	56°11.4	56°14.0	56°15.0	56°15.3	56°23.5	56°25.3	56°29.1	56°25.8	56°24.3	56°24.0	56°25.2	56°25.3	56°20.8
Heading, Degrees	205	28	59	61	70	317	94	151	167	100	295	95	280	131
Average Depth (m)	73	54	93	100	124	188	195	104	177	164	117	146	91	78
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.1	1.9	1.9	1.5
Bottom Temperature (°C)	8.7	10.1	8.1	8.2	7.9	5.6	5.7	6.7	5.7	5.6	5.7	5.5	6.5	8.7
<b>Haul</b>	<b>322</b>	<b>323</b>	<b>324</b>	<b>325</b>	<b>326</b>	<b>327</b>	<b>328</b>	<b>329</b>	<b>330</b>	<b>331</b>	<b>332</b>	<b>333</b>	<b>334</b>	<b>335</b>
Location	CHIGNIK	CHIGNIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD
Month/Day/Year	8/21/2005	8/21/2005	8/21/2005	8/21/2005	8/21/2005	8/21/2005	8/22/2005	8/22/2005	9/6/2005	9/6/2005	9/7/2005	9/7/2005	9/7/2005	9/7/2005
Station	4287	4286	4298	4301	4302	4308	4290	4296	KUD	KUF	KUM	KUK	KUJ	KUI
Longitude Start	157°56.2	157°54.7	157°44.9	157°41.3	157°40.4	157°36.8	157°51.0	157°46.4	153°9.6	153°18.1	153°7.1	153°15.1	153°17.7	153°23.2
Latitude Start	56°24.2	56°25.6	56°32.1	56°34.0	56°32.4	56°32.4	56°36.3	56°37.3	57°59.1	58°1.7	57°51.8	57°55.1	57°56.2	57°58.4
Heading, Degrees	61	99	87	147	117	148	137	148	280	271	288	291	299	288
Average Depth (m)	186	160	96	91	100	122	25	69	40	146	69	142	155	237
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.9	1.1	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.9	6	7.9	7.2	7.2	6.8	11.2	10.4	8.3	6.7	7.4	6.5	6.5	6.3
<b>Haul</b>	<b>336</b>	<b>337</b>	<b>338</b>	<b>339</b>	<b>340</b>	<b>341</b>	<b>342</b>	<b>343</b>	<b>344</b>	<b>345</b>	<b>346</b>	<b>347</b>	<b>348</b>	<b>349</b>
Location	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD
Month/Day/Year	9/7/2005	9/7/2005	9/7/2005	9/7/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/8/2005	9/9/2005	9/9/2005
Station	KULX	KUL	KUY	KUYX	KUNX	KUP	KUQ	KUS	KUT	KUU	KUW	KUV	KUX	KUXX
Longitude Start	153°13.4	153°12.4	153°11.7	153°12.8	153°22.7	153°27.0	153°31.4	153°32.9	153°31.3	153°29.0	153°31.6	153°31.8	153°22.8	153°24.3
Latitude Start	57°51.7	57°50.0	57°47.3	57°44.5	57°50.2	57°51.5	57°53.1	57°52.4	57°49.5	57°47.0	57°41.8	57°44.5	57°44.2	57°46.1
Heading, Degrees	323	3	181	27	305	296	315	147	171	315	162	4	9	312
Average Depth (m)	100	82	65	21	128	157	179	182	181	155	67	87	106	117
Distance Fished (km)	1.7	1.9	1.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.5	1.5	1.7
Bottom Temperature (°C)	7.3	7.4	9.5	12.2	6.4	6.2	6	6	6	6.1	7	6.6	6.1	6

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<b>Haul</b>	<b>350</b>	<b>351</b>	<b>352</b>	<b>353</b>	<b>354</b>	<b>355</b>	<b>356</b>	<b>357</b>	<b>358</b>	<b>359</b>	<b>360</b>	<b>361</b>	<b>362</b>	<b>363</b>
Location	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.
Month/Day/Year	9/9/2005	9/9/2005	9/9/2005	9/10/2005	9/10/2005	9/10/2005	9/10/2005	9/10/2005	9/10/2005	9/10/2005	9/11/2005	9/11/2005	9/11/2005	9/11/2005
Station	UYBX	UYEX	UYFX	UYHX	UYKX	UYO	UYMX	UYQX	UYSS	UYT	224	223	222	198
Longitude Start	153°59.9	153°55.7	153°49.7	153°43.0	153°52.7	153°47.8	153°54.7	153°54.3	153°49.0	153°47.7	153°50.0	153°54.6	154°3.8	153°55.7
Latitude Start	57°44.5	57°38.7	57°40.4	57°39.8	57°35.6	57°34.2	57°31.5	57°29.1	57°25.7	57°22.0	58°7.5	58°9.5	58°7.7	58°14.0
Heading, Degrees	162	0	268	275	326	321	176	334	171	345	9	230	31	35
Average Depth (m)	131	182	137	91	137	87	146	149	82	43	195	202	248	219
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	7.4	7.2	7.7	7.8	7.5	8.3	7.7	7.6	8.2	8.4	5.4	5.4	5.3	5.3
<b>Haul</b>	<b>364</b>	<b>365</b>	<b>366</b>	<b>367</b>	<b>368</b>	<b>369</b>	<b>370</b>	<b>371</b>	<b>372</b>	<b>373</b>	<b>374</b>	<b>375</b>	<b>376</b>	<b>377</b>
Location	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.
Month/Day/Year	9/11/2005	9/11/2005	9/11/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/13/2005	9/13/2005	9/13/2005	9/13/2005
Station	199	200	174	171	171X	171Y	172	145	117	144	173	146	147	121
Longitude Start	153°48.0	153°38.4	153°39.0	154°15.6	154°12.3	154°6.3	154°2.5	153°49.9	153°48.2	153°58.3	153°48.4	153°39.6	153°29.9	153°13.0
Latitude Start	58°14.5	58°14.6	58°17.7	58°18.2	58°19.5	58°19.2	58°17.1	58°25.8	58°27.3	58°26.2	58°17.9	58°22.0	58°23.2	58°28.7
Heading, Degrees	40	10	17	69	71	102	37	42	63	71	29	56	32	35
Average Depth (m)	193	179	179	107	106	69	102	106	91	87	199	170	181	173
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	2	1.9	1.9	1.9	1.5	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.3	5.5	5.6	8.9	9.2	9.6	7.5	8	8.4	8.5	5.3	5.4	5.4	5.4
<b>Haul</b>	<b>378</b>	<b>379</b>	<b>380</b>	<b>381</b>	<b>382</b>	<b>383</b>	<b>384</b>	<b>385</b>	<b>386</b>	<b>387</b>	<b>388</b>	<b>389</b>	<b>390</b>	<b>391</b>
Location	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	W.KOD	W.KOD	W.KOD	W.KOD
Month/Day/Year	9/13/2005	9/13/2005	9/13/2005	9/13/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/15/2005	9/15/2005	9/15/2005	9/15/2005
Station	120	119	118	90	91	60	61	31	2	3	PAA	MAA	RAA	KUG
Longitude Start	153°16.9	153°28.8	153°37.6	153°31.8	153°24.6	153°20.8	153°14.6	153°13.3	153°12.3	153°2.7	152°57.1	153°4.5	153°12.2	153°26.0
Latitude Start	58°30.1	58°29.3	58°29.1	58°32.6	58°34.5	58°37.7	58°39.6	58°42.7	58°47.1	58°47.3	58°18.0	58°13.0	58°7.6	58°2.5
Heading, Degrees	260	220	56	35	53	37	56	24	11	150	323	275	321	167
Average Depth (m)	173	149	133	118	131	117	155	155	142	149	124	137	106	76
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature (°C)	5.4	5.6	7.1	7.6	6.8	7	6.7	6.7	7.1	5.8	7.6	7.1	8	6.9

**Appendix B2.**—Stations fished during the 2005 Westward Region trawl survey, divided into districts, sections, and strata with areas in square kilometers and square nautical miles.

KODIAK DISTRICT											
NORTHEAST SECTION			EASTSIDE SECTION			SOUTHEAST SECTION			SOUTHWEST SECTION		
<b>Inner Marmot</b>			<b>Uguk Bay</b>			<b>South Sitkalidik</b>			<b>Alitak Flats</b>		
<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>
KZA	11.7	3.4	UGAA	16.1	4.7	THA	15.1	4.4	645B	34.4	10.0
KZB	2.8	0.8	UGAB	4.7	1.4	THC	19.6	5.7	646A	27.2	7.9
KZC	12.4	3.6	UGAC	3.2	0.9	THD	28.7	8.3	646B	16.5	4.8
KZD	23.7	6.9	UGB	5.8	1.7	THF	22.4	6.5	646C	29.2	8.5
KZE	27.5	8.0	UGC	17.5	5.1	THG	21.5	6.3	646D	37.5	10.9
KZF	20.6	6.0	UGD	11.0	3.2	THH	19.3	5.6	682B	23.0	6.7
KZG	21.3	6.2	UGE	12.7	3.7	THI	21.7	6.3	683A	23.0	6.7
KZJ	21.5	6.3	UGF	15.8	4.6	THJ	17.9	5.2	683B	21.0	6.1
KZK	21.5	6.3	UGG	11.0	3.2	THK	16.5	4.8	683D	9.3	2.7
KZO	21.5	6.3	UGI	22.4	6.5	THL	9.3	2.7	684A	23.0	6.7
KZR	13.8	4.0	UGJ	21.5	6.3	THM	10.7	3.1	684B	10.3	3.0
KZS	3.1	0.9	UGM	16.9	4.9	THN	5.2	1.5	684C	8.6	2.5
	201.4	58.6		158.7	46.1		207.7	60.4		263.2	76.5
<b>Middle Marmot</b>			<b>Kiliuda Bay</b>			<b>Offshore Twoheaded</b>			<b>Alitak Bay</b>		
<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>
MOEX	78.4	22.8	KLA	21.0	6.1	586	86.0	25.0	ALA	3.1	0.9
MOGX	76.0	22.1	KLB	9.3	2.7	614	64.3	18.7	ALB	17.8	5.2
MOLX	77.7	22.6	KLC	19.6	5.7	615	99.8	29.0	ALC	8.2	2.4
MONX	86.0	25.0	KLD	18.2	5.3	651	86.0	25.0	ALD	13.1	3.8
MOPX	97.7	28.4	KLE	8.3	2.4		336.1	97.7	ALF	21.5	6.3
MOQ	21.5	6.3	KLF	15.1	4.4				ALG	20.0	5.8
MOT	20.0	5.8	KLG	16.5	4.8				ALH	16.2	4.7
MOX	13.1	3.8	KLH	16.9	4.9	<b>Horse's Head</b>			ALI	16.7	4.9
MOXX	81.2	23.6	KLI	21.5	6.25	<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	ALJ	15.1	4.4
	551.6	160.4	KLL	21.5	6.25	618A	43.0	12.5	ALK	10.0	2.9
				167.9	48.8	585X	94.6	27.5	ALL	8.3	2.4
<b>Outer Marmot</b>			<b>Horseshoe/Barnabas</b>								
<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>						
255	129.0	37.5	486A	28.0	8.1	688	86.0	25.0	ALM	16.2	4.7
256	86.0	25.0	486B	29.4	8.6	725	86.0	25.0	ALO	16.9	4.9
257	86.0	25.0	510B	63.2	18.4	726	86.0	25.0	ALP	19.3	5.6
283	129.0	37.5	510C	40.8	11.9	727	86.0	25.0	ALQ	14.4	4.2
284	86.0	25.0	511A	43.0	12.5	728	86.0	25.0	ALR	13.4	3.9
285	86.0	25.0	511B	43.0	12.5	729	86.0	25.0		230.0	66.9
313	86.0	25.0	533A	43.0	12.5	759	86.0	25.0			
314	86.0	25.0	533B	43.0	12.5	760	86.0	25.0			
255X	60.2	17.5	533C	21.5	6.3	761	86.0	25.0			
283X	63.6	18.5	533D	21.5	6.3		911.6	265.0			
	897.8	261.0	534B	21.5	6.3				<b>Compass Rose</b>		
			534D	28.4	8.3				<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>
<b>Chiniak Gully</b>			535A	21.5	6.3				608X	172.0	50.0
<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	535B	21.5	6.3				678X	172.0	50.0
369X	151.4	44.0	535C	21.5	6.3				677X	172.0	50.0
395	86.0	25.0	535D	21.5	6.3				712X	172.0	50.0
420	86.0	25.0	559	86.0	25.0					688.0	200.0
421	86.0	25.0	560	86.0	25.0						
443	86.0	25.0	561	86.0	25.0						
444	86.0	25.0	587	86.0	25.0						
	581.4	169.0	588	86.0	25.0						
<b>Chiniak</b>			589	86.0	25.0						
<u>Station</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>	619	86.0	25.0						
CHA	5.5	1.6	620	86.0	25.0						
CHB	7.9	2.3	621	86.0	25.0						
CHE	20.6	6.0	654	86.0	25.0						
CHF	12.7	3.7	655	86.0	25.0						
CHG	34.7	10.1	656	86.0	25.0						
CHJ	35.8	10.4	695	86.0	25.0						
CHK	8.6	2.5	696	86.0	25.0						
CHL	14.1	4.1									
	140.0	40.7		1673.3	486.4						

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Appendix B2.–Page 2 of 3.

KODIAK DISTRICT (Continued)											
N.MAINLAND SECTION			WESTSIDE SECTION								
			Uyak Bay			Kupreanof-Viekoda			Uganik Bay		
Station	KM <sup>2</sup>	NM <sup>2</sup>	Station	KM <sup>2</sup>	NM <sup>2</sup>	Station	KM <sup>2</sup>	NM <sup>2</sup>	Station	KM <sup>2</sup>	NM <sup>2</sup>
2	86.0	25.0	UYBX	21.5	6.3	KUD	27.2	7.9	KUNX	10.8	3.1
3	86.0	25.0	UYEX	30.0	8.7	KUF	11.3	3.3	KUP	13.3	3.9
31	83.9	24.4	UYFX	22.1	6.4	KUG	15.5	4.5	KUQ	20.6	6.0
60	86.0	25.0	UYHX	4.1	1.2	KUI	6.4	1.9	KUS	12.2	3.5
61	86.0	25.0	UYKX	13.9	4.0	KUJ	17.0	5.0	KUT	9.4	2.7
90	80.5	23.4	UYMX	20.9	6.1	KUK	14.1	4.1	KUU	13.7	4.0
91	86.0	25.0	UYO	3.4	1.0	KUL	2.7	0.79	KUV	4.1	1.2
117	98.0	28.5	UYQX	7.7	2.2	KUM	10.5	3.1	KUW	5.2	1.5
118	86.0	25.0	UYSS	6.1	1.8	KUY	4.1	1.2	KUX	4.1	1.2
119	86.0	25.0	UYT	2.9	0.8	KULX	2.1	0.61	KUXX	5.6	1.6
120	86.0	25.0		132.5	38.5	KUYX	2.6	0.8		99.1	28.8
121	86.0	25.0					113.6	33.0			
144	60.9	17.7									
145	86.0	25.0	<b>West Afognak</b>								
146	86.0	25.0	Station	KM <sup>2</sup>	NM <sup>2</sup>						
147	89.4	26.0	RAA	6.7	2.0						
171	11.5	3.3	PAA	15.1	4.4						
171X	8.1	2.4	MAA	10.7	3.1						
171Y	29.2	8.5		32.5	9.5						
172	89.4	26.0									
173	86.0	25.0									
174	86.0	25.0									
198	86.0	25.0									
199	86.0	25.0									
200	86.0	25.0									
222	113.5	33.0									
223	86.0	25.0									
224	86.0	25.0									
	2212.5	643.2									
<b>KODIAK DISTRICT TOTALS</b>											
			<u>SECTION</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>						
			Northeast	2372.2	689.6						
			Eastside	1999.8	581.4						
			Southeast	1455.4	423.1						
			Southwest	1181.1	343.4						
			Westside	377.5	109.8						
			N. Mainland	2212.5	643.2						
			Kodiak District	9598.6	2790.3						
<b>CHIGNIK DISTRICT</b>											
CHIGNIK BAY			IVANOF BAY			KUJULIK BAY			MITROFANIA ISLAND		
Station	KM <sup>2</sup>	NM <sup>2</sup>	Station	KM <sup>2</sup>	NM <sup>2</sup>	Station	KM <sup>2</sup>	NM <sup>2</sup>	Station	KM <sup>2</sup>	NM <sup>2</sup>
4256	24.1	7.0	400X	5.6	1.6	4290	21.5	6.3	4025	37.7	11.0
4262	21.5	6.3	4000	15.8	4.6	4298	19.3	5.6	4026	40.2	11.7
4264	20.2	5.9	4008	42.2	12.3	4302	21.1	6.1	4035	68.8	20.0
4265	6.6	1.9	4915	51.8	15.1	4301	21.5	6.3	4037	45.3	13.2
4266	19.7	5.7	4007	59.5	17.3	4296	10.3	3.0	4038	41.1	12.0
4267	21.5	6.3	4024	65.9	19.2	4308	17.2	5.0	4036	68.3	19.8
4270	17.2	5.0	4900	10.7	3.1		110.9	32.2	4043	32.8	9.5
4271	10.3	3.0		251.4	73.1				4048	14.8	4.3
4272	16.0	4.6							4063	57.3	16.7
4274	21.5	6.3							4064	57.3	16.7
4277	21.5	6.3							4065	80.3	23.3
4278	21.5	6.3							4066	29.0	8.4
4282	21.5	6.3							4067	29.0	8.4
4286	21.5	6.3							4068	29.0	8.4
4287	29.8	8.7							4094	86.0	25.0
4312	22.0	6.4							4095	36.2	10.5
4964	9.6	2.8								753.2	218.9
	325.9	94.7									
			<u>SECTION</u>	<u>KM<sup>2</sup></u>	<u>NM<sup>2</sup></u>						
			Chignik Bay	325.9	94.7						
			Ivanof	251.4	73.1						
			Kujulik	110.9	32.2						
			Mitrofanina	753.0	218.9						
				1441.2	419.0						

