

**Large-Mesh Bottom Trawl Survey of Crab and
Groundfish: Kodiak, Chignik, South Peninsula, and
Eastern Aleutian Management Districts, 2022**

by

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and

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Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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

FISHERY MANAGEMENT REPORT NO. 23-07

**LARGE-MESH BOTTOM TRAWL SURVEY OF CRAB AND
GROUNDFISH: KODIAK, CHIGNIK, SOUTH PENINSULA, AND
EASTERN ALEUTIAN MANAGEMENT DISTRICTS, 2022**

by
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Division of Sport Fish, Research and Technical Services
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ABSTRACT

This report summarizes results from the large-mesh bottom trawl survey that took place June through September 2022 to assess crab and groundfish resources in the Kodiak, Chignik, South Peninsula, and Eastern Aleutian Tanner crab *Chionoecetes bairdi* management districts. A total of 369 trawl hauls were conducted to assess relative abundance and condition of commercially important crabs, as well as spatial distribution, species composition, size frequency, and catch per unit effort of commercially important groundfish. Survey estimates indicated that mature and legal male Tanner crab abundances were sufficient to support commercial fisheries in 3 sections of the Kodiak District, the Chignik District, and both sections of the South Peninsula District. Red king crab *Paralithodes camtschaticus* abundance estimates in each of the surveyed management areas remain too low to consider opening a red king crab commercial fishery. Arrowtooth flounder *Atheresthes stomias*, flathead sole *Hippoglossoides elassodon*, walleye pollock *Gadus chalcogrammus*, and yellowfin sole *Limanda aspera* were the dominant groundfish captured during the survey.

Keywords: crab, groundfish, *Chionoecetes bairdi*, *Paralithodes camtschaticus*, trawl survey, Kodiak, South Peninsula, Chignik, Eastern Aleutian, *Hippoglossoides elassodon*, *Atheresthes stomias*, *Limanda aspera*, *Gadus chalcogrammus*

INTRODUCTION

The Alaska Department of Fish and Game (ADF&G) conducted a large-mesh bottom trawl survey during 2022 around Kodiak Island, along the Alaska Peninsula from Cape Douglas to False Pass, and in the Eastern Aleutian Islands from Akutan Island to Unalaska Island (Figure 1). The survey area corresponds to the Kodiak, Chignik, South Peninsula, and Eastern Aleutian Districts of Registration Area J (Westward) for Tanner crab *Chionoecetes bairdi* (5 AAC 35.505¹(a)(b)(c) and (f)); the Kodiak and Alaska Peninsula king crab registration areas, and the Dutch Harbor District of the Aleutian Islands king crab Registration Area (5 AAC 34.400², and 34.500³, and 34.604⁴(1)); the Kodiak, Alaska Peninsula, and Dutch Harbor scallop registration areas (5 AAC 38.076⁵(b)(5)(6) and (7)); and the Kodiak, Chignik, and South Alaska Peninsula groundfish registration areas, and Aleutian Islands District of the Bering Sea–Aleutian Islands (BSAI) groundfish Registration Area (5 AAC 28.400⁶, 28.500⁷, 28.550⁸, and 28.605⁹(a)) (Figure 2). Tanner crab management units are districts; king crab, weathervane scallops *Patinopecten caurinus*, and groundfish management units are areas. This report summarizes survey data by district or area accordingly.

ADF&G began conducting trawl surveys focused on red king crab *Paralithodes camtschaticus* around Kodiak Island in 1963. Early trawl surveys were limited to localized areas known to have concentrations of red king crab (Figure 3; Reynolds and Powell 1964; McMullen 1967a–b; McMullen 1968; Kingsbury and James 1971). Beginning in 1980, bottom trawl surveys to assess Tanner crab were initiated in the North Shelikof Strait of the Kodiak District (Colgate and Hicks 1982). These surveys were not used as the primary crab stock assessment tool. Rather, ADF&G conducted pot surveys from 1973 to 1986 as the primary method to determine crab stock abundance. Pot surveys targeted red king crab; Tanner crab were assessed as a secondary species

¹ Alaska Administrative Code: *Description of [Tanner crab] Registration Area J Districts [Westward]*

² Alaska Administrative Code: *Description of [king crab] Registration Area K [Kodiak]*

³ Alaska Administrative Code: *Description of [king crab] Registration Area M [Alaska Peninsula]*

⁴ Alaska Administrative Code: *Description of red king crab [Registration Area O (Aleutian Islands)] Districts*

⁵ Alaska Administrative Code: *Alaska Scallop Fishery Management Plan*

⁶ Alaska Administrative Code: *Description of Kodiak Area [for groundfish]*

⁷ Alaska Administrative Code: *Description of Chignik Area [for groundfish]*

⁸ Alaska Administrative Code: *Description of South Alaska Peninsula Area [for groundfish]*

⁹ Alaska Administrative Code: *Description of Bering Sea–Aleutian Islands Area Districts [for groundfish]*

(Colgate and Hicks 1983). From 1981 through 1986, trawl survey development was focused on Tanner crab assessment and expansion to more locations in the Kodiak, Chignik, and South Peninsula Districts (Colgate and Hicks 1983; Colgate 1984). The first comprehensive large-mesh trawl survey of the Kodiak District occurred in 1987 (Jackson 1990). In 1988, following the collapse of the red king crab stocks, large-mesh trawl surveys replaced pot surveys as the standard Tanner crab stock assessment tool in the Kodiak, Chignik, and South Peninsula Districts (Urban and Vining 1999; Spalinger and Knutson 2022a). The Eastern Aleutian District large-mesh bottom trawl survey was added to the regionwide survey program in 1990 and generally continued triennially until 2003. Beginning in 2004, selected locations of the Eastern Aleutian District have been surveyed annually, with the exception of 2020 due to scheduling changes associated with the COVID-19 pandemic. Since 1988, between 287 and 410 successful hauls have been completed annually in the Kodiak, Chignik, South Peninsula, and Eastern Aleutian Districts (Table 1).

Annual trawl survey results have been used since 1999 to determine if Tanner crab abundance is above regulatory thresholds allowing for commercial fisheries (5 AAC 35.507¹⁰; Urban et al. 1999; Spalinger et al. 2021; Table 2). When survey results indicate that abundance thresholds are met, Tanner crab guideline harvest levels (GHLs) are primarily determined by estimating the number of legal male crab (Appendix A1) as determined by the trawl survey in a district or section and applying a harvest rate based on the estimated abundance of mature male and female crabs compared to the long-term average abundance. Details on the Tanner crab harvest strategy, survey results directly affecting Tanner crab fisheries, and recent fishery information are published annually by ADF&G (Bevaart 2022).

Primary objectives of the 2022 crab and groundfish large-mesh bottom trawl survey were to (1) estimate the relative abundance and condition of Tanner and red king crabs; and (2) determine spatial distribution, species composition, length frequency, and catch per unit effort (CPUE) of commercially important groundfish species.

Secondary objectives of the survey were to (1) determine size–frequency of weathervane scallops; (2) determine sex composition of skate species (*Raja* and *Bathyraja*); (3) measure chela height of male Tanner crab in the Kodiak and South Peninsula Districts; and (4) collect otoliths from walleye pollock *Gadus chalcogrammus* in the survey area (Knutson and Spalinger 2021, Knutson 2022).

METHODS

SURVEY DESIGN

The 2022 large-mesh bottom trawl survey was conducted in known Tanner crab habitat using a fixed-grid station design developed in 1988. Stations were standardized and stratified in 2021 to update historical abundances of Tanner crab for use by fishery managers (Spalinger and Knutson 2022a). Survey station area totals approximately 15,500 km² at depths greater than 20 fathoms. Station size variation results from irregular coastline topography and bathymetry. Offshore stations average approximately 74.4 km² each, and inshore stations average approximately 21.7 km² each (Appendix B2; Knutson and Spalinger 2021). In 2022, 369 successful bottom trawl hauls were conducted in 369 stations (Figure 1, Appendix C).

Survey timing is generally consistent each year. The Northeast, Eastside, Southeast, and Southwest Sections of the Kodiak District are typically surveyed in June and July; Chignik, South Peninsula,

¹⁰ Alaska Administrative Code: Kodiak, Chignik, and South Peninsula Districts *C. bairdi* Tanner crab harvest strategies

and Eastern Aleutian Districts are usually surveyed in July and August; and Westside and North Mainland Sections of the Kodiak District are generally surveyed in September.

VESSEL AND FISHING GEAR

The R/V *Resolution* (28.9 m) has been used to conduct the large-mesh bottom trawl survey since 1988. The R/V *Resolution* is a house-forward stern trawler equipped with an aft net reel, telescoping deck crane, and paired hydraulic trawl winches.

The trawl survey net is a 400-mesh eastern otter trawl designed to sweep a 12.2 m path. The net mouth is constructed with 10.2 cm stretch mesh, the net body with 8.9 cm stretch mesh, and the codend with a 3.2 cm stretch mesh liner. The net has a 21.3 m headrope with 18 floats, each 20.3 cm in diameter. The footrope is 29.0 m long with a 1.0 cm diameter chain attached every 25.4 cm to ensure the footrope contacts bottom. The dandyline is 45.7 m long, each consisting of a 1.5 cm diameter cable that is 18.3 m long and a pair of 1.3 cm diameter cables that are each 27.4 m long: one attached to the top and the other to the bottom of each net wing (Knutson and Spalinger 2021). Astoria “V” type doors weighing 340 kg and measuring 1.5 m × 2.1 m are used to spread the net.

Within each station, the trawl net was towed on bottom at an average speed of 5.0 km/h for a target distance of 1.85 km (1 nmi). Haul distance was determined by Global Positioning System (GPS) as the distance traveled by the vessel from when the footrope contacted bottom until the footrope left bottom. The vessel captain estimated corrections in distance for hauls that were not straight or when irregular bottom type, net hangups, or exceptionally large catches caused haul distance to differ from 1.85 km. Haul locations were limited to trawlable substrate as determined from nautical charts and bottom mapping systems on the vessel. All hauls were made during daylight hours. Haul location, distance, time, and depth were recorded on ADF&G skipper trawl record forms. Quality of net performance was rated and a haul was discarded and repeated when the skipper and cruise leader determined the net did not adequately sample the bottom (Knutson and Spalinger 2021). A temperature-depth data logger was attached to the net’s headrope and was approximately 2 m above the sea floor when fishing. Water temperature and depth were recorded in 1-minute intervals for each haul. Only temperatures recorded when the footrope was on bottom were used to determine average water temperature during the haul.

CATCH SAMPLING PROCEDURES

Total catch weight from each haul was determined by weighing the full trawl codend with an electronic crane scale (MSI 9300, Measurement Systems International; ±1.0 kg), emptying the codend into on-deck sorting bins, and subtracting the empty codend weight from the full codend weight. Prior to emptying the trawl catch from the codend, a 1.5 m² subsampling net was tied into the on-deck sorting bin. After emptying the entire catch into the on-deck sorting bin, species selected for sampling from the entire haul (whole-haul) were weighed using a motion-compensated electronic scale (Marel 1500; ±0.01 kg), counted, and measured (±1.0 cm) when applicable. The following species were whole-haul sampled: sablefish *Anoplopoma fimbria*, Pacific cod *Gadus macrocephalus*, walleye pollock *Gadus chalcogrammus*, Pacific halibut *Hippoglossus stenolepis*, all rockfish *Sebastes* and *Sebastolobus*, lingcod *Ophiodon elongatus*, Atka mackerel *Pleurogrammus monopterygius*, giant Pacific octopus *Enteroctopus dofleini*, squid *Berryteuthis magister*, Pacific herring *Clupea harengus*, salmon *Onchorhynchus*, weathervane scallop, 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 *Metacarcinus magister*, Tanner crab, red king crab, snow crab *Chionoecetes opilio*, hair crab *Erimacrus isenbeckii*, box crab *Lopholithodes foraminatus*, spiny dogfish *Squalus acanthius*, Pacific sleeper shark *Somniosus pacificus*, salmon shark *Lamna ditropis*, wolf eel *Anarrichthys ocellatus*, and giant wrymouth *Cryptacanthodes giganteus*. As whole-haul species were removed from the on-deck sorting bin for sampling, the subsampling net was lifted by crane through remaining catch and the resulting subsample was placed on the sorting table for species composition sampling. All species on the sorting table were identified and weighed. Data recorded for subsampled organisms were used post-survey to expand results to the entire haul catch. Human-made products, kelp, empty shells, regurgitated fish, rocks, etc. in the subsample were classified as “debris” and weighed.

Length or width measurements were taken from selected shellfish species. Crabs were categorized by sex and shell condition, and measurements were electronically recorded using digital calipers linked to a shellfish measurement database. Tanner crab carapace width (CW) was measured perpendicular to the carapace midline, between the lateral margin spines; however, legal status (meets minimum size requirement to retain in a fishery) was determined by including lateral margin spines. King crab were measured for carapace length (CL) from the right eye socket to the medial-posterior edge of the carapace, whereas legal status was determined by measuring perpendicular to the carapace midline including lateral margin spines. An explanation of the terms used to characterize Tanner and king crabs are presented in Appendix A. Dungeness crab were measured for CW and checked for legal status across the carapace immediately anterior to the 10th anterolateral spine (Knutson and Spalinger 2021).

Tanner, king, and Dungeness crabs were subsampled when each species/sex exceeded 200 individuals per haul. Clutch fullness of mature female Tanner, king, and Dungeness crabs was estimated by examining egg clutch and assigning a fractional clutch size relative to the size of the abdominal flap (Knutson and Spalinger 2021). Embryo development was noted by the presence or absence of eyed eggs. External signs of bitter crab disease, black mat, nemertean worms, and parasitic barnacles were recorded for all measured crabs. When available, shell height measurements for 20 weathervane scallops per haul were collected (Knutson and Spalinger 2021).

Length measurements were taken from selected finfish species. Target sample size was 30 to 50 measurements per species per haul. Measurements were entered directly into a fish measurement database using a magnetic fish measuring board. Commercial finfish species were measured from snout to midpoint of the caudal fin. Sharks were measured from snout to tip of caudal fin. Skates were measured along the dorsal surface from the snout to the anterior notch of the pectoral fin. All sharks and skates were measured and sex determined by the presence or absence of claspers (Knutson and Spalinger 2021).

CPUE AND ABUNDANCE INDICES

A commonly used measure in this report is catch-per-unit-effort (CPUE, U), determined as

$$U_i = \frac{c_i}{d_i} \quad (1)$$

where c_i is the catch of animals (in units of number or weight) and d_i is the distance towed during a haul at station i .

Abundance Indices

Tanner crab abundance ($\hat{N}_T$) is the sum of stratum abundances ($\hat{N}_{T,h}$), which are estimated as

$$\hat{N}_{T,h} = \frac{\bar{U}_h}{x} \sum_{i=1}^n A_{i,h} \quad (2)$$

$$\bar{U}_h = \frac{\sum_{i=1}^m U_{i,h} A_{i,h}}{\sum_{i=1}^m A_{i,h}} \quad (3)$$

where $\bar{U}_h$ is the unbiased estimator of section/stratum CPUE weighted by station area, x is the assumed net width of 12.2 m (0.006587473 nmi), and $A_{i,h}$ is area (nmi²) for station i of m stations sampled within stratum h .

Here, $\bar{U}_h$ is estimated using only stations that were towed within the given survey year, so that $m \leq n$ (i.e., the total number of stations within a stratum), but is then scaled to abundance using the summed area of all stations within the stratum (Equation 2).

King crab abundance ($\hat{N}_K$) is estimated as

$$\hat{N}_k = \sum_{i=1}^n \frac{U_i}{x} A_i \quad (4)$$

where U is CPUE expressed as crab per nautical mile, x is the assumed net width of 12.2 m (0.006587473 nmi), and A is area (nmi²) for station i of n .

Here, $\hat{N}_k$ is estimated using all stations that were towed within the given survey year.

RESULTS AND DISCUSSION

Detailed haul data are in Appendix B1 and include date, station, start position, heading, average depth, distance fished, and bottom temperature.

KODIAK

In the Northeast, Eastside, Southeast, and Southwest Sections of the Kodiak Tanner crab District, 150 hauls were successfully completed between June 15 and July 13 (haul numbers 1–150). Haul locations are shown in Appendices C1–C7. In the Westside and North Mainland Sections, 61 hauls were successfully completed between September 8 and September 17 (haul numbers 309–336). The total area of the surveyed sections used to determine abundance estimates for the district in 2022 was 8,386.1 km² (Appendix B2).

Throughout the Kodiak District, 129 species were identified and weighed. A total of 27,493 size measurements were collected from 4 invertebrate species and 25,499 length measurements were collected from 36 fish species.

Catch Composition

The CPUE of all species from Kodiak sample hauls was 589 kg per km towed. Arrowtooth flounder *Atheresthes stomias* was the dominant species caught by weight (22.8%), followed by

flathead sole *Hippoglossoides elassodon* (19.2%), Tanner crab (13.4%), walleye pollock (7.3%), and English sole *Parophrys vetulus* (3.5%; Table 3). Arrowtooth flounder, flathead sole, walleye pollock, and Tanner crab were the 4 most abundant species captured by weight in previous years (Spalinger and Knutson 2018–2021, 2022b; Figure 4).

Tanner Crab

The 2022 Kodiak District survey captured 32,356 male Tanner crab and 15,733 female Tanner crab. Tanner crab were caught in 94% of all hauls, with catches ranging from 0 to 3,883 crab per km towed, with the highest CPUE at station 486A in Upper Barnabas Gully within the Eastside Section (Figure 5). Total Tanner crab CPUE was 141 crab per km towed.

Tanner crab abundance estimates were determined for each management section (Appendix D1). The total 2022 Kodiak District surveyed Tanner crab abundance was estimated at 80.0 million crab, similar to 77.7 million crab estimated in 2021, and the 12th largest estimate in survey record. Abundance estimates for legal males were the largest in survey record. The largest decreases were observed among males 92–114 mm CW and sublegal males >114 mm CW (Table 4).

The 2022 estimated abundance of legal-sized male Tanner crab was 15.2 million crab, an increase from the 2021 estimate of 3.3 million (Table 4). In 2022, the abundance estimate of 9.9 million legal-sized male crab in the Eastside Section was the largest in the district, whereas the Northeast Section had the smallest estimated abundance of legal males (0.08 million).

Trawl survey results indicated that mature male Tanner crab abundance in the Eastside, Southeast, and Southwest Sections met minimum regulatory thresholds for consideration of a commercial fishery in 2023; regulatory harvest level requirements were met, and the fisheries were opened for the 2023 season. Mature male Tanner crab abundance estimates for the Northeast, Westside, and North Mainland Sections were below thresholds needed for commercial seasons (Table 2).

Male Tanner crab had a mean size of 128.6 mm CW and females had a mean size of 80.9 mm CW. A large proportion of male crab were between 110 mm CW and 160 mm CW, and female crab were between 70 mm CW and 100 mm CW (Figure 6). The percentage of male crab that were considered mature was 78.4%, up from 61.0% in 2021 (Figure 7, Table 4). In the Eastside, Southeast, and Southwest Sections most male crab were greater than 115 mm CW. Male crab in the Northeast, Westside, and North Mainland Sections were less abundant and composed of a larger proportion of crab less than 100 mm CW (Figures 8 and 9). Soft/new pliable shell and new shell crab composed 65.4% (21,170 crab) of the total male Tanner crab captured in the Kodiak District (Table 5).

Mature female Tanner crab had a mean size of 87.7 mm CW. A total of 5,629 mature female crab were measured and clutch information was determined. Multiparous crab accounted for 94.2% (5,301 crab) of mature females, similar to 93.2% in 2021 (Spalinger and Knutson 2022b). Only 78 mature females examined did not produce an egg clutch and 86.8% (4,888 crab) of mature females had an egg clutch greater than half full (Figure 10). This was less than 2021 when 93.7% of mature females sampled had egg clutches that were more than half full (Spalinger and Knutson 2022b). Average percent clutch fullness in 2022 (80.6%) decreased from 2021 (87.9%; Figure 11).

Red King Crab

Red king crab were caught in 10.0% of Kodiak Area hauls totaling 70 males and 54 females. King crab catch ranged from 0 to 18 crab per haul, with 77.4% of king crab caught inside Alitak Bay and 14.5% caught inside Ugak Bay (Figure 12).

Red king crab abundance estimates were derived for 4 districts of the Kodiak Registration Area by size and sex categories (Table 6). The 2022 Kodiak red king crab abundance was estimated at 82,320 crab, which was less than the estimated 225,194 crab in 2021. The largest decreases were observed among females and prerecruit II, III, and IV males. The only increase was in recruit male abundance (Table 6). The total estimated abundance of legal males decreased from 45,930 crab in 2021 to 40,009 crab in 2022 and represented 78.1% of the total male abundance.

Mean king crab size was 164.1 mm CL for males and 141.6 mm CL for females (Figures 13 and 14). More than $\frac{3}{4}$ of male and female king crab were mature (Table 6). During the 2022 Kodiak Area survey, 52.0% (26) of all mature females examined had an egg clutch that was more than half full (Figure 15), similar to 2021 (53.4%; Spalinger and Knutson 2022b).

CHIGNIK

In the Chignik Tanner crab District, 45 hauls were successfully completed from July 24 through July 30 (haul numbers 151–195; Appendices C8–C9). The total area used to determine abundance estimates for the district in 2022 was 1,374.8 km² (Appendix B2).

Throughout the Chignik District, 79 species were identified and weighed. A total of 6,169 size measurements were collected from 3 invertebrate species and 4,914 length measurements were collected from 27 fish species.

Catch Composition

The CPUE of all species from Chignik sample hauls was 458 kg per km towed. Arrowtooth flounder (30.4%), walleye pollock (24.5%), and flathead sole (16.1%) were the dominant species caught by weight, followed by Tanner crab (7.7%) and yellowfin sole *Limanda aspera* (3.0%; Table 7). With the exception of Tanner crab in 2017, these species have been among the top 10 species in recent surveys (Spalinger and Knutson 2018–2021, 2022b; Figure 4).

Tanner Crab

The 2022 Chignik District bottom trawl survey captured 4,105 male Tanner crab and 2,013 female Tanner crab. Tanner crab were caught in 98% of all hauls, with catches ranging from 0 to 545 crab per km towed. Station 4270 in Castle Bay had the highest CPUE of Tanner crab (Figure 16). Total Tanner crab CPUE was 79 crab per km towed.

Abundance estimates for Tanner crab were determined by surveyed locale (Appendix D2). The total 2022 Chignik District Tanner crab abundance was estimated at 7.3 million crab, a decrease from 14.0 million crab in 2021 (Table 8). Male crab <70 mm CW, males 92–114 mm CW, sublegal males >114 mm CW, and juvenile females showed the largest decreases from recent years, whereas estimates of legal males increased. The estimated abundance of legal-sized male Tanner crab in 2022 increased to 1.2 million crab from 0.5 million crab in 2021 (Table 8, Figure 17). Estimated mature male abundance declined but remained above the threshold needed for consideration of a commercial fishery in 2023 (Table 2); regulatory harvest level requirements were met, so the fishery opened for the 2023 season.

The mean Chignik District Tanner crab CW was 115.5 mm for males and 85.2 mm for females. A large proportion of male crab were between 95 mm CW and 155 mm CW, whereas female crab were between 70 mm CW and 110 mm CW (Figure 6). Juvenile males with soft/new pliable or new shell conditions accounted for 32.8% (1,345 crab) of all male Tanner crab captured in the district (Table 5) compared to 49.0% in 2021 (Spalinger and Knutson 2022b), and the percentage of mature males increased to 65.0% overall. Mitrofanina had the highest number of new shell male crab, which were predominantly >115 mm CW (Figures 18 and 19).

Mature female Tanner crab had a mean size of 92.7 mm CW. A total of 1,144 mature females were measured and clutch information recorded. Multiparous females accounted for 75.0% (858 crab) of mature female Tanner crab examined in 2022 compared to 86.6% in 2021 (Spalinger and Knutson 2022b). Egg clutches that were more than half full were found in 80.0% (917 crab) of mature females examined (Figure 20). Average percent clutch fullness in 2022 (76.0%) decreased from 2021 (87.0%; Figure 21).

SOUTH PENINSULA

In the South Peninsula Tanner crab District, 92 hauls were successfully completed from July 30 through August 21 (haul numbers 196–242 and 264–308; Appendices C9–C12). The total area used to determine abundance estimates for the district in 2022 was 2,929.4 km² (Appendix B2).

Throughout the South Peninsula District, 110 species were identified and weighed. A total of 10,711 size measurements were collected from 4 invertebrate species and 9,793 length measurements were collected from 30 fish species.

Catch Composition

The CPUE of all species from South Peninsula sample hauls was 721 kg per km towed. Flathead sole (20.4%), arrowtooth flounder (19.6%), walleye pollock (17.1%), and yellowfin sole (15.6%) were the dominant species caught by weight, followed by Tanner crab (7.1%) and starry flounder (2.9%; Table 9). These species, with the exception of Tanner crab in 2017, have been among the top 10 species in recent surveys (Spalinger and Knutson 2018–2021, 2022b; Figure 4).

Tanner Crab

The 2022 South Peninsula District survey caught 10,719 male Tanner crab and 4,139 female Tanner crab. Tanner crab were caught in 95% of all hauls, with catches ranging from 0 to 883 crab per km towed, with the highest CPUE at station MOOX outside of Morzhovoi Bay, in the Western Section (Figure 16). Total Tanner crab CPUE was 102 crab per km towed.

Tanner crab abundance estimates were determined by surveyed locale and management section (Appendix D3). The total 2022 Tanner crab abundance in the surveyed portion of the South Peninsula District was estimated at 20.6 million crab, a decrease from 31.9 million crab in 2021, and the 14th highest estimate in survey history (Table 10). In 2022, the largest decreases in Tanner crab abundance were observed among males 70–91 mm CW, males 92–114 mm CW, and sublegal males >114 mm CW. Legal male crab showed the largest increases from recent years (Table 10, Figure 22). Estimated abundance of legal-sized male Tanner crab increased to 3.4 million crab in 2022 from 1.7 million crab in 2021. Trawl survey results indicated that estimated mature male abundance was above thresholds needed for consideration of a commercial fishery in both the Eastern and Western Sections in 2023 (Table 2); regulatory harvest level requirements were met, so the fisheries were opened for the 2023 season.

Male Tanner crab in the South Peninsula District had a mean size of 120.3 mm CW and females had a mean size of 83.8 mm CW. A large proportion of male crab were between 100 mm CW and 160 mm CW, whereas female crab were between 70 mm CW and 105 mm CW (Figure 6). Soft/new pliable shell and new shell crab composed 73.4% (7,863 crab) of the total male Tanner crab captured in the District with most of those found around Morzhovoi Bay and Pavlof Bay/Volcano Bay (Table 5, Figures 23 and 24).

Mature female Tanner crab had a mean size of 91.0 mm CW. A total of 1,926 mature female Tanner crab were measured and clutch information determined. Multiparous females in the South Peninsula District accounted for 85.7% (1,651 crab) of mature female Tanner crab examined in 2022 compared to 62.9% in 2021 (Spalinger and Knutson 2022b). Egg clutches that were more than half full were found in 82.9% (1,596 crab) of mature female Tanner crab examined (Figure 25). Average percent clutch fullness in 2022 (78.7%) decreased slightly from 2021 (80.3%; Figure 26).

Red King Crab

The Alaska Peninsula king crab management area consists of waters west of Cape Kumlik and east of Scotch Cap Light, approximately corresponding to the South Peninsula and Chignik Tanner crab management district boundaries (Figure 2). The 2022 abundance estimate was 42,033 crab, a decrease from 254,681 crab estimated in 2021 (Table 6). A total of 24 male and 12 female red king crab were captured in the Alaska Peninsula Area, most of which were from Pavlof Bay (88.9%; Figure 12). Male king crab mean CL averaged 179.3 mm and female red king crab mean CL averaged 142.4 mm. All of the 12 female king crab caught were mature. Over 84.0% of red king crab captured in the last 5 years were from Pavlof Bay. However, the sporadic catches of king crab in the sampling areas may not accurately reflect changing abundance.

EASTERN ALEUTIAN

In the Eastern Aleutian Tanner crab District, 21 hauls were successfully completed from August 8 through August 13 (haul numbers 243–263; Appendices C13–C14). The total area used to determine abundance estimates for the district in 2022 was 455.6 km² (Appendix B2).

Throughout the Eastern Aleutian District, 82 species were identified and weighed. A total of 3,685 size measurements were collected from 2 invertebrate species and 2,441 length measurements were collected from 23 fish species.

Catch Composition

The CPUE of all species from Eastern Aleutian sample hauls was 736 kg per km towed. Arrowtooth flounder was the dominant species by weight (26.4%), followed by walleye pollock (25.8%), rex sole *Glyptocephalus zachirus* (13.6%), flathead sole (9.1%), and Tanner crab (7.5%; Table 11). These species have been among the top 10 species in recent surveys (Spalinger and Knutson 2018–2020, 2022b; Figure 4).

Tanner Crab

The 2022 Eastern Aleutian survey caught 3,669 male Tanner crab and 4,316 female Tanner crab. Tanner crab were caught in 95.0% of all hauls, with catches ranging from 0 to 1,948 crab per km towed, with the highest CPUE at station MKB in Makushin Bay (Figure 27). Total Tanner crab CPUE was 248 crab per km towed.

Tanner crab abundance estimates were determined by surveyed locale and management section (Appendix D4). The total 2022 Tanner crab abundance in the surveyed portion of the Eastern Aleutian District was estimated at 7.3 million crab, a decrease from 10.3 million crab in 2021, and the 9th highest estimate in survey history. In 2022, the largest decreases in Tanner crab abundance were observed among male crab <70 mm CW, male crab 70–91 mm CW, and juvenile females (Table 12). Estimated abundance of legal-sized male Tanner crab increased to 0.2 million crab in 2022 from 0.08 million crab in 2021. The abundance estimates of mature male Tanner crab in the Akutan and Unalaska/Kalekta Sections were below thresholds needed for a commercial season in 2023. Estimated mature male abundance was above the threshold needed for consideration of a commercial fishery in the Makushin/Skan Section in 2023 (Table 2). Regulatory harvest level requirements were met, so the fishery opened for the 2023 season.

Male Tanner crab in the Eastern Aleutian District had a mean size of 96.1 mm CW and females had a mean size of 76.6 mm CW. A large proportion of male and female crab were between 30 mm CW and 100 mm CW (Figure 6). Soft/new pliable shell and new shell crab composed 81.7% (2,996 crab) of the total male Tanner crab captured in the District (Table 5).

Mature female Tanner crab had a mean size of 85.4 mm CW. A total of 1,212 mature female Tanner crab were measured and clutch information determined. Multiparous females in the Eastern Aleutian District accounted for 74.9% (908 crab) of mature female Tanner crab examined in 2022, compared to 66.7% in 2021 (Spalinger and Knutson 2022b). Egg clutches that were more than half full were found in 73.3% (888 crab) of mature female Tanner crab examined (Figure 28). Average percent clutch fullness in 2022 (76.0%) decreased slightly from 2021 (77.2%; Figure 29).

Red King Crab

Red king crab abundance in the surveyed areas around Akutan and Unalaska Islands remains at historically low levels. There were no red king crab captured during the 2022 trawl survey in the Aleutian Islands.

WEATHERVANE SCALLOPS

Weathervane scallops accounted for 0.5% of total animal weight from all areas surveyed in 2022. Total CPUE was 3.1 kg per km towed, which is similar to the 1988–2021 CPUE of 2.9 kg per km towed (Figure 30). The highest catch of 119.4 kg per km towed was at station 683A on Alitak Flats, and overall, the Kodiak Area had the highest total weathervane scallop CPUE at 4.9 kg per km towed. Ninety-two percent of all weathervane scallops caught were located in the Kodiak Area (Figure 31).

A total of 5,848 scallops were caught in 2022 and averaged 140.7 mm in shell height (Figure 32). This was smaller than the 2021 average height of 141.3 mm, and smaller than the 2002–2021 average height of 146.2 mm (Figure 33).

ARROWTOOTH FLOUNDER

Arrowtooth flounder accounted for 22.9% of total animal weight from all areas surveyed in 2022. Total CPUE was 140.1 kg per km towed, which is below the 1988–2021 CPUE of 159.3 kg per km towed (Figure 34). The highest catch of 3,028.1 kg per km towed was at station 354 in West Nagai Strait in the South Peninsula Area, but overall, the Aleutian Islands District of the Bering Sea/Aleutian Islands Area had the highest total CPUE at 194.6 kg per km towed (Figure 35).