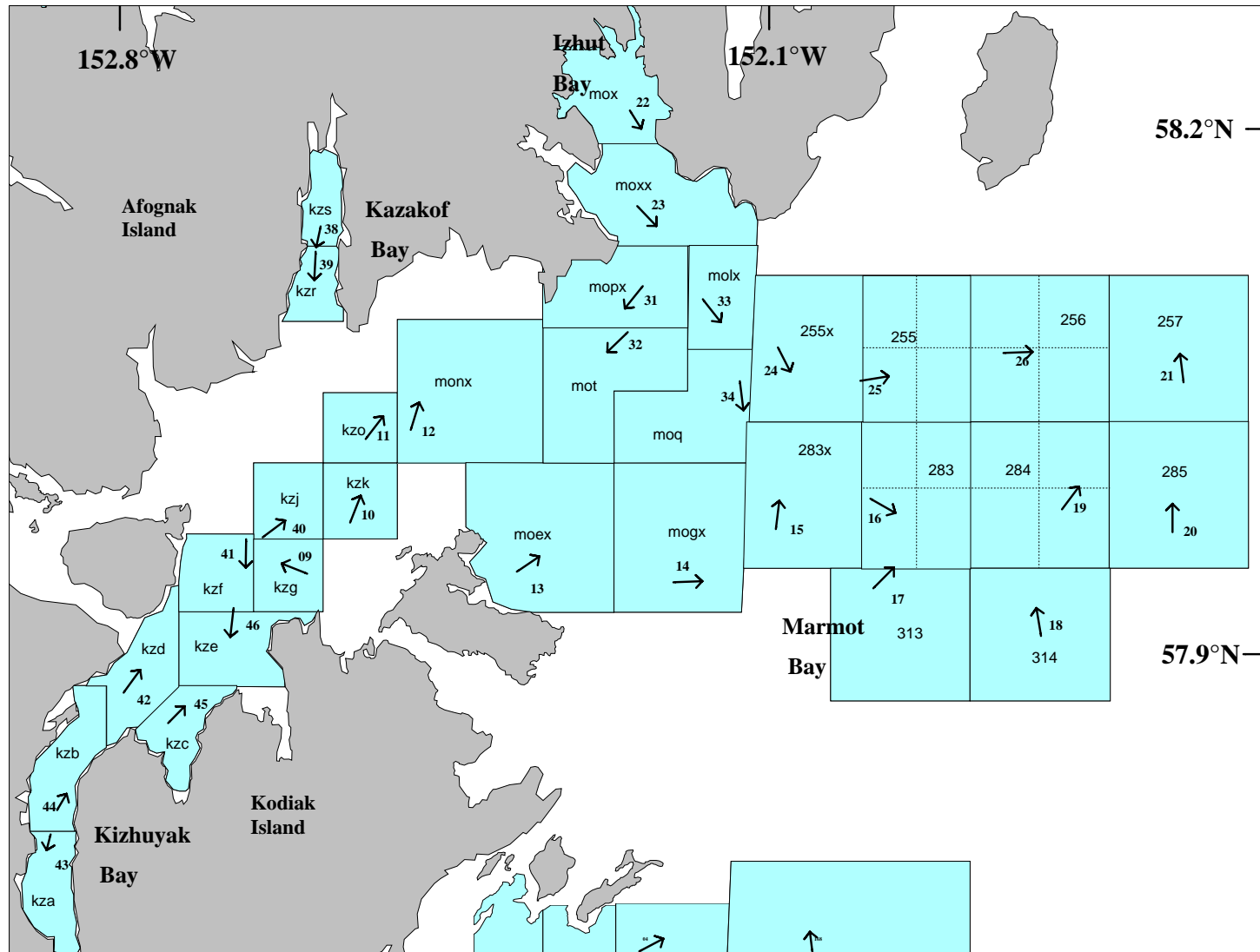
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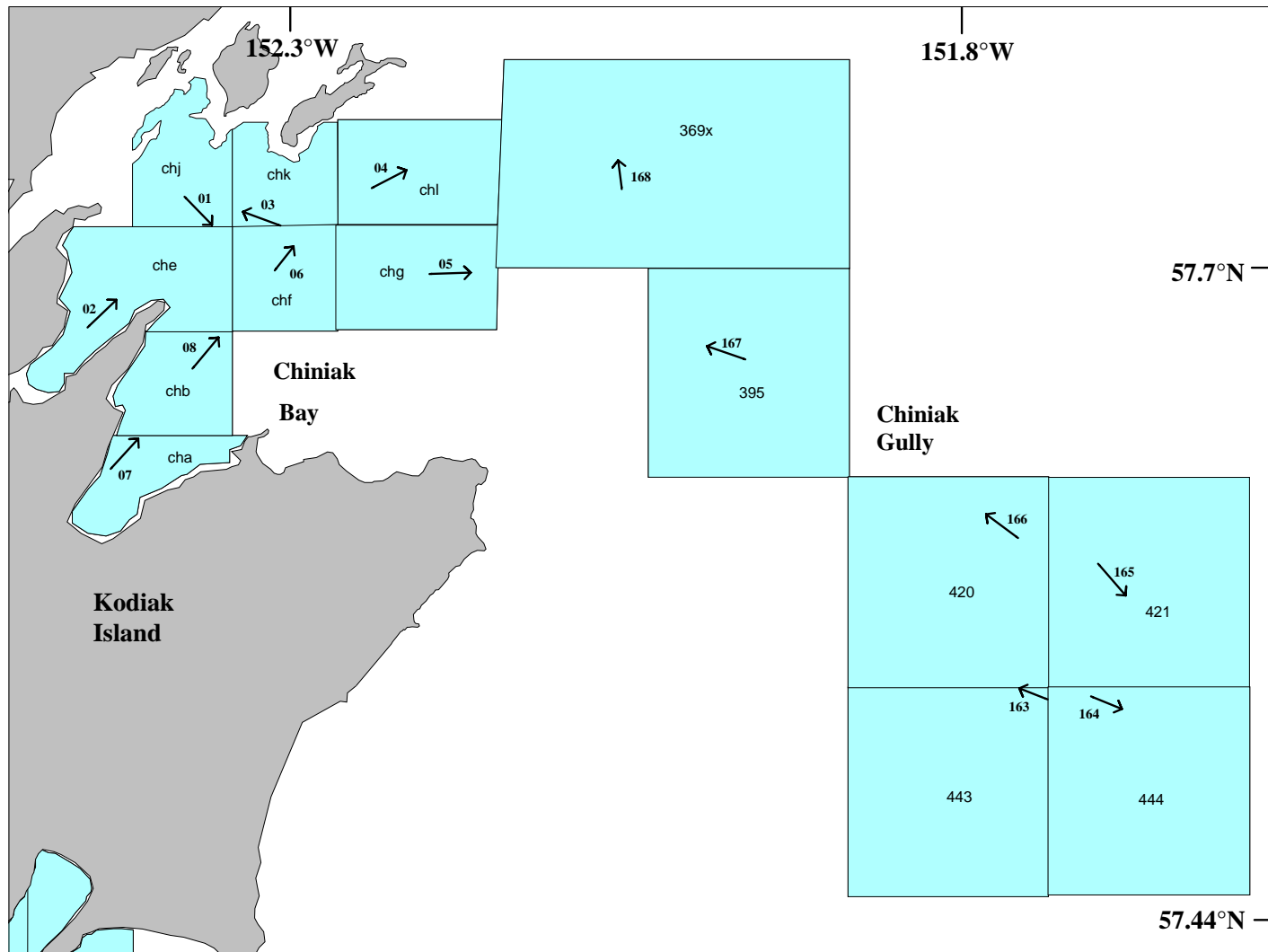




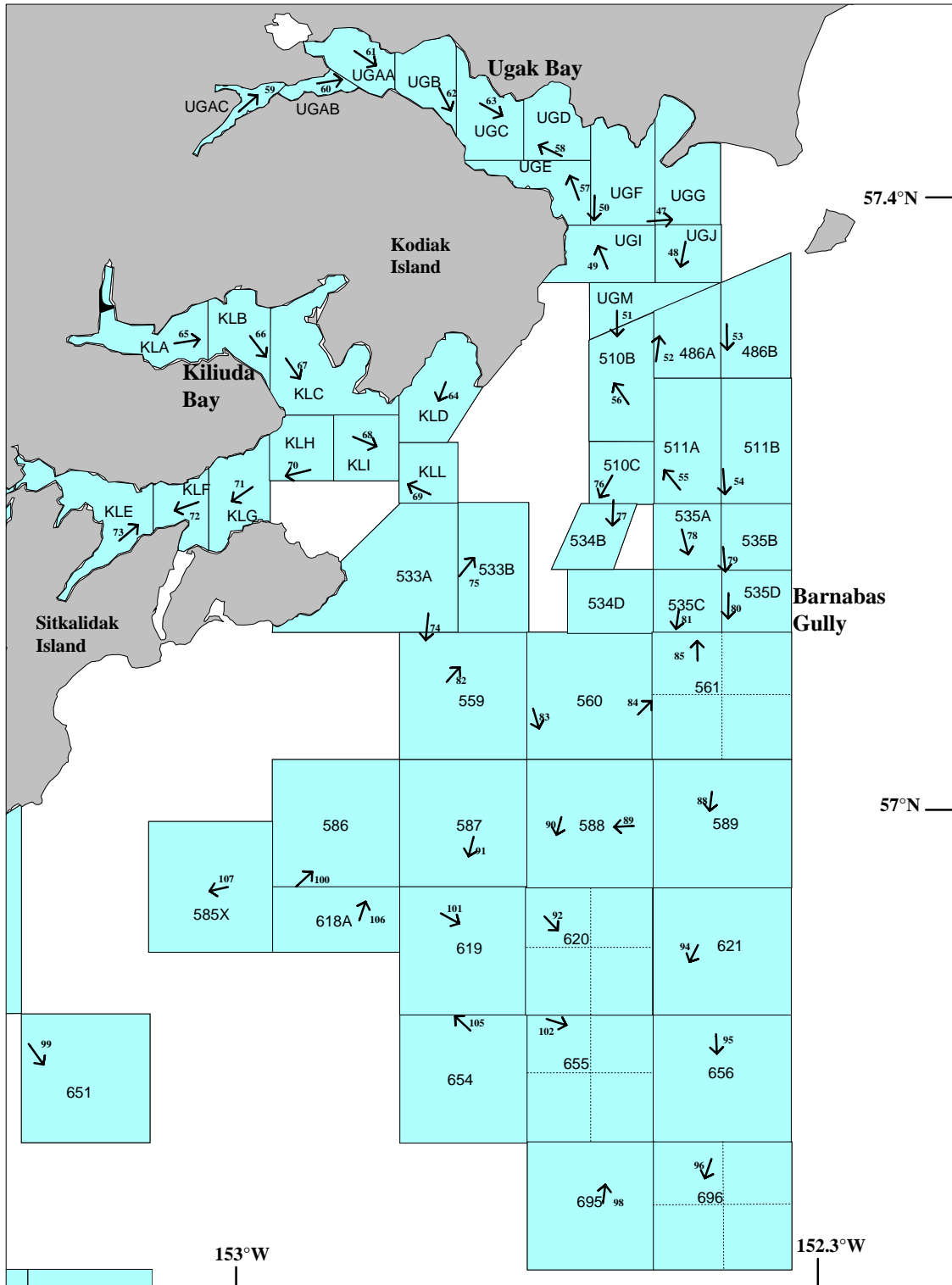
## **APPENDIX C. TRAWL MAPS**



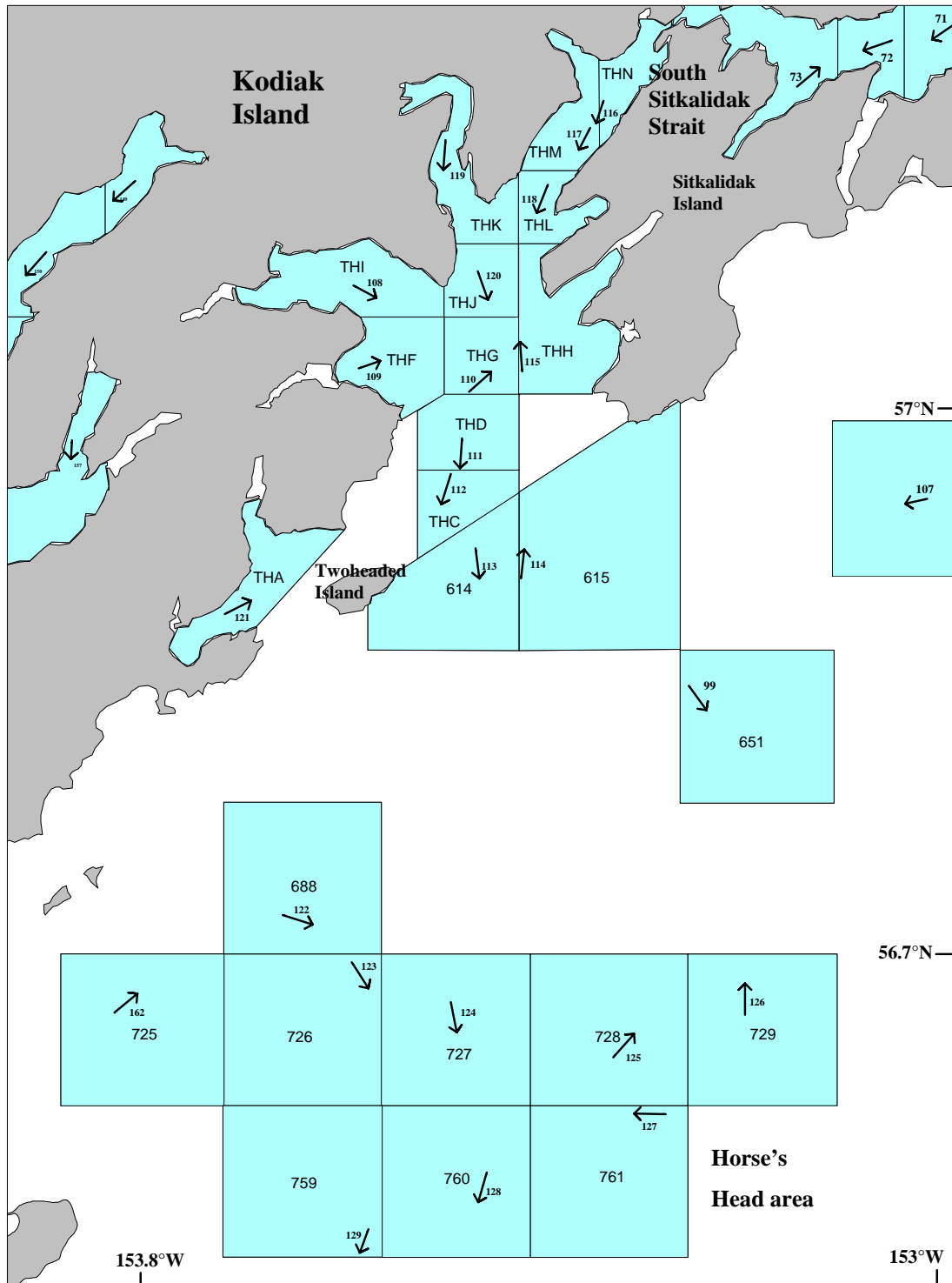
**Appendix C1.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Izhut, Kazakof, Kizhuyak, and Marmot Bays, June 2005.