A total of 112,941 arrowtooth flounder were caught in 2022 and averaged 39.8 cm in length (Figure 36). This was larger than the 2021 average length of 38.3 cm, and larger than the 2002–2021 average length of 36.9 cm (Figure 37).

FLATHEAD SOLE

Of all species captured in 2022, flathead sole accounted for 18.6% of animal weight. Total CPUE was 113.8 kg per km towed, which is below the 1988–2021 CPUE of 130.1 kg per km towed (Figure 38). The highest catch of 890.5 kg per km was at station MOXA in Izhut Bay in the Kodiak Area, but overall, the South Peninsula Area had the highest total CPUE at 147.0 kg per km towed (Figure 39).

A total of 258,816 flathead sole were caught in 2022 and averaged 28.7 cm in length (Figure 40), which was larger than the 2021 average length of 28.3 cm, and smaller than the 2002–2021 average length of 29.3 cm (Figure 41).

WALLEYE POLLOCK

Walleye pollock accounted for 13.0% of total animal weight from all areas surveyed in 2022. Total CPUE was 79.7 kg per km towed, which is below the 1988–2021 CPUE of 101.3 kg per km towed (Figure 42). The highest catch of 2,063.7 kg per km towed was at station UNC in Unalaska Bay, and overall, the Aleutian Islands District of the Bering Sea/Aleutian Islands Area had the highest total CPUE at 189.8 kg per km towed (Figure 43).

A total of 53,853 walleye pollock were caught in 2022, averaging 46.7 cm in length (Figure 44). This was larger than the 2021 average length of 44.7 cm, and smaller than the 2002–2021 average length of 48.9 cm (Figure 45).

PACIFIC HALIBUT

Pacific halibut accounted for 1.9% of total animal weight from all areas surveyed in 2022. Total CPUE was 11.5 kg per km towed, which is lower than the 1988–2021 CPUE of 20.3 kg per km towed (Figure 46). The highest catch of 166.8 kg per km towed was at station 335 in West Nagai Strait, and overall, the South Peninsula Area had the highest total CPUE of 13.8 kg per km towed (Figure 47).

A total of 1,648 Pacific halibut were caught in 2022. They averaged 65.9 cm in length (Figure 48), which was the same as the 2021 average length of 65.9 cm, and smaller than the 2002–2021 average length of 68.7 cm (Figure 49).

PACIFIC COD

Pacific cod accounted for 1.9% of total animal weight from all areas surveyed in 2022. Total CPUE was 11.5 kg per km towed, which is just over half of the 1988–2021 CPUE of 21.4 kg per km towed (Figure 50). The highest catch of 250.4 kg per km towed was at station UNF in Unalaska Bay, and overall, the Aleutian Islands District of the Bering Sea/Aleutian Islands Area had the highest total Pacific cod CPUE of 29.1 kg per km towed (Figure 51).

A total of 3,140 Pacific cod were caught in 2022. They averaged 54.0 cm in length (Figure 52), which was smaller than the 2021 average length of 57.6 cm, and smaller than the 2002–2021 average length of 54.7 cm (Figure 53).

YELLOWFIN SOLE

Yellowfin sole accounted for 6.6% of total animal weight from all areas surveyed in 2022. Total CPUE was 40.3 kg per km towed, which is below the 1988–2021 CPUE of 43.5 kg per km towed (Figure 54). The highest catch of 2,067.3 kg per km towed was at station PALX in Pavlof Bay and the South Alaska Peninsula Area had the highest total yellowfin sole CPUE at 112.4 kg per km towed (Figure 55).

A total of 60,655 yellowfin sole were caught in 2022, averaging 30.5 cm in length (Figure 56). This was similar to the 2021 average length of 30.7 cm, and smaller than the 2002–2021 average length of 31.6 cm (Figure 57).

SABLEFISH

Sablefish accounted for 0.8% of total animal weight from all areas surveyed in 2022. Total CPUE was 5.1 kg per km towed, which is more than double the 1988–2021 CPUE of 2.1 kg per km towed (Figure 58). The highest catch of 194.7 kg per km towed was at station 533B in Upper Barnabas Gully, and the Kodiak Area had the highest total sablefish CPUE at 7.2 kg per km towed (Figure 59).

A total of 2,384 sablefish were caught in 2022. They averaged 49.1 cm in length (Figure 60), which was larger than the 2021 average length of 46.5 cm, and larger than the 2002–2021 average length of 44.7 cm (Figure 61).

SKATES

Skate species accounted for 3.9% of total animal weight from all areas surveyed in 2022. Total skate CPUE was 24.1 kg per km towed, which is above the 1988–2021 CPUE of 20.4 kg per km towed (Figure 62). The highest catch of a single skate species in 2022 was 348.5 kg per km towed of big skates at station 171D outside of Kukak Bay in the Kodiak Area. Overall, the Kodiak Area had the highest total big skate CPUE at 14.4 kg per km towed (Figure 63). The Kodiak Area also had the highest total CPUE of longnose skate (12.6 kg per km) and Bering skate (3.9 kg per km). The Aleutian Islands District of the Bering Sea/Aleutian Islands Area had the highest total CPUE of Aleutian skate (5.3 kg per km) and Alaska skate (1.3 kg per km; Figure 64).

Species, sex, and length were determined for each skate caught during the 2022 trawl survey. A total of 2,543 skates were captured and measured from all districts surveyed. Although big skates accounted for the largest proportion of skate weight (45.2%), Bering skates, which accounted for 10.5% of total skate weight, were the most abundant (Table 13). Bering skates composed 35.6% of the total number of skates caught and averaged 29.7 cm from snout to anterior notch of the pectoral fin (Figure 65). Longnose skates made up 35.2% of the total number of skates caught and averaged 47.5 cm in length. Big skates accounted for 19.7% of the number of skates caught and had an average length of 60.7 cm. Aleutian skates accounted for 7.8% of all skates caught and averaged 56.6 cm, and Alaska skates made up 1.8% and averaged 43.3 cm (Figure 65). Larger skate species—big, Aleutian, and longnose skates—were mostly female (big skates: 76.0% female; Aleutian skates: 66.7% female; longnose skates: 50.1% female), whereas the smaller species (Bering and Alaska skates) were composed of 47.6% and 35.6% females, respectively.

WATER TEMPERATURE

Near-bottom water temperatures (~2 m above sea floor) in 2022 ranged from 2.22°C (Deadman Bay, Station ALP) to 10.33°C (Terror Bay, Station KUYB; Figure 66; Appendix B1). The bay with the lowest average temperature was Deadman Bay, sampled in mid-July at an average depth of 81 m (2.29°C). The warmest bay, on average, was Lenard's Harbor, sampled during mid-August at an average depth of 34 m (9.40°C; Figures 66 and 67). Average near-bottom water temperature across the sampled survey area was 6.24°C, which was 0.13°C higher than the survey average in 2021 (Appendix B1, Figure 67). Average survey temperature since 1991 has been within 2.03°C from a low of 5.26°C in 2007 to a high of 7.30°C in 2016. The average 2022 survey temperature was in between, at 6.24°C (Figure 67).

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TABLES AND FIGURES

Table 1.—Number of large-mesh bottom trawl survey hauls used to determine king and Tanner crab abundance, by Tanner crab management district, 1988–2022.

Year	Kodiak	Chignik	South Peninsula	Eastern Aleutian	Total
1988	213	0	106	0	319
1989	215	34	108	0	357
1990	208	37	120	45	410
1991	223	32	115	37	407
1992	204	29	114	0	347
1993	223	35	111	0	369
1994	200	34	121	44	399
1995	218	31	0	38	287
1996	222	27	122	0	371
1997	218	34	115	0	367
1998	217	35	93	0	345
1999	230	36	93	39	398
2000	220	35	94	36	385
2001	222	36	94	0	352
2002	225	47	93	0	365
2003	211	45	93	39	388
2004	211	45	94	24	374
2005	217	46	92	23	378
2006	207	46	89	28	370
2007	211	45	92	23	371
2008	215	44	89	23	371
2009	215	46	93	28	382
2010	213	45	90	23	371
2011	207	46	91	23	367
2012	209	46	91	28	374
2013	208	45	93	23	369
2014	211	45	92	23	371
2015	211	46	90	26	373
2016	209	46	93	21	369
2017	204	45	93	21	363
2018	210	46	86	26	368
2019	210	44	93	20	367
2020	210	45	93	0	348
2021	183	45	84	25	337
2022	211	45	92	21	369

Note: All hauls occurring in Chignik and South Peninsula Tanner crab districts are within the Alaska Peninsula king crab area.

Table 2.—Tanner crab mature male abundance threshold levels from regulatory harvest strategies, estimates of number of mature male crab by survey year from large-mesh bottom trawl surveys, 2018–2022.

	Fishery threshold (number of mature males >114 mm CW)	Survey-estimated number of mature males (>114 mm CW)				
		2018	2019	2020	2021	2022
Kodiak District						
Northeast Section	1,482,000	509,235	964,771	653,787	281,220	470,809
Eastside Section	2,588,000	6,207,283 ^a	3,377,273 ^a	7,266,441 ^a	22,477,378 ^a	26,061,487 ^a
Southeast Section	820,000	1,824,559 ^a	3,870,475 ^a	4,259,196 ^a	6,118,583 ^a	7,821,198 ^a
Southwest Section	559,000	790,652 ^a	437,182	1,382,473 ^a	4,355,728 ^a	5,089,468 ^a
Westside Section	507,000	637,140 ^a	404,173	474,665	227,951	319,189
North Mainland Section	648,000	642,724	614,026	353,236	no survey	664,886 ^{a,b}
Chignik District	966,000	778,703	1,160,364 ^a	2,316,842 ^a	5,026,552 ^a	3,247,452 ^a
South Peninsula District						
Eastern Section	883,000	382,447	612,214	1,837,154 ^a	4,634,673 ^a	3,548,906 ^a
Western Section	1,242,000	1,038,304	1,213,950	3,058,248 ^a	9,493,181 ^a	5,940,719 ^a
Eastern Aleutian District						
Akutan Section	134,000	40,697	6,530	no survey	27,404	45,796
Unalaska/Kalekta Bay Section	127,000	253,449 ^a	46,523	no survey	7,150	57,426
Makushin/Skan Bay Section	133,000	250,735 ^a	138,394 ^a	no survey	467,402 ^a	851,564 ^a

^a Above mature male harvest strategy threshold.

^b Did not meet minimum GHL requirements.

Table 3.—Predominant species by weight in the Kodiak Tanner crab District large-mesh bottom trawl survey, 2022.

Common name	Species name	% of catch by weight
Arrowtooth flounder	<i>Atheresthes stomias</i>	22.8
Flathead sole	<i>Hippoglossoides elassodon</i>	19.2
Tanner crab	<i>Chionoecetes bairdi</i>	13.4
Walleye pollock	<i>Gadus chalcogrammus</i>	7.3
English sole	<i>Parophrys vetulus</i>	3.5
Yellowfin sole	<i>Limanda aspera</i>	3.2
Pacific ocean perch	<i>Sebastes alutus</i>	2.8
Sunflower seastar	<i>Pycnopodia helianthoides</i>	2.7
Big skate	<i>Raja binoculata</i>	2.5
Longnose skate	<i>Raja rhina</i>	2.1
Starry flounder	<i>Platichthys stellatus</i>	1.9
Pacific halibut	<i>Hippoglossus stenolepis</i>	1.9
Dover sole	<i>Microstomus pacificus</i>	1.8
Pacific cod	<i>Gadus macrocephalus</i>	1.6
Northern rock sole	<i>Lepidopsetta polyxystra</i>	1.4
Sablefish	<i>Anoplopoma fimbria</i>	1.2
Rex sole	<i>Glyptocephalus zachirus</i>	1.1
Anemone	Order: Actinaria	1.1
Butter sole	<i>Isopsetta isolepis</i>	0.9
Weathervane scallop	<i>Patinopecten caurinus</i>	0.8
All others	(109 species)	6.6
Total		100.0

Table 4.—Tanner crab abundance estimates from large-mesh bottom trawl surveys in the Kodiak District, 1988–2022.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Northeast Section													
1988	1,909,504	262,210	2,171,714	1,833,697	302,062	273,914	342,788	195,448	33,336	571,572	228,784	2,981,245	5,152,959
1989	5,104,835	4,939,395	10,044,230	4,712,143	1,382,306	1,914,154	2,227,696	1,392,832	405,131	4,025,658	1,797,962	12,034,262	22,078,491
1990	1,705,629	2,560,819	4,266,448	1,428,260	1,386,004	1,177,326	922,600	570,842	189,207	1,682,649	760,049	5,674,239	9,940,687
1991	4,913,349	2,545,040	7,458,389	4,019,422	1,892,504	1,934,644	1,592,009	819,871	134,645	2,546,525	954,517	10,393,095	17,851,484
1992	2,047,633	1,631,791	3,679,424	1,577,052	1,465,596	1,133,830	996,838	265,593	27,208	1,289,639	292,801	5,466,117	9,145,541
1993	1,726,383	1,338,631	3,065,014	1,583,955	425,635	662,172	730,540	344,834	55,003	1,130,377	399,837	3,802,139	6,867,153
1994	537,296	1,486,509	2,023,805	526,398	192,848	303,296	535,616	123,882	119,464	778,961	243,346	1,801,503	3,825,308
1995	4,779,435	1,587,960	6,367,395	4,662,087	1,131,189	352,135	441,029	11,890	163,316	616,234	175,206	6,761,646	13,129,041
1996	2,219,900	2,977,052	5,196,952	1,680,919	3,005,668	1,386,255	513,145	37,875	69,215	620,235	107,090	6,693,076	11,890,028
1997	493,347	1,198,758	1,692,106	562,071	1,108,786	1,240,992	675,334	57,412	25,564	758,310	82,976	3,670,158	5,362,264
1998	1,486,075	2,369,060	3,855,134	1,114,475	2,181,603	1,852,176	1,462,493	232,166	52,022	1,746,680	284,187	6,894,934	10,750,069
1999	1,618,793	843,819	2,462,612	1,844,274	261,946	561,539	718,671	166,590	95,461	980,721	262,051	3,648,481	6,111,093
2000	5,963,174	1,497,823	7,460,997	5,856,735	1,195,307	717,241	819,676	295,299	240,288	1,355,263	535,587	9,124,546	16,585,542
2001	14,094,656	4,872,782	18,967,438	13,622,527	5,042,355	2,846,411	1,495,486	157,690	260,569	1,913,744	418,259	23,425,037	42,392,474
2002	3,524,426	2,385,993	5,910,419	3,816,689	2,553,915	2,510,708	1,748,555	192,421	45,329	1,986,305	237,750	10,867,616	16,778,035
2003	1,469,828	2,734,418	4,204,246	1,612,226	1,770,568	3,065,332	2,792,235	372,379	146,750	3,311,363	519,128	9,759,488	13,963,734
2004	2,661,236	4,341,339	7,002,576	2,378,156	1,232,009	1,792,593	2,299,501	642,197	133,384	3,075,082	775,581	8,477,839	15,480,415
2005	3,629,916	3,094,315	6,724,231	3,930,850	1,439,651	1,419,876	2,802,275	790,716	268,920	3,861,910	1,059,636	10,652,287	17,376,518
2006	9,345,341	1,872,655	11,217,996	8,523,231	2,468,590	969,206	966,592	121,316	133,303	1,221,211	254,619	13,182,238	24,400,234
2007	5,615,746	1,996,481	7,612,227	4,049,921	2,305,668	2,332,953	1,835,021	176,220	171,887	2,183,127	348,106	10,871,670	18,483,897
2008	6,440,354	3,056,613	9,496,968	5,822,721	1,892,015	2,567,519	1,768,734	217,818	104,811	2,091,363	322,629	12,373,619	21,870,586
2009	3,171,507	1,906,899	5,078,406	2,634,389	2,907,861	3,087,713	2,716,466	666,824	29,301	3,412,592	696,126	12,042,555	17,120,960
2010	2,598,324	3,961,144	6,559,469	2,398,150	1,617,118	1,068,791	2,179,384	515,346	307,885	3,002,614	823,231	8,086,674	14,646,143
2011	1,194,208	958,253	2,152,461	1,256,554	205,191	379,711	880,337	86,747	196,489	1,163,572	283,235	3,005,028	5,157,489
2012	4,182,599	583,658	4,766,258	4,103,108	166,335	210,558	545,320	38,442	171,469	755,231	209,911	5,235,232	10,001,490
2013	25,326,329	949,935	26,276,264	24,939,779	1,508,664	429,690	226,721	35,718	67,843	330,283	103,562	27,208,416	53,484,681
2014	5,793,036	3,950,097	9,743,134	4,721,623	2,745,438	1,453,067	348,837	11,901	130,129	490,866	142,029	9,410,993	19,154,126
2015	439,201	1,558,014	1,997,215	443,504	827,052	572,440	195,923	21,803	29,543	247,269	51,346	2,090,265	4,087,480
2016	771,307	1,372,060	2,143,367	679,596	364,156	466,469	245,968	16,596	40,363	302,927	56,959	1,813,148	3,956,515
2017	2,695,083	1,603,646	4,298,730	3,155,266	321,677	476,238	377,165	27,073	24,107	428,345	51,180	4,381,527	8,680,256
2018	5,952,332	2,209,531	8,161,864	5,567,057	1,865,840	1,020,830	424,053	29,258	55,925	509,235	85,183	8,962,961	17,124,825
2019	4,453,791	4,395,623	8,849,413	4,289,584	2,063,132	1,406,402	885,255	58,536	20,980	964,771	79,516	8,723,888	17,573,302
2020	1,133,517	1,848,289	2,981,806	1,065,312	428,672	536,435	589,539	60,906	3,342	653,787	64,248	2,684,205	5,666,011
2021	341,219	396,565	737,784	366,856	38,162	131,121	246,234	8,301	26,685	281,220	34,985	817,360	1,555,144
2022	986,593	534,147	1,520,741	1,086,769	69,883	204,738	390,983	5,677	74,150	470,809	79,827	1,832,200	3,352,941

-continued-

Table 4.–Page 2 of 7.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Eastside Section													
1988	2,667,280	948,148	3,615,428	2,093,188	649,360	814,999	863,373	361,133	124,024	1,348,530	485,157	4,906,076	8,521,505
1989	2,869,107	3,848,293	6,717,400	2,458,783	1,391,638	1,570,496	1,516,927	1,010,032	359,795	2,886,755	1,369,828	8,307,671	15,025,071
1990	1,903,552	8,133,531	10,037,083	1,621,174	860,491	2,365,121	4,163,050	940,657	247,150	5,350,857	1,187,807	10,197,643	20,234,726
1991	1,480,754	3,737,767	5,218,521	1,185,732	311,150	665,527	2,588,126	2,421,522	547,192	5,556,840	2,968,714	7,719,249	12,937,770
1992	1,495,441	1,962,597	3,458,037	1,613,415	332,242	504,179	1,599,224	530,368	344,195	2,473,788	874,564	4,923,624	8,381,661
1993	1,736,986	1,513,905	3,250,891	1,370,842	254,641	406,481	996,961	116,293	365,845	1,479,100	482,139	3,511,064	6,761,955
1994	1,887,408	603,220	2,490,628	1,398,252	739,675	488,688	601,786	50,251	130,949	782,987	181,201	3,409,602	5,900,230
1995	3,792,458	505,127	4,297,585	3,321,661	594,245	456,049	410,935	28,656	86,427	526,018	115,082	4,897,973	9,195,557
1996	2,085,879	930,860	3,016,739	2,185,852	716,444	619,212	856,195	107,596	196,575	1,160,366	304,171	4,681,874	7,698,613
1997	850,882	702,443	1,553,325	825,097	720,451	781,949	763,120	120,896	124,435	1,008,451	245,331	3,335,948	4,889,273
1998	4,407,188	2,462,612	6,869,800	3,881,347	1,776,197	2,732,488	2,240,592	291,458	476,204	3,008,254	767,662	11,398,286	18,268,086
1999	6,267,392	1,468,368	7,735,759	5,090,055	394,773	1,033,095	1,941,383	368,284	655,853	2,965,521	1,024,137	9,483,443	17,219,203
2000	5,345,240	3,360,677	8,705,917	5,136,352	1,536,286	683,540	1,706,927	486,669	838,938	3,032,535	1,325,608	10,388,713	19,094,630
2001	28,548,369	3,120,678	31,669,046	23,008,305	3,281,263	1,474,776	1,172,786	72,439	1,072,056	2,317,280	1,144,494	30,081,624	61,750,670
2002	14,391,710	6,458,222	20,849,932	6,762,937	9,038,215	3,299,556	1,613,963	303,012	853,772	2,770,747	1,156,784	21,871,455	42,721,387
2003	2,459,726	7,788,055	10,247,781	2,673,078	4,871,281	12,892,207	5,238,785	243,498	380,117	5,862,401	623,616	26,298,967	36,546,748
2004	4,249,061	2,426,489	6,675,550	3,825,810	1,107,990	3,296,832	8,524,403	1,236,290	216,599	9,977,292	1,452,889	18,207,923	24,883,474
2005	1,564,976	3,323,708	4,888,684	1,784,397	132,528	1,265,563	6,835,595	3,047,652	589,438	10,472,686	3,637,091	13,655,174	18,543,858
2006	32,307,526	577,341	32,884,867	29,035,507	531,770	585,607	4,768,414	758,572	1,988,207	7,515,193	2,746,779	37,668,077	70,552,944
2007	42,054,034	2,400,426	44,454,460	21,426,059	25,853,332	1,608,749	3,792,923	207,684	1,462,471	5,463,079	1,670,156	54,351,219	98,805,678
2008	9,145,863	14,169,100	23,314,963	6,721,837	4,619,631	12,189,762	2,611,888	96,558	1,022,832	3,731,278	1,119,390	27,262,507	50,577,470
2009	2,968,689	8,962,996	11,931,685	708,412	3,452,829	5,043,291	12,248,935	2,136,071	286,402	14,671,408	2,422,473	23,875,940	35,807,625
2010	2,270,142	6,443,398	8,713,540	1,984,615	271,378	2,203,717	10,027,460	3,508,600	1,161,609	14,697,669	4,670,209	19,157,379	27,870,919
2011	5,462,968	2,619,678	8,082,646	5,355,536	106,221	568,560	4,256,708	1,072,710	1,353,921	6,683,339	2,426,631	12,713,656	20,796,301
2012	2,580,883	523,392	3,104,275	2,551,538	114,170	439,364	3,764,515	551,199	2,103,940	6,419,655	2,655,140	9,524,727	12,629,001
2013	29,998,370	543,559	30,541,929	28,568,353	1,414,458	429,753	1,095,279	13,854	639,017	1,748,149	652,871	32,160,714	62,702,643
2014	20,997,829	1,677,985	22,675,814	14,308,112	6,813,027	1,302,106	589,386	13,149	277,084	879,619	290,232	23,302,864	45,978,677
2015	1,445,143	3,578,998	5,024,142	1,228,243	2,565,409	3,424,940	638,480	78,122	79,296	795,897	157,417	8,014,489	13,038,631
2016	1,180,480	8,881,758	10,062,238	1,137,604	1,906,344	6,641,135	5,290,292	309,344	180,123	5,779,760	489,467	15,464,843	25,527,081
2017	8,011,300	3,886,433	11,897,734	6,748,253	908,084	1,891,351	4,263,780	763,282	240,154	5,267,217	1,003,437	14,814,904	26,712,638
2018	46,635,134	5,856,343	52,491,477	44,877,958	2,882,527	1,767,341	4,230,302	1,102,536	874,445	6,207,283	1,976,982	55,735,110	108,226,586
2019	39,447,650	18,676,436	58,124,086	20,374,794	34,550,398	7,209,466	2,853,735	52,036	471,503	3,377,273	523,538	65,511,931	123,636,017
2020	3,064,689	28,496,323	31,561,012	2,301,325	8,301,597	20,103,782	7,129,625	109,300	27,517	7,266,442	136,817	37,973,146	69,534,158
2021	723,195	15,935,781	16,658,976	857,387	1,606,055	10,651,502	21,004,819	1,289,537	183,022	22,477,378	1,472,559	35,592,322	52,251,298
2022	1,152,605	15,066,341	16,218,946	623,058	164,405	1,883,459	16,171,498	8,505,744	1,384,241	26,061,483	9,889,985	28,732,406	44,951,352

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Table 4.–Page 3 of 7.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Southeast Section													
1988	211,830	301,126	512,956	145,881	166,691	381,119	535,242	838,912	123,427	1,497,580	962,339	2,191,271	2,704,228
1989	344,638	309,196	653,833	274,876	70,173	167,210	427,958	167,644	45,585	641,186	213,229	1,153,446	1,807,279
1990	976,365	627,862	1,604,226	948,530	101,331	220,351	502,988	295,385	94,214	892,587	389,599	2,162,799	3,767,025
1991	4,572,625	880,696	5,453,321	4,263,757	398,311	236,911	333,279	170,486	42,086	545,852	212,572	5,444,830	10,898,151
1992	2,226,200	1,455,288	3,681,488	1,660,869	712,419	486,622	668,232	34,945	163,705	866,883	198,651	3,726,792	7,408,280
1993	4,019,550	670,671	4,690,221	3,709,282	257,874	442,879	428,904	28,513	142,164	599,581	170,677	5,009,616	9,699,837
1994	219,173	435,554	654,727	165,123	34,417	109,305	647,070	141,281	109,062	897,413	250,343	1,206,259	1,860,986
1995	2,686,566	113,132	2,799,699	2,376,906	14,012	29,471	85,839	77,945	49,327	213,111	127,272	2,633,500	5,433,199
1996	2,621,639	139,953	2,761,592	2,267,007	500,950	115,710	125,169	55,703	79,921	260,793	135,624	3,144,460	5,906,052
1997	453,199	140,123	593,322	360,862	200,784	114,797	45,485	3,134	46,011	94,629	49,144	771,073	1,364,395
1998	1,968,066	131,980	2,100,046	2,241,403	48,073	94,876	230,127	28,981	28,846	287,953	57,826	2,672,306	4,772,351
1999	3,901,010	158,565	4,059,575	3,996,971	98,945	95,540	192,573	127,456	73,418	393,448	200,875	4,584,905	8,644,480
2000	3,389,028	351,683	3,740,710	3,689,123	301,628	75,954	186,519	19,027	126,306	331,852	145,333	4,398,558	8,139,268
2001	9,312,017	2,916,396	12,228,413	9,348,710	2,238,991	340,705	321,768	48,095	223,322	593,186	271,417	12,521,593	24,750,005
2002	2,601,901	1,402,954	4,004,855	2,892,952	4,189,867	2,479,163	381,244	21,058	341,085	743,387	362,143	10,305,370	14,310,225
2003	481,163	479,052	960,215	629,382	1,561,675	1,718,694	981,192	53,216	91,543	1,125,951	144,759	5,035,703	5,995,918
2004	4,552,837	359,706	4,912,543	4,315,667	418,749	566,063	1,636,262	250,828	60,523	1,947,612	311,351	7,248,091	12,160,634
2005	3,961,356	539,266	4,500,622	3,752,467	373,703	476,638	1,484,802	102,083	211,743	1,798,628	313,826	6,401,435	10,902,057
2006	13,705,578	1,572,271	15,277,849	14,350,056	1,083,045	588,780	1,093,724	8,543	312,947	1,415,213	321,489	17,437,094	32,714,943
2007	11,353,758	2,445,077	13,798,835	9,156,601	7,864,693	2,174,339	1,061,023	10,505	284,430	1,355,959	294,936	20,551,592	34,350,427
2008	1,230,897	1,641,791	2,872,688	1,039,898	1,612,615	3,394,974	1,306,726	30,255	135,606	1,472,586	165,860	7,520,073	10,392,761
2009	460,372	939,917	1,400,289	574,433	561,671	1,239,074	3,231,819	688,038	47,405	3,967,263	735,444	6,342,441	7,742,731
2010	2,752,935	1,195,022	3,947,958	2,139,900	289,841	1,178,905	4,468,352	1,048,365	547,802	6,064,520	1,596,168	9,673,166	13,621,123
2011	1,672,079	390,434	2,062,513	1,786,002	72,951	272,545	1,958,275	349,130	1,461,823	3,769,229	1,810,954	5,900,726	7,963,239
2012	2,637,987	114,050	2,752,037	2,290,996	1,058,529	318,269	1,254,604	13,635	897,086	2,165,325	910,721	5,833,119	8,585,156
2013	14,715,501	323,643	15,039,144	12,907,630	738,016	175,424	500,907	32,203	444,265	977,376	476,469	14,798,445	29,837,589
2014	7,388,679	3,226,074	10,614,753	4,997,500	3,780,459	1,456,880	821,935	5,949	1,220,806	2,048,689	1,226,754	12,283,528	22,898,281
2015	496,386	791,228	1,287,614	378,747	707,579	1,308,191	689,932	50,803	31,978	772,713	82,781	3,167,229	4,454,843
2016	2,610,179	840,166	3,450,345	2,561,899	57,970	276,912	1,074,154	49,210	135,265	1,258,629	184,475	4,155,410	7,605,755
2017	8,398,488	711,967	9,110,455	8,969,108	2,159,084	446,818	498,485	84,919	106,070	689,474	190,990	12,264,485	21,374,940
2018	27,001,508	4,722,072	31,723,580	26,415,126	10,152,937	3,426,112	1,528,573	0	295,987	1,824,560	295,987	41,818,734	73,542,314
2019	7,879,484	10,139,319	18,018,803	6,855,286	9,821,416	6,427,758	3,697,907	94,944	77,625	3,870,476	172,569	26,974,936	44,993,739
2020	1,666,590	5,236,504	6,903,093	1,985,995	2,400,601	3,969,450	3,828,378	398,252	32,566	4,259,196	430,818	12,615,242	19,518,335
2021	1,664,838	1,480,352	3,145,190	1,781,536	510,635	2,097,824	4,935,401	1,061,146	122,036	6,118,583	1,183,182	10,508,578	13,653,768
2022	2,364,356	3,790,289	6,154,644	2,042,407	507,621	1,325,892	5,561,038	1,286,906	973,254	7,821,198	2,260,161	11,697,118	17,851,763