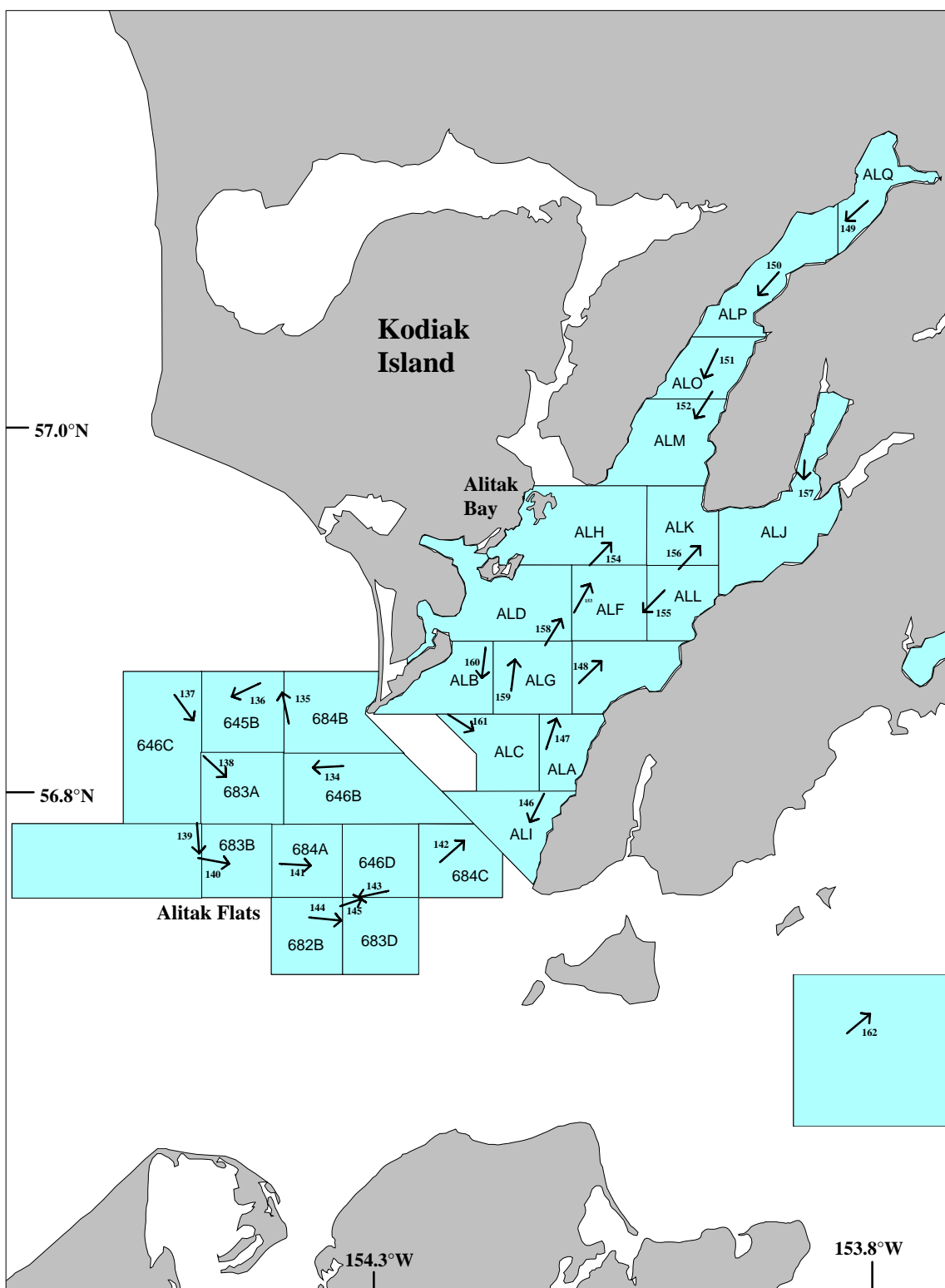
**Appendix C2.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Chiniak Bay and Chiniak Gully, June 2005.



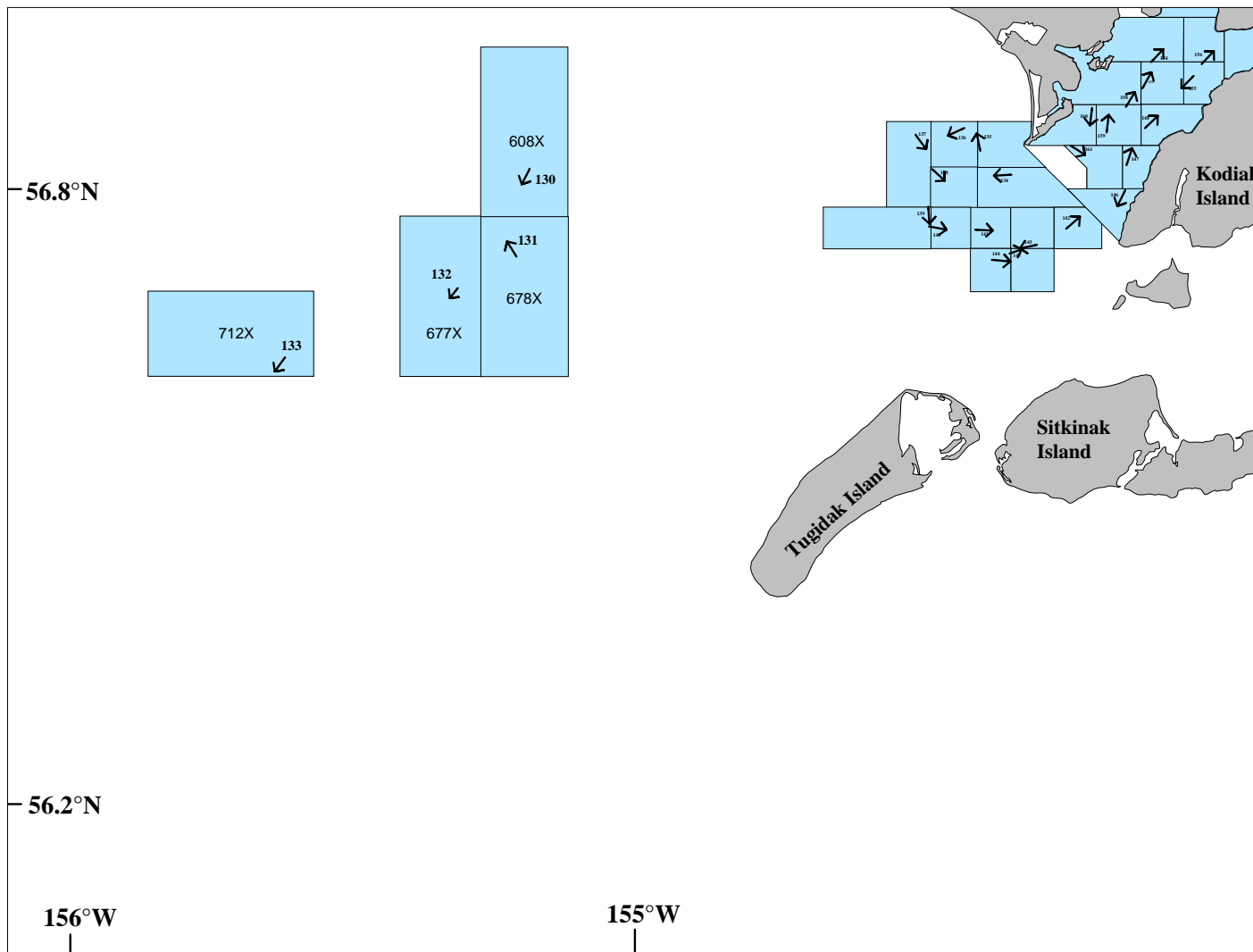
**Appendix C3.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Ugak Bay, Kiliuda Bay, and Barnabas Gully, June and July 2005.



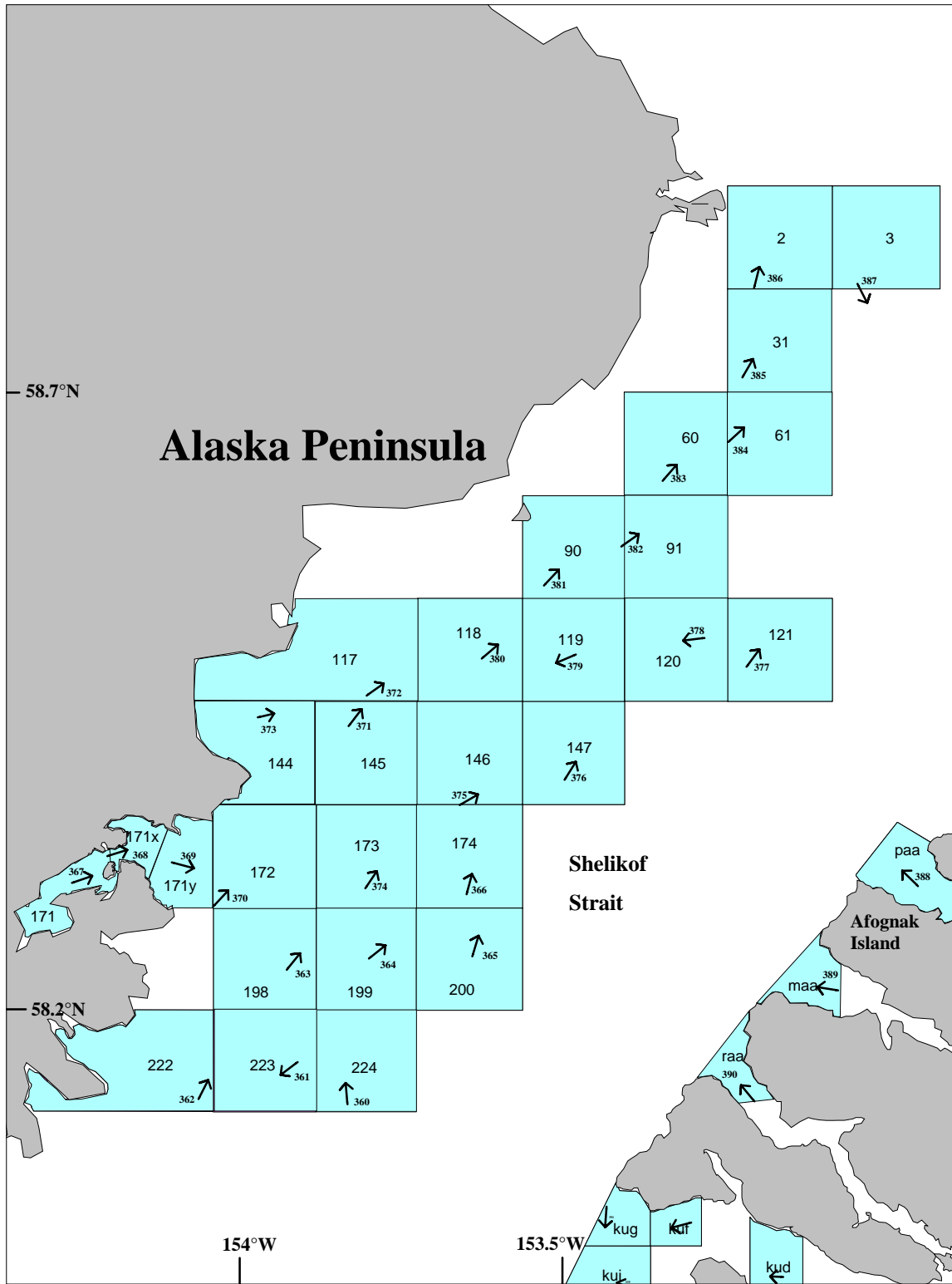
**Appendix C4.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), South Sitkalidak Strait, Twoheaded Island, and Horse's Head area, July 2005.