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Table 4.–Page 4 of 7.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Southwest Section													
1988	63,123	126,429	189,552	54,902	13,022	47,336	527,857	983,149	93,761	1,604,766	1,076,910	1,720,026	1,909,578
1989	1,065,046	151,353	1,216,400	995,176	116,232	114,024	237,751	184,654	132,588	554,993	317,242	1,780,426	2,996,825
1990	1,913,378	519,396	2,432,774	1,355,820	844,748	453,020	321,271	35,923	28,703	385,898	64,627	3,039,487	5,472,261
1991	852,144	162,354	1,014,498	729,054	205,206	315,192	426,816	92,705	29,431	548,952	122,136	1,798,404	2,812,903
1992	455,592	197,141	652,733	450,610	152,337	318,610	234,214	271,288	71,806	577,308	343,094	1,498,865	2,151,599
1993	5,319,042	233,856	5,552,898	5,093,159	491,360	159,776	391,162	250,347	83,078	724,588	333,426	6,468,883	12,021,781
1994	205,248	120,526	325,774	131,513	70,316	60,387	145,271	128,502	30,425	304,198	158,927	566,415	892,189
1995	120,346	68,346	188,692	90,340	56,965	70,555	70,700	33,631	40,417	144,748	74,048	362,607	551,299
1996	246,178	45,960	292,138	256,475	94,050	157,219	244,579	37,145	65,925	347,649	103,070	855,393	1,147,531
1997	266,802	66,519	333,321	213,006	103,536	83,171	177,551	126,813	91,477	395,842	218,290	795,555	1,128,876
1998	246,825	37,362	284,187	238,094	61,697	55,920	62,834	22,731	88,062	173,627	110,794	529,338	813,525
1999	166,894	29,802	196,695	164,116	48,454	35,436	128,416	33,258	114,626	276,300	147,885	524,306	721,001
2000	2,615,840	69,070	2,684,909	2,419,820	188,130	115,947	142,146	55,606	95,872	293,624	151,478	3,017,521	5,702,430
2001	8,154,097	280,644	8,434,741	5,523,938	3,509,748	285,966	207,434	116,959	76,533	400,926	193,492	9,720,578	18,155,318
2002	1,061,205	909,203	1,970,408	418,408	1,748,987	1,664,261	406,037	84,295	68,353	558,684	152,648	4,390,339	6,360,747
2003	88,071	305,945	394,016	72,934	332,446	777,842	1,292,735	112,746	97,442	1,502,923	210,188	2,686,145	3,080,161
2004	347,749	313,925	661,675	314,865	60,108	296,223	911,185	1,172,736	148,387	2,232,309	1,321,124	2,903,506	3,565,180
2005	354,173	180,702	534,875	356,110	36,480	112,313	568,316	323,167	470,023	1,361,506	793,190	1,866,409	2,401,284
2006	6,694,012	644,842	7,338,854	7,738,641	273,010	143,202	490,931	103,423	626,835	1,221,189	730,258	9,376,043	16,714,897
2007	10,829,595	1,387,764	12,217,359	8,863,300	3,297,756	523,739	652,689	140,238	1,164,216	1,957,143	1,304,454	14,641,938	26,859,297
2008	5,098,706	3,793,789	8,892,495	1,861,183	5,288,108	4,681,527	724,469	128,834	262,700	1,116,003	391,534	12,946,821	21,839,316
2009	285,976	2,260,145	2,546,121	102,160	466,715	2,291,675	3,344,715	236,087	146,197	3,726,999	382,284	6,587,549	9,133,670
2010	33,588	3,224,059	3,257,647	25,004	38,410	478,290	2,406,615	875,775	165,546	3,447,935	1,041,320	3,989,639	7,247,286
2011	353,552	687,372	1,040,924	340,603	8,085	57,809	762,310	311,936	440,576	1,514,822	752,512	1,921,319	2,962,243
2012	645,851	699,003	1,344,853	686,600	29,532	42,218	563,027	29,026	533,241	1,125,293	562,267	1,883,644	3,228,497
2013	19,146,830	231,582	19,378,412	18,627,851	525,918	138,220	404,822	1,202	306,018	712,043	307,221	20,004,032	39,382,444
2014	5,430,037	355,607	5,785,644	5,574,293	2,725,194	702,567	459,245	14,092	112,983	586,320	127,075	9,588,375	15,374,019
2015	1,344,302	1,080,845	2,425,147	669,631	1,967,849	1,303,994	427,225	73,157	81,428	581,810	154,585	4,523,284	6,948,430
2016	55,649	1,322,223	1,377,872	41,337	391,927	1,306,211	933,779	57,200	30,239	1,021,218	87,440	2,760,694	4,138,566
2017	470,001	340,237	810,238	524,823	96,756	160,039	980,890	577,032	73,537	1,631,458	650,568	2,413,076	3,223,313
2018	21,405,752	145,746	21,551,498	20,446,193	747,297	102,982	327,351	318,270	145,030	790,652	463,301	22,087,125	43,638,623
2019	8,219,016	3,012,419	11,231,435	5,078,009	7,474,816	1,891,095	353,431	42,523	41,228	437,182	83,751	14,881,102	26,112,537
2020	531,500	1,828,282	2,359,782	85,326	1,932,956	2,689,216	1,082,630	84,656	215,186	1,382,473	299,843	6,089,971	8,449,753
2021	23,128	1,225,917	1,249,045	24,359	136,894	2,262,599	3,805,496	450,443	99,789	4,355,728	550,232	6,779,581	8,028,626
2022	94,628	574,761	669,389	82,038	21,752	257,934	2,392,802	2,422,466	274,198	5,089,466	2,696,664	5,451,190	6,120,579

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Table 4.—Page 5 of 7.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Westside Section													
1988	1,061,340	609,564	1,670,904	813,995	56,557	225,689	299,903	152,917	34,995	487,815	187,911	1,584,055	3,254,959
1989	3,524,137	575,421	4,099,558	2,795,272	511,726	281,926	310,426	140,507	32,847	483,780	173,354	4,072,705	8,172,263
1990	812,101	2,350,880	3,162,981	382,950	731,410	440,847	504,709	116,828	80,363	701,900	197,191	2,257,107	5,420,087
1991	194,385	618,513	812,898	132,827	149,488	508,753	469,956	37,582	28,418	535,955	65,999	1,327,023	2,139,920
1992	166,400	418,713	585,113	125,689	167,032	217,146	309,164	118,442	52,022	479,628	170,464	989,494	1,574,607
1993	456,509	672,382	1,128,892	321,688	174,692	167,492	310,509	55,444	118,219	484,172	173,663	1,148,044	2,276,936
1994	159,964	249,972	409,936	109,236	113,933	74,401	90,783	31,939	42,554	165,276	74,493	462,845	872,781
1995	176,445	420,188	596,633	111,562	172,051	168,153	143,674	15,255	95,326	254,255	110,581	706,021	1,302,654
1996	227,706	421,359	649,064	105,973	274,258	305,855	235,772	38,227	104,274	378,273	142,502	1,064,359	1,713,423
1997	221,313	682,839	904,152	80,398	291,293	418,773	306,582	68,679	65,311	440,573	133,990	1,231,037	2,135,189
1998	788,727	656,294	1,445,021	697,408	171,738	302,106	235,249	30,941	57,396	323,585	88,337	1,494,837	2,939,857
1999	826,007	306,353	1,132,359	540,656	435,353	260,753	209,545	43,440	110,712	363,697	154,152	1,600,459	2,732,818
2000	858,465	674,077	1,532,542	529,566	452,910	470,691	245,984	88,079	84,523	418,586	172,602	1,871,753	3,404,295
2001	1,839,855	868,407	2,708,261	1,455,511	690,971	406,784	420,026	61,894	84,039	565,960	145,933	3,119,226	5,827,488
2002	527,986	793,843	1,321,829	315,087	579,561	496,710	319,346	105,533	82,210	507,089	187,743	1,898,447	3,220,276
2003	571,636	1,624,911	2,196,547	527,992	312,981	883,158	567,484	115,435	125,670	808,588	241,104	2,532,719	4,729,266
2004	366,212	525,466	891,678	330,107	118,563	166,735	202,362	168,515	84,959	455,836	253,475	1,071,241	1,962,919
2005	1,277,192	612,815	1,890,007	1,010,942	367,497	312,320	188,151	58,649	121,367	368,167	180,016	2,058,926	3,948,933
2006	2,744,533	1,979,145	4,723,678	2,051,444	1,069,617	739,331	422,792	61,494	268,180	752,465	329,673	4,612,858	9,336,536
2007	729,222	1,230,371	1,959,593	346,632	1,003,280	638,950	367,034	55,294	215,939	638,267	271,233	2,627,128	4,586,721
2008	1,527,117	1,684,296	3,211,412	1,352,319	822,562	1,311,488	1,485,619	216,339	47,007	1,748,965	263,346	5,235,335	8,446,747
2009	1,042,634	1,637,049	2,679,683	806,951	522,028	571,426	686,317	329,998	64,150	1,080,465	394,148	2,980,870	5,660,553
2010	490,816	1,160,732	1,651,549	453,771	263,695	406,184	400,006	138,090	156,607	694,703	294,697	1,818,354	3,469,902
2011	837,360	607,315	1,444,675	967,377	65,408	99,787	206,239	42,421	126,346	375,006	168,767	1,507,578	2,952,253
2012	1,281,895	616,216	1,898,111	1,268,644	714,559	202,862	147,162	48,506	91,836	287,504	140,342	2,473,570	4,371,681
2013	1,862,272	752,124	2,614,396	1,499,627	953,270	487,449	172,525	34,084	53,916	260,524	87,999	3,200,870	5,815,267
2014	487,464	1,304,612	1,792,077	201,519	648,167	728,604	550,321	66,293	39,493	656,107	105,786	2,234,397	4,026,474
2015	777,344	422,111	1,199,455	653,916	130,534	204,362	171,601	36,078	24,244	231,923	60,322	1,220,735	2,420,190
2016	1,234,936	1,171,040	2,405,977	860,550	268,739	246,679	159,243	16,803	48,252	224,298	65,055	1,600,266	4,006,243
2017	1,443,313	1,200,544	2,643,857	986,566	327,892	293,510	239,390	20,366	50,714	310,470	71,080	1,918,439	4,562,296
2018	1,255,148	1,872,830	3,127,979	710,812	846,928	954,505	545,511	55,485	36,146	637,141	91,630	3,149,386	6,277,364
2019	203,700	1,862,373	2,066,073	115,788	282,172	667,139	355,886	30,670	17,617	404,173	48,287	1,469,271	3,535,344
2020	215,908	1,227,762	1,443,669	200,744	119,718	367,206	395,492	62,377	16,796	474,665	79,173	1,162,333	2,606,002
2021	554,210	498,680	1,052,890	437,394	360,004	130,098	186,382	19,027	22,541	227,951	41,568	1,155,447	2,208,336
2022	164,791	1,263,065	1,427,856	138,046	78,483	128,190	232,008	20,729	66,453	319,189	87,181	703,599	2,131,455

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Table 4.–Page 6 of 7.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
North Mainland Section													
1988	3,803,156	879,977	4,683,133	3,432,230	168,176	462,752	1,198,267	750,791	102,427	2,051,485	853,218	6,114,643	10,797,776
1989	4,016,025	1,469,545	5,485,570	3,919,797	298,371	362,753	1,191,628	190,879	145,051	1,527,557	335,929	6,108,478	11,594,048
1990	6,781,395	3,268,014	10,049,408	5,758,673	2,139,194	762,964	1,462,653	107,265	127,047	1,696,965	234,312	10,357,795	20,407,203
1991	776,386	1,131,246	1,907,632	613,823	617,043	542,871	964,308	75,507	119,723	1,159,537	195,229	2,933,274	4,840,906
1992	2,403,117	905,642	3,308,759	2,295,110	226,638	397,349	779,631	116,660	92,797	989,087	209,456	3,908,184	7,216,943
1993	3,807,150	1,019,024	4,826,174	3,209,919	150,127	417,917	820,503	155,194	182,009	1,157,706	337,203	4,935,669	9,761,843
1994	3,022,638	533,479	3,556,117	2,227,033	543,819	232,747	359,490	140,532	171,928	671,950	312,460	3,675,549	7,231,666
1995	626,005	246,196	872,201	675,062	133,783	61,099	150,463	35,974	66,013	252,450	101,987	1,122,394	1,994,595
1996	4,438,753	390,440	4,829,194	4,296,556	340,297	217,540	340,577	32,850	186,028	559,455	218,878	5,413,848	10,243,042
1997	2,425,735	265,381	2,691,116	2,377,844	506,858	344,825	657,422	56,645	192,724	906,791	249,369	4,136,318	6,827,434
1998	4,210,092	250,939	4,461,032	3,952,802	348,370	304,279	325,496	8,338	152,246	486,079	160,583	5,091,530	9,552,562
1999	4,347,808	272,095	4,619,903	4,444,484	564,047	212,151	606,664	48,794	113,979	769,437	162,773	5,990,119	10,610,022
2000	4,636,178	547,394	5,183,572	4,809,570	1,397,012	554,199	346,114	64,494	60,391	470,999	124,885	7,231,781	12,415,353
2001	5,735,373	583,029	6,318,402	6,145,816	494,951	450,609	398,943	20,877	177,249	597,069	198,126	7,688,445	14,006,847
2002	7,338,127	669,608	8,007,736	7,552,193	2,613,229	982,789	222,027	9,267	27,260	258,554	36,527	11,406,765	19,414,500
2003	1,627,823	1,011,730	2,639,553	1,604,818	324,666	254,474	228,488	23,124	56,380	307,992	79,504	2,491,951	5,131,504
2004	4,678,110	290,338	4,968,448	3,956,748	285,348	398,469	428,603	28,338	60,176	517,118	88,515	5,157,683	10,126,131
2005	5,990,418	606,567	6,596,986	5,479,363	571,824	187,772	247,463	62,867	25,850	336,180	88,717	6,575,139	13,172,124
2006	5,911,611	1,929,966	7,841,577	6,455,232	1,558,585	805,778	165,912	124,047	54,467	344,426	178,514	9,164,022	17,005,599
2007	1,121,754	244,836	1,366,589	1,292,892	77,252	163,159	189,189	33,113	103,553	325,855	136,666	1,859,158	3,225,747
2008	2,036,522	109,041	2,145,562	2,166,514	25,509	78,678	186,215	11,900	93,598	291,713	105,498	2,562,414	4,707,976
2009	2,284,266	185,968	2,470,233	1,994,905	69,111	183,310	389,268	0	186,933	576,200	186,932	2,823,526	5,293,759
2010	2,059,066	286,253	2,345,319	2,100,879	214,400	379,881	312,627	40,634	46,065	399,326	86,699	3,094,486	5,439,805
2011	7,474,188	158,917	7,633,106	7,445,447	175,579	276,759	464,112	65,350	22,954	552,415	88,304	8,450,200	16,083,305
2012	2,375,150	58,383	2,433,533	2,411,334	30,386	75,424	196,017	252,242	34,533	482,792	286,775	2,999,936	5,433,468
2013	3,803,359	434,824	4,238,183	4,005,810	274,410	174,007	135,581	53,508	106,694	295,783	160,201	4,750,009	8,988,192
2014	1,778,893	59,308	1,838,201	1,533,742	50,265	99,131	128,835	44,522	28,568	201,925	73,090	1,885,064	3,723,265
2015	3,404,003	307,366	3,711,369	3,365,750	557,304	378,627	243,381	175,976	142,592	561,949	318,568	4,863,629	8,574,998
2016	5,684,804	758,341	6,545,262	4,659,514	462,114	406,352	355,069	48,277	43,868	447,213	92,145	5,975,193	12,520,455
2017	3,242,981	143,940	3,386,921	3,331,603	123,092	163,424	318,922	216,294	30,786	566,001	247,079	4,184,121	7,571,042
2018	3,898,509	967,180	4,865,689	5,876,517	579,729	287,351	333,322	205,947	103,456	642,724	309,403	7,386,322	12,252,011
2019	2,446,306	662,398	3,108,704	2,330,609	1,001,705	784,722	396,564	149,292	68,171	614,026	217,462	4,731,061	7,839,766
2020	388,400	326,047	714,447	448,841	267,228	510,961	271,115	11,575	70,546	353,236	82,121	1,580,265	2,294,712
2021						no survey							
2022	2,277,462	207,439	2,484,900	2,313,238	24,092	119,119	437,441	190,234	37,212	664,886	227,445	3,121,336	5,606,236

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Table 4.—Page 7 of 7.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
KODIAK DISTRICT TOTALS													
1988	9,716,233	3,127,454	12,843,687	8,373,893	1,355,868	2,205,809	3,767,430	3,282,350	511,970	7,561,748	3,794,319	19,497,316	32,341,005
1989	16,923,788	11,293,203	28,216,991	15,156,047	3,770,446	4,410,563	5,912,386	3,086,548	1,120,997	10,119,929	4,207,544	33,456,988	61,673,977
1990	14,092,420	17,460,502	31,552,920	11,495,407	6,063,178	5,419,629	7,877,271	2,066,900	766,684	10,710,856	2,833,585	33,689,070	65,241,989
1991	12,789,643	9,075,616	21,865,259	10,944,615	3,573,702	4,203,898	6,374,494	3,617,673	901,495	10,893,661	4,519,167	29,615,875	51,481,134
1992	8,794,383	6,571,172	15,365,554	7,722,745	3,056,264	3,057,736	4,587,303	1,337,296	751,733	6,676,333	2,089,030	20,513,076	35,878,631
1993	17,065,620	5,448,469	22,514,090	15,288,845	1,754,329	2,256,717	3,678,579	950,625	946,318	5,575,524	1,896,945	24,875,415	47,389,505
1994	6,031,727	3,429,260	9,460,987	4,557,555	1,695,008	1,268,824	2,380,016	616,387	604,382	3,600,785	1,220,770	11,122,173	20,583,160
1995	12,181,255	2,940,949	15,122,205	11,237,618	2,102,245	1,137,462	1,302,640	203,351	500,826	2,006,816	704,176	16,484,141	31,606,345
1996	11,840,055	4,905,624	16,745,679	10,792,782	4,931,667	2,801,791	2,315,437	309,396	701,938	3,326,771	1,011,335	21,853,010	38,598,689
1997	4,711,278	3,056,063	7,767,342	4,419,278	2,931,708	2,984,507	2,625,494	433,579	545,522	3,604,596	979,100	13,940,089	21,707,431
1998	13,106,973	5,908,247	19,015,220	12,125,529	4,587,678	5,341,845	4,556,791	614,615	854,776	6,026,178	1,469,389	28,081,231	47,096,450
1999	17,127,904	3,079,002	20,206,903	16,080,556	1,803,518	2,198,514	3,797,252	787,822	1,164,049	5,749,124	1,951,873	25,831,713	46,038,617
2000	22,807,925	6,500,724	29,308,647	22,441,166	5,071,273	2,617,572	3,447,366	1,009,174	1,446,318	5,902,859	2,455,493	36,032,872	65,341,518
2001	67,684,367	12,641,936	80,326,301	59,104,807	15,258,279	5,805,251	4,016,443	477,954	1,893,768	6,388,165	2,371,721	86,556,503	166,882,802
2002	29,445,355	12,619,823	42,065,179	21,758,266	20,723,774	11,433,187	4,691,172	715,586	1,418,009	6,824,766	2,133,595	60,739,992	102,805,170
2003	6,698,247	13,944,111	20,642,358	7,120,430	9,173,617	19,591,707	11,100,919	920,398	897,902	12,919,218	1,818,299	48,804,973	69,447,331
2004	16,855,205	8,257,263	25,112,470	15,121,353	3,222,767	6,516,915	14,002,316	3,498,904	704,028	18,205,249	4,202,935	43,066,283	68,178,753
2005	16,778,031	8,357,373	25,135,405	16,314,129	2,921,683	3,774,482	12,126,602	4,385,134	1,687,341	18,199,077	6,072,476	41,209,370	66,344,774
2006	70,708,601	8,576,220	79,284,821	68,154,111	6,984,617	3,831,904	7,908,365	1,177,395	3,383,939	12,469,697	4,561,332	91,440,332	170,725,153
2007	71,704,109	9,704,955	81,409,063	45,135,405	40,401,981	7,441,889	7,897,879	623,054	3,402,496	11,923,430	4,025,551	104,902,705	186,311,767
2008	25,479,459	24,454,630	49,934,088	18,964,472	14,260,440	24,223,948	8,083,651	701,704	1,666,554	10,451,908	2,368,257	67,900,769	117,834,856
2009	10,213,444	15,892,974	26,106,417	6,821,250	7,980,215	12,416,489	22,617,520	4,057,018	760,388	27,434,927	4,817,407	54,652,881	80,759,298
2010	10,204,871	16,270,608	26,475,482	9,102,319	2,694,842	5,715,768	19,794,444	6,126,810	2,385,514	28,306,767	8,512,324	45,819,698	72,295,178
2011	16,994,355	5,421,969	22,416,325	17,151,519	633,435	1,655,171	8,527,981	1,928,294	3,602,109	14,058,383	5,530,403	33,498,507	55,914,830
2012	13,704,365	2,594,702	16,299,067	13,312,220	2,113,511	1,288,695	6,470,645	933,050	3,832,105	11,235,800	4,765,156	27,950,228	44,249,293
2013	94,852,661	3,235,667	98,088,328	90,549,050	5,414,736	1,834,543	2,535,835	170,569	1,617,753	4,324,158	1,788,323	102,122,486	200,210,816
2014	41,875,938	10,573,683	52,449,623	31,336,789	16,762,550	5,742,355	2,898,559	155,906	1,809,063	4,863,526	1,964,966	58,705,221	111,154,842
2015	7,906,379	7,738,562	15,644,942	6,739,791	6,755,727	7,192,554	2,366,542	435,939	389,081	3,191,561	825,019	23,879,631	39,524,572
2016	11,537,355	14,345,588	25,985,061	9,940,500	3,451,250	9,343,758	8,058,505	497,430	478,110	9,034,045	975,541	31,769,554	57,754,615
2017	24,261,166	7,886,767	32,147,935	23,715,619	3,936,585	3,431,380	6,678,632	1,688,966	525,368	8,892,965	2,214,334	39,976,552	72,124,485
2018	106,148,383	15,773,702	121,922,087	103,893,663	17,075,258	7,559,121	7,389,112	1,711,496	1,510,989	10,611,595	3,222,486	139,139,638	261,061,723
2019	62,649,947	38,748,568	101,398,514	39,044,070	55,193,639	18,386,582	8,542,778	428,001	697,124	9,667,901	1,125,123	122,292,189	223,690,705
2020	7,000,604	38,963,207	45,963,809	6,087,543	13,450,772	28,177,050	13,296,779	727,066	365,953	14,389,799	1,093,020	62,105,162	108,068,971
2021	3,306,590	19,537,295	22,843,885	3,467,532	2,651,750	15,273,144	30,178,332	2,828,454	454,073	33,460,860	3,282,526	54,853,288	77,697,172
2022	7,040,435	21,436,042	28,476,476	6,285,556	866,236	3,919,332	25,185,770	12,431,756	2,809,508	40,427,031	15,241,263	51,537,849	80,014,326

Table 5.—Number of male red king and male Tanner crabs by management unit, crab cohort, and shell condition captured in the 2022 large-mesh bottom trawl survey.

Cohort	Definition	Shell Condition				Total
		Soft/ New pliable	New	Old	Very old/ Very very old	
Kodiak Area red king crab						
Prerecruit IV	<95 mm CL	0	0	0	0	0
Prerecruit III	95–112 mm CL	0	3	0	0	3
Prerecruit II	113–130 mm CL	0	5	0	0	5
Prerecruit I	>130 mm CL and sublegal	0	9	0	0	9
Recruit	<164 mm CL and legal soft/new	0	7	–	–	7
Postrecruit	≥164 mm CL or legal and not soft/new	0	19	20	7	46
Total		0	43	20	7	70
Alaska Peninsula Area red king crab						
Prerecruit IV	<79 mm CL	0	0	0	0	0
Prerecruit III	79–95 mm CL	0	0	0	0	0
Prerecruit II	96–115 mm CL	0	0	0	0	0
Prerecruit I	>115 mm CL and sublegal	0	1	0	0	1
Recruit	<152 mm CL and legal soft/new	0	1	–	–	1
Postrecruit	≥152 mm CL or legal and not soft/new	0	19	0	3	22
Total		0	21	0	3	24
Kodiak District Tanner crab						
Prerecruit IV	<70 mm CW	480	1,754	0	2	2,236
Prerecruit III	70–91 mm CW	27	244	69	72	413
Prerecruit II	92–114 mm CW	48	313	942	629	1,932
Prerecruit I	>114 mm CW and sublegal	1,539	5,403	6,742	1,271	14,954
Recruit	<165 mm CW and legal soft/new	3,083	8,204	–	–	11,287
Postrecruit	≥165 mm CW or legal and not soft/new	19	56	1,189	270	1,534
Total		5,196	15,974	8,942	2,244	32,356
Mature only	>114 mm CW	4,641	13,664	7,931	1,540	27,776
Chignik District Tanner crab						
Prerecruit IV	<70 mm CW	38	336	14	0	388
Prerecruit III	70–91 mm CW	2	385	10	20	417
Prerecruit II	92–114 mm CW	2	582	123	86	793
Prerecruit I	>114 mm CW and sublegal	1	772	677	154	1,603
Recruit	<165 mm CW and legal soft/new	7	741	–	–	748
Postrecruit	≥165 mm CW or legal and not soft/new	0	6	138	12	156
Total		50	2,821	962	272	4,105
Mature only	>114 mm CW	8	1,518	815	166	2,507

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Table 5.–Page 2 of 2.

Cohort	Definition	Shell Condition				Total
		Soft/ New pliable	New	Old	Very old/ Very very old	
South Peninsula District Tanner crab						
Prerecruit IV	<70 mm CW	119	692	0	0	811
Prerecruit III	70–91 mm CW	20	539	27	40	625
Prerecruit II	92–114 mm CW	6	1,287	175	345	1,813
Prerecruit I	>114 mm CW and sublegal	13	2,903	1,166	704	4,785
Recruit	<165 mm CW and legal soft/new	5	2,258	–	–	2,263
Postrecruit	≥165 mm CW or legal and not soft/new	1	20	324	75	421
Total		164	7,698	1,692	1,164	10,719
Mature only	>114 mm CW	19	5,181	1,490	779	7,469
Eastern Aleutian District Tanner crab						
Prerecruit IV	<70 mm CW	63	755	1	0	819
Prerecruit III	70–91 mm CW	6	724	48	10	788
Prerecruit II	92–114 mm CW	1	636	116	73	827
Prerecruit I	>114 mm CW and sublegal	6	651	246	74	977
Recruit	<165 mm CW and legal soft/new	0	154	–	–	154
Postrecruit	≥165 mm CW or legal and not soft/new	0	0	98	7	104
Total		76	2,920	509	164	3,669
Mature only	>114 mm CW	6	805	343	81	1,235

Note: En dashes indicate not applicable.

Table 6.—Red king crab abundance estimates from large-mesh bottom trawl surveys in the Kodiak and Alaska Peninsula Areas, 2013–2022.

Year	Females			Prerecruit males				Recruit males	Postrecruit males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	IV	III	II	I					
KODIAK AREA												
Northeast District												
2013	1,519	1,182	2,701	270	0	0	0	0	0	0	270	2,971
2014	365	0	365	0	0	0	0	0	0	0	0	365
2015	0	0	0	0	0	0	0	0	365	365	365	365
2016	0	7,154	7,154	0	0	0	0	0	365	365	365	7,519
2017	0	3,281	3,281	0	0	0	2,187	3,990	3,625	7,617	9,804	13,085
2018	196	4,452	4,648	0	775	0	709	709	4,522	5,232	6,716	11,364
2019	0	7,803	7,803	0	709	0	0	0	2,903	2,903	3,612	11,415
2020	2,027	1,549	3,576	0	2,027	0	486	1,549	4,542	6,091	8,604	12,180
2021	8,456	31,950	40,407	709	5,134	10,846	775	775	5,134	5,909	23,372	63,779
2022	217	8,160	8,378	0	887	413	668	392	0	392	2,360	10,738
Southeast District												
2013	0	0	0	4,232	0	0	0	0	0	0	4,232	4,232
2014	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	1,234	0	902	0	0	0	2,136	2,136
2017	0	2,387	2,387	0	0	0	0	902	2,971	3,872	3,872	6,261
2018	1,367	2,734	4,101	0	2,734	0	0	2,734	1,367	4,101	6,836	10,937
2019	0	0	0	0	0	0	0	0	2,392	2,392	2,392	2,392
2020	0	0	0	0	0	0	0	0	0	0	0	0
2021	2,079	1,196	3,275	668	0	0	1,196	0	0	0	1,864	5,140
2022	0	743	743	0	0	743	0	0	3,564	3,564	4,306	5,049
Southwest District												
2013	19,763	135,960	155,724	1,551	12,884	50,872	30,011	8,948	12,100	21,050	116,370	272,093
2014	4,854	160,532	165,386	4,367	3,798	17,750	47,857	144,423	59,190	203,614	277,383	442,768
2015	8,940	162,793	171,733	3,190	6,863	7,242	22,189	111,896	219,653	331,552	371,037	542,770
2016	124,312	79,933	204,246	66,445	86,292	10,107	2,881	11,770	184,636	196,405	362,129	566,376
2017	1,241	41,734	42,975	1,074	5,046	42,730	23,241	9,404	116,562	125,967	198,056	241,031
2018	8,633	178,471	187,103	2,855	11,321	30,806	41,829	17,416	82,980	100,393	187,204	374,308
2019	2,336	106,965	109,302	0	0	1,929	15,719	51,032	105,081	156,112	173,760	283,063
2020	0	16,429	16,429	714	892	0	1,595	18,631	67,759	86,390	89,591	106,020
2021	56,693	32,445	89,138	33,418	11,362	5,631	5,754	2,313	37,708	40,021	96,186	185,324
2022	2,425	19,548	21,972	0	1,001	2,034	5,477	3,567	32,486	36,053	44,563	66,533

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Table 6.—Page 2 of 5.

	Females			Prerecruit males				Recruit males	Postrecruit males	Legal males	Total males	Total crab
Year	Juvenile	Mature	Total	IV	III	II	I					
Shelikof District												
2013	226	0	226	750	226	0	0	0	0	0	976	1,202
2014	120	0	120	612	0	0	0	0	0	0	612	732
2015	774	0	774	0	0	149	0	0	297	297	446	1,220
2016	4,747	0	4,747	0	0	0	0	0	0	0	0	4,747
2017	614	1,605	2,219	922	0	447	0	0	1,841	1,841	3,210	5,428
2018	0	0	0	0	0	0	0	149	0	149	149	149
2019	475	1,426	1,902	773	0	0	0	475	475	951	1,724	3,626
2020	661	0	661	186	186	372	0	0	0	0	744	1,405
2021	475	0	475	475	0	0	0	0	0	0	475	951
2022	0	0	0	0	0	0	0	0	0	0	0	0
KODIAK AREA TOTAL												
2013	21,508	137,142	158,651	6,803	13,110	50,872	30,011	8,948	12,100	21,050	121,848	280,498
2014	5,339	160,532	165,871	4,979	3,798	17,750	47,857	144,423	59,190	203,614	277,995	443,865
2015	9,714	162,793	172,507	3,190	6,863	7,391	22,189	111,896	220,315	332,214	371,848	544,355
2016	129,059	87,087	216,147	66,445	87,526	10,107	3,783	11,770	185,001	196,770	364,630	580,778
2017	1,855	49,007	50,862	1,996	5,046	43,177	25,428	14,296	124,999	139,297	214,942	265,805
2018	10,196	185,657	195,852	2,855	14,830	30,806	42,538	21,008	88,869	109,875	200,905	396,758
2019	2,811	116,194	119,007	773	709	1,929	15,719	51,507	110,851	162,358	181,488	300,496
2020	2,688	17,978	20,666	900	3,105	372	2,081	20,180	72,301	92,481	98,939	119,605
2021	67,703	65,591	133,295	35,270	16,496	16,477	7,725	3,088	42,842	45,930	121,897	255,194
2022	2,642	28,451	31,093	0	1,888	3,190	6,145	3,959	36,050	40,009	51,229	82,320
ALASKA PENINSULA AREA												
Morzhovoi Bay												
2013	0	0	0	0	0	0	0	892	24,095	24,988	24,988	24,988
2014	0	0	0	0	0	0	793	0	34,110	34,110	34,903	34,903
2015	4,666	47,441	52,108	778	7,000	4,666	4,666	3,889	27,221	31,109	48,219	100,327
2016	0	884	884	0	0	0	0	0	1,598	1,598	1,598	2,482
2017	0	0	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	949	949	949	949
2019	0	0	0	0	0	0	0	0	834	834	834	834
2020	0	14,946	14,946	0	0	0	1,172	1,768	884	2,652	3,824	18,769
2021	0	0	0	714	0	714	0	0	2,054	2,054	3,482	3,482
2022	0	0	0	0	0	0	0	0	714	714	714	714

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Table 6.—Page 3 of 5.

	Females			Prerecruit males				Recruit males	Postrecruit males	Legal males	Total males	Total crab
Year	Juvenile	Mature	Total	IV	III	II	I					
Cold Bay/Belkofski Bay												
2013	714	230	944	2,431	0	0	0	0	0	0	2,431	3,375
2014	4,703	5,815	10,518	4,299	0	0	0	230	0	230	4,529	15,048
2015	17,894	2,627	20,521	10,438	10,083	1,491	0	1,136	1,491	2,627	24,639	45,161
2016	49,586	24,851	74,437	2,216	39,894	32,575	4,433	2,216	7,897	10,114	89,232	163,667
2017	0	957	957	0	0	0	161	0	161	161	322	1,279
2018	0	0	0	0	0	0	0	1,771	0	1,771	1,771	1,771
2019	1,491	0	1,491	0	0	0	0	0	0	0	0	1,491
2020	4,018	6,654	10,672	3,939	1,914	0	0	0	4,557	4,557	10,410	21,083
2021	1,491	904	2,395	0	2,395	1,491	0	0	0	0	3,886	6,282
2022	0	2,242	2,242	0	0	0	0	0	0	0	0	2,242
Pavlof Bay/Volcano Bay												
2013	6,258	55,542	61,801	3,911	3,129	24,251	46,937	24,251	19,920	44,170	122,399	184,199
2014	10,952	109,569	120,521	4,694	4,694	0	8,108	0	13,321	13,321	30,816	151,338
2015	0	4,337	4,337	3,530	0	0	5,204	9,541	14,827	24,367	33,102	37,438
2016	3,468	10,412	13,880	0	1,689	2,417	0	2,580	17,026	19,606	23,711	37,590
2017	1,961	20,453	22,414	0	0	1,565	2,347	3,384	84,098	87,482	91,393	113,807
2018	2,966	11,204	14,170	919	0	14,369	139,131	49,642	180,925	230,567	384,986	399,155
2019	2,765	93,549	96,314	0	0	1,239	8,692	11,346	43,742	55,090	65,021	161,336
2020	1,048	68,598	69,646	0	2,522	2,522	0	5,182	73,014	78,196	83,239	152,885
2021	0	0	0	0	0	845	845	7,601	234,608	242,209	243,898	243,898
2022	0	18,433	18,433	0	0	0	782	867	18,994	19,861	20,643	39,077
Beaver Bay/Balboa Bay/Unga Strait												
2013	0	0	0	0	0	0	0	0	2,242	2,242	2,242	2,242
2014	0	0	0	0	618	0	0	0	1,863	1,863	2,481	2,481
2015	0	0	0	0	0	0	0	0	564	564	564	564
2016	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	18,292	18,292	0	0	1,495	747	6,163	0	6,163	8,405	26,697
2018	0	8,589	8,589	0	0	0	0	2,989	4,852	7,841	7,841	16,429
2019	0	747	747	0	0	0	0	0	2,989	2,989	2,989	3,737
2020	0	0	0	0	0	0	0	0	0	0	0	0
2021	0	368	368	0	0	0	0	0	0	0	0	368
2022	0	0	0	0	0	0	0	0	0	0	0	0

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Table 6.–Page 4 of 5.

	Females			Prerecruit males				Recruit males	Postrecruit males	Legal males	Total males	Total crab
Year	Juvenile	Mature	Total	IV	III	II	I					
Stepovak Bay												
2013	0	0	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0
2019	0	1,033	1,033	0	0	0	0	0	0	0	0	1,033
2020	886	1,495	2,381	0	0	0	0	0	1,311	1,311	1,311	3,692
2021	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0
West Nagai Strait												
2013	3,723	0	3,723	0	0	0	0	1,241	0	1,241	1,241	4,964
2014	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0
2019	0	1,009	1,009	0	0	0	0	0	0	0	0	1,009
2020	0	0	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0
Ivanof Bay												
2013	0	0	0	917	0	0	0	917	2,813	3,731	4,648	4,648
2014	0	615	615	0	0	0	0	0	0	0	0	615
2015	0	6,015	6,015	0	0	273	820	0	0	0	1,094	7,109
2016	246	2,388	2,634	0	0	0	0	0	0	0	0	2,634
2017	0	2,752	2,752	0	0	738	699	2,953	984	3,937	5,621	8,373
2018	0	0	0	0	0	246	0	984	1,969	2,953	3,199	3,199
2019	0	0	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	1,650	1,650	1,650	1,650
2021	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0

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Table 6.—Page 5 of 5.

Year	Females			Prerecruit males				Recruit males	Postrecruit males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	IV	III	II	I					
Chignik Bay/Castle Bay												
2013	1,466	0	1,466	1,759	0	0	1,092	0	0	0	2,851	4,317
2014	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	3,072	3,072	0	0	0	366	0	3,353	3,353	3,719	6,792
2017	1,747	38,431	40,178	0	2,620	4,367	2,620	3,494	2,757	6,251	16,732	56,909
2018	0	3,390	3,390	0	0	0	424	0	0	0	424	3,814
2019	0	2,543	2,543	0	0	0	0	0	758	758	758	3,301
2020	0	326	326	0	0	0	0	0	0	0	0	326
2021	0	0	0	0	0	326	0	0	326	326	651	651
2022	0	0	0	0	0	0	0	0	0	0	0	0
Kujulik Bay												
2013	0	0	0	0	0	0	0	0	0	0	0	0
2014	3,190	456	3,646	456	0	0	456	0	0	0	911	4,557
2015	28,287	208,627	236,913	0	13,671	53,520	13,671	13,671	57,418	71,089	151,951	388,864
2016	0	0	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	456	0	0	456	0	456	911	911
2018	0	0	0	0	0	0	0	0	0	0	0	0
2019	0	0	0	0	0	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0	0	0	0	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0
ALASKA PENINSULA AREA TOTAL												
2013	12,161	55,772	67,934	9,018	3,129	24,251	48,029	27,301	49,070	76,372	160,800	228,733
2014	18,845	116,455	135,300	9,449	5,312	0	9,357	230	49,294	49,524	73,640	208,942
2015	50,847	269,047	319,894	14,746	30,754	59,950	24,361	28,237	101,521	129,756	259,569	579,463
2016	53,300	41,607	94,907	2,216	41,583	34,992	4,799	4,796	29,874	34,671	118,260	213,165
2017	3,708	80,885	84,593	0	3,076	8,165	6,574	16,450	88,000	104,450	123,384	207,976
2018	2,966	23,183	26,149	919	0	14,615	139,555	55,386	188,695	244,081	399,170	425,317
2019	4,256	98,881	103,137	0	0	1,239	8,692	11,346	48,323	59,671	69,602	172,741
2020	5,952	92,019	97,971	3,939	4,436	2,522	1,172	6,950	81,416	88,366	100,434	198,405
2021	1,491	1,272	2,763	714	2,395	3,376	845	7,601	236,988	244,589	251,917	254,681
2022	0	20,675	20,675	0	0	0	782	867	19,708	20,575	21,357	42,033

Note: Definitions of categories used to distinguish juvenile and mature females; prerecruit males IV, III, II, and I; and recruit and postrecruit males are found in Appendix A1 and differ by management area.

Table 7.—Predominant species by weight in the Chignik Tanner crab District large-mesh bottom trawl survey, 2022.

Common name	Species name	% of catch by weight
Arrowtooth flounder	<i>Atheresthes stomias</i>	30.4
Walleye pollock	<i>Gadus chalcogrammus</i>	24.5
Flathead sole	<i>Hippoglossoides elassodon</i>	16.1
Tanner crab	<i>Chionoecetes bairdi</i>	7.7
Yellowfin sole	<i>Limanda aspera</i>	3.0
Big skate	<i>Raja binoculata</i>	2.3
Pacific halibut	<i>Hippoglossus stenolepis</i>	2.3
Pacific cod	<i>Gadus macrocephalus</i>	2.1
Anemone	Order: Actinaria	1.8
Dungeness crab	<i>Metacarcinus magister</i>	1.7
Longnose skate	<i>Raja rhina</i>	1.1
Rex sole	<i>Glyptocephalus zachirus</i>	1.0
Sablefish	<i>Anoplopoma fimbria</i>	0.7
Salmon shark	<i>Lamna ditropis</i>	0.7
Aleutian skate	<i>Bathyraja aleutica</i>	0.6
English sole	<i>Parophrys vetulus</i>	0.4
Rougheye rockfish	<i>Sebastes aleutianus</i>	0.3
Plain sculpin	<i>Myoxocephalus jaok</i>	0.3
Northern rock sole	<i>Lepidopsetta polyxystra</i>	0.3
Giant wrymouth	<i>Cryptacanthodes giganteus</i>	0.3
All others	(59 species)	2.3
Total		100.0

Table 8.—Tanner crab abundance estimates from large-mesh bottom trawl surveys in the Chignik District, 1989–2022.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
CHIGNIK DISTRICT													
Ivanof Bay													
1989	182,026	44,786	226,813	160,835	26,226	140,697	129,929	60,581	4,430	194,939	65,010	522,697	749,510
1990	358,513	8,403	366,916	467,357	3,126	19,335	44,189	19,440	0	63,629	19,440	553,448	920,364
1991	275,037	1,476	276,513	302,533	0	0	1,723	7,136	738	9,597	7,874	312,130	588,643
1992	22,894	2,215	25,109	30,505	1,969	984	1,230	4,100	2,628	7,958	6,728	41,416	66,525
1993	24,833	1,929	26,762	19,180	37,978	9,880	3,055	0	699	3,754	699	70,791	97,554
1994	22,820	12,094	34,914	6,775	22,612	12,866	3,832	984	246	5,062	1,230	47,315	82,230
1995	40,024	3,832	43,857	46,548	2,848	492	2,461	2,707	492	5,660	3,199	55,548	99,405
1996	63,771	699	64,469	65,884	41,649	6,890	7,871	8,754	0	16,625	8,754	131,049	195,518
1997	22,656	4,675	27,331	29,633	3,618	7,770	4,183	3,691	738	8,612	4,429	49,633	76,965
1998	22,035	1,191	23,226	21,497	1,864	246	1,230	1,723	0	2,953	1,723	26,560	49,785
1999	42,136	3,652	45,787	44,603	492	1,476	9,906	10,089	945	20,940	11,034	67,511	113,299
2000	457,296	15,178	472,474	503,823	37,727	25,900	15,503	10,089	1,191	26,783	11,280	594,234	1,066,709
2001	570,001	85,641	655,642	403,999	296,452	64,697	41,587	2,848	15,299	59,734	18,147	824,882	1,480,524
2002	263,138	45,073	308,211	93,656	335,981	326,874	94,639	3,513	9,229	107,381	12,742	863,893	1,172,104
2003	25,199	240,133	265,331	3,168	41,275	91,790	106,903	25,048	7,990	139,941	33,038	276,174	541,505
2004	22,389	447,394	469,783	28,951	19,735	179,096	280,796	69,766	36,848	387,410	106,614	615,193	1,084,975
2005	339,705	898,151	1,237,856	495,062	40,357	83,921	218,668	56,909	51,656	327,233	108,564	946,573	2,184,429
2006	5,260,959	308,560	5,569,519	6,611,859	1,126,264	82,239	184,384	53,504	159,460	397,348	212,965	8,217,711	13,787,230
2007	2,404,530	177,376	2,581,906	2,320,990	1,640,664	300,376	64,073	16,935	29,032	110,040	45,967	4,372,070	6,953,976
2008	892,396	754,345	1,646,741	372,456	1,213,676	851,002	189,965	12,249	16,332	218,546	28,581	2,655,681	4,302,422
2009	37,251	982,209	1,019,460	46,515	290,604	1,099,891	1,011,168	46,640	34,012	1,091,820	80,652	2,528,831	3,548,291
2010	9,536	379,027	388,563	14,281	10,052	180,469	847,469	307,864	179,281	1,334,614	487,145	1,539,416	1,927,979
2011	99,210	137,350	236,560	119,792	0	28,130	313,171	228,661	250,321	792,153	478,981	940,074	1,176,634
2012	120,616	36,960	157,577	151,570	3,231	7,300	53,250	6,836	22,717	82,803	29,552	244,904	402,480
2013	1,578,022	124,172	1,702,194	1,844,153	16,435	12,578	429,088	0	438,908	867,996	438,908	2,741,162	4,443,355
2014	162,697	63,152	225,849	106,270	161,706	201,521	682,703	0	734,287	1,416,990	734,287	1,886,488	2,112,337
2015	687,142	1,251,419	1,938,561	276,203	539,086	450,957	460,557	21,702	220,709	702,968	242,411	1,969,214	3,907,775
2016	15,950	19,149	35,098	5,791	20,743	314,860	270,305	24,331	628	295,264	24,959	636,659	671,757
2017	270,629	328,652	599,281	268,460	32,240	43,972	87,637	43,064	7,455	138,156	50,519	482,829	1,082,110
2018	856,622	72,797	929,419	852,945	119,645	36,010	34,081	10,841	3,079	48,001	13,921	1,056,602	1,986,021
2019	845,485	1,341,067	2,186,552	274,085	1,229,439	487,318	87,182	0	699	87,881	699	2,078,723	4,265,275
2020	380,045	221,294	601,339	240,343	400,254	771,065	366,073	699	0	366,772	699	1,778,433	2,379,772
2021	121,099	173,150	294,249	82,805	102,944	181,142	486,607	48,358	23,117	558,082	71,475	924,973	1,219,221
2022	74,000	295,221	369,220	80,210	26,336	71,239	224,496	83,041	24,286	331,822	107,327	509,608	878,828

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Table 8.—Page 2 of 5.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Mitrofanania Island													
1989	230,245	510,311	740,557	294,071	151,713	637,889	308,313	42,526	38,982	389,821	81,508	1,473,494	2,214,050
1990	275,999	30,022	306,021	249,040	89,654	109,026	140,854	49,667	19,003	209,524	68,669	657,244	963,265
1991	364,824	29,297	394,121	316,083	65,484	43,775	36,898	33,084	4,935	74,917	38,019	500,258	894,380
1992	243,347	6,715	250,062	194,759	28,551	6,193	9,925	11,825	1,517	23,267	13,343	252,771	502,833
1993	99,115	15,143	114,258	64,204	49,478	28,688	12,802	13,193	10,204	36,199	23,397	178,569	292,827
1994	54,736	5,586	60,322	31,535	14,288	12,279	3,877	8,212	1,709	13,798	9,921	71,899	132,221
1995	169,627	27,352	196,980	199,472	11,566	29,533	20,548	17,352	1,517	39,417	18,869	279,987	476,967
1997	419,741	87,105	506,846	305,035	509,846	255,350	63,731	5,171	23,159	92,061	28,330	1,162,292	1,669,138
1998	191,101	194,853	385,954	159,108	111,969	162,579	65,925	17,249	20,742	103,916	37,992	537,572	923,526
1999	156,851	53,643	210,494	147,108	63,828	44,318	68,665	14,373	4,272	87,310	18,645	342,565	553,059
2000	1,137,449	90,086	1,227,535	1,308,807	77,462	59,053	53,290	57,365	50,143	160,798	107,509	1,606,120	2,833,655
2001	574,418	225,111	799,529	570,792	191,079	207,001	86,737	29,564	31,821	148,122	61,385	1,116,994	1,916,523
2002	732,433	343,400	1,075,832	685,846	1,853,778	1,078,070	280,523	40,621	8,640	329,784	49,261	3,947,478	5,023,311
2003	25,199	240,133	265,331	3,168	41,275	91,790	106,903	25,048	7,990	139,941	33,038	276,174	541,505
2004	873,624	217,339	1,090,963	904,441	197,382	1,060,913	967,722	269,918	29,553	1,267,193	299,471	3,429,928	4,520,891
2005	2,119,050	132,958	2,252,008	2,167,351	291,157	163,501	242,803	77,768	24,802	345,373	102,570	2,967,383	5,219,391
2006	6,249,453	303,589	6,553,042	6,348,001	808,498	276,382	284,540	23,404	66,214	374,158	89,619	7,807,040	14,360,082
2007	2,404,530	177,376	2,581,906	2,320,990	1,640,664	300,376	64,073	16,935	29,032	110,040	45,967	4,372,070	6,953,976
2008	2,625,803	845,992	3,471,795	1,895,518	4,387,835	3,105,031	692,074	47,302	15,608	754,984	62,910	10,143,369	13,615,164
2009	641,098	2,351,472	2,992,570	518,911	3,988,126	5,837,952	2,186,302	246,209	6,390	2,438,901	252,599	12,783,890	15,776,460
2010	155,326	1,320,709	1,476,034	104,398	201,606	2,577,964	4,446,577	1,536,318	160,614	6,143,509	1,696,932	9,027,477	10,503,511
2011	263,486	608,557	872,043	209,430	18,004	190,084	1,786,290	1,133,316	512,436	3,432,042	1,645,752	3,849,560	4,721,602
2012	353,283	125,966	479,249	365,017	15,559	56,224	535,797	96,254	403,664	1,035,715	499,918	1,472,516	1,951,765
2013	4,567,299	15,424	4,582,723	5,308,251	107,269	37,241	330,401	8,879	211,760	551,040	220,639	6,003,802	10,586,524
2014	1,052,858	93,095	1,145,953	823,337	343,323	237,417	238,584	2,616	100,304	341,504	102,920	1,745,582	2,891,535
2015	592,546	304,572	897,118	533,125	228,922	246,961	232,180	17,734	49,795	299,709	67,529	1,308,717	2,205,835
2016	36,557	57,323	93,879	15,831	11,634	47,797	67,568	12,359	3,226	83,153	15,585	158,415	252,294
2017	2,831,199	105,849	2,937,048	3,011,883	116,509	51,003	44,763	8,558	0	53,321	8,558	3,232,716	6,169,764
2018	15,775,369	876,379	16,651,748	16,808,636	4,091,295	1,288,986	209,052	43,143	9,363	261,558	52,506	22,450,475	39,102,223
2019	4,267,942	2,243,054	6,510,996	3,932,165	9,892,796	2,263,088	501,885	14,424	3,469	519,778	17,892	16,607,826	23,118,823
2020	451,715	2,437,812	2,889,527	496,445	2,270,811	3,738,922	1,248,113	40,942	11,122	1,300,177	52,064	7,806,355	10,695,882
2021	365,917	790,522	1,156,439	314,569	132,446	1,616,695	2,953,043	203,869	25,506	3,182,418	229,376	5,246,128	6,402,567
2022	223,994	575,232	799,226	163,099	128,470	299,986	1,220,914	812,597	52,880	2,086,392	865,477	2,677,947	3,477,173

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Table 8.—Page 3 of 5.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Chignik Bay													
1989	613,506	409,256	1,022,761	615,594	79,454	68,660	138,830	31,456	11,860	182,146	43,316	945,854	1,968,615
1990	1,418,148	419,124	1,837,273	1,130,312	97,172	130,239	441,451	81,206	79,195	601,852	160,400	1,959,574	3,796,847
1991	1,039,786	471,372	1,511,158	997,470	95,258	48,538	125,430	64,281	63,275	252,986	127,557	1,394,253	2,905,411
1992	1,147,423	321,991	1,469,414	1,305,272	91,362	69,122	34,071	0	14,828	48,899	14,828	1,514,656	2,984,069
1993	819,308	215,109	1,034,418	788,593	464,122	305,587	185,740	21,971	63,972	271,683	85,944	1,829,985	2,864,402
1994	235,111	135,207	370,318	71,972	520,572	513,603	142,814	28,348	33,209	204,371	61,558	1,310,519	1,680,837
1995	172,122	93,530	265,653	204,920	3,191	52,921	174,170	82,082	14,528	270,780	96,611	531,813	797,466
1996	1,000,292	128,231	1,128,523	987,388	34,908	44,492	248,261	263,749	72,372	584,382	336,120	1,651,168	2,779,691
1997	1,121,411	333,003	1,454,414	1,017,332	268,500	165,228	234,176	148,418	80,812	463,406	229,229	1,914,465	3,368,879
1998	422,380	623,094	1,045,474	287,692	185,897	240,856	226,855	45,157	91,621	363,633	136,778	1,078,078	2,123,552
1999	624,039	145,492	769,530	467,811	307,459	351,336	428,708	143,756	163,063	735,527	306,820	1,862,134	2,631,665
2000	3,090,770	427,122	3,517,891	2,763,800	1,617,600	782,372	540,226	223,265	192,684	956,175	415,948	6,119,947	9,637,838
2001	2,225,221	482,769	2,707,990	919,916	2,814,170	838,300	414,731	216,632	50,872	682,235	267,503	5,254,620	7,962,610
2002	242,478	562,250	804,728	109,642	410,471	975,819	606,376	79,224	359,085	1,044,685	438,309	2,540,617	3,345,345
2003	130,384	436,008	566,392	107,980	113,899	319,854	438,052	66,228	130,821	635,101	197,049	1,176,834	1,743,226
2004	933,540	567,526	1,501,066	839,543	359,307	264,081	554,113	286,165	173,186	1,013,464	459,350	2,476,395	3,977,461
2005	1,009,682	431,972	1,441,654	1,030,864	374,324	636,603	508,776	111,884	83,992	704,652	195,876	2,746,443	4,188,097
2006	1,887,652	419,403	2,307,055	2,570,999	186,324	230,915	353,628	63,156	91,936	508,720	155,092	3,496,958	5,804,013
2007	641,271	577,574	1,218,845	647,169	393,685	549,424	417,418	99,241	37,033	553,692	136,273	2,143,968	3,362,813
2008	1,313,008	413,796	1,726,804	1,013,914	809,334	897,853	658,792	138,788	46,082	843,662	184,870	3,564,763	5,291,567
2009	1,554,631	596,337	2,150,969	958,197	1,048,445	1,090,671	1,012,322	328,687	52,621	1,393,630	381,308	4,490,943	6,641,912
2010	336,408	592,908	929,316	356,471	345,048	817,928	1,424,161	760,962	729,925	2,915,048	1,490,887	4,434,496	5,363,812
2011	778,504	130,101	908,605	938,675	16,858	160,026	588,728	135,981	527,477	1,252,186	663,457	2,367,745	3,276,349
2012	969,321	125,869	1,095,189	1,111,301	15,111	36,033	198,015	57,890	185,256	441,161	243,146	1,603,606	2,698,796
2013	4,478,988	59,198	4,538,187	6,201,950	97,052	29,855	64,304	1,941	72,021	138,266	73,962	6,467,124	11,005,310
2014	1,961,754	124,532	2,086,286	2,216,447	421,835	141,608	22,945	0	16,530	39,475	16,530	2,819,365	4,905,650
2015	635,702	283,189	918,891	318,926	538,036	234,591	70,634	0	9,586	80,220	9,586	1,171,774	2,090,665
2016	122,989	255,345	378,335	147,021	25,075	305,086	214,133	10,445	5,007	229,585	15,452	706,767	1,085,102
2017	536,694	228,827	765,521	528,286	90,366	104,860	111,259	12,401	1,941	125,601	14,342	849,113	1,614,634
2018	5,033,386	548,657	5,582,042	4,484,716	711,864	574,550	423,686	35,936	3,622	463,244	39,559	6,234,375	11,816,417
2019	1,170,640	1,623,408	2,794,048	468,888	1,296,322	1,310,763	447,662	72,878	19,167	539,707	92,045	3,615,680	6,409,728
2020	458,153	1,318,794	1,776,947	516,694	205,495	563,510	511,534	21,434	12,806	545,774	34,240	1,831,474	3,608,421
2021	1,297,700	1,407,707	2,705,407	1,206,752	256,174	377,044	974,781	163,900	44,702	1,183,383	208,603	3,023,354	5,728,760
2022	237,029	819,099	1,056,128	218,414	149,717	429,351	613,908	103,389	93,398	810,695	196,787	1,608,178	2,664,306

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Table 8.—Page 4 of 5.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Kujulik Bay													
1989	80,262	8,101	88,363	74,797	0	8,136	7,294	807	0	8,101	807	91,034	179,397
1990	211,653	40,612	252,265	217,288	807	5,400	4,506	807	0	5,313	807	228,807	481,072
1991	7,612	948	8,560	13,539	0	0	0	0	0	0	0	13,539	22,098
1992	107,864	18,988	126,852	129,191	760	760	3,038	0	1,519	4,557	1,519	135,267	262,119
1993	106,844	15,935	122,779	99,092	80,940	29,651	1,367	0	0	1,367	0	211,050	333,829
1994	7,560	3,190	10,750	8,976	7,258	4,943	6,462	0	2,279	8,741	2,279	29,917	40,667
1995	842	28,612	29,453	2,771	0	911	456	0	0	456	0	4,138	33,591
1996	227,174	7,595	234,769	184,465	0	0	0	0	0	0	0	184,465	419,234
1997	47,555	61,288	108,843	60,483	456	3,711	14,105	0	5,425	19,530	5,425	84,179	193,022
1998	38,311	15,190	53,501	37,074	0	2,279	3,798	0	760	4,558	760	43,910	97,410
1999	90,545	0	90,545	85,960	456	0	0	0	456	456	456	86,872	177,416
2000	212,545	949	213,494	253,014	1,297	0	0	0	0	0	0	254,311	467,805
2001	180,903	0	180,903	205,835	760	2,514	0	807	0	807	807	209,915	390,818
2002	15,600	844	16,444	16,058	6,049	7,555	3,376	844	0	4,220	844	33,882	50,325
2003	370,805	0	370,805	447,148	948	0	0	0	0	0	0	448,096	818,901
2004	294,154	0	294,154	341,301	9,538	2,279	949	0	0	949	0	354,067	648,221
2005	148,861	0	148,861	141,273	4,084	2,069	0	0	0	0	0	147,427	296,287
2006	514,996	948	515,944	802,688	1,801	842	0	0	0	0	0	805,330	1,321,274
2007	132,133	0	132,133	156,794	2,139	0	0	0	0	0	0	158,933	291,066
2008	397,500	3,085	400,585	420,056	9,358	8,233	26,431	9,606	456	36,493	10,062	474,140	874,725
2009	263,458	182,222	445,680	157,035	190,351	225,421	87,855	9,183	0	97,038	9,183	669,845	1,115,524
2010	44,190	120,885	165,075	29,489	82,910	287,032	304,547	31,861	1,519	337,927	33,380	737,357	902,432
2011	89,733	12,445	102,179	86,888	456	8,810	35,859	6,194	10,762	52,815	16,957	148,970	251,148
2012	164,365	32,264	196,628	195,608	3,038	7,373	25,146	0	9,114	34,260	9,114	240,279	436,907
2013	550,285	15,047	565,333	720,216	32,736	6,915	6,646	0	3,798	10,444	3,798	770,311	1,335,643
2014	298,364	4,296	302,660	246,208	15,054	4,342	2,641	0	1,519	4,160	1,519	269,764	572,424
2015	15,150	911	16,061	11,283	10,528	10,960	0	0	0	0	0	32,772	48,833
2016	0	3,646	3,646	1,789	911	1,367	456	0	0	456	0	4,524	8,169
2017	66,507	0	66,507	92,823	456	911	1,823	0	0	1,823	0	96,013	162,520
2018	1,021,948	0	1,021,948	469,555	790,357	41,287	5,898	0	0	5,898	0	1,307,097	2,329,045
2019	23,361	0	23,361	27,898	1,297	807	0	0	0	0	0	30,002	53,362
2020	142,146	6,822	148,968	138,690	68,180	24,710	7,521	1,074	0	8,595	1,074	240,175	389,143
2021	123,434	0	123,434	167,909	3,074	2,057	0	0	0	0	0	173,040	296,474
2022	38,014	68,704	106,717	21,832	91,817	56,759	2,504	0	0	2,504	0	172,912	279,630

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Table 8.—Page 5 of 5.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
CHIGNIK DISTRICT TOTALS													
1989	1,913,480	1,734,782	3,648,262	1,975,832	443,928	1,449,675	1,069,235	262,056	94,983	1,426,274	357,040	5,295,709	8,943,970
1990	3,318,980	795,266	4,114,246	3,005,302	294,802	439,613	1,078,769	254,371	167,212	1,500,351	421,583	5,240,069	9,354,315
1991	2,898,505	1,060,801	3,959,306	2,800,862	294,642	187,470	351,278	224,778	152,029	728,085	376,807	4,011,060	7,970,366
1992	2,705,685	866,262	3,571,947	2,837,143	281,008	192,081	120,652	34,038	50,515	205,204	84,552	3,515,436	7,087,383
1993	1,590,934	451,662	2,042,596	1,384,489	1,057,893	621,779	349,101	64,648	160,493	574,241	225,141	3,638,402	5,680,998
1994	457,190	290,372	747,562	175,131	782,739	776,238	275,977	70,407	78,736	425,119	149,143	2,159,227	2,906,789
1995	678,257	308,040	986,296	812,594	34,610	163,167	460,752	244,958	41,033	746,743	285,991	1,757,115	2,743,411
1996	3,158,805	358,444	3,517,249	3,025,923	194,273	136,536	681,536	733,833	193,732	1,609,101	927,565	4,965,833	8,483,082
1997	2,671,892	801,986	3,473,878	2,197,801	1,644,851	896,072	646,836	344,643	222,043	1,213,522	566,686	5,952,244	9,426,122
1998	1,122,526	1,460,024	2,582,549	803,997	591,365	766,259	543,916	120,232	211,272	875,420	331,504	3,037,041	5,619,590
1999	1,377,521	314,802	1,692,323	1,076,391	705,275	764,703	963,202	333,793	342,069	1,639,063	675,862	4,185,433	5,877,756
2000	8,010,616	1,031,556	9,042,172	7,377,073	3,582,946	1,791,205	1,254,444	587,988	494,858	2,337,289	1,082,846	15,088,513	24,130,685
2001	6,206,102	1,364,465	7,570,567	3,208,506	6,452,090	2,102,389	1,038,791	495,546	169,734	1,704,071	665,280	13,467,056	21,037,623
2002	1,303,917	989,644	2,293,560	940,532	2,732,250	2,492,695	1,031,475	129,759	398,652	1,559,886	528,411	7,725,363	10,018,924
2003	757,853	910,174	1,668,027	710,029	715,149	1,089,366	937,609	117,153	187,357	1,242,119	304,509	3,756,663	5,424,690
2004	2,198,764	1,325,995	3,524,759	2,184,807	613,708	1,604,750	1,934,742	668,801	259,527	2,863,071	928,329	7,266,337	10,791,096
2005	3,617,298	1,463,081	5,080,379	3,834,550	709,923	886,094	970,247	246,561	160,448	1,377,257	407,010	6,807,825	11,888,204
2006	14,029,377	1,048,996	15,078,373	16,449,702	2,142,160	597,259	832,721	142,127	323,073	1,297,920	465,199	20,487,042	35,565,414
2007	5,564,632	1,463,121	7,027,753	5,409,503	4,184,927	1,584,832	628,881	128,248	98,721	855,850	226,969	12,035,112	19,062,865
2008	5,560,221	2,139,686	7,699,907	3,938,847	6,816,255	5,165,520	1,664,353	220,833	83,177	1,968,363	304,010	17,888,985	25,588,892
2009	2,496,437	4,112,240	6,608,678	1,680,658	5,517,526	8,253,936	4,297,648	630,720	93,022	5,021,390	723,742	20,473,509	27,082,187
2010	545,460	2,413,529	2,958,989	504,639	639,616	3,863,392	7,022,755	2,637,005	1,071,339	10,731,099	3,708,344	15,738,746	18,697,735
2011	1,230,934	888,452	2,119,386	1,354,785	35,317	387,050	2,724,049	1,504,152	1,300,995	5,529,196	2,805,147	7,306,348	9,425,734
2012	1,607,585	321,059	1,928,644	1,823,496	36,939	106,931	812,208	160,980	620,750	1,593,938	781,731	3,561,305	5,489,948
2013	11,595,093	222,780	11,817,873	14,588,120	261,816	89,849	853,645	11,252	739,173	1,604,069	750,425	16,543,854	28,361,727
2014	3,519,335	288,709	3,808,044	3,434,350	950,422	589,392	951,393	2,616	855,134	1,809,143	857,750	6,783,306	10,591,350
2015	1,930,540	1,840,091	3,770,631	1,139,537	1,316,572	943,470	763,371	39,437	280,090	1,082,898	319,527	4,482,477	8,253,108
2016	175,496	335,462	510,958	170,432	58,363	669,110	552,462	47,135	8,861	608,458	55,997	1,506,364	2,017,322
2017	3,795,533	687,006	4,482,539	3,995,310	244,742	206,679	254,713	66,443	9,811	330,967	76,254	4,777,698	9,260,237
2018	22,687,326	1,497,832	24,185,158	22,615,851	5,713,161	1,940,834	672,717	89,921	16,064	778,703	105,985	31,048,548	55,233,706
2019	6,380,558	5,266,293	11,646,851	4,758,157	12,564,458	4,108,220	1,048,482	88,282	23,602	1,160,365	111,883	22,591,200	34,238,051
2020	1,468,544	4,143,481	5,612,025	1,422,843	3,030,528	5,280,689	2,225,156	66,513	25,174	2,316,843	91,687	12,050,902	17,662,927
2021	1,980,109	2,389,400	4,369,509	1,851,549	503,301	2,224,197	4,509,298	423,236	94,018	5,026,553	517,254	9,605,600	13,975,109
2022	578,251	1,764,356	2,342,608	487,698	399,819	862,496	2,071,467	1,004,919	171,066	3,247,452	1,175,985	4,997,465	7,340,073

Table 9.—Predominant species by weight in the South Peninsula Tanner crab District large-mesh bottom trawl survey, 2022.