**Appendix C5.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Alitak Bay and Alitak flats, July 2005.

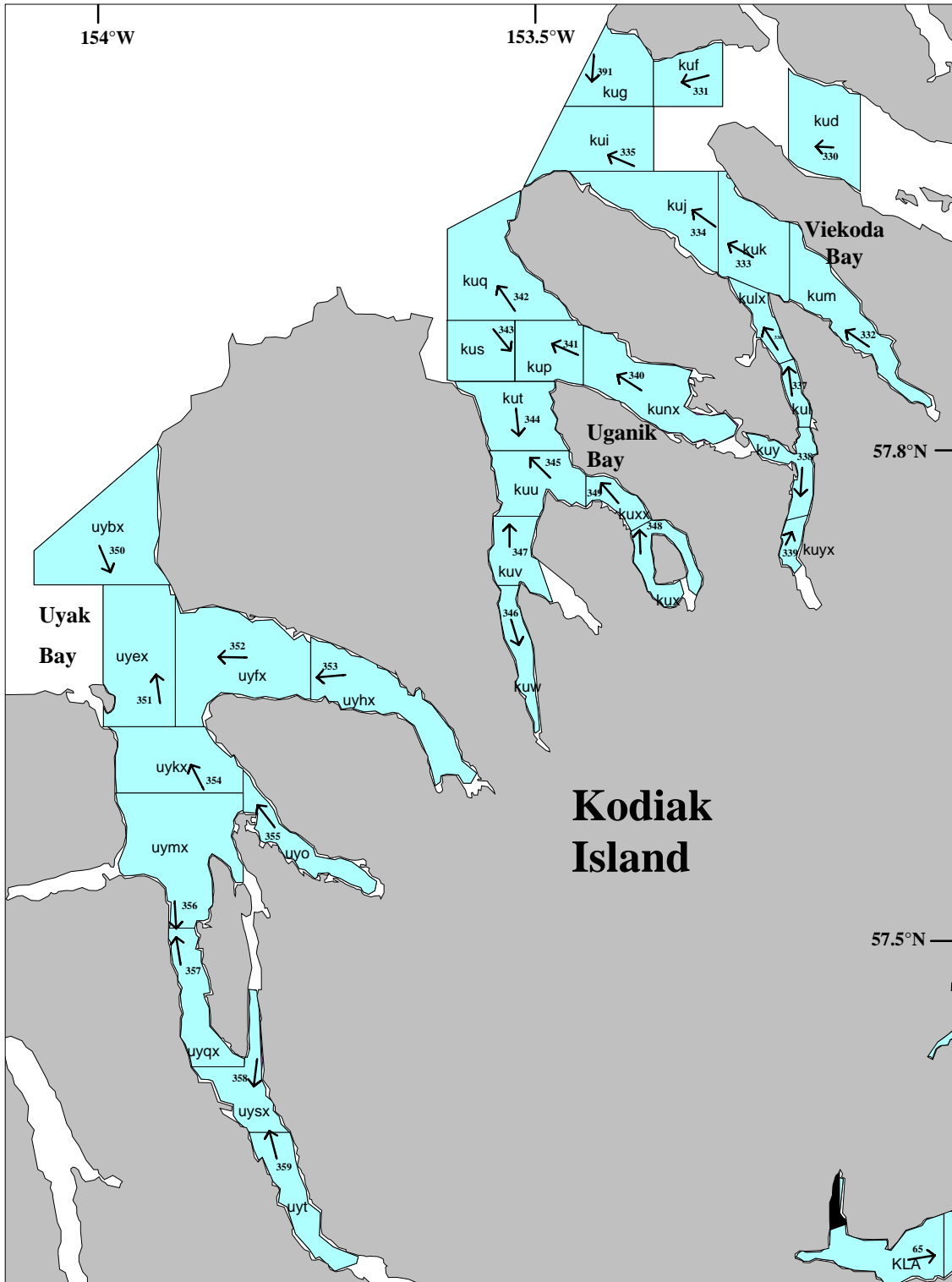


**Appendix C6.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), south Kodiak Island offshore, July 2005.

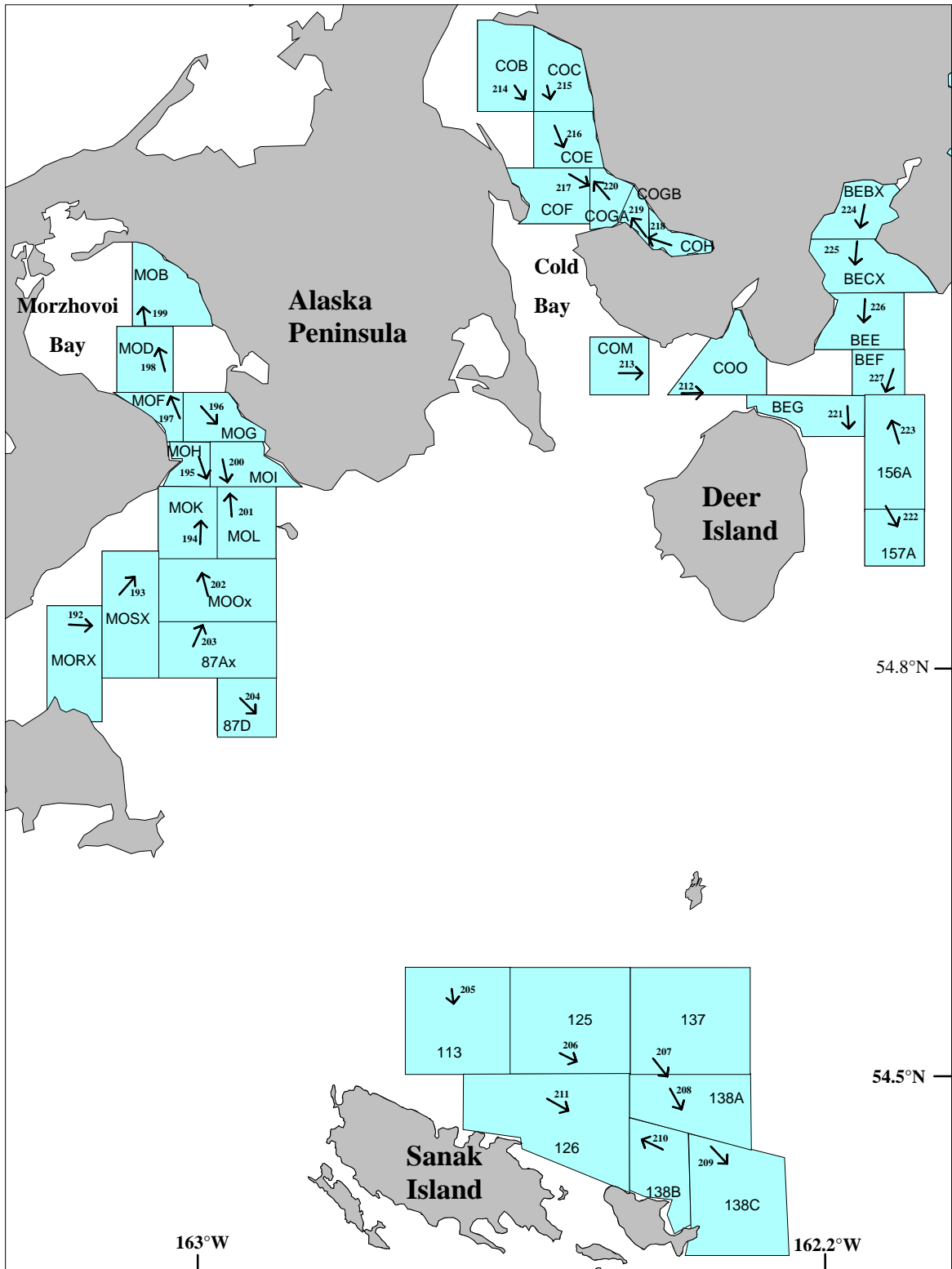


**Appendix C7.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Shelikof Strait, September 2005.

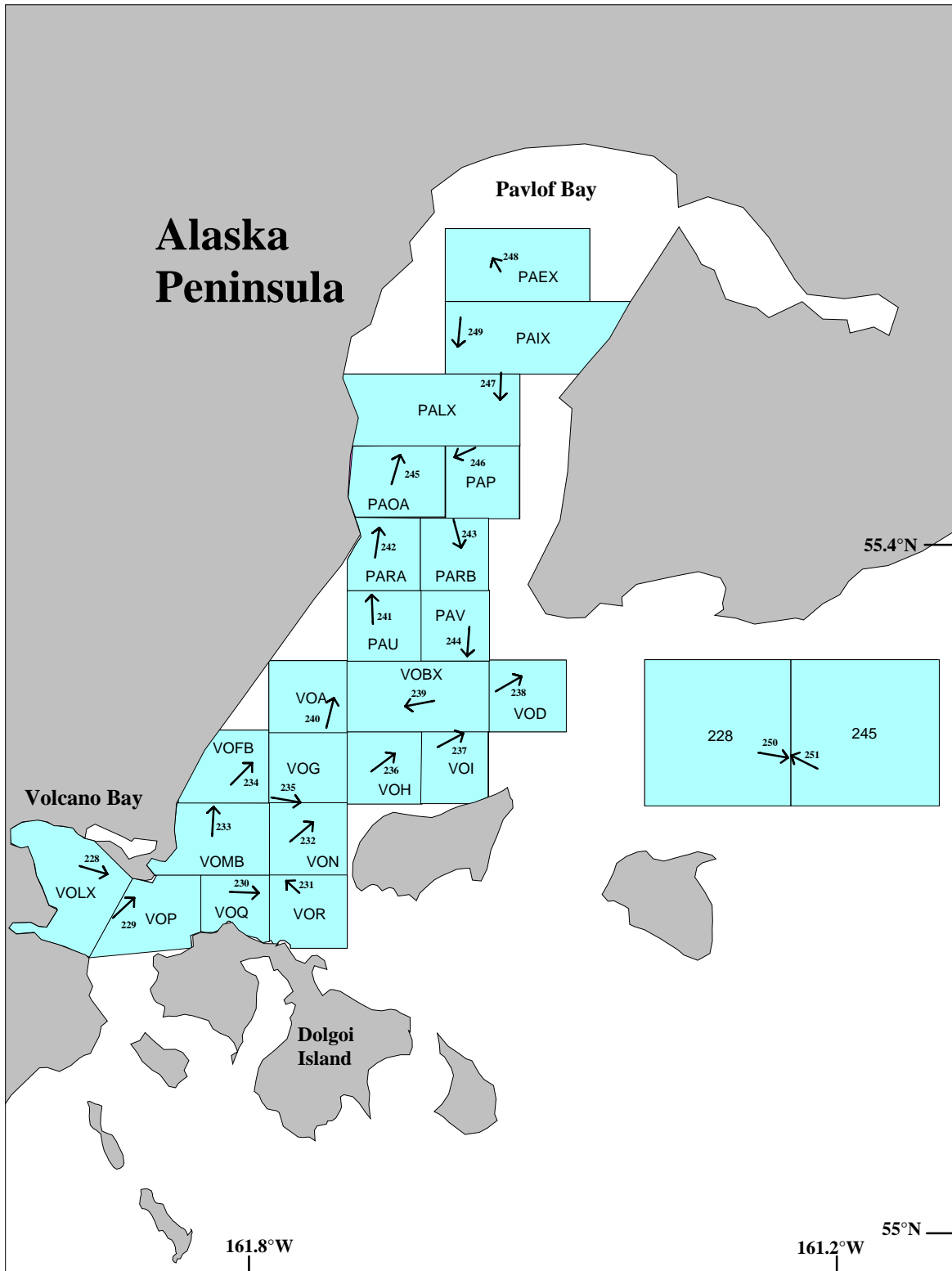




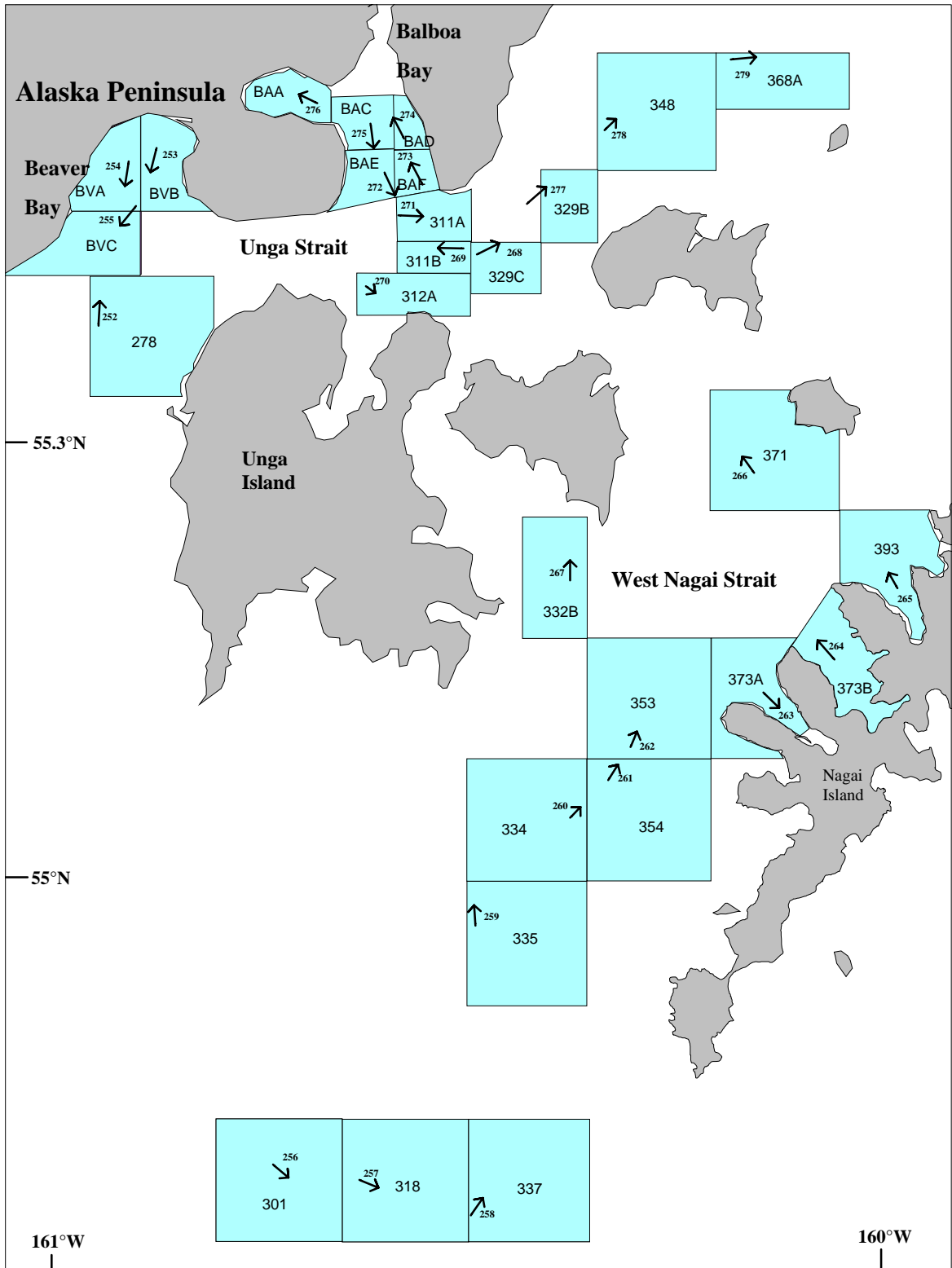
**Appendix C8.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Uyak, Uganik, and Viekada Bays, September 2005.



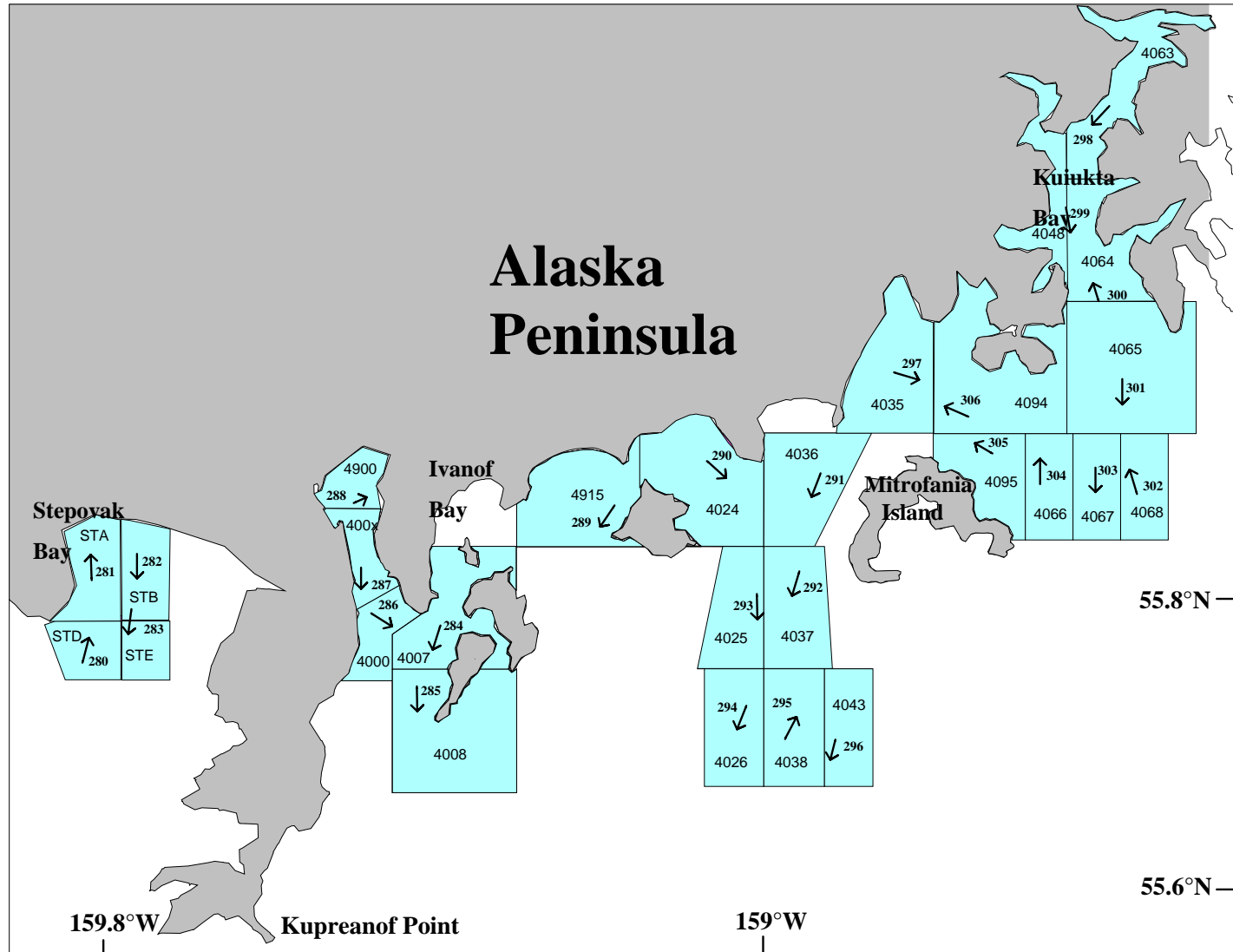
**Appendix C9.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Morzhovoi Bay, Cold Bay, Belkofski Bay, Deer Island, and Sanak Island, August 2005.