Common name	Species name	% of catch by weight
Flathead sole	<i>Hippoglossoides elassodon</i>	20.4
Arrowtooth flounder	<i>Atheresthes stomias</i>	19.6
Walleye pollock	<i>Gadus chalcogrammus</i>	17.1
Yellowfin sole	<i>Limanda aspera</i>	15.6
Tanner crab	<i>Chionoecetes bairdi</i>	7.1
Starry flounder	<i>Platichthys stellatus</i>	2.9
Pacific halibut	<i>Hippoglossus stenolepis</i>	1.9
Pacific cod	<i>Gadus macrocephalus</i>	1.8
Anemone	Order: Actinaria	1.6
Jellyfish	Class: Schyphozoa	1.5
Northern rock sole	<i>Lepidopsetta polyxystra</i>	1.4
Alaska plaice	<i>Pleuronectes quadrituberculatus</i>	1.1
Sunflower seastar	<i>Pycnopodia helianthoides</i>	0.8
Big skate	<i>Raja binoculata</i>	0.7
Plain sculpin	<i>Myoxocephalus jaok</i>	0.7
Great sculpin	<i>Myoxocephalus polyacanthocephalus</i>	0.7
Purple-orange seastar	<i>Asterias amurensis</i>	0.6
English sole	<i>Parophrys vetulus</i>	0.6
Rex sole	<i>Glyptocephalus zachirus</i>	0.5
Dungeness crab	<i>Metacarcinus magister</i>	0.5
All others	(90 species)	3.0
Total		100.0

Table 10.—Tanner crab abundance estimates from large-mesh bottom trawl surveys in the South Peninsula District, 1988–2022.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Sanak Island													
1988	no survey												
1989	1,071,609	116,990	1,188,599	1,159,769	23,924	31,519	64,965	6,836	0	71,801	6,836	1,287,012	2,475,612
1990	613,067	104,693	717,759	461,081	84,247	54,275	24,945	0	0	24,945	0	624,549	1,342,308
1991	502,734	30,289	533,023	515,059	33,734	40,658	0	0	0	0	0	589,451	1,122,474
1992	381,603	45,333	426,936	298,380	51,666	50,677	3,798	0	0	3,798	0	404,520	831,457
1993	302,560	16,821	319,382	238,481	28,992	33,298	9,219	0	0	9,219	0	309,990	629,372
1994	85,509	68,742	154,251	107,676	12,902	17,780	19,823	0	0	19,823	0	158,181	312,432
1996	554,162	132,998	687,159	416,750	52,697	28,958	35,078	0	0	35,078	0	533,483	1,220,643
1997	103,035	51,367	154,402	76,796	72,742	36,436	16,670	0	0	16,670	0	202,644	357,046
1998	279,449	401,218	680,667	377,228	81,490	124,402	63,941	0	0	63,941	0	647,061	1,327,728
1999	82,986	93,707	176,693	52,687	5,043	42,386	20,007	0	0	20,007	0	120,123	296,816
2000	578,288	183,974	762,262	546,296	59,136	93,362	32,780	0	2,522	35,302	2,522	734,096	1,496,358
2001	888,598	128,542	1,017,141	770,476	56,030	82,059	114,929	5,043	0	119,972	5,043	1,028,538	2,045,678
2002	723,328	1,012,099	1,735,427	714,685	270,911	220,390	103,390	0	10,807	114,197	10,807	1,320,182	3,055,610
2003	217,863	303,284	521,146	196,525	71,366	179,500	109,312	0	10,086	119,398	10,086	566,789	1,087,935
2004	710,373	200,465	910,838	648,111	100,068	55,618	6,674	0	0	6,674	0	810,472	1,721,310
2005	254,559	129,049	383,608	215,625	85,684	59,374	0	0	0	0	0	360,683	744,290
2006	3,111,151	64,327	3,175,478	2,873,715	58,343	80,352	16,973	0	0	16,973	0	3,029,383	6,204,861
2007	3,781,814	1,664,525	5,446,339	3,667,268	664,269	240,298	96,672	0	0	96,672	0	4,668,507	10,114,846
2008	191,877	1,816,432	2,008,309	843,241	1,791,587	322,363	33,687	0	0	33,687	0	2,990,878	4,999,187
2009	77,006	660,484	737,490	96,352	193,365	216,739	56,268	16,437	1,925	74,630	18,363	581,086	1,318,576
2010	172,832	561,272	734,104	187,437	15,875	160,097	574,127	1,007,317	139,894	1,721,338	1,147,211	2,084,748	2,818,852
2011	142,196	471,130	613,326	161,882	8,613	43,720	260,977	5,767	298,893	565,637	304,659	779,851	1,393,177
2012	94,341	9,249	103,590	100,182	8,579	7,003	75,272	0	175,433	250,705	175,433	366,468	470,058
2013	641,635	17,463	659,098	599,844	27,665	12,646	14,748	0	22,781	37,529	22,781	677,683	1,336,781
2014	447,197	78,897	526,094	483,931	37,252	24,501	46,009	0	68,114	114,123	68,114	659,806	1,185,900
2015	529,810	4,883	534,692	470,803	57,119	28,274	1,631	0	816	2,447	816	558,643	1,093,335
2016	58,959	4,747	63,706	79,259	22,546	0	0	0	0	0	0	101,805	165,512
2017	593,897	6,198	600,094	612,081	39,912	39,602	0	0	0	0	0	691,595	1,291,689
2018	2,114,936	107,904	2,222,840	1,652,383	473,955	69,430	34,588	0	0	34,588	0	2,230,355	4,453,195
2019	1,010,069	220,458	1,230,527	857,223	265,633	137,646	10,584	1,020	0	11,604	1,020	1,272,106	2,502,632
2020	480,940	120,542	601,482	518,940	291,276	299,541	205,853	0	0	205,853	0	1,315,610	1,917,092
2021	230,801	6,304	237,105	203,559	40,309	39,849	28,572	4,306	0	32,878	4,306	316,596	553,700
2022	200,502	23,846	224,349	234,678	29,594	79,816	61,820	0	3,152	64,971	3,152	409,059	633,408

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Table 10.—Page 2 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Morzhovoi Bay													
1988	382,206	212,084	594,291	195,178	217,394	182,048	143,394	71,941	27,350	242,685	99,291	837,305	1,431,595
1989	2,898,601	659,633	3,558,233	2,317,305	1,112,697	367,325	105,349	33,216	3,911	142,476	37,127	3,939,804	7,498,038
1990	1,745,998	997,514	2,743,512	1,169,789	600,711	537,516	191,160	25,710	25,560	242,430	51,269	2,550,446	5,293,958
1991	1,493,738	456,656	1,950,395	1,138,384	403,856	204,545	55,914	15,385	4,074	75,373	19,460	1,822,159	3,772,553
1992	323,084	809,981	1,133,065	167,607	433,648	261,761	190,081	31,094	21,875	243,050	52,969	1,106,066	2,239,131
1993	63,293	529,883	593,175	15,596	143,884	366,655	348,442	59,792	64,414	472,648	124,207	998,784	1,591,960
1994	35,472	238,093	273,564	7,065	52,802	112,947	185,344	6,269	47,526	239,139	53,795	411,953	685,517
1996	145,352	102,800	248,152	130,752	21,463	13,587	49,609	5,696	29,549	84,854	35,245	250,657	498,809
1997	131,871	85,797	217,668	83,771	77,862	61,126	35,003	6,646	8,900	50,549	15,546	273,308	490,975
1998	804,875	1,648,764	2,453,639	282,155	1,106,788	1,344,155	308,876	38,464	68,353	415,693	106,818	3,148,792	5,602,431
1999	147,627	461,834	609,461	39,876	282,204	530,116	727,677	59,884	57,239	844,800	117,122	1,696,995	2,306,456
2000	695,218	735,206	1,430,424	611,299	148,105	365,675	700,497	440,736	97,987	1,239,220	538,723	2,364,299	3,794,723
2001	891,010	282,221	1,173,231	559,249	789,124	193,152	218,954	184,925	115,104	518,983	300,028	2,060,508	3,233,739
2002	1,732,791	640,180	2,372,972	1,112,633	1,168,992	669,114	278,842	39,824	142,365	461,031	182,188	3,411,769	5,784,741
2003	522,858	1,582,660	2,105,517	110,580	1,265,914	845,213	402,012	38,984	99,107	540,103	138,091	2,761,809	4,867,326
2004	310,275	1,604,401	1,914,676	263,682	181,095	1,486,505	2,308,993	261,101	169,424	2,739,518	430,525	4,670,800	6,585,476
2005	435,187	3,632,209	4,067,395	364,056	169,121	374,197	1,292,309	490,054	203,090	1,985,453	693,143	2,892,827	6,960,223
2006	14,323,766	2,042,063	16,365,829	13,739,047	503,205	279,129	1,012,894	258,921	272,397	1,544,212	531,318	16,065,594	32,431,423
2007	10,730,002	1,910,978	12,640,979	7,072,510	6,303,262	1,719,698	2,146,565	509,959	233,030	2,889,554	742,989	17,985,024	30,626,004
2008	3,406,468	11,254,260	14,660,728	909,474	5,521,111	12,297,310	1,914,509	762,051	240,074	2,916,634	1,002,124	21,644,527	36,305,255
2009	262,476	2,399,536	2,662,012	153,194	526,885	3,968,440	7,748,391	356,468	22,421	8,127,280	378,890	12,775,800	15,437,812
2010	52,611	2,515,796	2,568,407	46,002	19,241	291,832	2,396,564	4,905,565	312,421	7,614,550	5,217,986	7,971,625	10,540,032
2011	227,541	1,278,770	1,506,311	241,052	6,444	77,932	794,013	1,334,213	1,963,573	4,091,799	3,297,786	4,417,229	5,923,540
2012	263,885	750,827	1,014,712	230,587	28,624	19,775	362,298	73,213	1,262,561	1,698,072	1,335,774	1,977,057	2,991,769
2013	4,566,777	134,518	4,701,295	4,986,701	223,637	41,648	90,395	1,938	559,230	651,563	561,168	5,903,548	10,604,843
2014	2,590,660	1,654,501	4,245,162	1,269,606	885,665	843,606	820,593	0	1,204,751	2,025,344	1,204,751	5,024,221	9,269,382
2015	1,361,811	2,089,782	3,451,593	203,591	2,008,982	3,169,705	1,136,257	151,603	128,451	1,416,311	280,054	6,798,590	10,250,183
2016	104,920	2,566,146	2,671,067	59,883	118,343	1,178,684	2,248,925	103,907	335,478	2,688,310	439,386	4,045,220	6,716,287
2017	91,849	359,370	451,219	84,656	5,418	153,358	559,555	44,088	37,336	640,979	81,424	884,411	1,335,630
2018	2,759,489	633,829	3,393,318	1,907,093	282,470	329,193	612,292	130,682	45,032	788,006	175,713	3,306,761	6,700,080
2019	3,209,369	1,025,348	4,234,716	1,318,083	3,227,248	758,263	812,677	10,978	254,657	1,078,312	265,634	6,381,906	10,616,622
2020	2,915,898	6,489,757	9,405,656	1,226,128	1,650,745	3,460,555	1,146,979	26,536	34,042	1,207,557	60,579	7,544,986	16,950,642
2021	256,658	1,482,005	1,738,663	80,268	252,405	1,409,072	6,420,471	844,703	22,346	7,287,520	867,049	9,029,265	10,767,928
2022	19,685	1,710,136	1,729,821	28,106	55,713	225,389	2,569,492	1,371,942	463,879	4,405,313	1,835,821	4,714,521	6,444,342

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Table 10.—Page 3 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Cold Bay/Belkofski Bay													
1988	154,528	174,185	328,712	78,697	140,498	144,950	114,498	42,134	21,632	178,264	63,765	542,408	871,121
1989	270,772	45,664	316,437	264,605	24,217	22,372	12,573	4,097	595	17,265	4,692	328,459	644,896
1990	1,673,769	740,975	2,414,745	1,373,630	520,032	306,855	262,988	102,353	65,056	430,397	167,408	2,630,913	5,045,657
1991	470,501	642,245	1,112,746	500,470	132,802	247,217	494,518	77,979	152,967	725,464	230,946	1,605,952	2,718,698
1992	170,387	180,121	350,509	86,414	106,564	96,957	147,230	40,119	41,840	229,189	81,958	519,125	869,634
1993	95,571	277,803	373,374	63,082	85,425	159,343	145,874	36,568	22,785	205,227	59,353	513,076	886,450
1994	92,565	227,474	320,040	27,663	53,392	64,267	78,254	27,579	10,288	116,121	37,867	261,444	581,483
1996	327,368	15,586	342,955	258,965	59,794	38,484	31,147	24,510	3,199	58,856	27,709	416,098	759,053
1997	92,334	12,418	104,752	38,372	58,863	90,892	81,128	37,536	1,378	120,042	38,914	308,168	412,921
1998	384,885	154,914	539,799	113,933	289,248	352,476	183,679	49,039	26,042	258,760	75,081	1,014,417	1,554,216
1999	111,645	80,923	192,568	61,223	59,310	262,550	295,350	64,491	26,794	386,635	91,284	769,716	962,284
2000	455,240	221,578	676,818	550,631	107,735	284,006	327,965	198,169	19,199	545,333	217,369	1,487,705	2,164,524
2001	979,409	68,623	1,048,032	857,965	153,480	160,450	166,003	100,175	19,893	286,071	120,068	1,457,966	2,505,998
2002	949,717	273,704	1,223,420	502,630	464,037	321,097	218,041	60,958	104,971	383,970	165,929	1,671,734	2,895,154
2003	490,346	254,238	744,584	260,285	322,598	319,390	82,439	0	10,855	93,294	10,855	995,567	1,740,152
2004	623,516	134,041	757,557	425,450	330,654	398,480	192,332	22,874	2,531	217,737	25,405	1,372,321	2,129,878
2005	992,894	218,679	1,211,573	710,074	296,590	278,636	179,920	22,574	16,203	218,697	38,778	1,503,998	2,715,571
2006	2,648,711	420,921	3,069,632	2,061,236	466,729	562,538	233,995	27,671	13,589	275,255	41,261	3,365,760	6,435,391
2007	3,845,192	1,360,194	5,205,387	894,931	1,862,982	740,359	364,053	39,921	869	404,843	40,790	3,903,114	9,108,501
2008	1,007,954	3,859,704	4,867,658	185,436	2,091,727	3,977,519	1,144,766	95,257	86,475	1,326,498	181,732	7,581,181	12,448,838
2009	763,603	1,306,810	2,070,413	420,556	263,320	788,006	3,184,681	348,428	43,108	3,576,217	391,536	5,048,099	7,118,513
2010	268,382	2,653,859	2,922,241	229,932	77,078	369,306	1,525,723	1,374,299	362,925	3,262,947	1,737,225	3,939,264	6,861,505
2011	480,532	945,794	1,426,326	433,755	59,300	82,407	449,026	69,628	798,319	1,316,973	867,948	1,892,436	3,318,762
2012	343,294	171,848	515,142	395,748	85,499	160,419	177,456	19,926	196,032	393,414	215,957	1,035,080	1,550,223
2013	3,185,469	43,766	3,229,235	3,062,065	198,282	35,673	94,160	70,339	78,183	242,682	148,522	3,538,702	6,767,937
2014	839,929	109,253	949,182	799,959	456,296	195,183	82,194	3,471	76,107	161,772	79,578	1,613,210	2,562,392
2015	384,938	372,632	757,570	110,552	412,098	496,242	246,184	15,326	58,232	319,742	73,559	1,338,635	2,096,205
2016	31,557	678,225	709,782	35,536	79,012	502,974	634,564	10,191	87,515	732,270	97,707	1,349,793	2,059,575
2017	21,177	44,902	66,079	27,712	10,329	39,475	71,536	16,704	3,846	92,086	20,550	169,602	235,681
2018	8,871,246	51,172	8,922,418	7,418,348	27,752	61,031	63,577	3,205	10,031	76,813	13,236	7,583,943	16,506,360
2019	8,939,526	4,415,377	13,354,903	4,456,219	4,558,343	924,114	100,239	1,073	22,723	124,035	23,797	10,062,711	23,417,614
2020	4,632,877	5,076,990	9,709,867	1,439,755	4,257,966	5,288,775	1,643,353	0	1,484	1,644,837	1,484	12,631,334	22,341,201
2021	257,122	1,817,601	2,074,724	159,063	502,053	2,784,458	2,060,154	41,714	4,184	2,106,052	45,898	5,551,626	7,626,350
2022	78,561	263,756	342,317	45,125	47,249	356,776	1,171,959	248,029	31,855	1,451,843	279,884	1,900,994	2,243,310

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Table 10.—Page 4 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Pavlof Bay/Volcano Bay													
1988	313,566	549,017	862,583	268,008	153,755	401,397	347,799	165,432	116,559	629,790	281,991	1,452,951	2,315,534
1989	637,409	1,352,253	1,989,661	451,722	342,817	239,718	283,577	71,474	58,155	413,206	129,630	1,447,464	3,437,126
1990	958,806	1,847,616	2,806,422	763,433	427,831	441,605	259,272	53,750	112,433	425,455	166,184	2,058,325	4,864,746
1991	393,784	435,464	829,248	351,694	69,141	209,085	196,453	40,770	72,496	309,719	113,267	939,640	1,768,888
1992	144,427	141,322	285,749	49,940	122,383	80,050	108,928	31,222	16,794	156,944	48,016	409,317	695,066
1993	108,728	157,077	265,805	63,795	136,919	407,181	195,380	36,763	25,929	258,072	62,692	865,968	1,131,773
1994	45,494	87,265	132,759	23,807	55,670	91,830	145,799	55,073	27,928	228,800	83,001	400,106	532,865
1996	285,703	50,315	336,018	273,085	48,101	31,696	57,705	15,830	10,740	84,275	26,569	437,156	773,174
1997	67,288	68,916	136,205	33,930	52,206	88,237	54,524	5,677	31,557	91,758	37,234	266,130	402,335
1998	121,884	169,032	290,916	33,562	182,199	331,302	410,735	8,552	56,213	475,500	64,765	1,022,562	1,313,478
1999	43,986	75,716	119,702	39,180	36,755	103,570	111,380	78,715	9,462	199,557	88,177	379,062	498,764
2000	1,205,702	228,029	1,433,731	1,050,158	227,837	148,488	243,698	92,282	28,648	364,628	120,930	1,791,111	3,224,843
2001	628,232	214,597	842,829	365,285	333,556	231,300	146,123	42,690	29,798	218,611	72,488	1,148,751	1,991,581
2002	1,145,467	397,083	1,542,551	1,084,568	369,826	548,561	416,735	45,909	44,851	507,495	90,761	2,510,451	4,053,001
2003	177,293	256,191	433,483	125,160	189,688	315,450	333,705	43,423	80,899	458,027	124,322	1,088,325	1,521,808
2004	250,941	309,147	560,089	223,878	96,000	532,338	392,736	104,081	111,330	608,147	215,411	1,460,363	2,020,451
2005	1,049,524	324,603	1,374,127	965,782	331,121	299,427	411,376	30,701	75,657	517,734	106,357	2,114,064	3,488,192
2006	3,242,500	318,585	3,561,085	3,175,655	685,077	362,260	229,241	27,509	55,737	312,487	83,246	4,535,479	8,096,564
2007	1,541,678	761,402	2,303,080	1,078,924	1,384,185	972,682	560,981	68,765	65,665	695,411	134,430	4,131,203	6,434,283
2008	1,906,206	2,095,001	4,001,207	495,037	3,165,631	2,608,310	1,628,468	318,411	27,823	1,974,702	346,233	8,243,680	12,244,887
2009	1,284,163	2,545,455	3,829,618	921,323	885,708	3,142,115	4,979,100	1,266,474	177,003	6,422,577	1,443,478	11,371,724	15,201,342
2010	603,453	1,323,816	1,927,269	471,609	386,789	627,222	2,287,170	1,729,591	607,602	4,624,363	2,337,193	6,109,983	8,037,252
2011	359,196	539,768	898,964	365,824	180,737	179,175	752,977	179,119	1,116,602	2,048,698	1,295,721	2,774,434	3,673,398
2012	505,467	325,240	830,707	530,227	53,420	216,839	428,058	37,003	543,757	1,008,818	580,760	1,809,304	2,640,010
2013	5,608,995	268,530	5,877,525	6,186,882	787,491	124,511	173,997	45,116	113,486	332,599	158,602	7,431,483	13,309,008
2014	1,360,577	329,690	1,690,267	984,613	1,128,252	681,616	248,743	28,556	175,864	453,163	204,420	3,247,644	4,937,911
2015	144,688	375,842	520,530	100,973	520,217	1,266,835	709,500	36,784	39,731	786,015	76,514	2,674,039	3,194,569
2016	195,213	191,069	386,282	230,037	50,024	419,440	628,571	57,156	136,384	822,111	193,539	1,521,612	1,907,894
2017	226,748	122,155	348,903	200,519	53,196	78,010	128,452	20,457	13,644	162,553	34,101	494,278	843,181
2018	4,623,631	240,759	4,864,390	4,412,957	237,177	220,631	180,636	12,233	18,223	211,092	30,456	5,081,857	9,946,247
2019	5,351,978	2,198,880	7,550,859	4,700,430	3,969,188	1,278,596	292,585	32,153	16,737	341,475	48,889	10,289,688	17,840,547
2020	2,925,145	2,969,081	5,894,226	1,587,376	4,081,461	3,929,040	1,202,034	73,791	50,804	1,326,629	124,595	10,924,506	16,818,732
2021	768,297	984,479	1,752,776	547,555	1,150,176	2,189,944	3,285,249	640,614	83,531	4,009,394	724,145	7,897,070	9,649,845
2022	624,338	1,390,680	2,015,018	504,246	425,422	982,217	1,848,373	1,106,234	113,867	3,068,474	1,220,100	4,980,358	6,995,376

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Table 10.—Page 5 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Beaver Bay/Balboa Bay/Unga Strait													
1988	84,044	55,859	139,903	66,547	56,280	38,238	21,210	5,084	11,617	37,911	16,701	198,976	338,879
1989	154,128	245,352	399,480	160,920	54,874	50,883	34,036	0	5,072	39,108	5,072	305,785	705,266
1990	394,474	480,919	875,393	400,104	37,363	155,377	93,314	16,311	6,615	116,240	22,926	709,084	1,584,478
1991	354,669	188,534	543,203	332,197	35,106	59,938	51,440	5,013	3,073	59,526	8,086	486,766	1,029,969
1992	96,614	130,297	226,911	104,388	30,477	47,470	20,585	2,509	2,026	25,120	4,536	207,457	434,368
1993	18,739	43,104	61,843	29,917	9,532	31,285	33,350	3,164	4,361	40,875	7,525	111,609	173,452
1994	10,056	31,136	41,193	10,846	4,361	11,237	24,652	2,254	5,845	32,751	8,100	59,195	100,388
1996	821,169	5,040	826,209	859,653	15,533	10,706	10,286	715	368	11,369	1,083	897,261	1,723,470
1997	121,975	40,475	162,450	99,344	73,182	18,189	6,765	0	1,946	8,711	1,946	199,425	361,876
1998	125,992	81,699	207,691	93,260	39,343	56,276	4,983	0	0	4,983	0	193,862	401,554
1999	34,813	72,131	106,944	79,532	10,811	41,261	31,840	860	0	32,700	860	164,303	271,247
2000	447,951	37,324	485,275	429,730	6,818	23,242	22,112	1,356	1,356	24,824	2,713	484,615	969,890
2001	896,875	78,421	975,296	954,488	72,153	18,401	9,565	0	0	9,565	0	1,054,607	2,029,903
2002	647,596	316,782	964,378	568,732	679,101	354,635	36,225	0	13,518	49,743	13,518	1,652,211	2,616,589
2003	83,251	252,020	335,271	38,327	121,196	246,506	135,913	7,971	9,653	153,537	17,625	559,567	894,837
2004	314,552	203,840	518,392	324,493	108,694	181,829	145,099	37,897	4,525	187,521	42,422	802,537	1,320,929
2005	2,047,453	151,547	2,199,000	2,598,215	88,384	50,776	64,770	12,483	0	77,253	12,483	2,814,628	5,013,628
2006	3,798,944	1,083,098	4,882,042	2,627,015	2,261,311	980,257	401,123	8,703	42,734	452,560	51,437	6,321,143	11,203,185
2007	631,938	1,393,871	2,025,809	565,420	1,747,628	1,405,074	476,953	25,174	4,028	506,155	29,202	4,224,278	6,250,086
2008	776,166	2,648,413	3,424,580	403,009	1,904,232	2,241,742	1,142,965	143,383	5,737	1,292,085	149,119	5,841,068	9,265,648
2009	412,151	2,088,703	2,500,854	284,978	546,196	1,115,453	1,391,498	752,535	104,114	2,248,147	856,649	4,194,774	6,695,628
2010	80,824	693,397	774,221	48,375	61,533	209,207	316,332	79,125	107,567	503,024	186,692	822,140	1,596,361
2011	135,534	328,380	463,914	121,775	19,910	80,312	294,278	21,796	157,642	473,716	179,438	695,712	1,159,626
2012	126,129	132,347	258,477	157,310	1,634	44,081	394,935	8,371	259,846	663,152	268,217	866,178	1,124,655
2013	1,870,044	112,796	1,982,840	1,710,549	57,369	23,485	47,763	0	12,589	60,352	12,589	1,851,756	3,834,596
2014	439,347	95,103	534,450	256,516	452,474	165,787	100,687	0	49,409	150,096	49,409	1,024,873	1,559,323
2015	82,816	256,948	339,764	83,472	126,343	299,302	143,031	0	49,261	192,292	49,261	701,409	1,041,173
2016	58,376	99,710	158,086	68,857	12,822	65,335	33,342	5,151	1,551	40,044	6,702	187,057	345,143
2017	210,858	26,019	236,877	234,593	17,150	22,173	22,888	1,513	949	25,350	2,462	299,266	536,143
2018	1,909,629	65,783	1,975,412	1,995,087	88,717	22,389	8,278	0	0	8,278	0	2,114,471	4,089,883
2019	875,967	274,278	1,150,245	1,031,878	924,728	305,477	55,363	0	1,583	56,946	1,583	2,319,028	3,469,273
2020	449,133	1,000,737	1,449,870	584,359	287,258	462,464	133,014	3,798	17,179	153,991	20,977	1,488,072	2,937,942
2021	168,230	89,062	257,292	130,864	43,130	60,854	43,515	949	0	44,464	949	279,313	536,605
2022	341,885	96,751	438,636	290,898	56,792	105,705	50,866	0	2,848	53,714	2,848	507,108	945,744

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Table 10.—Page 6 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
West Nagai Strait													
1988							no survey						
1989	250,283	193,215	443,498	291,460	134,656	68,629	23,042	1,859	5,184	30,085	7,044	524,830	968,328
1990	221,905	36,745	258,649	227,456	16,931	17,328	5,672	0	908	6,580	908	268,295	526,944
1991	209,316	22,390	231,706	232,608	5,312	5,312	15,936	3,813	0	19,749	3,813	262,981	494,688
1992	24,425	31,725	56,149	13,306	8,214	18,231	7,953	0	3,165	11,118	3,165	50,869	107,019
1993	19,405	4,835	24,240	15,942	9,601	74,295	14,797	908	0	15,705	908	115,543	139,783
1994	20,348	24,860	45,208	8,270	24,513	29,968	27,083	8,468	0	35,551	8,468	98,302	143,510
1996	48,279	4,706	52,985	38,903	7,431	16,597	20,148	0	908	21,056	908	83,987	136,972
1997	333,027	263,581	596,609	180,058	292,164	173,198	25,182	0	4,706	29,888	4,706	675,308	1,271,916
1998	84,814	122,947	207,761	35,755	106,723	175,190	58,731	3,564	908	63,203	4,473	380,872	588,633
1999	58,649	24,684	83,333	45,435	34,193	28,481	46,396	5,614	0	52,010	5,614	160,119	243,452
2000	320,956	23,673	344,629	363,105	5,425	5,696	18,988	5,614	1,899	26,501	7,513	400,727	745,356
2001	499,827	68,359	568,187	340,804	124,643	65,414	32,390	908	0	33,298	908	564,160	1,132,346
2002	180,556	126,619	307,175	82,437	89,359	287,060	100,975	4,747	0	105,722	4,747	564,578	871,753
2003	39,252	57,640	96,892	7,610	59,634	37,322	11,146	3,798	0	14,944	3,798	119,510	216,402
2004	36,562	92,053	128,615	32,795	11,393	59,785	46,150	12,301	1,899	60,350	14,200	164,322	292,938
2005	408,938	46,500	455,439	470,142	14,241	38,507	70,969	11,105	0	82,074	11,105	604,964	1,060,402
2006	1,141,989	123,506	1,265,495	845,568	605,915	152,643	115,801	908	2,725	119,434	3,633	1,723,561	2,989,056
2007	843,786	1,319,255	2,163,041	312,698	1,049,571	759,822	254,535	17,053	22,738	294,326	39,791	2,416,418	4,579,460
2008	708,569	4,372,302	5,080,872	266,909	1,345,091	1,627,941	814,258	47,903	22,376	884,537	70,279	4,124,478	9,205,349
2009	317,524	9,700,973	10,018,497	95,225	1,300,765	2,953,847	3,184,350	542,833	99,061	3,826,244	641,895	8,176,082	18,194,579
2010	195,749	3,915,918	4,111,667	186,909	226,833	1,225,389	2,716,794	1,589,320	334,556	4,640,670	1,923,876	6,279,801	10,391,467
2011	30,610	647,622	678,232	61,775	26,319	242,069	705,968	77,830	177,284	961,082	255,114	1,291,245	1,969,477
2012	61,283	131,546	192,829	117,152	9,128	48,713	407,854	39,305	361,701	808,860	401,007	983,854	1,176,683
2013	1,575,859	75,150	1,651,009	1,461,384	79,493	52,908	192,674	3,798	90,378	286,850	94,176	1,880,635	3,531,644
2014	697,452	204,010	901,461	257,673	450,735	158,082	142,955	0	47,241	190,196	47,241	1,056,684	1,958,146
2015	131,990	174,761	306,751	36,967	184,383	486,885	201,491	7,331	6,122	214,944	13,452	923,178	1,229,928
2016	13,830	2,697,909	2,711,739	0	47,031	465,315	476,731	5,219	23,855	505,805	29,074	1,018,151	3,729,890
2017	1,139,012	554,417	1,693,430	1,141,845	45,595	110,570	196,434	10,728	0	207,162	10,728	1,505,172	3,198,602
2018	3,240,652	298,863	3,539,515	2,205,539	343,241	114,112	108,244	0	7,407	115,651	7,407	2,778,543	6,318,058
2019	1,106,644	1,975,217	3,081,861	313,905	1,242,227	527,288	178,667	4,934	20,720	204,321	25,653	2,287,741	5,369,601
2020	263,276	1,044,198	1,307,475	211,790	188,327	429,684	222,226	8,646	16,547	247,419	25,193	1,077,220	2,384,695
2021	87,567	251,484	339,051	71,092	85,252	305,568	152,631	6,693	5,737	165,061	12,430	626,974	966,026
2022	118,078	1,697,214	1,815,292	77,042	260,936	395,895	305,862	5,261	51,654	362,778	56,916	1,096,651	2,911,943

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Table 10.—Page 7 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
Stepovak Bay													
1988						no survey							
1989	113,563	0	113,563	107,788	0	0	0	0	0	0	0	107,788	221,352
1990	289,398	0	289,398	333,054	0	0	0	0	0	0	0	333,054	622,453
1991	13,887	992	14,879	22,814	992	992	992	0	0	992	0	25,790	40,668
1992	106,136	0	106,136	134,884	0	0	0	0	0	0	0	134,884	241,020
1993	8,905	0	8,905	9,296	0	0	0	0	0	0	0	9,296	18,202
1994	30,446	0	30,446	30,290	0	0	0	0	0	0	0	30,290	60,736
1996	35,568	0	35,568	32,004	0	0	0	0	0	0	0	32,004	67,572
1997	9,643	0	9,643	23,048	0	0	0	0	0	0	0	23,048	32,690
1998	36,665	0	36,665	43,862	0	0	0	0	0	0	0	43,862	80,527
1999	34,025	0	34,025	53,840	0	0	0	0	0	0	0	53,840	87,864
2000	168,178	0	168,178	179,302	0	0	0	0	0	0	0	179,302	347,480
2001	276,563	0	276,563	278,539	3,416	0	0	0	0	0	0	281,955	558,518
2002	28,474	11,159	39,633	46,174	11,639	2,480	0	0	0	0	0	60,293	99,926
2003	33,770	0	33,770	37,038	0	0	930	0	0	930	0	37,967	71,738
2004	62,486	992	63,477	81,485	688	992	0	0	0	0	0	83,165	146,643
2005	358,179	930	359,108	466,461	4,969	992	0	0	0	0	0	472,421	831,529
2006	938,817	8,398	947,214	1,254,409	34,902	5,761	0	0	0	0	0	1,295,072	2,242,286
2007	341,670	24,047	365,717	406,983	63,342	15,853	0	0	0	0	0	486,177	851,895
2008	149,567	11,295	160,862	126,217	71,454	28,082	6,640	992	0	7,632	992	233,384	394,246
2009	39,023	3,315	42,338	42,963	7,098	21,653	4,680	0	418	5,098	418	76,812	119,150
2010	29,109	860	29,969	29,977	4,603	17,862	33,746	12,236	0	45,982	12,236	98,422	128,392
2011	96,677	3,720	100,396	109,748	2,324	1,240	3,534	0	2,480	6,014	2,480	119,326	219,722
2012	59,065	3,664	62,729	57,083	992	4,432	8,320	0	992	9,312	992	71,818	134,547
2013	270,286	992	271,278	299,752	1,162	688	0	0	0	0	0	301,602	572,880
2014	45,249	1,984	47,233	33,619	5,121	1,524	4,352	0	1,523	5,875	1,524	46,138	93,371
2015	41,084	0	41,084	49,459	3,842	688	930	0	0	930	0	54,919	96,003
2016	8,782	0	8,782	12,964	0	1,600	0	0	0	0	0	14,564	23,347
2017	256,096	2,480	258,575	278,265	2,168	2,090	0	0	0	0	0	282,523	541,099
2018	1,323,834	5,439	1,329,272	1,220,936	510,838	3,290	822	0	0	822	0	1,735,886	3,065,158
2019	232,750	69,657	302,407	188,442	278,137	156,671	0	0	0	0	0	623,250	925,657
2020	131,555	12,695	144,250	125,485	34,176	115,395	74,486	0	0	74,486	0	349,541	493,791
2021	28,067	25,758	53,826	18,894	6,104	26,552	43,157	8,417	0	51,574	8,417	103,125	156,951
2022	26,079	22,240	48,319	42,602	0	12,450	10,422	0	1,240	11,662	1,240	66,714	115,034