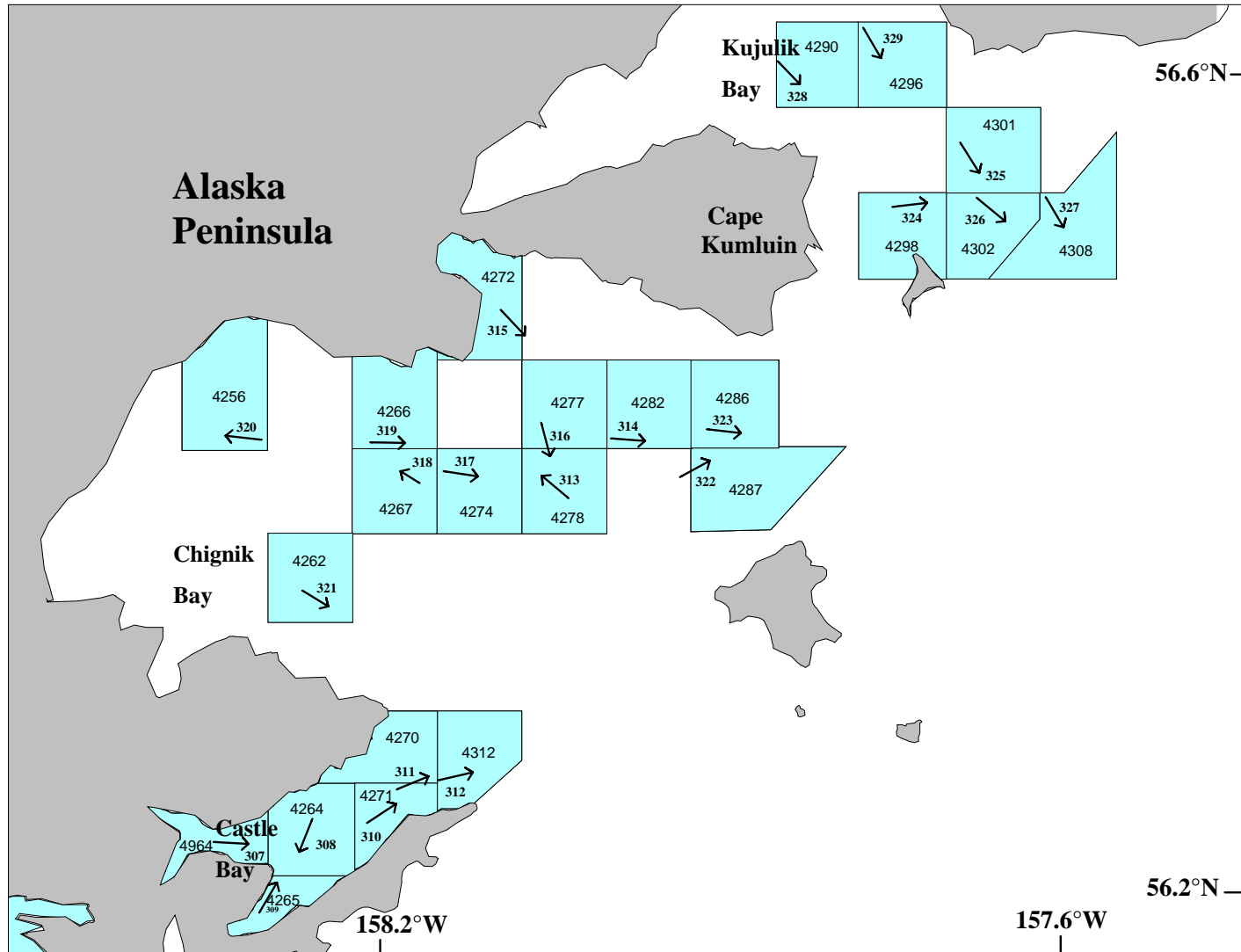
**Appendix C10.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Pavlof and Volcano Bays, August 2005.



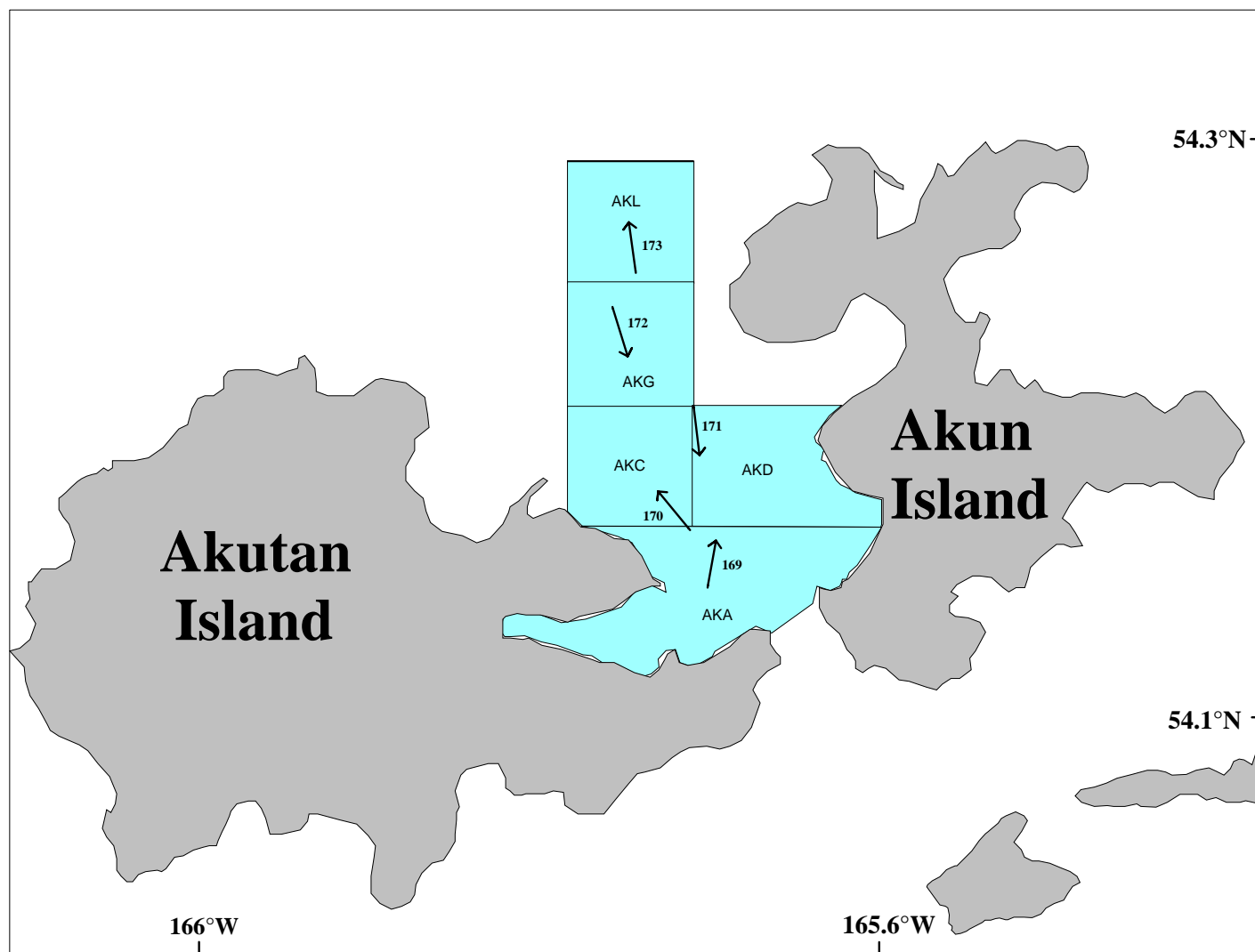
**Appendix C11.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Unga Strait, Beaver Bay, Balboa Bay, and West Nagai Strait, August 2005.



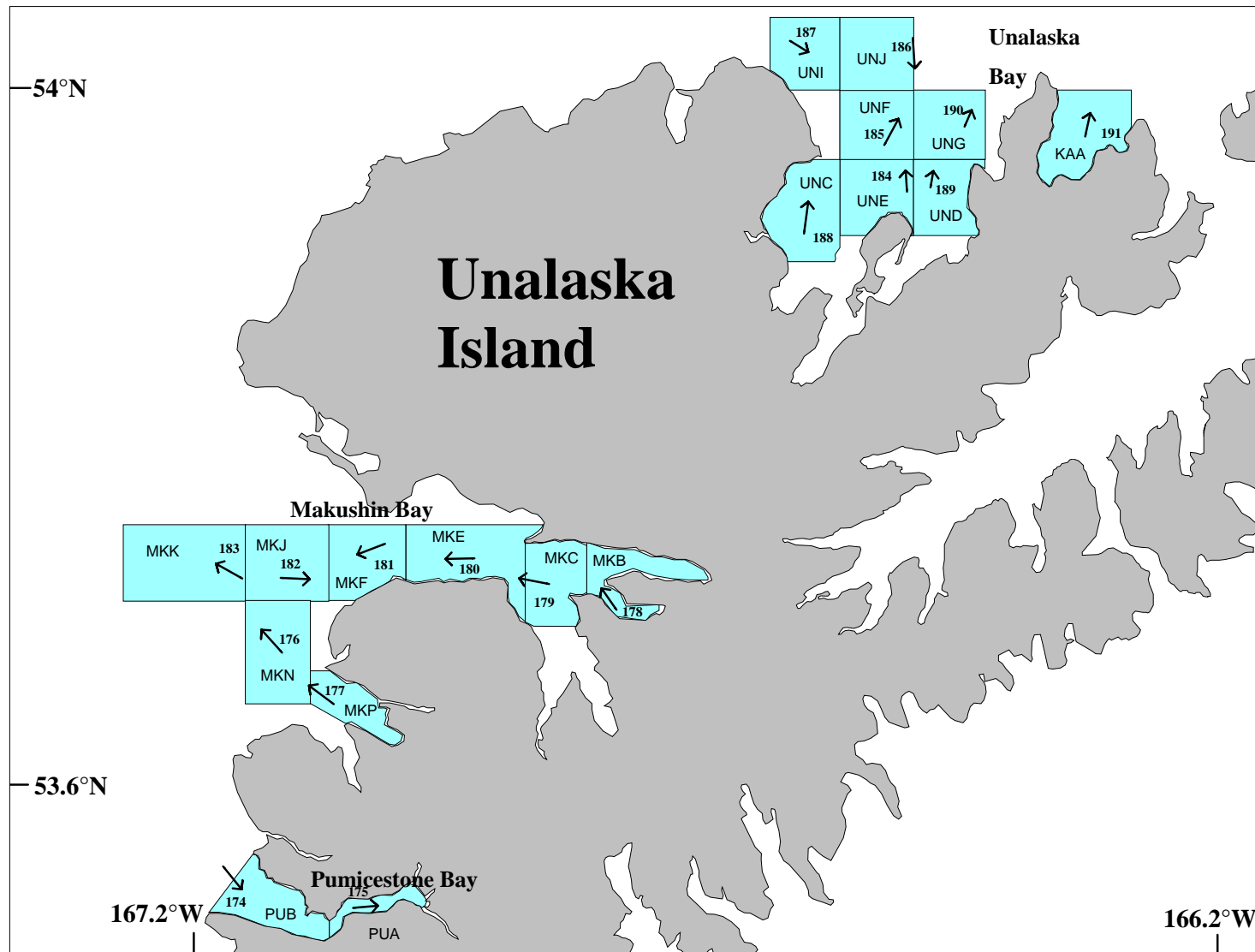
**Appendix C12.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Stepovak, Ivanof, Mitrofanina, and Kuiukta Bays, August 2005.



**Appendix C13.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Kujulik, Chignik, and Castle Bays, August 2005.



**Appendix C14.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Akutan Bay, July 2005.



**Appendix C15.**—Station boundaries with names, trawl haul numbers (bold) and locations (bold arrows), Unalaska, Makushin, and Pumicestone Bays, July 2005.



**APPENDIX D. TANNER CRAB POPULATION ESTIMATES BY  
STATION**

**Appendix D1.**—Population estimates of Tanner crab in the Kodiak District by station, section, and total district, 2005.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
<b>Northeast</b>														
255	25	5,696	17,089	22,785	5,696	0	170,888	563,929	17,089	56,962	0	74,051	814,564	837,349
255X	24	55,823	90,380	146,203	63,798	5,316	10,633	74,431	26,582	7,975	0	34,557	188,735	334,938
256	26	3,798	94,938	98,736	7,595	15,190	163,292	470,890	0	37,975	0	37,975	694,942	793,678
257	21	11,392	7,595	18,987	22,785	0	11,392	26,582	0	3,798	0	3,798	64,557	83,544
283	16	79,748	284,812	364,560	28,481	39,874	56,962	290,509	17,089	74,051	0	91,140	506,966	871,526
283X	15	22,481	390,611	413,092	44,962	5,620	81,494	196,710	19,671	16,861	0	36,532	365,318	778,410
284	19	3,798	7,595	11,393	3,798	15,190	64,558	254,432	0	60,760	0	60,760	398,738	410,131
285	20	0	0	0	0	0	7,595	7,595	0	0	0	0	15,190	15,190
313	17	11,392	816,462	827,854	49,368	34,178	110,128	277,218	7,595	18,988	0	26,583	497,475	1,325,329
314	18	0	3,798	3,798	0	0	0	0	0	0	0	0	0	3,798
369X	168	0	0	0	9,548	0	0	0	0	0	0	0	9,548	9,548
395	167	3,798	0	3,798	7,595	3,798	11,392	7,595	0	0	0	0	30,380	34,178
420	166	3,798	0	3,798	0	0	0	3,798	0	0	0	0	3,798	7,596
421	165	22,785	0	22,785	11,392	0	0	0	0	0	0	0	11,392	34,177
443	163	10,850	21,700	32,550	5,425	5,425	21,700	5,425	0	0	0	0	37,975	70,525
444	164	4,747	227,850	232,597	0	9,494	4,747	18,987	0	14,241	0	14,241	47,469	280,066
CHA	7	1,944	0	1,944	1,944	0	0	486	0	0	0	0	2,430	4,374
CHB	8	13,276	0	13,276	20,613	349	349	10,132	51,008	0	2,096	53,104	84,547	97,823
CHE	2	2,734	0	2,734	0	0	0	0	0	0	0	0	0	2,734
CHF	6	165,397	22,481	187,878	171,504	115,503	70,002	189,004	262,506	0	0	262,506	808,519	996,397
CHG	5	1,534	0	1,534	1,534	0	0	0	0	0	0	0	1,534	3,068
CHJ	1	4,739	7,899	12,638	7,899	1,580	0	3,160	0	0	0	0	12,639	25,277
CHK	3	15,035	141,041	156,076	15,786	752	15,034	92,461	42,848	15,034	1,503	59,385	183,418	339,494
CHL	4	236,536	77,351	313,887	200,850	12,144	8,408	2,803	0	0	0	0	224,205	538,092
KZA	43	17,560	1,033	18,593	15,494	15,494	3,099	4,132	0	1,033	0	1,033	39,252	57,845
KZB	44	15,624	174	15,798	19,617	1,910	347	0	0	0	0	0	21,874	37,672
KZC	45	36,912	0	36,912	51,950	2,051	14,355	20,506	1,367	0	0	1,367	90,229	127,141
KZD	42	51,241	13,975	65,216	67,545	52,406	39,595	85,013	3,494	1,165	0	4,659	249,218	314,434
KZE	46	52,254	0	52,254	64,406	0	0	0	0	0	0	0	64,406	116,660
KZF	41	249,724	1,823	251,547	311,699	6,380	0	0	0	0	0	0	318,079	569,626
KZG	9	170,462	7,534	177,996	187,414	35,788	1,884	1,884	1,884	0	0	1,884	228,854	406,850
KZJ	40	650,564	0	650,564	720,042	9,474	0	0	0	0	3,158	3,158	732,674	1,383,238
KZK	10	79,748	11,392	91,140	115,824	19,937	10,443	7,595	949	0	0	949	154,748	245,888
KZO	11	99,684	29,431	129,115	106,330	36,076	19,937	15,190	3,798	0	0	3,798	181,331	310,446
KZR	39	87,837	227,512	315,349	41,035	131,654	90,619	78,650	25,647	0	0	25,647	367,605	682,954
KZS	38	31,053	6,836	37,889	25,080	41,688	14,574	14,235	3,050	0	0	3,050	98,627	136,516