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Table 10.—Page 8 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
WESTERN SECTION TOTALS ^a													
1988	773,019	438,034	1,211,053	459,359	452,443	401,402	311,878	132,789	57,639	502,305	190,427	1,815,510	3,026,563
1989	4,913,416	963,394	5,876,810	4,315,868	1,369,536	495,514	211,476	51,690	5,332	268,498	57,022	6,449,416	12,326,226
1990	4,109,496	1,847,374	5,956,870	3,070,617	1,221,614	903,102	480,968	128,311	90,718	699,997	219,029	5,895,331	11,852,201
1991	2,466,974	1,129,190	3,596,164	2,153,913	570,392	492,420	550,432	93,364	157,041	800,837	250,405	4,017,562	7,613,726
1992	875,074	1,035,436	1,910,510	552,402	591,878	409,395	341,109	71,213	63,714	476,037	134,927	2,029,711	3,940,221
1993	507,349	827,620	1,334,969	352,611	268,717	566,933	505,742	97,002	87,294	690,038	184,296	1,878,299	3,213,267
1994	213,546	534,309	747,855	142,404	119,096	194,994	283,421	33,848	57,815	375,084	91,663	831,577	1,579,433
1996	1,026,881	251,384	1,278,266	806,467	133,954	81,029	115,835	30,206	32,748	178,789	62,954	1,200,239	2,478,505
1997	327,241	149,581	476,822	198,939	209,466	188,455	132,800	44,181	10,278	187,260	54,459	784,120	1,260,942
1998	1,469,209	2,204,896	3,674,105	773,317	1,477,526	1,821,033	556,496	87,504	94,395	738,395	181,899	4,810,270	8,484,374
1999	366,050	651,138	1,017,188	170,844	354,883	846,826	1,051,154	125,115	84,033	1,260,301	209,147	2,632,854	3,650,042
2000	1,728,745	1,140,758	2,869,504	1,708,226	314,976	743,044	1,061,242	638,905	119,708	1,819,855	758,613	4,586,100	7,455,604
2001	2,759,017	479,387	3,238,404	2,187,691	998,634	435,662	499,886	290,143	134,997	925,025	425,139	4,547,011	7,785,415
2002	3,514,557	1,981,120	5,495,677	2,413,831	1,961,014	1,237,511	609,581	101,964	258,772	970,317	360,735	6,582,673	12,078,350
2003	1,260,347	2,161,132	3,421,479	591,497	1,676,056	1,369,891	605,452	39,067	121,025	765,543	160,092	4,402,986	7,824,465
2004	1,644,164	1,938,906	3,583,071	1,337,243	611,817	1,940,604	2,508,000	283,975	171,955	2,963,930	455,930	6,853,593	10,436,664
2005	1,682,639	3,979,937	5,662,576	1,289,755	551,395	712,208	1,472,229	512,628	219,293	2,204,150	731,921	4,757,508	10,420,084
2006	20,083,627	2,527,311	22,610,938	18,673,998	1,028,277	922,020	1,263,863	286,592	285,987	1,836,442	572,579	22,460,736	45,071,675
2007	18,525,634	4,988,172	23,513,806	11,763,427	8,879,204	2,714,690	2,612,351	550,013	233,899	3,396,263	783,912	26,753,584	50,267,390
2008	4,606,299	16,930,396	21,536,695	1,938,151	9,404,425	16,597,192	3,092,961	857,307	326,549	4,276,817	1,183,856	32,216,586	53,753,281
2009	1,103,085	4,366,830	5,469,916	670,102	983,570	4,973,184	10,989,340	721,333	67,454	11,778,129	788,788	18,404,985	23,874,901
2010	493,825	5,730,927	6,224,752	463,371	112,195	821,235	4,496,414	7,287,181	815,241	12,598,836	8,102,423	13,995,637	20,220,389
2011	850,269	2,695,694	3,545,964	836,689	74,357	204,060	1,504,016	1,409,608	3,060,785	5,974,409	4,470,394	7,089,515	10,635,478
2012	701,520	931,925	1,633,445	726,517	122,702	187,197	615,026	93,139	1,634,026	2,342,190	1,727,164	3,378,606	5,012,050
2013	8,393,881	195,746	8,589,627	8,648,610	449,584	89,967	199,302	72,277	660,193	931,773	732,471	10,119,933	18,709,560
2014	3,877,787	1,842,651	5,720,438	2,553,496	1,379,213	1,063,290	948,795	3,471	1,348,973	2,301,239	1,352,443	7,297,237	13,017,675
2015	2,276,558	2,467,296	4,743,854	784,946	2,478,199	3,694,221	1,384,073	166,929	187,499	1,738,502	354,429	8,695,868	13,439,722
2016	195,437	3,249,118	3,444,555	174,678	219,901	1,681,658	2,883,489	114,099	422,994	3,420,582	537,093	5,496,819	8,941,374
2017	706,923	410,469	1,117,392	724,449	55,659	232,435	631,091	60,792	41,182	733,065	101,973	1,745,608	2,863,000
2018	15,533,529	907,277	16,440,806	12,368,474	860,623	525,462	819,461	155,069	63,774	1,038,304	218,843	14,792,863	31,233,669
2019	13,158,963	5,661,183	18,820,146	6,631,524	8,051,224	1,820,023	923,500	13,071	277,380	1,213,950	290,450	17,716,722	36,536,869
2020	8,029,715	11,687,289	19,717,004	3,184,823	6,199,987	9,048,872	2,996,186	26,536	35,527	3,058,249	62,063	21,491,931	41,208,935
2021	773,086	3,324,840	4,097,927	464,479	811,073	4,304,775	8,573,795	892,525	26,862	9,493,181	919,387	15,073,508	19,171,435
2022	305,727	2,000,379	2,306,106	315,613	133,983	669,989	3,817,129	1,624,390	499,200	5,940,719	2,123,590	7,060,304	9,366,410

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Table 10.—Page 9 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
EASTERN SECTION TOTALS ^b													
1988	842,764	961,658	1,804,422	765,054	407,157	752,123	612,576	275,154	212,379	1,100,109	487,533	3,024,444	4,828,866
1989	1,724,734	2,518,101	4,242,835	1,524,159	770,081	517,497	479,122	101,797	94,064	674,984	195,862	3,486,721	7,729,556
1990	2,728,900	3,357,994	6,086,894	2,553,105	663,324	858,109	499,911	97,207	162,985	760,103	260,192	4,834,641	10,921,535
1991	1,439,964	908,502	2,348,466	1,410,008	154,256	371,297	358,092	65,523	96,959	520,574	162,481	2,456,135	4,804,600
1992	530,029	427,701	957,730	450,888	214,198	199,814	180,613	42,996	29,246	252,855	72,242	1,117,755	2,075,486
1993	217,986	275,118	493,104	170,871	207,685	675,391	318,516	53,345	39,545	411,406	92,890	1,465,353	1,958,457
1994	108,526	145,677	254,204	74,952	85,490	134,298	199,274	66,164	34,109	299,547	100,273	594,288	848,491
1996	1,215,792	60,432	1,276,224	1,229,741	72,017	59,588	88,640	16,646	12,027	117,313	28,673	1,478,658	2,754,882
1997	596,914	416,196	1,013,110	377,765	469,120	308,776	93,277	6,029	40,827	140,134	46,857	1,295,794	2,308,904
1998	378,247	380,838	759,086	212,359	332,759	570,409	477,991	12,287	57,261	547,539	69,548	1,663,066	2,422,151
1999	172,807	173,841	346,647	220,128	82,406	174,051	190,601	85,391	9,482	285,474	94,873	762,059	1,108,707
2000	2,157,861	290,000	2,447,862	2,037,239	240,559	177,914	285,467	99,409	31,982	416,858	131,391	2,872,569	5,320,431
2001	2,342,181	372,959	2,715,140	1,968,381	550,583	327,379	195,144	45,578	30,983	271,704	76,560	3,118,046	5,833,187
2002	2,020,473	856,773	2,877,246	1,799,591	1,158,437	1,199,679	555,907	50,793	58,568	665,267	109,360	4,822,974	7,700,220
2003	336,034	569,269	905,303	210,120	373,049	602,265	483,520	55,416	90,788	629,724	146,203	1,815,157	2,720,460
2004	684,075	618,102	1,302,177	681,335	221,809	787,859	592,252	156,376	118,454	867,082	274,830	2,558,086	3,860,263
2005	3,928,453	528,948	4,457,401	4,579,229	443,753	393,618	551,159	54,719	76,280	682,158	130,999	6,098,759	10,556,160
2006	11,547,404	1,940,704	13,488,107	10,025,403	4,552,671	1,834,431	872,221	40,504	113,159	1,025,884	153,662	17,438,390	30,926,497
2007	3,514,854	3,646,350	7,161,204	2,515,189	4,454,967	3,308,516	1,342,160	113,309	92,835	1,548,304	206,144	11,826,976	18,988,180
2008	4,043,334	10,385,475	14,428,809	1,622,749	7,591,922	7,665,831	4,245,623	578,186	59,207	4,883,016	637,393	21,763,518	36,192,327
2009	2,089,707	14,428,411	16,518,117	1,371,530	2,783,500	7,340,262	9,677,851	2,592,300	382,494	12,652,645	2,974,794	24,147,937	40,666,055
2010	1,097,068	6,861,773	7,958,841	895,215	779,566	2,418,505	6,149,608	3,921,250	1,169,785	11,240,643	5,091,035	15,333,929	23,292,769
2011	655,141	1,587,209	2,242,350	696,274	238,516	526,716	1,812,495	289,158	1,488,610	3,590,263	1,777,768	5,051,769	7,294,119
2012	818,324	639,870	1,458,194	942,069	68,467	339,971	1,333,317	92,741	1,229,566	2,655,624	1,322,307	4,006,131	5,464,325
2013	9,678,133	478,141	10,156,274	10,027,513	960,253	209,128	428,788	49,359	224,937	703,085	274,296	11,899,978	22,056,252
2014	2,578,136	638,428	3,216,564	1,557,193	2,060,894	1,017,034	502,789	28,739	278,075	809,603	306,814	5,444,724	8,661,288
2015	459,436	916,972	1,376,408	316,491	898,409	2,231,610	1,153,820	45,958	110,603	1,310,382	156,561	4,756,892	6,133,300
2016	276,201	2,988,688	3,264,889	311,858	109,877	951,690	1,138,644	67,525	161,789	1,367,959	229,315	2,741,384	6,006,273
2017	1,888,238	729,622	2,617,860	1,912,084	122,575	220,365	358,009	33,477	14,703	406,189	48,180	2,661,214	5,279,074
2018	14,464,080	770,785	15,234,865	12,883,961	1,615,589	436,670	340,326	12,850	29,271	382,447	42,121	15,318,667	30,553,532
2019	7,771,128	4,594,010	12,365,137	6,435,426	6,577,840	2,321,465	534,761	37,396	40,058	612,214	77,453	15,946,946	28,312,083
2020	3,944,216	5,109,877	9,054,092	2,650,728	4,731,882	5,048,140	1,664,341	87,581	85,233	1,837,154	172,814	14,267,904	23,321,996
2021	1,317,228	1,414,074	2,731,301	1,016,189	1,398,833	2,902,716	3,857,234	687,391	90,048	4,634,673	777,439	9,952,411	12,683,712
2022	1,162,620	3,306,878	4,469,498	962,310	766,580	1,528,919	2,255,841	1,120,053	173,012	3,548,906	1,293,065	6,806,715	11,276,213

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Table 10.—Page 10 of 10.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
SOUTH PENINSULA DISTRICT TOTALS													
1988	1,615,783	1,399,692	3,015,475	1,224,413	859,600	1,153,525	924,454	407,943	270,018	1,602,414	677,960	4,839,954	7,855,429
1989	6,638,150	3,481,495	10,119,645	5,840,027	2,139,617	1,013,011	690,598	153,487	99,396	943,482	252,884	9,936,137	20,055,782
1990	6,838,396	5,205,368	12,043,764	5,623,722	1,884,938	1,761,211	980,879	225,518	253,703	1,460,100	479,221	10,729,972	22,773,736
1991	3,906,938	2,037,692	5,944,630	3,563,921	724,648	863,717	908,524	158,887	254,000	1,321,411	412,886	6,473,697	12,418,326
1992	1,405,103	1,463,137	2,868,240	1,003,290	806,076	609,209	521,722	114,209	92,960	728,892	207,169	3,147,466	6,015,707
1993	725,335	1,102,738	1,828,073	523,482	476,402	1,242,324	824,258	150,347	126,839	1,101,444	277,186	3,343,652	5,171,724
1994	322,072	679,986	1,002,059	217,356	204,586	329,292	482,695	100,012	91,924	674,631	191,936	1,425,865	2,427,924
1996	2,242,673	311,816	2,554,490	2,036,208	205,971	140,617	204,475	46,852	44,775	296,102	91,627	2,678,897	5,233,387
1997	924,155	565,777	1,489,932	576,704	678,586	497,231	226,077	50,210	51,105	327,394	101,316	2,079,914	3,569,846
1998	1,847,456	2,585,734	4,433,191	985,676	1,810,285	2,391,442	1,034,487	99,791	151,656	1,285,934	251,447	6,473,336	10,906,525
1999	538,857	824,979	1,363,835	390,972	437,289	1,020,877	1,241,755	210,506	93,515	1,545,775	304,020	3,394,913	4,758,749
2000	3,886,606	1,430,758	5,317,366	3,745,465	555,535	920,958	1,346,709	738,314	151,690	2,236,713	890,004	7,458,669	12,776,035
2001	5,101,198	852,346	5,953,544	4,156,072	1,549,217	763,041	695,030	335,721	165,980	1,196,729	501,699	7,665,057	13,618,602
2002	5,535,030	2,837,893	8,372,923	4,213,422	3,119,451	2,437,190	1,165,488	152,757	317,340	1,635,584	470,095	11,405,647	19,778,570
2003	1,596,381	2,730,401	4,326,782	801,617	2,049,105	1,972,156	1,088,972	94,483	211,813	1,395,267	306,295	6,218,143	10,544,925
2004	2,328,239	2,557,008	4,885,248	2,018,578	833,626	2,728,463	3,100,252	440,351	290,409	3,831,012	730,760	9,411,679	14,296,927
2005	5,611,092	4,508,885	10,119,977	5,868,984	995,148	1,105,826	2,023,388	567,347	295,573	2,886,308	862,920	10,856,267	20,976,244
2006	31,631,031	4,468,015	36,099,045	28,699,401	5,580,948	2,756,451	2,136,084	327,096	399,146	2,862,326	726,241	39,899,126	75,998,172
2007	22,040,488	8,634,522	30,675,010	14,278,616	13,334,171	6,023,206	3,954,511	663,322	326,734	4,944,567	990,056	38,580,560	69,255,570
2008	8,649,633	27,315,871	35,965,504	3,560,900	16,996,347	24,263,023	7,338,584	1,435,493	385,756	9,159,833	1,821,249	53,980,104	89,945,608
2009	3,192,792	18,795,241	21,988,033	2,041,632	3,767,070	12,313,446	20,667,191	3,313,633	449,948	24,430,774	3,763,582	42,552,922	64,540,956
2010	1,590,893	12,592,700	14,183,593	1,358,586	891,761	3,239,740	10,646,022	11,208,431	1,985,026	23,839,479	13,193,458	29,329,566	43,513,158
2011	1,505,410	4,282,903	5,788,314	1,532,963	312,873	730,776	3,316,511	1,698,766	4,549,395	9,564,672	6,248,162	12,141,284	17,929,597
2012	1,519,844	1,571,795	3,091,639	1,668,586	191,169	527,168	1,948,343	185,880	2,863,592	4,997,814	3,049,471	7,384,737	10,476,375
2013	18,072,014	673,887	18,745,901	18,676,123	1,409,837	299,095	628,090	121,636	885,130	1,634,858	1,006,767	22,019,911	40,765,812
2014	6,455,923	2,481,079	8,937,002	4,110,689	3,440,107	2,080,324	1,451,584	32,210	1,627,048	3,110,842	1,659,257	12,741,961	21,678,963
2015	2,735,994	3,384,268	6,120,262	1,101,437	3,376,608	5,925,831	2,537,893	212,887	298,102	3,048,884	510,990	13,452,760	19,573,022
2016	471,638	6,237,806	6,709,444	486,536	329,778	2,633,348	4,022,133	181,624	584,783	4,788,541	766,408	8,238,203	14,947,647
2017	2,595,161	1,140,091	3,735,252	2,636,533	178,234	452,800	989,100	94,269	55,885	1,139,254	150,153	4,406,822	8,142,074
2018	29,997,609	1,678,062	31,675,671	25,252,435	2,476,212	962,132	1,159,787	167,919	93,045	1,420,751	260,964	30,111,530	61,787,201
2019	20,930,091	10,255,193	31,185,283	13,066,950	14,629,064	4,141,488	1,458,261	50,467	317,438	1,826,164	367,903	33,663,668	64,848,952
2020	11,973,931	16,797,166	28,771,096	5,835,551	10,931,869	14,097,012	4,660,527	114,117	120,760	4,895,403	234,877	35,759,835	64,530,931
2021	2,090,314	4,738,914	6,829,228	1,480,668	2,209,906	7,207,491	12,431,029	1,579,916	116,910	14,127,854	1,696,826	25,025,919	31,855,147
2022	1,468,347	5,307,257	6,775,604	1,277,923	900,563	2,198,908	6,072,970	2,744,443	672,212	9,489,625	3,416,655	13,867,019	20,642,623

^a Western Section of the South Peninsula District includes Sanak Island, Morzhovoi Bay, and Cold Bay/Belkofski Bay.

^b Eastern Section of the South Peninsula District includes Pavlof Bay/Volcano Bay, Beaver Bay/Balboa Bay/Unga Strait, West Nagai Strait, and Stepovak Bay.

Table 11.—Predominant species by weight in the Eastern Aleutian Tanner crab District large-mesh bottom trawl survey, 2022.

Common name	Species name	% of catch by weight
Arrowtooth flounder	<i>Atheresthes stomias</i>	26.4
Walleye pollock	<i>Gadus chalcogrammus</i>	25.8
Rex sole	<i>Glyptocephalus zachirus</i>	13.6
Flathead sole	<i>Hippoglossoides elassodon</i>	9.1
Tanner crab	<i>Chionoecetes bairdi</i>	7.5
Pacific cod	<i>Gadus macrocephalus</i>	3.9
Anemone	Order: Actinaria	2.9
Southern rock sole	<i>Lepidopsetta bilineata</i>	1.6
Rougheye rockfish	<i>Sebastes aleutianus</i>	1.4
Pacific halibut	<i>Hippoglossus stenolepis</i>	1.1
Sunflower seastar	<i>Pycnopodia helianthoides</i>	0.9
Aleutian skate	<i>Bathyraja aleutica</i>	0.7
Sablefish	<i>Anoplopoma fimbria</i>	0.7
Basket star	<i>Gorgonocephalus</i> sp.	0.5
Dover sole	<i>Microstomus pacificus</i>	0.5
English sole	<i>Parophrys vetulus</i>	0.4
Bering skate	<i>Bathyraja interrupta</i>	0.3
Giant octopus	<i>Octopus dofleini</i>	0.3
Great sculpin	<i>Myoxocephalus polyacanthocephalus</i>	0.3
Yellowfin sole	<i>Limanda aspera</i>	0.2
All others	(62 species)	1.8
Total		100.0

Table 12.—Tanner crab abundance estimates from large-mesh bottom trawl surveys in the Eastern Aleutian District, 1990–2022.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70-91 mm	92-114 mm	>114 mm						
Akutan Bay Section													
1990	460,091	771,965	1,232,056	614,180	912,058	447,121	146,025	15,190	0	161,215	15,190	2,134,573	3,366,630
1991	745,088	578,257	1,323,345	812,185	351,737	523,188	371,614	13,291	13,291	398,197	26,582	2,085,306	3,408,651
1994	949	2,894	3,843	2,894	7,641	15,418	33,912	2,848	949	37,709	3,797	63,661	67,504
1995	19,077	5,696	24,773	12,477	8,206	31,784	98,796	949	8,727	108,472	9,676	160,938	185,711
1999	121,515	677,297	798,812	19,867	143,040	701,089	1,030,549	210,329	4,363	1,245,242	214,693	2,109,239	2,908,050
2000	9,075	243,581	252,656	8,028	12,224	166,338	323,572	86,368	17,063	427,004	103,431	613,593	866,249
2003	56,558	675,379	731,937	37,957	139,174	413,880	121,041	21,012	75,815	217,868	96,827	808,879	1,540,816
2004	132,418	988,764	1,121,182	73,039	227,615	290,497	223,425	10,327	25,204	258,956	35,531	850,107	1,971,289
2005	127,290	501,657	628,948	84,898	196,246	188,560	270,776	50,445	10,939	332,160	61,384	801,864	1,430,812
2006	70,223	134,799	205,022	50,598	103,862	233,907	211,607	6,047	52,728	270,382	58,775	658,749	863,770
2007	138,743	245,733	384,475	122,054	244,047	382,078	347,262	11,388	2,889	361,540	14,278	1,109,718	1,494,194
2008	13,220	149,953	163,172	5,875	32,023	121,010	217,775	33,493	42,206	293,474	75,699	452,382	615,555
2009	39,211	914,999	954,210	13,676	32,400	137,413	372,548	62,948	64,567	500,062	127,514	683,551	1,637,761
2010	168,557	228,100	396,657	84,702	77,072	128,811	309,506	30,009	65,134	404,649	95,143	695,234	1,091,891
2011	19,186	288,007	307,193	20,497	16,328	65,459	188,518	3,797	15,072	207,387	18,869	309,672	616,865
2012	27,137	379,431	406,568	34,685	36,764	119,178	123,230	14,286	7,960	145,476	22,246	336,104	742,672
2013	409,655	69,112	478,767	381,318	100,839	125,669	68,879	3,705	12,644	85,229	16,350	693,054	1,171,821
2014	340,816	1,644,330	1,985,146	255,599	171,316	274,809	408,722	16,674	41,685	467,082	58,359	1,168,806	3,153,952
2015	187,697	193,663	381,360	209,008	62,030	13,201	13,017	0	0	13,017	0	297,257	678,616
2016	56,250	414,308	470,558	28,843	180,149	294,404	73,859	0	995	74,854	995	578,250	1,048,809
2017	179,563	3,888,787	4,068,350	127,265	191,158	281,969	98,239	0	8,723	106,961	8,723	707,353	4,775,703
2018	82,982	891,867	974,849	43,664	81,906	136,725	38,820	0	1,877	40,697	1,877	302,993	1,277,842
2019	65,420	215,326	280,746	40,980	65,210	19,660	6,530	0	0	6,530	0	132,380	413,126
2021	506,368	429,052	935,419	788,542	1,169,029	230,616	27,404	0	0	27,404	0	2,215,590	3,151,009
2022	254,083	247,838	501,921	260,234	385,646	211,610	45,796	0	0	45,796	0	903,285	1,405,206
Unalaska/Kalekta Bay Section													
1990	1,120,173	359,536	1,479,710	664,933	59,141	78,357	42,847	11,544	2,795	57,186	14,339	859,617	2,339,327
1991	981,240	137,467	1,118,707	920,710	167,931	41,207	25,026	8,906	1,001	34,932	9,907	1,164,780	2,283,487
1994	17,485	1,466	18,950	17,485	949	0	1,982	949	1,549	4,481	2,499	22,915	41,865
1995	27,144	8,697	35,840	20,455	3,879	12,420	2,174	1,499	0	3,673	1,499	40,427	76,267
1999	230,688	194,469	425,157	141,404	95,639	253,996	313,785	123,839	44,527	482,151	168,366	973,190	1,398,347
2000	284,101	1,088,738	1,372,839	35,586	223,082	278,324	169,934	40,073	15,214	225,222	55,288	762,214	2,135,053

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Table 12.—Page 2 of 5.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70-91 mm	92-114 mm	>114 mm						
2003	72,717	7,655	80,371	82,917	6,986	55,771	390,915	99,369	182,335	672,619	281,704	818,293	898,664
2004	347,648	136,330	483,978	338,118	127,520	52,962	26,311	68,736	13,863	108,910	82,600	627,510	1,111,488
2005	854,571	212,212	1,066,782	664,558	256,219	93,970	51,379	23,982	10,866	86,227	34,847	1,100,973	2,167,756
2006	152,411	372,419	524,830	133,521	262,003	138,545	185,053	42,346	495,937	723,336	538,283	1,257,404	1,782,234
2007	436,607	1,997,301	2,433,908	255,143	109,447	308,032	304,795	104,410	229,458	638,663	333,868	1,311,286	3,745,194
2008	324,109	1,990,322	2,314,431	210,498	217,650	246,376	554,496	98,765	65,497	718,758	164,262	1,393,282	3,707,713
2009	176,340	1,306,064	1,482,403	80,052	54,219	122,947	284,196	108,250	108,564	501,010	216,814	758,228	2,240,631
2010	200,948	386,350	587,299	131,427	27,375	30,870	7,383	1,973	1,187	10,542	3,160	200,215	787,513
2011	25,900	253,897	279,797	29,250	24,995	64,648	40,142	2,167	7,336	49,645	9,503	168,538	448,335
2012	170,446	503,997	674,442	123,914	64,169	169,249	380,610	20,623	224,602	625,835	245,225	983,167	1,657,610
2013	1,295,974	690,494	1,986,468	660,240	225,539	149,244	128,208	6,738	20,450	155,396	27,188	1,190,420	3,176,888
2014	290,483	157,234	447,717	313,881	771,860	718,719	186,157	8,170	1,786	196,112	9,955	2,000,573	2,448,289
2015	408,740	94,026	502,766	308,172	117,455	140,343	156,819	18,733	0	175,552	18,733	741,522	1,244,288
2016	33,078	8,842	41,921	23,949	9,495	51,147	13,270	1,595	0	14,865	1,595	99,457	141,378
2017	314,108	56,016	370,124	215,568	6,037	15,965	52,304	12,012	1,001	65,317	13,013	302,887	673,011
2018	328,885	399,940	728,824	182,644	64,509	64,431	194,377	24,324	34,748	253,449	59,072	565,033	1,293,858
2019	573,520	771,536	1,345,056	429,904	267,656	166,033	45,107	1,416	0	46,523	1,416	910,117	2,255,174
2021	402,430	105,050	507,481	265,814	49,325	25,208	4,290	2,860	0	7,150	2,860	347,497	854,978
2022	118,249	550,943	669,192	95,529	60,950	55,211	48,450	6,511	0	57,426	6,511	266,651	935,844
Makushin/Skan Bay Section													
1990	436,275	312,832	749,107	364,641	81,417	75,879	124,444	6,890	22,708	154,041	29,598	675,979	1,425,086
1991	131,552	220,808	352,360	112,335	125,791	76,823	104,035	8,763	46,989	159,788	55,753	474,737	827,097
1994	147,313	155,632	302,945	126,475	19,047	94,473	105,286	34,931	1,581	141,799	36,513	381,794	684,739
1995	124,369	84,784	209,153	91,971	24,957	37,455	49,905	2,748	8,366	61,019	11,115	215,403	424,556
1999	533,825	78,128	611,953	482,040	37,346	49,059	39,598	4,720	9,195	53,512	13,914	621,958	1,233,911
2000	686,543	188,763	875,305	545,296	150,686	52,921	22,335	2,911	0	25,246	2,911	774,148	1,649,454
2003	65,930	1,142,005	1,207,936	47,633	80,167	265,981	477,209	190,192	75,396	742,797	265,588	1,136,579	2,344,514
2004	156,452	683,605	840,058	160,707	51,555	218,704	365,270	357,929	58,600	781,799	416,530	1,212,765	2,052,823
2005	315,190	227,137	542,328	340,306	23,280	34,803	306,036	158,760	215,487	680,283	374,247	1,078,671	1,620,999
2006	607,077	137,178	744,256	557,140	37,878	33,141	100,740	22,650	122,025	245,415	144,675	873,574	1,617,830
2007	3,151,813	986,509	4,138,323	1,593,227	685,507	408,441	130,212	8,675	162,534	301,420	171,208	2,988,595	7,126,917
2008	399,173	1,384,632	1,783,805	284,038	312,861	322,728	165,871	3,359	159,809	329,040	163,169	1,248,668	3,032,473
2009	266,404	1,754,159	2,020,563	216,308	166,619	477,433	208,789	7,698	33,557	250,045	41,256	1,110,405	3,130,968

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Table 12.—Page 3 of 5.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70-91 mm	92-114 mm	>114 mm						
2010	158,522	165,486	324,008	114,237	21,102	83,603	208,500	49,237	16,969	274,705	66,206	493,648	817,656
2011	192,551	251,857	444,408	129,394	28,940	65,062	220,388	25,163	58,782	304,332	83,944	527,728	972,136
2012	177,070	293,261	470,331	119,538	96,850	57,405	100,817	7,600	22,481	130,897	30,080	404,689	875,020
2013	436,107	779,459	1,215,565	313,584	44,299	125,020	129,427	10,118	39,986	179,530	50,103	662,434	1,877,999
2014	287,462	690,640	978,102	146,461	162,858	167,489	185,768	11,774	74,883	272,424	86,657	749,232	1,727,334
2015	314,242	454,918	769,160	291,193	72,973	145,618	143,173	38,162	21,779	203,114	59,941	712,898	1,482,058
2016	171,648	1,002,701	1,174,348	89,723	49,442	60,262	112,474	4,675	33,587	150,736	38,262	350,163	1,524,511
2017	1,791,483	660,675	2,452,158	1,481,759	213,445	197,934	185,735	1,376	105,755	292,866	107,131	2,186,004	4,638,162
2018	798,102	1,673,816	2,471,918	445,736	550,279	149,211	172,215	6,210	72,310	250,735	78,520	1,395,961	3,867,879
2019	995,328	1,098,136	2,093,464	870,186	190,248	285,944	117,902	0	20,492	138,394	20,492	1,484,772	3,578,236
2021	1,251,359	1,624,438	2,875,798	1,114,801	468,609	501,652	386,944	28,539	51,920	467,402	80,459	2,552,464	5,428,262
2022	856,771	1,852,803	2,709,574	526,980	366,014	479,939	658,667	110,575	82,322	851,564	192,898	2,224,497	4,934,071
Beaver Inlet													
1990	943,425	190,116	1,133,540	931,192	229,362	97,860	27,006	3,088	767	30,861	3,855	1,289,273	2,422,812
1991	468,593	135,739	604,330	445,942	177,808	72,225	21,813	2,114	0	23,927	2,114	719,903	1,324,235
1994	38,944	51,504	90,449	33,987	6,696	41,015	47,599	17,014	767	65,380	17,781	147,078	237,528
1995	702,632	28,569	731,200	555,875	15,770	6,518	8,459	3,681	0	12,140	3,681	590,303	1,321,504
1999	159,645	14,596	174,242	145,888	7,207	5,851	1,534	0	1,534	3,068	1,534	162,014	336,256
2000	249,885	19,436	269,322	215,525	19,500	11,892	2,577	0	0	2,577	0	249,491	518,813
2003	70,873	94,779	165,650	135,143	109,191	51,213	5,409	0	0	5,409	0	300,956	466,607
2006	369,585	62,136	431,720	323,375	19,289	31,636	13,844	829	0	14,673	829	388,974	820,694
2009	228,442	69,778	298,220	207,989	35,479	87,445	14,992	1,003	0	15,995	1,003	346,907	645,128
2012	334,008	11,153	345,161	304,359	2,508	6,042	8,550	0	1,161	9,711	1,161	322,619	667,781
2015	30,257	65,922	96,178	27,473	17,206	32,770	7,702	0	0	7,702	0	85,151	181,330
2018	165,431	14,611	180,040	161,260	3,482	2,508	2,770	0	0	2,770	0	170,019	350,059
2021	412,537	2,505	415,042	396,895	4,546	0	0	0	0	0	0	401,441	816,486
Usof Bay													
1990	97,777	24,414	122,190	97,607	96,108	28,041	1,957	541	0	2,498	541	224,252	346,442
1991	84,679	69,979	154,658	219,357	245,549	63,800	26,863	4,396	2,625	33,884	7,021	562,591	717,249
1994	15,007	3,500	18,507	13,151	8,412	5,957	7,601	875	0	8,476	875	35,995	54,501
1995	32,329	3,301	35,630	40,438	9,693	6,681	4,375	0	2,625	7,000	2,625	63,812	99,442
1999	76,557	10,787	87,344	67,910	12,590	2,405	0	0	0	0	0	82,905	170,250
2000	50,848	7,689	58,537	47,161	4,465	4,465	0	0	0	0	0	56,089	114,626
2003	29,595	67,884	97,479	32,895	85,721	148,258	29,458	0	873	30,331	873	297,204	394,683

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Table 12.—Page 4 of 5.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70-91 mm	92-114 mm	>114 mm						
Akun Bay													
1990	1,991	1,063	3,055	0	0	0	0	0	0	0	0	0	3,055
1991	0	0	0	928	0	0	0	0	0	0	0	928	928
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	5,317	0	4,253	4,253	0	0	0	0	0	8,506	13,823
2000	3,158	5,317	8,474	6,348	3,190	0	0	0	0	0	0	9,537	18,012
2003	0	3,055	3,055	0	1,063	2,127	0	0	0	0	0	3,190	6,245
Pumicestone Bay													
1990	48,373	0	48,373	48,114	668	0	0	0	0	0	0	48,783	97,156
1991	23,621	228	23,849	18,668	5,696	1,139	0	0	228	228	228	25,732	49,580
1994	6,350	896	7,246	5,635	5,225	5,149	668	0	0	668	0	16,678	23,924
1995	10,055	3,493	13,550	9,289	3,903	3,698	1,337	0	0	1,337	0	18,228	31,777
1999	12,836	0	12,836	8,408	1,153	0	1,485	743	743	2,971	1,485	12,531	25,367
2000	3,253	1,485	4,738	342	743	0	2,970	743	0	3,713	743	4,798	9,536
2003	225,266	20,529	245,795	276,451	76,811	25,134	2,673	668	0	3,341	668	381,738	627,533
2004	49,246	873	50,120	31,511	1,747	2,673	668	0	0	668	0	36,601	86,719
2005	45,475	19,382	64,857	41,520	19,382	48,790	7,352	1,337	668	9,357	2,005	119,050	183,907
2006	35,646	10,532	46,178	51,545	17,266	17,393	6,912	0	456	7,368	456	93,571	139,748
2007	230,825	2,570	233,394	224,319	29,987	2,570	0	0	0	0	0	256,876	490,270
2008	42,835	4,466	47,301	67,083	128,050	32,195	1,936	0	0	1,936	0	229,263	276,565
2009	10,273	1,181	11,453	9,137	5,026	9,347	1,437	0	0	1,437	0	24,948	36,401
2010	17,943	4,614	22,557	20,896	11,032	11,431	5,526	0	0	5,526	0	48,883	71,441
2011	251,840	513	252,353	231,496	2,563	0	0	1,376	0	1,376	1,376	235,436	487,789
2012	97,844	9,741	107,585	87,508	13,586	3,076	769	256	0	1,025	256	105,194	212,779
2013	59,780	15,525	75,305	33,502	14,468	8,780	2,021	1,352	0	3,373	1,352	60,122	135,427
2014	17,919	655	18,575	13,589	2,877	655	655	0	0	655	0	17,777	36,352
Cape Idak													
1990	3,255	3,662	6,917	0	2,713	0	2,713	0	3,255	5,968	3,255	8,680	15,597
1991	119,622	2,848	122,470	122,470	3,797	949	1,898	0	0	1,898	0	129,114	251,585
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	3,798	3,798	3,798	1,898	0	0	0	0	0	9,494	13,292

-continued-

Table 12.—Page 5 of 5.

Year	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
	Juvenile	Mature	Total	<70 mm	70-91 mm	92-114 mm	>114 mm						
2000	12,342	5,697	18,039	18,038	19,937	9,493	949	0	0	949	0	48,419	66,456
2003	0	6,646	6,646	1,898	9,493	18,038	0	0	0	0	0	29,431	36,076
Inanudak Bay													
1990	4,462	0	4,462	0	0	2,936	949	0	0	949	0	3,885	8,347
1994	2,904	0	2,904	1,452	0	0	0	0	0	0	0	1,452	4,356
EASTERN ALEUTIAN DISTRICT TOTALS													
1990	3,115,822	1,663,588	4,779,410	2,720,667	1,381,467	730,194	345,941	37,253	29,525	412,719	66,778	5,245,042	10,024,452
1991	2,554,395	1,145,326	3,699,719	2,652,595	1,078,309	779,331	551,249	37,470	64,134	652,853	101,605	5,163,091	8,862,812
1994	228,952	216,841	445,793	203,927	53,667	162,012	197,048	56,617	4,846	258,511	61,465	678,118	1,123,911
1995	915,606	134,540	1,050,146	730,505	68,306	98,556	165,046	8,877	19,718	193,641	28,596	1,091,009	2,141,155
1999	1,140,268	979,188	2,119,459	869,315	305,026	1,018,551	1,386,951	339,631	60,362	1,786,944	399,992	3,979,837	6,099,296
2000	1,299,205	1,560,706	2,859,910	876,324	433,827	523,433	522,337	130,095	32,277	684,709	162,373	2,518,289	5,378,199
2003	520,939	2,017,932	2,538,869	614,894	508,606	980,402	1,026,705	311,241	334,419	1,672,365	645,660	3,776,270	6,315,138
2004	685,764	1,809,572	2,495,338	603,375	408,437	564,836	615,674	436,992	97,667	1,150,333	534,661	2,726,983	5,222,319
2005	1,342,526	960,388	2,302,915	1,131,282	495,127	366,123	635,543	234,524	237,960	1,108,027	472,483	3,100,558	5,403,474
2006	1,234,942	717,064	1,952,006	1,116,179	440,298	454,622	518,156	71,872	671,146	1,261,174	743,018	3,272,272	5,224,276
2007	3,957,988	3,232,113	7,190,100	2,194,743	1,068,988	1,101,121	782,269	124,473	394,881	1,301,623	519,354	5,666,475	12,856,575
2008	779,337	3,529,373	4,308,709	567,494	690,584	722,309	940,078	135,617	267,512	1,343,207	403,130	3,323,595	7,632,306
2009	720,670	4,046,181	4,766,849	527,162	293,743	834,585	881,962	179,899	206,688	1,268,549	386,587	2,924,039	7,690,889
2010	545,970	784,550	1,330,521	351,262	136,581	254,715	530,915	81,219	83,290	695,424	164,509	1,437,980	2,768,501
2011	489,477	794,274	1,283,751	410,637	72,826	195,169	449,048	32,503	81,190	562,741	113,692	1,241,374	2,525,125
2012	806,505	1,197,583	2,004,087	670,004	213,877	354,950	613,976	42,765	256,204	912,945	298,968	2,151,773	4,155,862
2013	2,201,516	1,554,590	3,756,105	1,388,644	385,145	408,713	328,535	21,913	73,080	423,528	94,993	2,606,030	6,362,135
2014	936,680	2,492,859	3,429,540	729,530	1,108,911	1,161,672	781,302	36,618	118,354	936,274	154,971	3,936,388	7,365,927
2015	940,936	808,529	1,749,464	835,846	269,664	331,932	320,711	56,895	21,779	399,385	78,674	1,836,828	3,586,292
2016	260,976	1,425,851	1,686,827	142,515	239,086	405,813	199,603	6,270	34,582	240,455	40,852	1,027,870	2,714,698
2017	2,285,154	4,605,478	6,890,632	1,824,592	410,640	495,868	336,278	13,388	115,479	465,145	128,867	3,196,244	10,086,876
2018	1,375,400	2,980,234	4,355,631	833,304	700,176	352,875	408,182	30,534	108,935	547,651	139,469	2,434,006	6,789,638
2019	1,634,268	2,084,998	3,719,266	1,341,070	523,114	471,637	169,539	1,416	20,492	191,447	21,908	2,527,269	6,246,536
2021	2,572,694	2,161,045	4,733,740	2,566,052	1,691,509	757,476	418,638	31,399	51,920	501,957	83,319	5,516,992	10,250,735
2022	1,229,103	2,651,584	3,880,687	882,743	812,610	746,760	752,913	117,086	82,321	952,320	199,409	3,394,433	7,275,121

Table 13.—Skate catch in kilograms and number caught by sex and species from the large-mesh bottom trawl survey, 2022.

Species	Weight (kg)	Male	Female	Unsexed	Total count
Bering skate	1,514	474	431	0	905
longnose skate	4,833	444	448	2	894
big skate	6,511	119	381	1	501
Aleutian skate	1,297	66	132	0	198
Alaska skate	255	29	16	0	45
Total	14,411	1,132	1,408	3	2,543

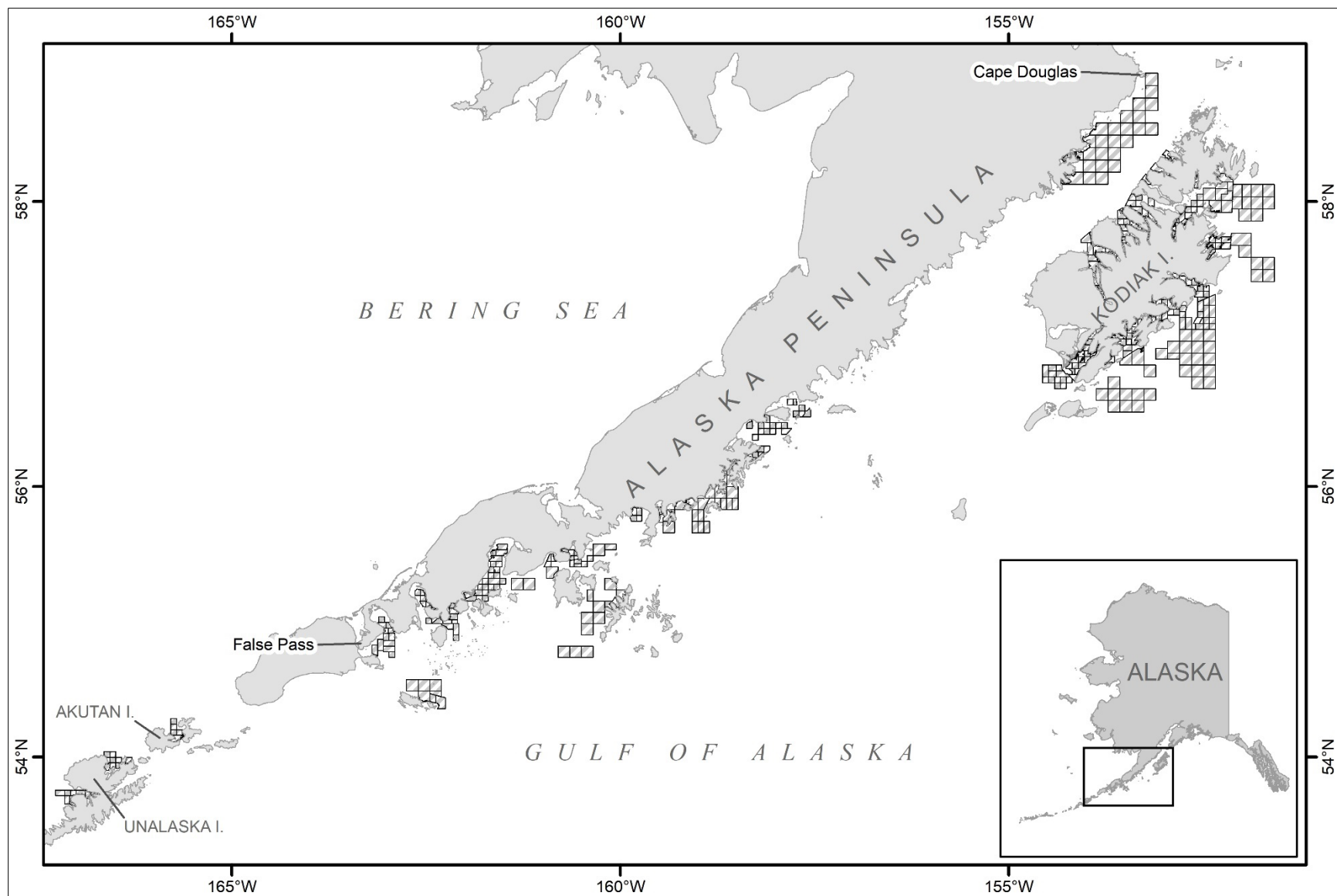


Figure 1.—Large-mesh bottom trawl survey stations, 2022.

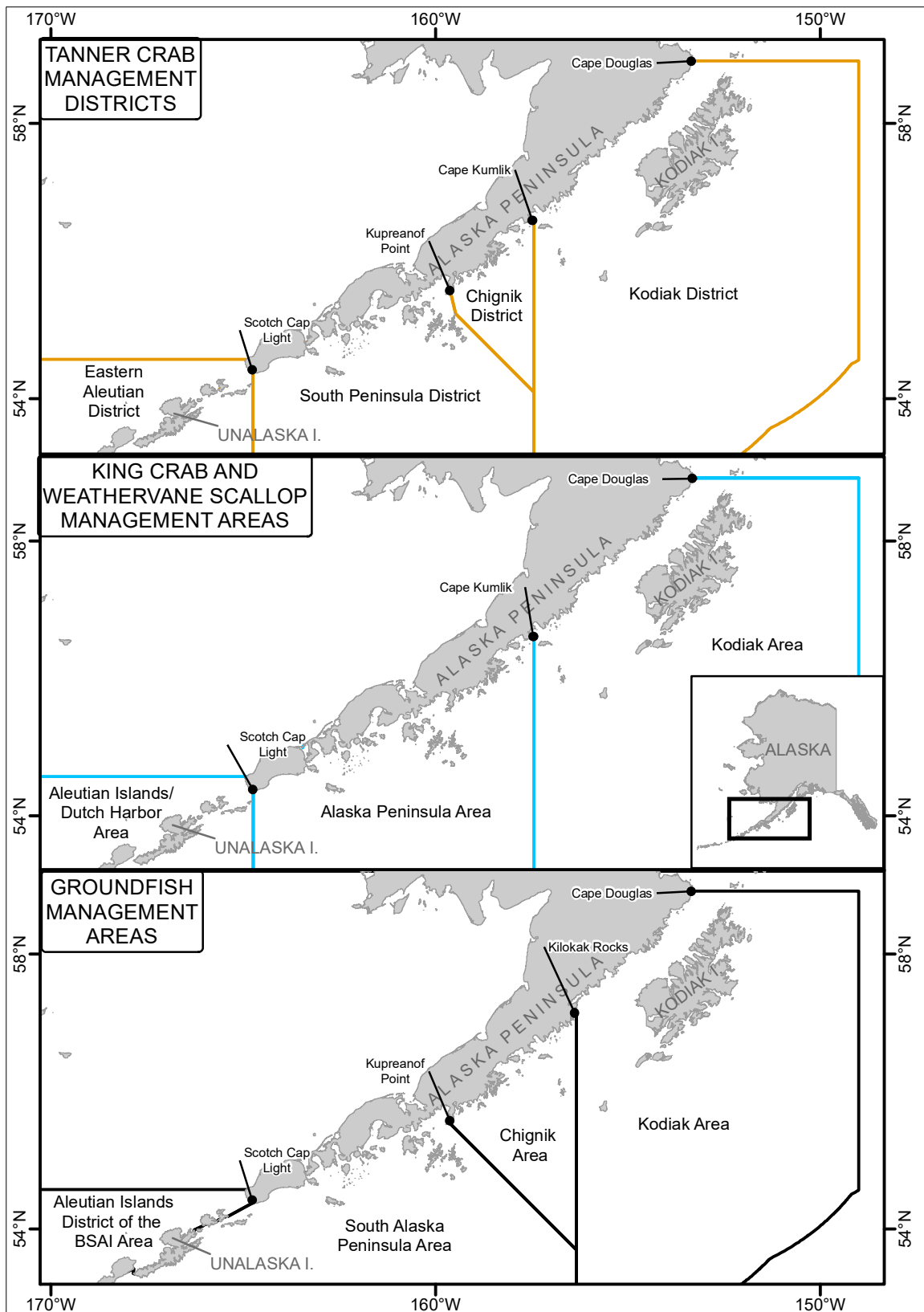


Figure 2.—Tanner crab, king crab, weathervane scallop, and groundfish management units in the bottom trawl survey area.

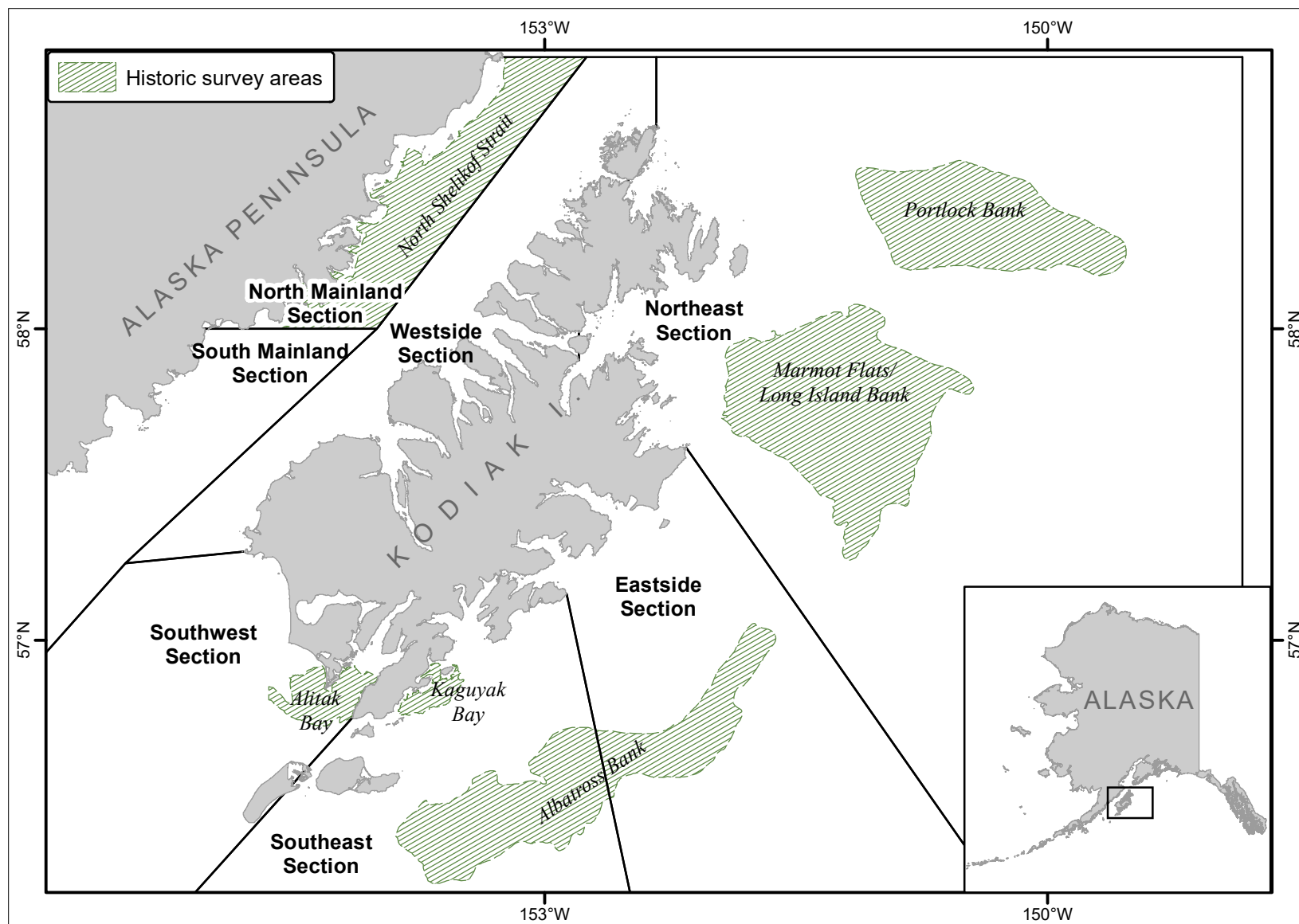


Figure 3.—Historical trawl survey areas and current Tanner crab management sections in the Kodiak District.

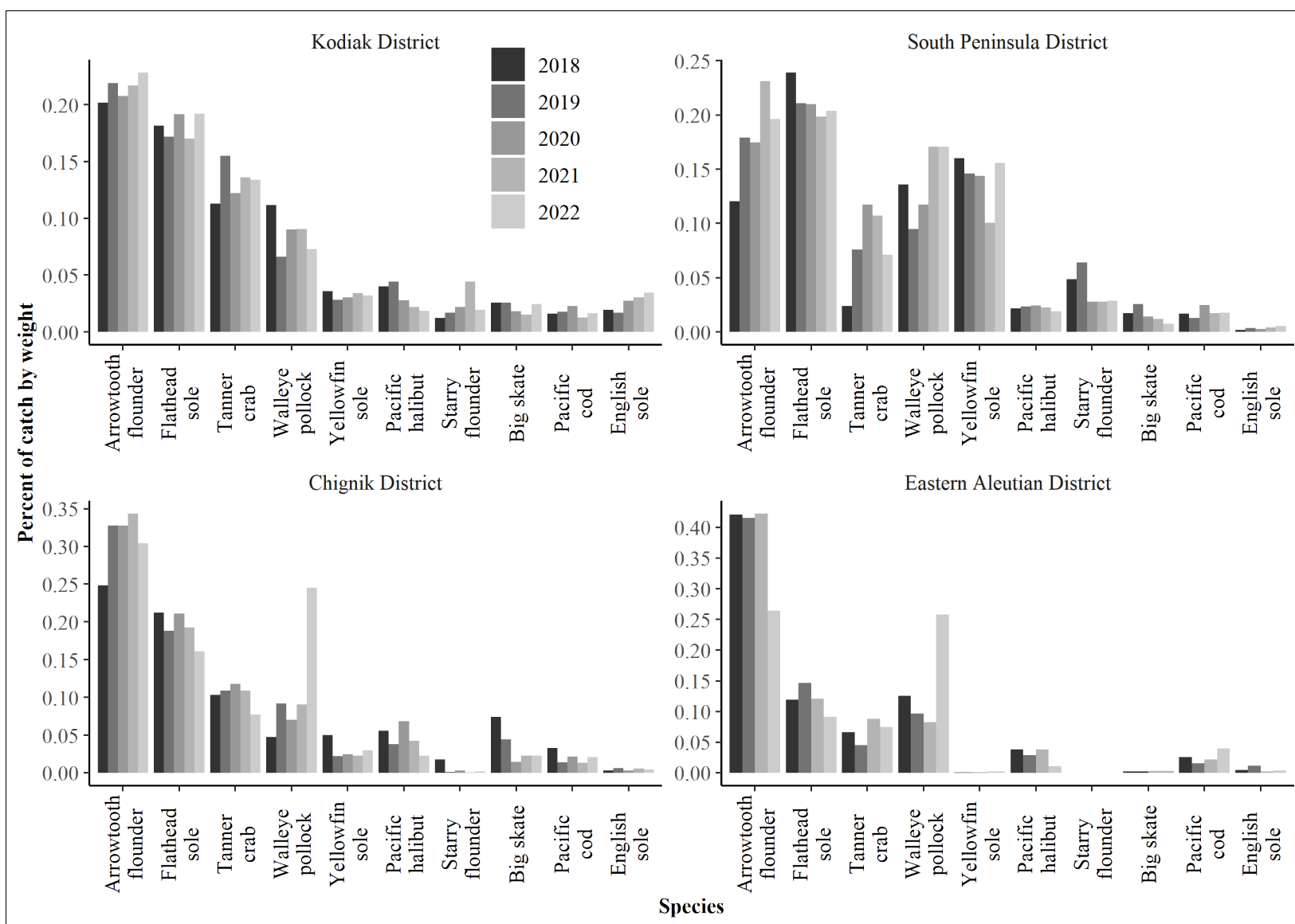


Figure 4.—Top species caught by weight in the large-mesh bottom trawl surveys by district, 2018–2022.

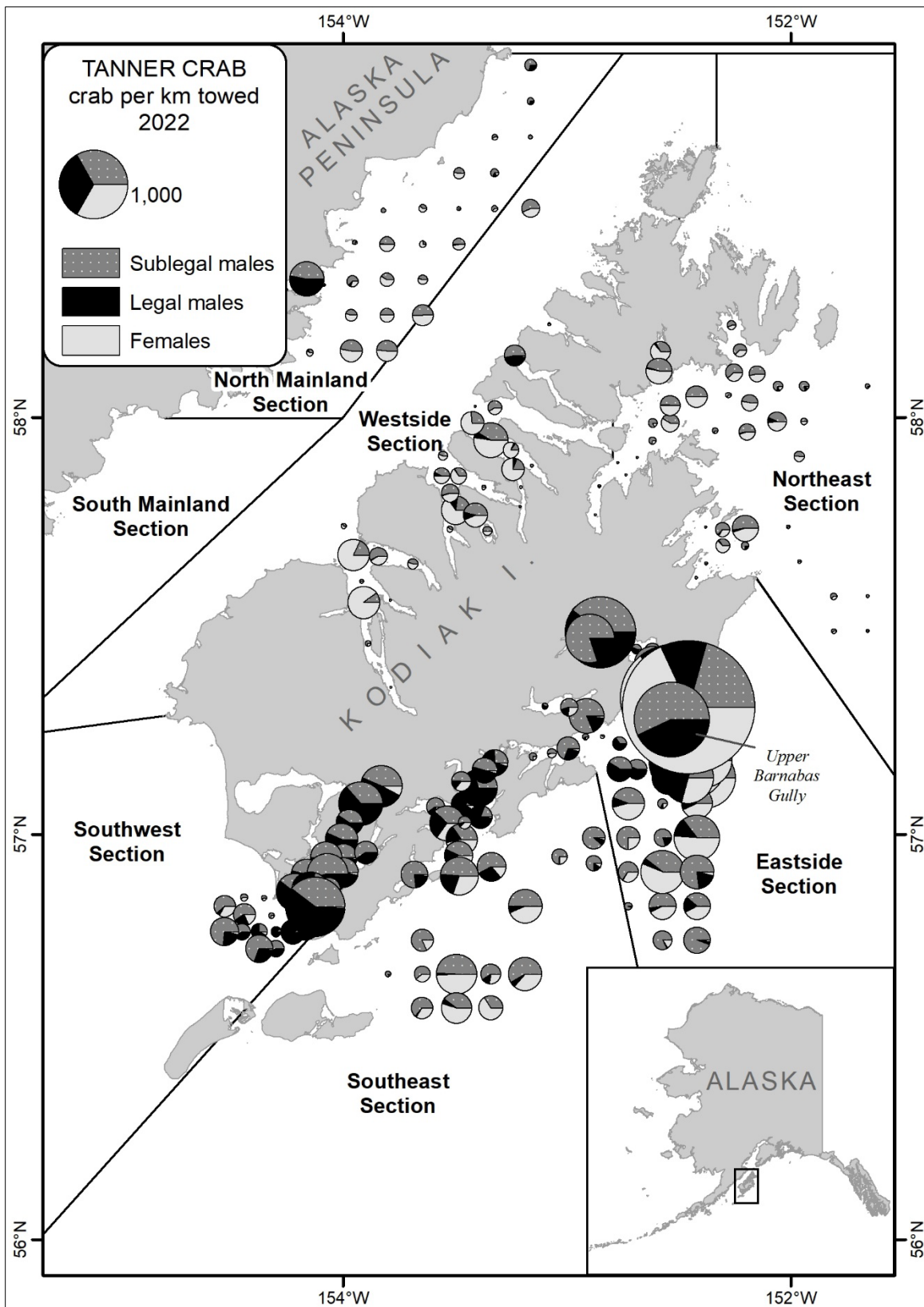


Figure 5.—Number of Tanner crab per kilometer towed in the 2022 Kodiak District large-mesh bottom trawl survey.

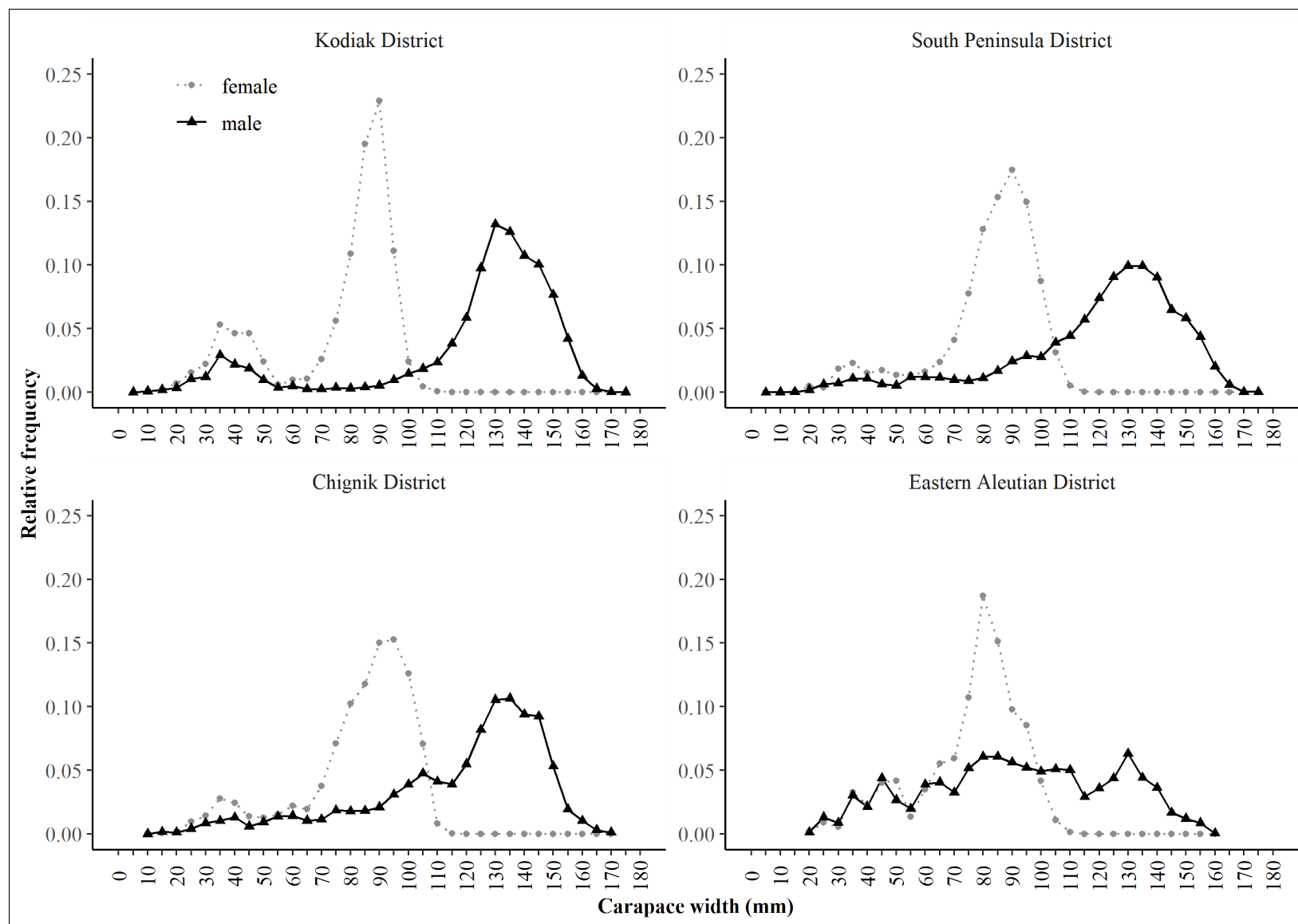


Figure 6.—Tanner crab relative size frequency by sex and district from the 2022 large-mesh bottom trawl survey.