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Appendix D1.–Page 2 of 7.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
MOEX	13	57,033	3,565	60,598	57,033	3,565	0	0	0	0	0	0	60,598	121,196
MOGX	14	218,736	55,413	274,149	207,070	2,916	14,582	32,081	0	0	0	0	256,649	530,798
MOLX	33	123,586	34,329	157,915	76,382	17,972	35,944	301,033	543,657	0	0	543,657	974,988	1,132,903
MONX	12	682,044	627,914	1,309,958	722,250	850,650	481,500	216,675	8,025	0	0	8,025	2,279,100	3,589,058
MOPX	31	71,363	0	71,363	68,902	0	0	0	0	0	0	0	68,902	140,265
MOQ	34	14,241	30,380	44,621	18,988	1,899	14,241	51,266	4,747	11,392	0	16,139	102,533	147,154
MOT	32	199,111	3,524	202,635	215,850	5,286	3,524	0	0	0	0	0	224,660	427,295
MOX	22	154,200	0	154,200	196,255	0	825	0	0	0	0	0	197,080	351,280
MOXX	23	20,901	0	20,901	26,127	0	11,757	75,768	111,039	0	1,306	112,345	225,997	246,898
Population estimate		3,765,179	3,266,437	7,031,616	3,995,866	1,499,559	1,565,800	3,400,175	1,152,045	320,235	8,063	1,480,343	11,941,743	18,973,359
<b>Eastside</b>														
486A	52	0	2,473	2,473	2,498	0	59,956	374,723	32,476	19,985	0	52,461	489,638	492,111
486B	53	0	0	0	0	0	0	1,300	0	0	0	0	1,300	1,300
510B	56	2,789	0	2,789	0	6,870	151,143	1,051,131	137,403	61,831	0	199,234	1,408,378	1,411,167
510C	76	1,803	0	1,803	0	0	0	0	0	0	0	0	0	1,803
511A	55	0	0	0	0	0	19,039	545,773	793,274	19,039	31,731	844,044	1,408,856	1,408,856
511B	54	0	5,696	5,696	0	0	17,089	0	0	0	0	0	17,089	22,785
533A	74	0	68,355	68,355	9,494	0	20,886	93,039	1,899	9,494	0	11,393	134,812	203,167
533B	75	4,219	0	4,219	2,110	0	4,219	37,975	107,596	0	0	107,596	151,900	156,119
534B	77	0	0	0	0	0	0	31,513	221,761	0	1,167	222,928	254,441	254,441
534D	84	0	0	0	1,790	0	0	17,903	1,790	0	0	1,790	21,483	21,483
535A	78	0	0	0	2,727	0	0	269,925	256,292	21,812	2,727	280,831	553,483	553,483
535B	79	0	1,470,578	1,470,578	0	6,391	78,825	317,429	31,956	8,522	2,130	42,608	445,253	1,915,831
535C	81	0	1,356	1,356	2,713	0	12,206	82,731	18,988	6,781	0	25,769	123,419	124,775
535D	80	0	618,043	618,043	1,665	14,981	39,949	239,694	68,246	13,316	0	81,562	377,851	995,894
559	82	18,987	56,962	75,949	56,962	0	4,747	75,950	4,747	42,722	0	47,469	185,128	261,077
560	83	28,481	0	28,481	28,481	0	0	47,469	18,987	9,494	0	28,481	104,431	132,912
561	85	0	4,747	4,747	9,494	0	42,722	574,372	417,725	75,950	4,747	498,422	1,125,010	1,129,757
587	91	97,650	0	97,650	81,375	5,425	16,275	65,100	0	0	0	0	168,175	265,825
588	89,90	34,924	0	34,924	40,349	0	5,425	49,164	0	7,460	0	7,460	102,397	137,321
589	88	0	16,275	16,275	5,425	0	32,550	450,275	27,125	32,550	5,425	65,100	553,350	569,625
619	101	52,216	0	52,216	47,469	0	0	14,241	0	4,747	0	4,747	66,457	118,673
620	92	249,550	0	249,550	217,000	0	27,125	130,200	0	10,850	0	10,850	385,175	634,725
621	94	16,275	81,375	97,650	10,850	0	21,700	282,100	5,425	48,825	0	54,250	368,900	466,550
654	105	4,747	0	4,747	0	4,747	66,456	232,597	0	18,987	0	18,987	322,787	327,534

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Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
655	102	99,684	4,747	104,431	99,684	0	33,228	170,887	0	14,241	0	14,241	318,040	422,471
656	95	16,275	27,125	43,400	43,400	5,425	37,975	287,525	0	37,975	0	37,975	412,300	455,700
695	98	54,250	21,700	75,950	92,225	0	21,700	70,525	0	16,275	0	16,275	200,725	276,675
696	96	47,469	71,203	118,672	9,494	4,747	33,228	104,431	0	4,747	0	4,747	156,647	275,319
KLA	65	327,083	0	327,083	523,042	0	0	2,135	8,539	0	0	8,539	533,716	860,799
KLB	66	11,074	39,372	50,446	19,276	0	8,203	24,608	1,230	9,433	0	10,663	62,750	113,196
KLC	67	2,597	0	2,597	4,329	866	866	63,206	33,767	45,023	0	78,790	148,057	150,654
KLD	64	1,006	0	1,006	0	0	0	0	0	0	0	0	0	1,006
KLE	73	17,134	365	17,499	10,572	729	3,646	7,656	365	365	0	730	23,333	40,832
KLF	72	63,494	2,673	66,167	69,406	4,083	3,266	22,046	64,506	817	1,633	66,956	165,757	231,924
KLG	71	52,497	729	53,226	50,309	2,187	5,104	17,499	110,826	0	0	110,826	185,925	239,151
KLH	70	22,329	69,221	91,550	20,096	5,210	12,653	75,175	19,352	12,653	0	32,005	145,139	236,689
KLI	68	0	0	0	1,899	0	0	5,696	4,747	0	0	4,747	12,342	12,342
KLL	69	0	0	0	0	2,468	9,873	55,538	174,020	3,703	1,234	178,957	246,836	246,836
UGAA	61	3,547	17,734	21,281	7,901	39,507	316,057	829,649	402,973	0	0	402,973	1,596,087	1,617,368
UGAB	60	3,538	624	4,162	2,759	12,417	75,880	46,908	11,037	0	0	11,037	149,001	153,163
UGAC	59	141	1,554	1,695	0	361	9,758	29,274	35,056	0	0	35,056	74,449	76,144
UGB	62	87,165	374	87,539	73,355	0	1,930	3,089	0	0	386	386	78,760	166,299
UGC	63	136,345	4,648	140,993	130,923	3,099	7,747	13,944	1,549	0	0	1,549	157,262	298,255
UGD	58	52,011	4,861	56,872	46,071	980	1,470	7,842	2,451	0	0	2,451	58,814	115,686
UGE	57	8,430	0	8,430	7,306	2,248	7,868	27,539	24,729	0	0	24,729	69,690	78,120
UGF	50	11,879	0	11,879	7,686	0	5,590	18,866	29,347	699	1,397	31,443	63,585	75,464
UGI	49	7,899	5,924	13,823	6,384	1,277	68,944	169,807	49,793	0	0	49,793	296,205	310,028
UGJ	48	0	0	0	949	0	0	0	0	0	0	0	949	949
UGM	51	18,042	718,075	736,117	21,273	11,346	60,983	216,986	0	4,255	0	4,255	314,843	1,050,960
Population estimate		1,555,530	3,316,789	4,872,319	1,768,741	135,364	1,329,192	7,272,524	3,119,977	562,551	52,577	3,735,105	14,240,925	19,113,244
<b>Southeast</b>														
585X	107	5,968	11,935	17,903	29,838	17,903	29,838	107,415	5,968	11,935	0	17,903	202,897	220,800
586	100	28,481	14,241	42,722	14,241	4,747	28,481	147,153	0	33,228	0	33,228	227,850	270,572
614	113	79,535	39,767	119,302	119,302	8,522	14,203	90,897	14,203	14,203	0	28,406	261,330	380,632
615	114	123,343	13,215	136,558	136,558	4,405	13,215	123,343	8,810	35,241	0	44,051	321,572	458,130
618A	106	2,373	47,469	49,842	4,747	2,373	30,855	49,842	0	2,373	0	2,373	90,190	140,032
651	99	410,130	22,785	432,915	421,522	121,520	79,748	159,495	0	3,798	0	3,798	786,083	1,218,998
688	122	11,392	7,595	18,987	22,785	11,392	34,178	37,975	3,798	0	0	3,798	110,128	129,115
725	162	0	0	0	0	0	3,798	0	0	0	0	0	3,798	3,798

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Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
726	123	117,722	7,595	125,317	45,570	3,798	18,988	22,785	0	0	0	0	91,141	216,458
727	124	102,532	7,595	110,127	144,305	11,392	22,785	106,330	0	15,190	0	15,190	300,002	410,129
728	125	265,825	15,190	281,015	144,305	3,798	15,190	41,772	0	7,595	0	7,595	212,660	493,675
729	126	482,282	72,152	554,434	448,105	11,392	30,380	159,495	0	22,785	0	22,785	672,157	1,226,591
759	129	47,469	9,494	56,963	47,469	28,481	52,216	80,697	0	4,747	0	4,747	213,610	270,573
760	128	34,178	11,392	45,570	49,368	3,798	45,570	148,102	3,798	22,785	0	26,583	273,421	318,991
761	127	1,663,527	87,096	1,750,623	1,571,576	84,950	33,980	84,950	16,990	0	0	16,990	1,792,446	3,543,069
THA	121	8,689	0	8,689	5,347	668	0	0	0	0	0	0	6,015	14,704
THC	112	18,182	0	18,182	28,572	866	866	3,463	866	0	0	866	34,633	52,815
THD	111	26,572	1,265	27,837	24,041	1,265	1,265	15,184	15,184	1,265	0	16,449	58,204	86,041
THF	109	76,167	118,482	194,649	40,905	32,442	14,105	57,831	0	22,568	1,411	23,979	169,262	363,911
THG	110	146,204	4,747	150,951	150,951	2,848	949	2,848	7,595	0	0	7,595	165,191	316,142
THH	115	20,415	851	21,266	12,760	0	851	16,162	5,104	2,552	0	7,656	37,429	58,695
THI	108	210,533	0	210,533	228,477	7,177	0	0	0	0	0	0	235,654	446,187
THJ	120	26,856	20,537	47,393	17,377	790	2,370	13,428	790	2,370	0	3,160	37,125	84,518
THK	119	21,144	24,061	45,205	12,395	9,479	6,562	31,352	20,415	8,749	0	29,164	88,952	134,157
THL	118	7,792	4,101	11,893	11,074	2,051	1,230	1,230	410	820	0	1,230	16,815	28,708
THM	117	32,374	1,766	34,140	40,026	1,177	589	3,532	0	589	0	589	45,913	80,053
THN	116	5,127	0	5,127	854	0	0	570	0	0	0	0	1,424	6,551
Population estimate		3,974,812	543,331	4,518,143	3,772,470	377,234	482,212	1,505,851	103,931	212,793	1,411	318,135	6,455,902	10,974,045
<b>Southwest</b>														
608X	130	98,735	0	98,735	113,925	7,595	22,785	15,190	0	0	0	0	159,495	258,230
645B	137	98,735	4,557	103,292	80,025	0	9,415	45,505	1,569	6,277	0	7,846	142,791	246,083
646A	136	6,000	0	6,000	10,800	0	0	0	0	0	0	0	10,800	16,800
646B	135	6,562	0	6,562	10,937	0	0	729	0	0	0	0	11,666	18,228
646C	138	41,317	0	41,317	51,646	0	0	5,165	0	10,329	0	10,329	67,140	108,457
646D	134	3,311	0	3,311	1,656	0	1,656	3,311	0	1,656	0	1,656	8,279	11,590
677X	132	0	0	0	43,400	0	0	0	0	0	0	0	43,400	43,400
678X	131	7,595	7,595	15,190	15,190	0	0	0	0	0	0	0	15,190	30,380
682B	139	6,106	0	6,106	5,089	0	0	18,319	0	39,691	1,018	40,709	64,117	70,223
683A	140	28,496	0	28,496	20,355	0	0	9,160	0	32,567	0	32,567	62,082	90,578
683B	141	12,972	0	12,972	20,385	927	0	0	0	927	0	927	22,239	35,211
683D	144	7,382	0	7,382	3,691	0	410	1,641	0	1,230	410	1,640	7,382	14,764
684A	143	1,018	1,018	2,036	3,053	0	0	4,071	0	2,035	0	2,035	9,159	11,195
684B	142	911	10,937	11,848	456	456	3,190	31,443	0	33,722	456	34,178	69,723	81,571

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Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
684C	145	5,968	543	6,511	2,713	0	2,713	15,733	0	14,648	0	14,648	35,807	42,318
712X	133	136,710	45,570	182,280	45,570	0	22,785	0	0	0	0	0	68,355	250,635
ALA	146	2,363	33,590	35,953	2,305	768	4,033	14,596	3,073	14,980	576	18,629	40,331	76,284
ALB	161	0	7,082	7,082	0	0	0	7,082	0	3,934	0	3,934	11,016	18,098
ALC	147	1,440	34,560	36,000	2,146	1,073	9,658	54,728	5,902	35,949	2,146	43,997	111,602	147,602
ALD	160	4,618	2,309	6,927	10,390	1,732	577	1,732	9,236	1,154	1,732	12,122	26,553	33,480
ALF	159	5,696	46,519	52,215	5,696	949	6,646	12,342	4,747	19,937	949	25,633	51,266	103,481
ALG	148	15,858	21,144	37,002	10,572	0	6,167	14,977	6,167	27,312	1,762	35,241	66,957	103,959
ALH	158	4,998	2,856	7,854	714	714	714	28,557	22,132	44,978	1,428	68,538	99,237	107,091
ALI	153	1,473	2,210	3,683	1,845	0	8,302	60,881	36,898	109,770	1,845	148,513	219,541	223,224
ALJ	155	5,347	2,673	8,020	8,689	2,005	17,377	65,499	10,025	22,724	0	32,749	126,319	134,339
ALK	157	40,380	0	40,380	39,646	16,152	6,608	4,405	0	0	0	0	66,811	107,191
ALL	154	2,552	729	3,281	1,458	1,094	1,094	25,884	11,301	33,540	729	45,570	75,100	78,381
ALM	156	8,567	0	8,567	12,137	2,142	8,567	24,988	1,428	6,425	0	7,853	55,687	64,254
ALO	152	7,443	2,233	9,676	9,676	2,233	5,954	19,352	20,841	0	2,233	23,074	60,289	69,965
ALP	151	8,506	0	8,506	6,805	3,403	11,058	26,370	20,415	0	0	20,415	68,051	76,557
ALQ	150	8,294	0	8,294	15,121	945	6,615	48,197	100,174	945	4,725	105,844	176,722	185,016
ALR	149	14,810	592	15,402	10,663	1,777	2,370	33,767	83,530	2,370	2,962	88,862	137,439	152,841
Population estimate		594,163	226,717	820,880	566,754	43,965	158,694	593,624	337,438	467,100	22,971	827,509	2,190,546	3,011,426
<b>Westside</b>														
KUF	331	1,999	500	2,499	1,999	0	0	0	0	0	0	0	1,999	4,498
KUI	335	60,257	15,303	75,560	37,495	1,704	4,261	568	0	284	0	284	44,312	119,872
KUJ	334	36,843	78,198	115,041	28,050	42,075	54,347	35,939	1,753	7,013	0	8,766	169,177	284,218
KUK	333	55,428	34,876	90,304	46,086	4,982	3,114	1,868	0	1,246	0	1,246	57,296	147,600
KUL	337	0	5,280	5,280	3,480	720	0	120	0	0	0	0	4,320	9,600
KULX	336	20,076	4,221	24,297	17,755	8,185	2,393	1,889	1,133	252	0	1,385	31,607	55,904
KUM	332	16,733	465	17,198	20,917	465	0	0	0	0	0	0	21,382	38,580
KUNX	340	15,068	56,978	72,046	9,418	942	8,476	15,539	1,884	25,428	0	27,312	61,687	133,733
KUP	341	11,787	12,377	24,164	14,734	0	0	7,072	589	5,894	0	6,483	28,289	52,453
KUQ	342	40,102	11,848	51,950	47,393	0	1,823	4,557	0	6,380	0	6,380	60,153	112,103
KUS	343	11,830	6,453	18,283	19,896	0	1,075	4,840	0	11,292	538	11,830	37,641	55,924
KUT	344	15,400	22,059	37,459	10,821	1,665	1,665	832	1,665	5,411	0	7,076	22,059	59,518
KUU	345	64,084	54,411	118,495	47,156	1,814	3,023	9,068	3,023	6,046	605	9,674	70,735	189,230
KUV	347	7,747	0	7,747	5,468	0	0	456	0	684	0	684	6,608	14,355
KUW	346	0	0	0	1,529	0	0	0	0	0	0	0	1,529	1,529

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Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
KUX	348	7,908	0	7,908	5,423	1,130	904	904	0	0	0	0	8,361	16,269
KUXX	349	6,015	6,289	12,304	5,759	4,743	8,808	16,938	26,085	3,049	4,065	33,199	69,447	81,751
KUY	338	542	181	723	1,446	0	0	0	0	0	0	0	1,446	2,169
KUYX	339	228	0	228	0	0	0	0	0	0	0	0	0	228
MAA	389	34,042	28,446	62,488	22,850	8,394	4,663	1,399	0	0	0	0	37,306	99,794
PAA	388	218,699	152,911	371,610	28,782	106,732	89,943	14,391	5,996	4,797	0	10,793	250,641	622,251
RAA	390	1,191	0	1,191	1,191	0	0	0	0	0	0	0	1,191	2,382
UYBX	350	0	0	0	0	0	0	951	0	0	0	0	951	951
UYEX	351	158,766	1,323	160,089	149,505	0	0	1,323	0	0	0	0	150,828	310,917
UYFX	352	223,783	70,206	293,989	157,613	115,694	92,220	23,474	1,677	0	0	1,677	390,678	684,667
UYHX	353	78,788	1,962	80,750	51,787	6,401	873	0	0	0	0	0	59,061	139,811
UYKX	354	38,662	0	38,662	46,639	6,137	614	0	0	0	0	0	53,390	92,052
UYMX	356	86,671	0	86,671	154,902	36,881	3,688	0	0	0	0	0	195,471	282,142
UYT	359	756	0	756	630	0	0	0	0	0	126	126	756	1,512
UYO	355	26,309	37,551	63,860	18,707	9,170	25,309	22,375	367	5,502	0	5,869	81,430	145,290
UYQX	357	35,727	0	35,727	53,420	7,486	340	0	0	340	0	340	61,586	97,313
UYSX	358	592	3,851	4,443	0	801	1,735	8,677	5,340	11,481	400	17,221	28,434	32,877
Population estimate		1,276,033	605,689	1,881,722	1,010,851	366,121	309,274	173,180	49,512	95,099	5,734	150,345	2,009,771	3,891,493
<b>North Mainland</b>														
117	372	17,317	0	17,317	21,646	0	0	0	0	0	0	0	21,646	38,963
118	380	140,508	0	140,508	117,722	0	0	0	0	0	0	0	117,722	258,230
119	379	258,230	0	258,230	326,585	0	3,798	0	0	0	0	0	330,383	588,613
120	378	129,115	18,988	148,103	106,330	7,595	15,190	3,798	0	0	0	0	132,913	281,016
121	377	201,268	0	201,268	201,268	7,595	11,392	3,798	0	0	0	0	224,053	425,321
144	373	3,361	3,361	6,722	0	0	0	0	0	0	0	0	0	6,722
145	371	68,355	0	68,355	68,355	0	0	0	0	3,798	0	3,798	72,153	140,508
146	375	163,292	41,772	205,064	178,482	22,785	15,190	18,988	0	7,595	0	7,595	243,040	448,104
147	376	478,485	22,785	501,270	436,712	18,988	3,798	3,798	0	0	0	0	463,296	964,566
171	367	12,140	506	12,646	10,117	506	5,564	53,112	36,925	4,552	2,023	43,500	112,799	125,445
171X	368	12,188	0	12,188	10,767	7,600	21,535	77,904	23,435	0	0	23,435	141,241	153,429
171Y	369	1,171	0	1,171	1,171	0	0	1,171	0	0	0	0	2,342	3,513
172	370	3,949	0	3,949	3,949	0	0	0	0	0	0	0	3,949	7,898
173	374	1,160,744	69,645	1,230,389	984,763	119,695	21,763	5,441	0	0	0	0	1,131,662	2,362,051
174	366	284,812	26,582	311,394	193,672	41,772	3,798	3,798	0	0	0	0	243,040	554,434
198	363	562,030	26,582	588,612	565,828	49,368	18,988	3,798	3,798	0	0	3,798	641,780	1,230,392

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Appendix D1.–Page 7 of 7.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
199	364	398,738	11,392	410,130	296,205	91,140	15,190	7,595	0	3,798	0	3,798	413,928	824,058
2	386	49,368	0	49,368	110,128	0	0	0	0	0	0	0	110,128	159,496
200	365	326,585	3,798	330,383	330,382	64,558	3,798	0	0	0	0	0	398,738	729,121
222	362	491,245	90,229	581,474	501,270	15,038	10,025	15,038	0	0	0	0	541,371	1,122,845
223	361	508,865	216,458	725,323	254,432	56,962	18,988	41,772	0	3,798	0	3,798	375,952	1,101,275
224	360	315,192	75,950	391,142	292,408	68,355	15,190	7,595	0	0	0	0	383,548	774,690
3	387	79,748	0	79,748	75,950	0	0	3,798	0	0	0	0	79,748	159,496
31	385	48,183	0	48,183	48,183	0	0	0	0	0	0	0	48,183	96,366
60	383	37,975	0	37,975	41,772	0	0	0	0	0	0	0	41,772	79,747
61	384	102,532	0	102,532	98,735	0	3,798	3,798	0	0	0	0	106,331	208,863
90	381	71,089	0	71,089	74,644	0	0	0	0	0	0	0	74,644	145,733
91	382	91,140	0	91,140	144,305	0	0	0	0	0	0	0	144,305	235,445
Population estimate		6,017,625	608,048	6,625,673	5,495,781	571,957	188,005	255,202	64,158	23,541	2,023	89,722	6,600,667	13,226,340
Total		17,183,342	8,567,011	25,750,353	16,610,463	2,994,200	4,033,177	13,200,556	4,827,061	1,681,319	92,779	6,601,159	43,439,554	69,189,907



**Appendix D2.**—Population estimates of Tanner crab in the South Peninsula District by station, section, and total district, 2005.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
<b>Sanak Island</b>														
113	205	148,102	74,051	222,153	136,710	34,177	11,392	0	0	0	0	0	182,279	404,432
125	206	25,633	4,272	29,905	34,177	34,177	4,272	0	0	0	0	0	72,626	102,531
126	211	22,284	0	22,284	14,856	3,714	3,714	0	0	0	0	0	22,284	44,568
137	207	18,988	3,798	22,786	15,190	3,798	11,392	0	0	0	0	0	30,380	53,166
138A	208	34,861	2,051	36,912	12,304	0	6,152	0	0	0	0	0	18,456	55,368
138B	210	4,894	0	4,894	6,526	0	4,079	0	0	0	0	0	10,605	15,499
138C	209	10,086	45,388	55,474	0	10,086	20,172	0	0	0	0	0	30,258	85,732
Population estimate		264,848	129,560	394,408	219,763	85,952	61,173	0	0	0	0	0	366,888	761,296
<b>Morzhovoi Bay</b>														
87AX	203	53,569	700,224	753,793	25,427	6,357	82,636	416,360	127,133	73,101	0	200,234	731,014	1,484,807
87D	204	3,291	0	3,291	1,097	1,097	1,097	2,194	2,194	0	0	2,194	7,679	10,970
MOB	199	55,064	0	55,064	45,152	1,101	0	0	0	0	0	0	46,253	101,317
MOD	198	14,279	0	14,279	18,562	1,428	0	2,142	0	0	0	0	22,132	36,411
MOF	197	17,089	0	17,089	13,291	0	949	1,899	0	0	0	0	16,139	33,228
MOG	196	20,886	1,899	22,785	30,380	2,848	4,747	5,696	949	949	0	1,898	45,569	68,354
MOH	195	15,631	17,863	33,494	17,119	5,210	8,187	66,244	27,539	2,233	0	29,772	126,532	160,026
MOI	200	30,380	4,747	35,127	36,076	6,646	5,696	66,456	33,228	0	949	34,177	149,051	184,178
MOK	194	34,168	673,110	707,278	30,508	79,321	73,220	259,319	134,236	9,152	0	143,388	585,756	1,293,034
MOL	201	144,468	21,670	166,139	24,684	28,481	31,329	86,393	40,823	1,899	1,899	44,621	215,508	381,647
MOOX	202	0	2,853,633	2,853,633	13,620	4,540	172,518	349,577	31,780	140,739	0	172,519	712,774	3,566,407
MORX	192	90,912	0	90,912	90,912	2,597	5,195	2,597	5,195	0	0	5,195	106,496	197,408
MOSX	193	86,887	1,671	88,558	58,482	18,380	15,038	81,874	76,861	1,671	0	78,532	252,306	340,864
Population estimate		566,624	4,274,817	4,841,442	405,310	158,006	400,612	1,340,751	479,938	229,744	2,848	712,530	3,017,209	7,858,651
<b>Cold Bay/Belkofski Bay</b>														
156A	223	97,824	86,085	183,909	46,955	52,825	74,346	33,260	3,913	3,913	0	7,826	215,212	399,121
157A	222	58,662	0	58,662	44,695	0	1,862	931	0	0	0	0	47,488	106,150
BEBX	224	9,163	0	9,163	15,506	705	0	0	0	0	0	0	16,211	25,374
BECX	225	47,721	9,090	56,811	14,771	52,266	65,900	21,588	0	1,136	0	1,136	155,661	212,472
BEE	226	43,671	36,076	79,748	26,582	19,937	37,975	35,127	2,848	0	0	2,848	122,469	202,217
BEF	227	45,916	0	45,916	43,134	2,087	0	0	696	0	0	696	45,917	91,833

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Appendix D2.–Page 2 of 4.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
BEG	221	89,925	0	89,925	98,018	0	0	899	0	0	0	0	98,917	188,842
COB	214	181,794	1,337	183,131	151,049	30,745	2,673	1,337	0	0	0	0	185,804	368,935
COC	215	6,760	0	6,760	1,127	0	1,127	0	0	0	0	0	2,254	9,014
COE	216	37,428	3,743	41,171	18,714	38,364	11,228	6,550	1,871	0	0	1,871	76,727	117,898
COF	217	10,177	1,018	11,195	7,124	1,527	1,018	4,071	2,035	509	0	2,544	16,284	27,479
COGA	220	149,491	7,780	157,271	99,517	22,194	27,206	15,751	7,875	6,444	0	14,319	178,987	336,258
COGB	219	3,220	1,449	4,669	2,254	805	2,415	5,313	1,288	3,381	0	4,669	15,456	20,125
COH	218	28,399	346	28,746	23,897	0	0	0	0	0	0	0	23,897	52,643
COM	213	7,382	27,069	34,451	4,922	2,461	13,944	13,124	820	820	0	1,640	36,091	70,542
COO	212	157,844	36,426	194,270	103,758	60,709	32,010	34,218	1,104	0	0	1,104	231,799	426,069
Population estimate		975,377	210,419	1,185,798	702,023	284,625	271,704	172,169	22,450	16,203	0	38,653	1,469,174	2,654,972
<b>Pavlof Bay/Volcano Bay</b>														
228	250	178,119	16,569	194,688	194,689	0	33,139	12,427	4,142	8,285	0	12,427	252,682	447,370
245	251	38,841	0	38,841	58,261	0	19,420	15,536	0	7,768	0	7,768	100,985	139,826
PAEX	248	0	0	0	0	3,682	0	0	0	0	0	0	3,682	3,682
PAIX	249	13,574	0	13,574	23,754	3,393	0	0	0	0	0	0	27,147	40,721
PALX	247	109,706	12,658	122,364	59,072	80,169	14,768	6,329	0	0	0	0	160,338	282,702
PAOA	245	5,954	1,191	7,145	4,466	8,932	8,336	4,466	298	0	0	298	26,498	33,643
PAP	246	24,985	6,575	31,560	10,520	61,806	48,656	15,780	0	0	0	0	136,762	168,322
PARA	242	7,601	0	7,601	5,912	1,689	4,223	5,912	0	0	0	0	17,736	25,337
PARB	243	8,394	63,421	71,815	933	23,317	43,835	45,701	2,798	1,865	0	4,663	118,449	190,264
PAU	241	8,544	2,848	11,392	10,443	31,329	11,392	15,190	0	0	0	0	68,354	79,746
PAV	244	41,924	3,646	45,570	65,621	2,734	3,646	3,646	0	0	0	0	75,647	121,217
VOA	240	14,879	1,984	16,862	9,919	7,935	2,976	9,919	0	992	0	992	31,741	48,603
VOBX	239	13,589	11,648	25,237	13,589	7,765	5,824	17,472	0	1,941	0	1,941	46,591	71,828
VOD	238	24,854	69,959	94,813	11,046	8,285	16,569	72,721	7,364	13,808	0	21,172	129,793	224,606
VOFB	234	6,193	8,257	14,450	6,881	688	2,752	5,505	688	5,505	0	6,193	22,019	36,469
VOG	235	15,312	18,374	33,685	15,312	2,042	7,145	38,789	5,104	19,395	0	24,499	87,787	121,472
VOH	236	20,224	5,778	26,002	13,483	2,889	5,778	5,778	5,778	2,889	0	8,667	36,595	62,597
VOI	237	13,695	19,565	33,260	10,761	4,891	10,761	48,912	0	3,913	0	3,913	79,238	112,498
VOLX	228	76,079	33,813	109,892	54,342	24,152	85,740	84,532	3,623	7,246	0	10,869	259,635	369,527
VOMA	233	10,542	16,867	27,409	8,433	2,108	4,217	16,340	527	6,852	0	7,379	38,477	65,886
VON	232	36,701	1,984	38,684	29,757	3,968	3,968	7,935	1,984	0	0	1,984	47,612	86,296
VOP	229	58,861	3,798	62,659	57,912	18,988	8,544	4,747	949	0	0	949	91,140	153,799

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Appendix D2.–Page 3 of 4.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
VOQ	230	23,259	0	23,259	16,916	0	2,114	705	0	0	0	0	19,735	42,994
VOR	231	469,556	29,501	499,056	479,062	18,514	6,943	2,314	0	0	0	0	506,833	1,005,889
Population estimate		1,221,386	328,436	1,549,818	1,161,084	319,276	350,746	440,656	33,255	80,459	0	113,714	2,385,476	3,935,294
<b>Beaver Bay/Balboa Bay/Unga Strait</b>														
278	252	28,477	0	28,477	25,313	0	3,164	0	0	0	0	0	28,477	56,954
311A	271	23,292	22,607	45,900	32,198	0	2,055	685	0	0	0	0	34,938	80,838
311B	269	203,698	0	203,698	210,940	1,811	0	0	0	0	0	0	212,751	416,449
312A	270	4,937	0	4,937	12,342	0	0	0	0	0	0	0	12,342	17,279
329B	277	36,076	11,392	47,469	18,988	43,671	23,734	34,178	6,646	0	0	6,646	127,217	174,686
329C	268	273,421	0	273,421	437,685	13,001	2,167	0	0	0	0	0	452,853	726,274
348	278	1,278,492	6,329	1,284,821	1,658,242	12,658	6,329	6,329	0	0	0	0	1,683,558	2,968,379
BAA	276	11,298	0	11,298	11,962	0	0	0	0	0	0	0	11,962	23,260
BAC	275	61,283	0	61,283	65,767	0	0	0	0	0	0	0	65,767	127,050
BAD	274	81,465	0	81,465	97,574	2,762	0	0	0	0	0	0	100,336	181,801
BAE	272	29,305	7,326	36,631	29,305	9,580	1,127	3,945	0	0	0	0	43,957	80,588
BAF	273	7,200	960	8,160	10,560	0	0	0	0	0	0	0	10,560	18,720
BVC	255	9,190	0	9,190	10,025	0	0	0	0	0	0	0	10,025	19,215
Population estimate		2,048,134	48,614	2,096,750	2,620,901	83,483	38,576	45,137	6,646	0	0	6,646	2,794,743	4,891,493
<b>Stepovak Bay</b>														
368A	279	60,380	100,634	161,014	48,304	6,038	12,076	20,127	6,038	0	0	6,038	92,583	253,597
STA	281	80,878	930	81,807	90,174	930	0	0	0	0	0	0	91,104	172,911
STB	282	137,849	0	137,849	193,824	1,671	0	0	0	0	0	0	195,495	333,344
STD	280	40,284	0	40,284	57,405	1,007	1,007	0	0	0	0	0	59,419	99,703
STE	283	99,776	0	99,776	125,924	1,376	0	0	0	0	0	0	127,300	227,076
Population estimate		419,167	101,564	520,730	515,631	11,022	13,083	20,127	6,038	0	0	6,038	565,901	1,086,631
<b>West Nagai Strait</b>														
301	256	18,987	4,747	23,734	4,747	0	0	4,747	0	0	0	0	9,494	33,228
318	257	4,747	0	4,747	9,494	4,747	0	0	0	0	0	0	14,241	18,988
332B	267	329,908	4,747	334,655	398,737	0	9,494	18,987	4,747	0	0	4,747	431,965	766,620
334	260	6,329	6,329	12,658	0	0	6,329	0	0	0	0	0	6,329	18,987

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Appendix D2.–Page 4 of 4.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
335	259	0	0	0	0	4,747	0	0	0	0	0	0	4,747	4,747
337	258	4,747	0	4,747	4,747	4,747	0	0	0	0	0	0	9,494	14,241
353	262	0	0	0	5,447	0	0	0	0	0	0	0	5,447	5,447
354	261	10,850	0	10,850	0	0	5,425	0	0	0	0	0	5,425	16,275
371	266	8,917	0	8,917	0	0	0	0	0	0	0	0	0	8,917
373B	264	6,359	22,709	29,068	1,817	0	17,259	47,235	6,359	0	0	6,359	72,670	101,738
393	265	21,008	9,003	30,011	51,019	0	0	0	0	0	0	0	51,019	81,030
Population estimate		411,852	47,535	459,387	476,008	14,241	38,507	70,969	11,106	0	0	11,106	610,831	1,070,218
Total		5,907,388	5,140,945	11,048,333	6,100,720	956,605	1,174,401	2,089,809	559,433	326,406	2,848	888,687	11,210,222	22,258,555

**Appendix D3.**—Population estimates of Tanner crab in the Chignik District by station, section, and total district, 2005.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
<b>Ivanof Bay</b>														
4000	286	60,092	1,397	61,489	73,368	1,397	2,096	7,686	6,289	7,686	0	13,975	98,522	160,011
4007	284	233,745	0	233,745	393,953	15,758	0	2,626	0	2,626	0	2,626	414,963	648,708
4008	285	21,269	867,771	889,040	26,093	22,366	78,280	184,517	24,230	31,685	0	55,915	367,171	1,256,211
400X	287	8,749	28,983	37,732	7,484	6,696	3,545	24,815	26,391	9,453	1,182	37,026	79,566	117,298
4024	290	69,813	0	69,813	90,175	0	0	0	0	0	0	0	90,175	159,988
4036	291	165,503	9,027	174,530	213,649	9,027	3,009	6,018	0	0	0	0	231,703	406,233
4900	288	21,762	0	21,762	37,307	0	0	0	0	0	0	0	37,307	59,069
4915	289	82,354	0	82,354	105,230	0	0	0	0	0	0	0	105,230	187,584
Population estimate		663,287	907,178	1,570,465	947,259	55,244	86,930	225,662	56,910	51,450	1,182	109,542	1,424,637	2,995,102
<b>Mitrofanina Island</b>														
4025	293	81,502	6,653	88,155	73,185	6,653	0	1,663	0	0	0	0	81,501	169,656
4026	294	39,032	0	39,032	37,258	1,774	0	0	0	0	0	0	39,032	78,064
4035	297	66,803	9,109	75,912	63,766	21,255	45,547	54,657	21,255	0	0	21,255	206,480	282,392
4037	292	150,153	50,051	200,204	158,161	38,039	12,012	30,031	2,002	4,004	2,002	8,008	246,251	446,455
4038	295	112,543	10,891	123,434	92,575	16,337	7,261	5,446	0	1,815	0	1,815	123,434	246,868
4043	296	32,605	1,811	34,416	32,605	0	1,811	0	0	0	0	0	34,416	68,832
4063	298	108,883	20,257	129,140	43,047	179,784	48,111	30,386	2,532	0	0	2,532	303,860	433,000
4064	300	56,974	22,157	79,131	66,470	6,330	6,330	37,983	15,826	6,330	0	22,156	139,269	218,400
4065	301	10,631	0	10,631	0	0	0	0	0	3,544	0	3,544	3,544	14,175
4066	304	24,359	5,128	29,487	17,949	23,077	21,795	39,743	6,410	1,282	0	7,692	110,256	139,743
4067	303	47,435	0	47,435	41,025	0	2,564	12,820	6,410	0	0	6,410	62,819	110,254
4068	302	16,666	1,282	17,948	16,666	1,282	6,410	8,974	7,692	2,564	1,282	11,538	44,870	62,818
4084	299	41,772	11,392	53,164	37,975	30,380	26,582	75,950	49,368	7,595	0	56,963	227,850	281,014
4094	306	1,162,320	11,070	1,173,390	1,248,056	66,035	19,810	0	6,603	0	0	6,603	1,340,504	2,513,894
4095	305	509,338	0	509,338	535,438	2,625	2,625	2,625	0	0	0	0	543,313	1,052,651
Population estimate		2,461,016	149,801	2,610,817	2,464,176	393,571	200,858	300,278	118,098	27,134	3,284	148,516	3,507,399	6,118,216
<b>Chignik Bay</b>														
4256	320	14,886	76,558	91,444	12,760	0	9,570	5,316	0	2,127	0	2,127	29,773	121,217
4262	321	97,311	99,684	196,995	104,754	200,779	419,016	148,402	13,094	8,730	0	21,824	894,775	1,091,770
4264	308	57,957	76,682	134,639	69,574	24,270	32,360	165,035	24,270	14,562	1,618	40,450	331,689	466,328
4265	309	48,958	0	48,958	72,412	586	293	0	0	0	0	0	73,291	122,249

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Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
4266	319	40,837	869	41,706	40,837	3,475	1,738	869	1,738	0	0	1,738	48,657	90,363
4267	318	169,305	0	169,305	170,887	1,582	1,582	0	0	0	0	0	174,051	343,356
4270	311	21,223	2,274	23,497	31,835	758	758	2,274	758	0	0	758	36,383	59,880
4271	310	9,114	24,608	33,722	7,747	0	3,646	33,266	1,823	20,051	0	21,874	66,533	100,255
4272	315	4,229	705	4,934	7,753	0	0	0	0	0	0	0	7,753	12,687
4274	317	37,975	949	38,924	49,368	1,899	1,899	1,899	949	0	0	949	56,014	94,938
4277	316	88,292	1,899	90,191	86,393	5,696	949	5,696	1,899	0	0	1,899	100,633	190,824
4278	313	44,621	21,836	66,457	36,253	99,402	97,064	25,728	5,847	8,186	0	14,033	272,480	338,937
4282	314	54,114	71,203	125,317	31,329	30,380	48,418	36,076	2,848	6,646	0	9,494	155,697	281,014
4286	323	104,431	19,937	124,368	116,773	949	0	6,646	0	1,899	0	1,899	126,267	250,635
4287	322	206,526	40,779	247,305	178,902	5,262	17,101	34,202	0	17,101	0	17,101	252,568	499,873
4312	312	7,765	2,912	10,677	5,824	0	3,883	49,503	59,209	4,853	0	64,062	123,272	133,949
4964	307	13,138	0	13,138	17,376	0	424	0	0	0	0	0	17,800	30,938
Population estimate		1,020,682	440,895	1,461,577	1,040,777	375,038	638,701	514,912	112,435	84,155	1,618	198,208	2,767,636	4,229,213
<b>Kujulik Bay</b>														
4290	328	8,439	0	8,439	8,439	1,055	0	0	0	0	0	0	9,494	17,933
4296	329	6,835	0	6,835	7,291	0	456	0	0	0	0	0	7,747	14,582
4298	324	11,058	0	11,058	12,760	0	0	0	0	0	0	0	12,760	23,818
4301	325	5,696	0	5,696	5,696	0	0	0	0	0	0	0	5,696	11,392
4302	326	76,354	0	76,354	64,249	0	1,862	0	0	0	0	0	66,111	142,465
4308	327	50,886	0	50,886	51,646	3,038	0	0	0	0	0	0	54,684	105,570
Population estimate		159,268	0	159,268	150,081	4,093	2,318	0	0	0	0	0	156,492	315,760
Total		4,304,253	1,497,874	5,802,127	4,602,293	827,946	928,807	1,040,852	287,443	162,739	6,084	456,266	7,856,164	13,658,291

**Appendix D4.**—Population estimates of Tanner crab in the Eastern Aleutian District by station, section, and total district, 2005.

Station	Tow #	Females			No. Sublegal males by size (mm CW)				Recruits	Postrecruits		Total Legal	Total Male	Total Crab
		Juvenile	Adult	Total	<70	70-91	92-114	>114		<165	>164			
<b>Akutan Bay</b>														
AKA	169	45,535	8,813	54,348	32,315	27,909	7,344	0	0	0	0	0	67,568	121,916
AKC	170	26,285	192,442	218,727	19,714	41,305	29,101	40,366	939	3,755	0	4,694	135,180	353,907
AKD	171	35,124	307,754	342,878	14,496	117,290	61,940	98,840	6,589	5,271	0	11,860	304,426	647,304
AKG	172	14,241	5,696	19,937	18,988	12,342	70,254	26,582	7,595	949	0	8,544	136,710	156,647
AKL	173	7,595	0	7,595	0	2,373	22,548	109,178	35,602	0	1,187	36,789	170,888	178,483
Population estimate		128,780	514,705	643,485	85,513	201,219	191,187	274,966	50,725	9,975	1,187	61,887	814,772	1,458,257
<b>Unalaska/Kalekta Bays</b>														
KAA	191	1,078	3,235	4,313	0	2,157	28,041	14,020	0	0	0	0	44,218	48,531
UNC	188	144,693	97,372	242,065	58,241	69,161	18,200	16,380	18,200	4,550	2,730	25,480	187,462	429,527
UND	189	2,066	77,469	79,535	7,230	15,494	20,658	14,461	1,033	2,066	0	3,099	60,942	140,477
UNE	184	61,168	0	61,168	52,106	2,265	0	0	0	0	0	0	54,371	115,539
UNF	185	100,634	949	101,583	75,001	949	0	0	949	0	0	949	76,899	178,482
UNG	190	0	0	0	0	11,076	1,582	0	0	0	0	0	12,658	12,658
UNI	187	3,743	0	3,743	1,248	1,248	0	0	0	0	0	0	2,496	6,239
UNJ	186	541,188	33,186	574,374	458,574	139,431	21,689	3,098	0	0	0	0	622,792	1,197,166
Population estimate		854,570	212,211	1,066,781	652,400	241,781	90,170	47,959	20,182	6,616	2,730	29,528	1,061,838	2,128,619
<b>Makushin Bay</b>														
MKB	178	2,349	23,494	25,843	3,567	4,459	3,567	106,127	60,644	38,349	1,784	100,777	218,497	244,340
MKC	179	1,637	83,512	85,149	4,094	819	5,731	59,768	6,550	59,768	819	67,137	137,549	222,698
MKE	180	168,743	19,322	188,065	184,200	7,729	2,576	9,017	1,288	7,729	0	9,017	212,539	400,604
MKF	181	72,156	2,775	74,931	74,006	7,401	3,700	1,850	0	0	0	0	86,957	161,888
MKJ	182	0	1,044	1,044	3,131	0	0	0	0	0	0	0	3,131	4,175
MKK	183	3,324	31,574	34,898	4,985	0	4,985	43,206	1,662	6,647	0	8,309	61,485	96,383
MKN	176	60,268	56,791	117,059	62,586	2,318	11,590	61,427	25,498	78,812	1,159	105,469	243,390	360,449
MKP	177	7,613	11,420	19,033	4,512	645	3,223	30,297	70,264	19,983	3,223	93,470	132,147	151,180
Population estimate		316,090	229,932	546,022	341,081	23,371	35,372	311,692	165,906	211,288	6,985	384,179	1,095,695	1,641,717
<b>Pumicestone Bay</b>														
PUA	175	8,973	0	8,973	7,654	0	0	0	0	0	0	0	7,654	16,627
PUB	174	37,094	19,559	56,653	34,396	19,559	49,234	7,419	1,349	674	0	2,023	112,631	169,284
Population estimate		46,067	19,559	65,626	42,050	19,559	49,234	7,419	1,349	674	0	2,023	120,285	185,911
Total		1,345,507	976,407	2,321,914	1,121,044	485,930	365,963	642,036	238,162	228,553	10,902	477,617	3,092,590	5,414,504