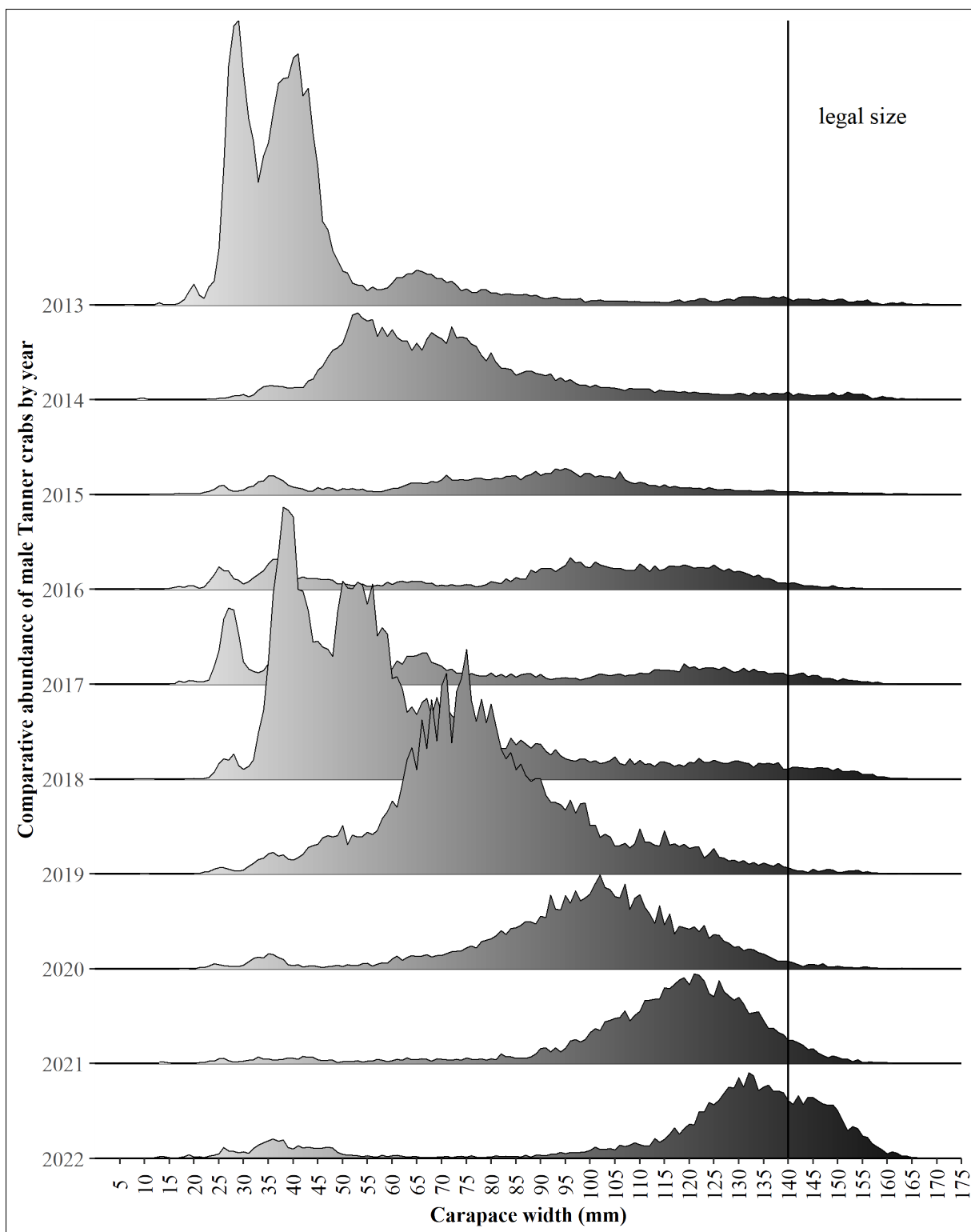


Figure 7.—Tanner crab male abundance estimate by carapace width in the Kodiak District large-mesh bottom trawl surveys, 2013–2022.

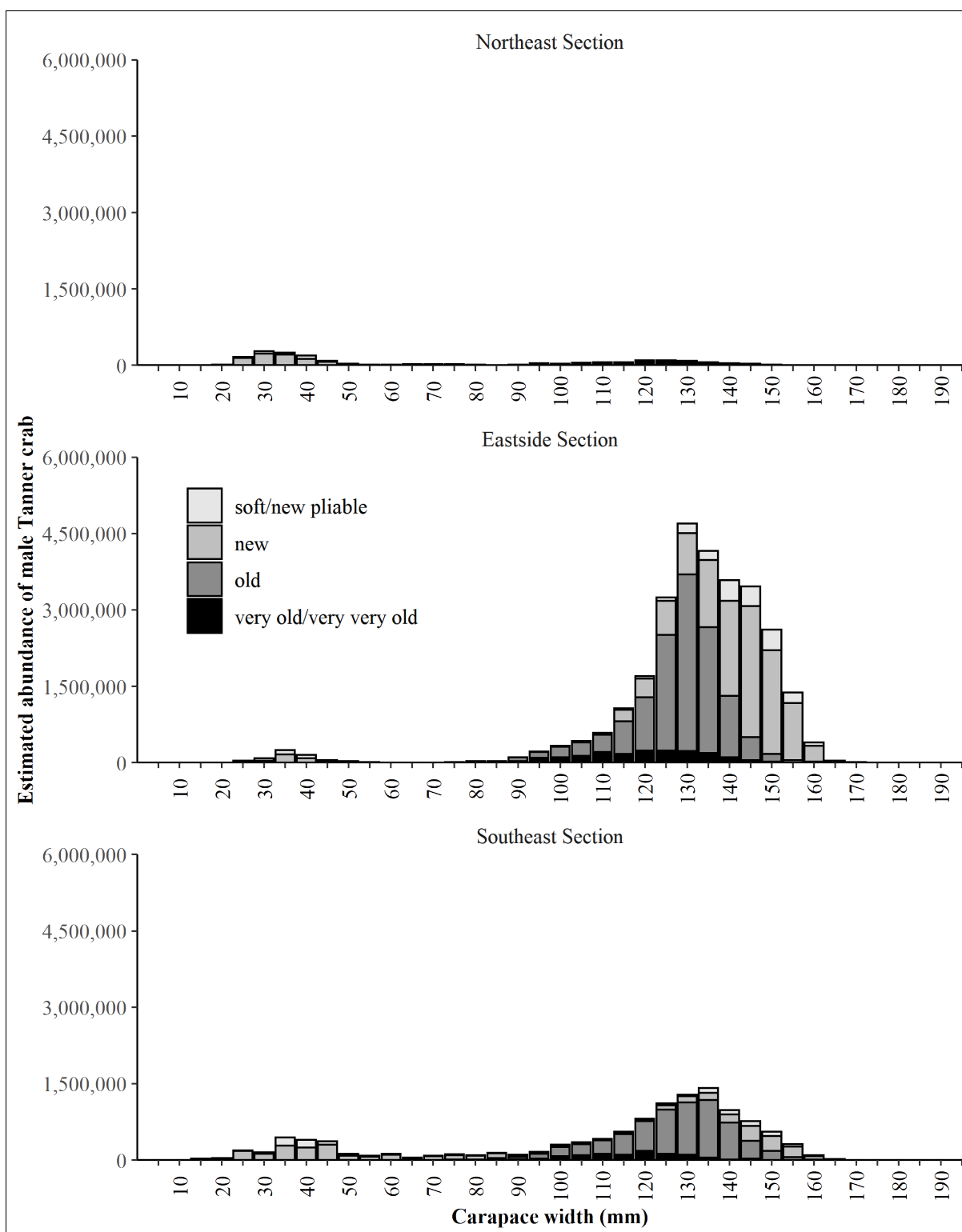


Figure 8.—Tanner crab male abundance estimate by carapace width and shell condition from the Northeast, Eastside, and Southeast Sections of the 2022 Kodiak District large-mesh bottom trawl survey.

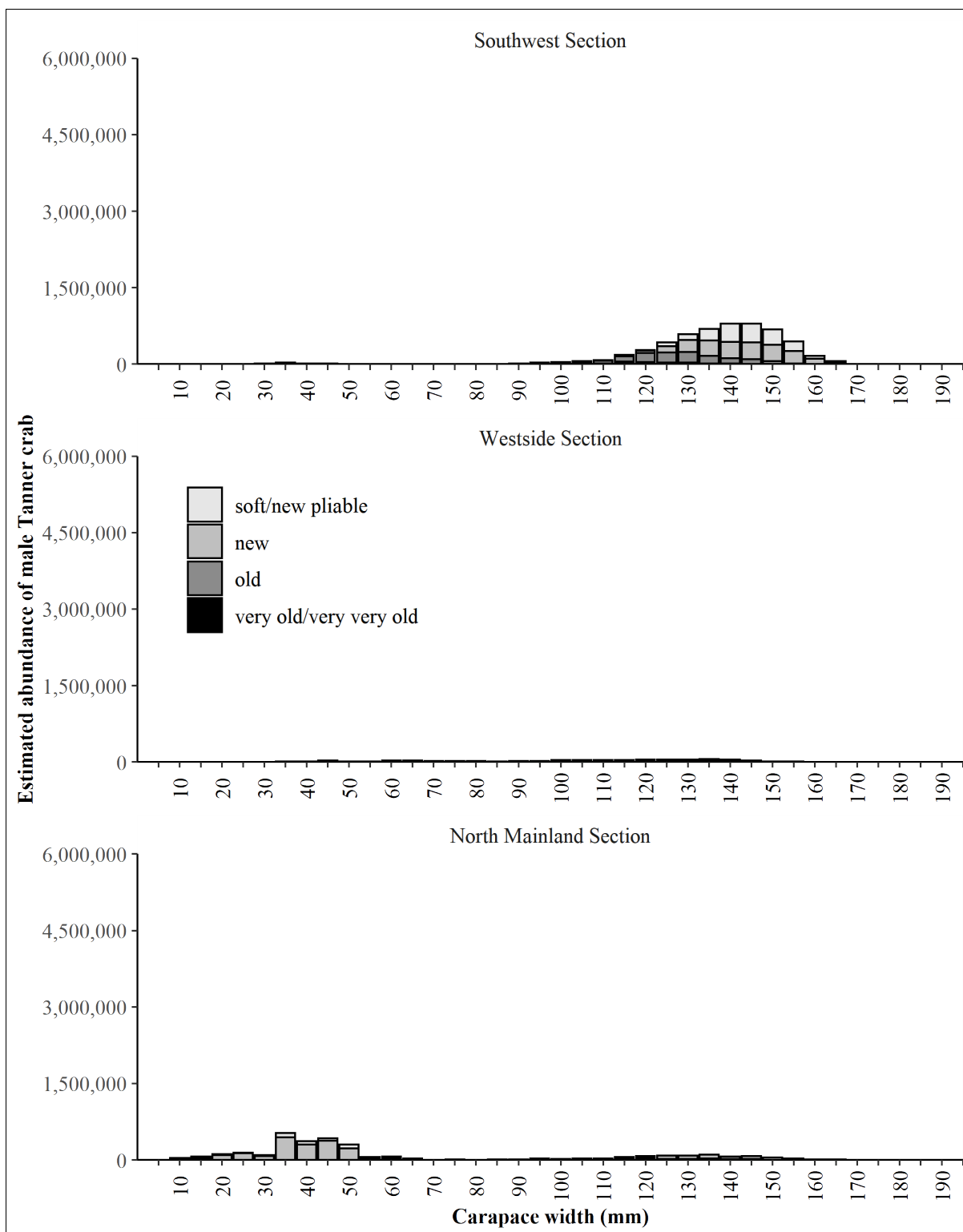


Figure 9.—Tanner crab male abundance estimate by carapace width and shell condition from the Southwest and Westside Sections of the 2022 Kodiak District large-mesh bottom trawl survey.

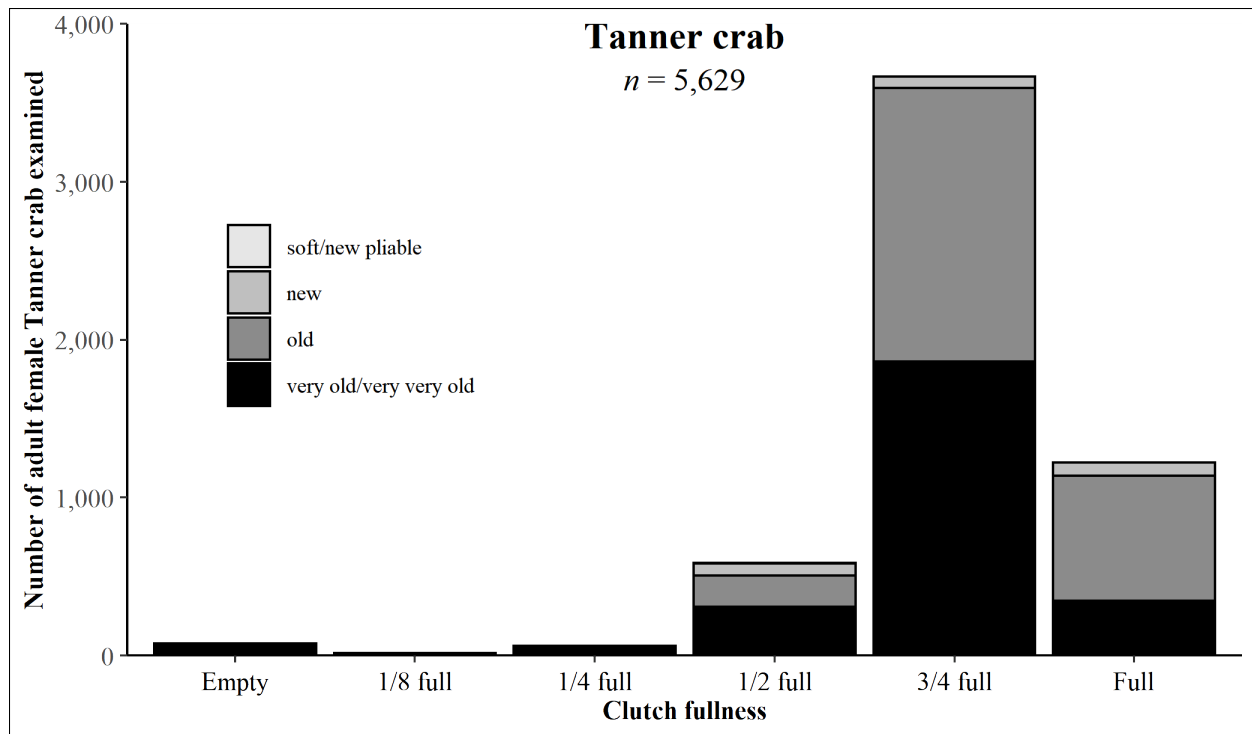


Figure 10.—Tanner crab mature female egg clutch fullness by shell condition in the Kodiak District large-mesh bottom trawl survey, 2022.

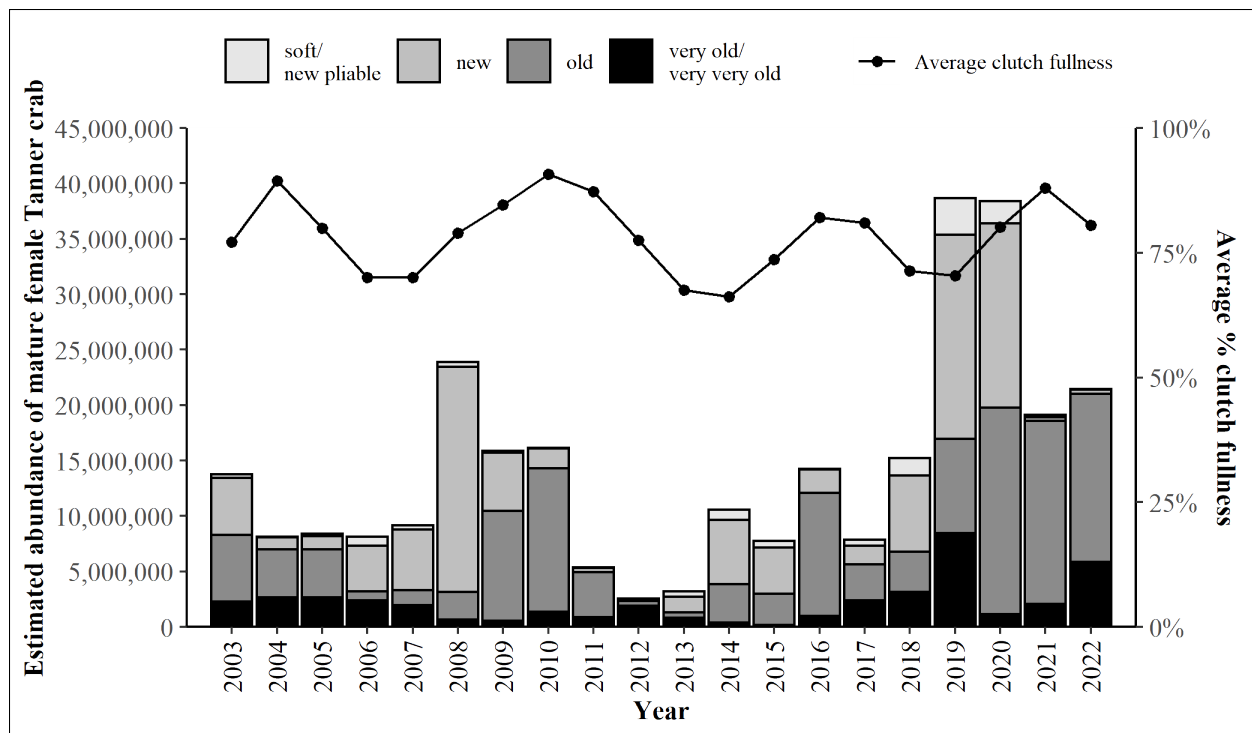


Figure 11.—Tanner crab mature female abundance by shell condition and average clutch fullness for the Kodiak District from the 2003–2022 large-mesh bottom trawl surveys.

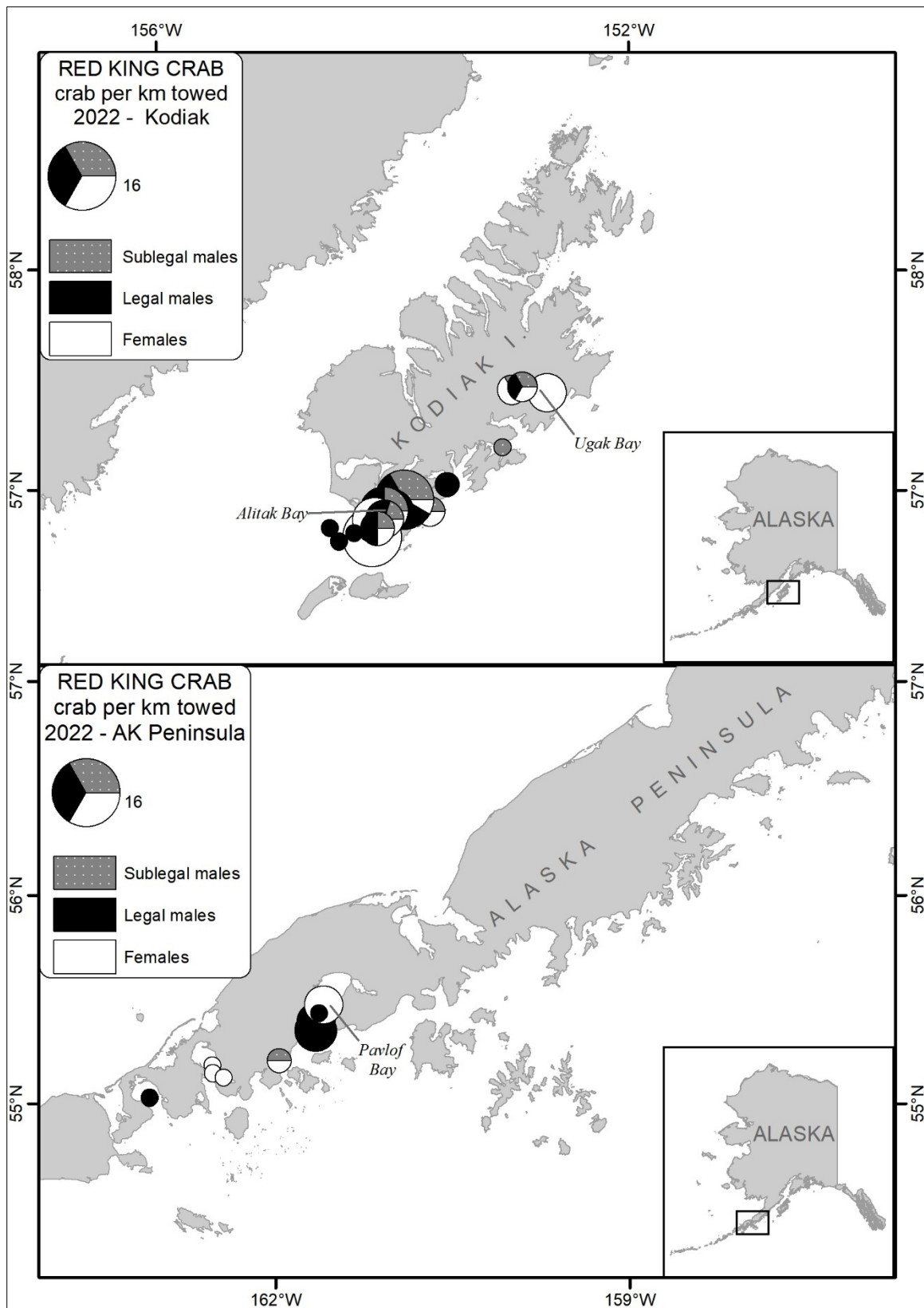


Figure 12.—Number of red king crab per kilometer towed in the 2022 Kodiak (upper) and Alaska Peninsula (lower) Areas large-mesh bottom trawl survey.

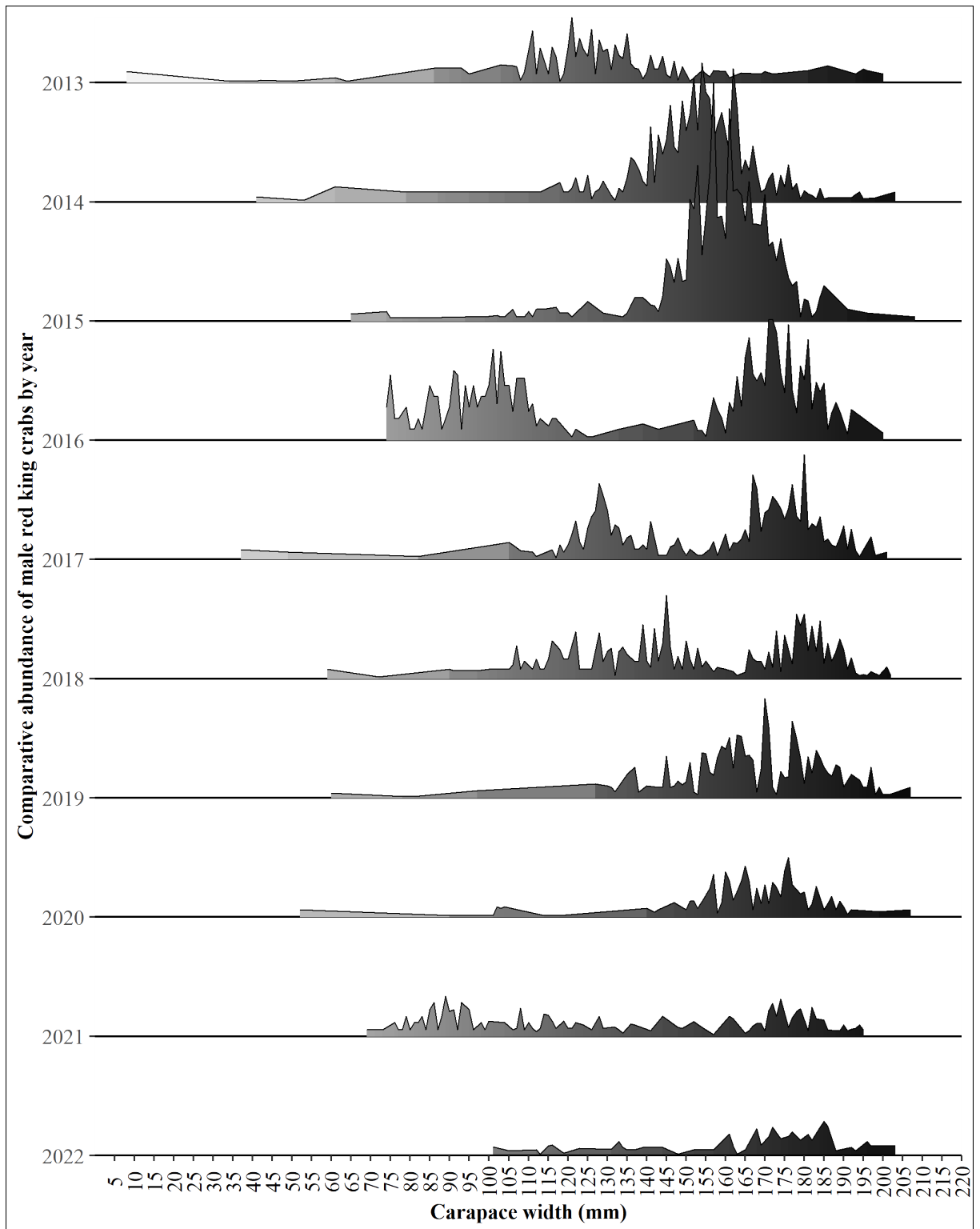


Figure 13.—Red king crab male abundance estimate by carapace length in the Kodiak Area large-mesh bottom trawl surveys, 2013–2022.

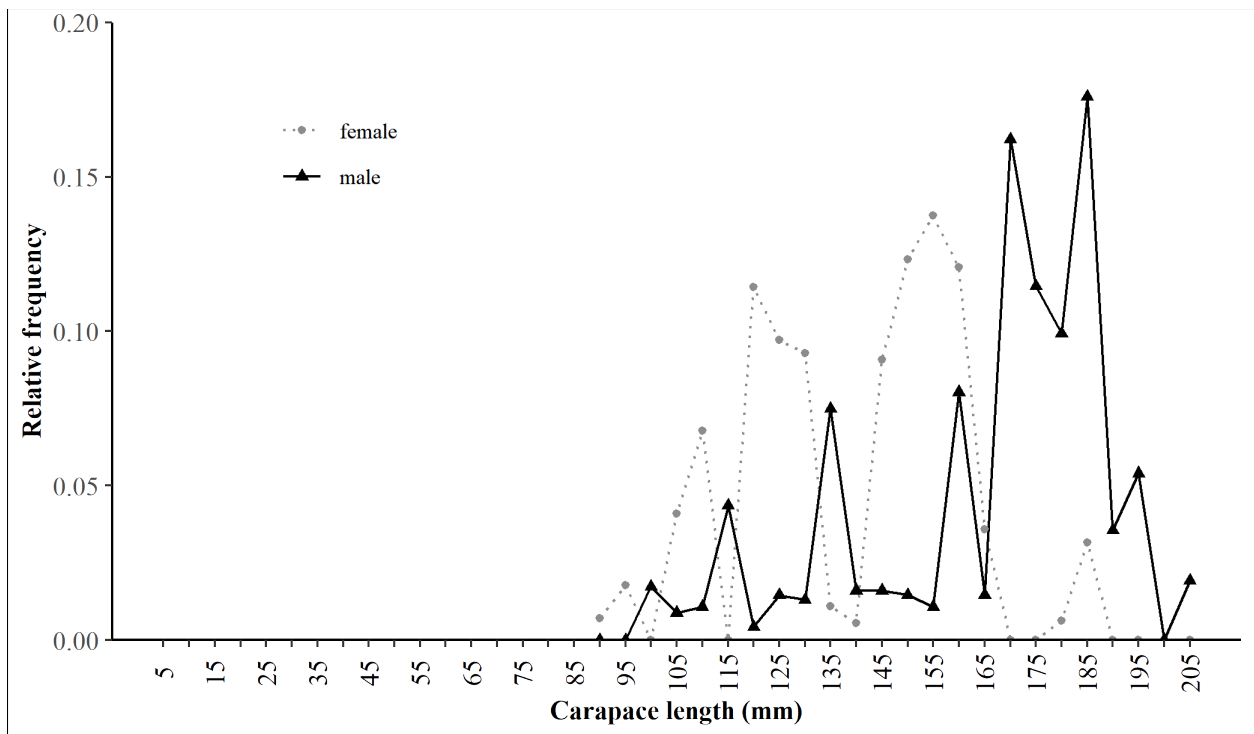


Figure 14.–Red king crab relative size frequency by sex from the Kodiak Area large-mesh bottom trawl survey, 2022.

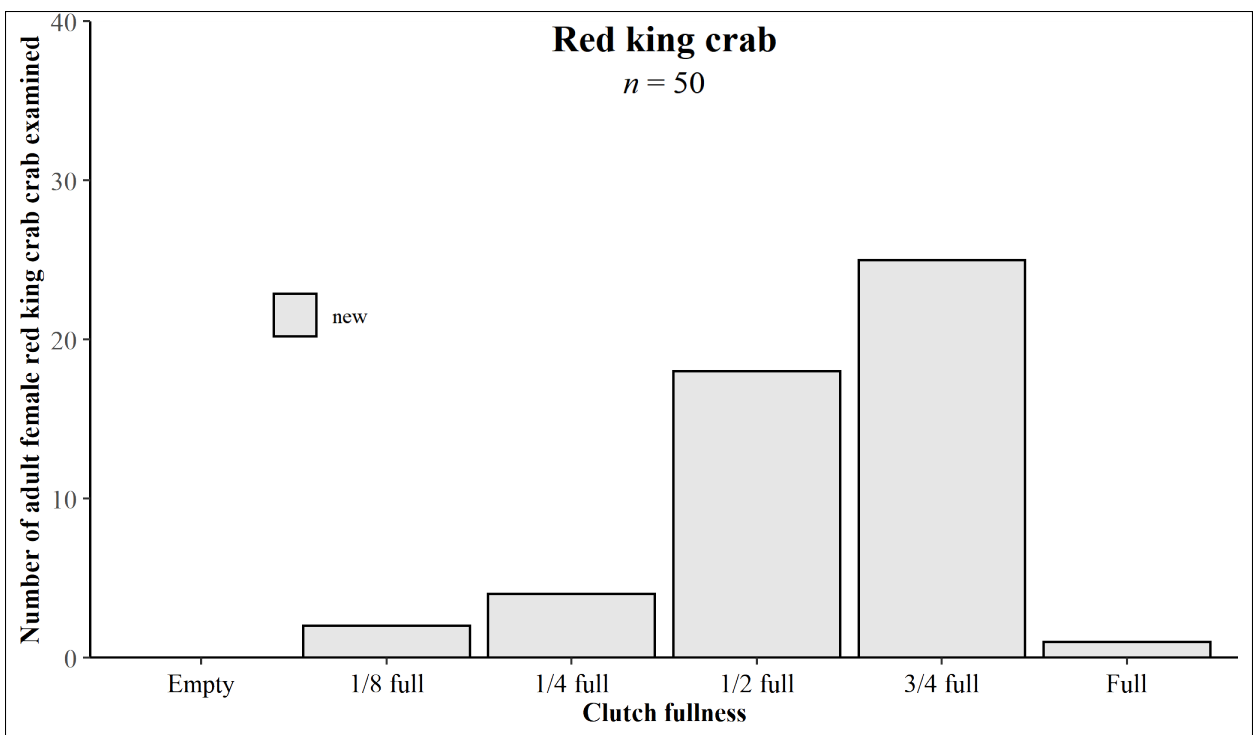


Figure 15.–Red king crab mature female egg clutch fullness by shell condition in the Kodiak Area large-mesh bottom trawl survey, 2022.

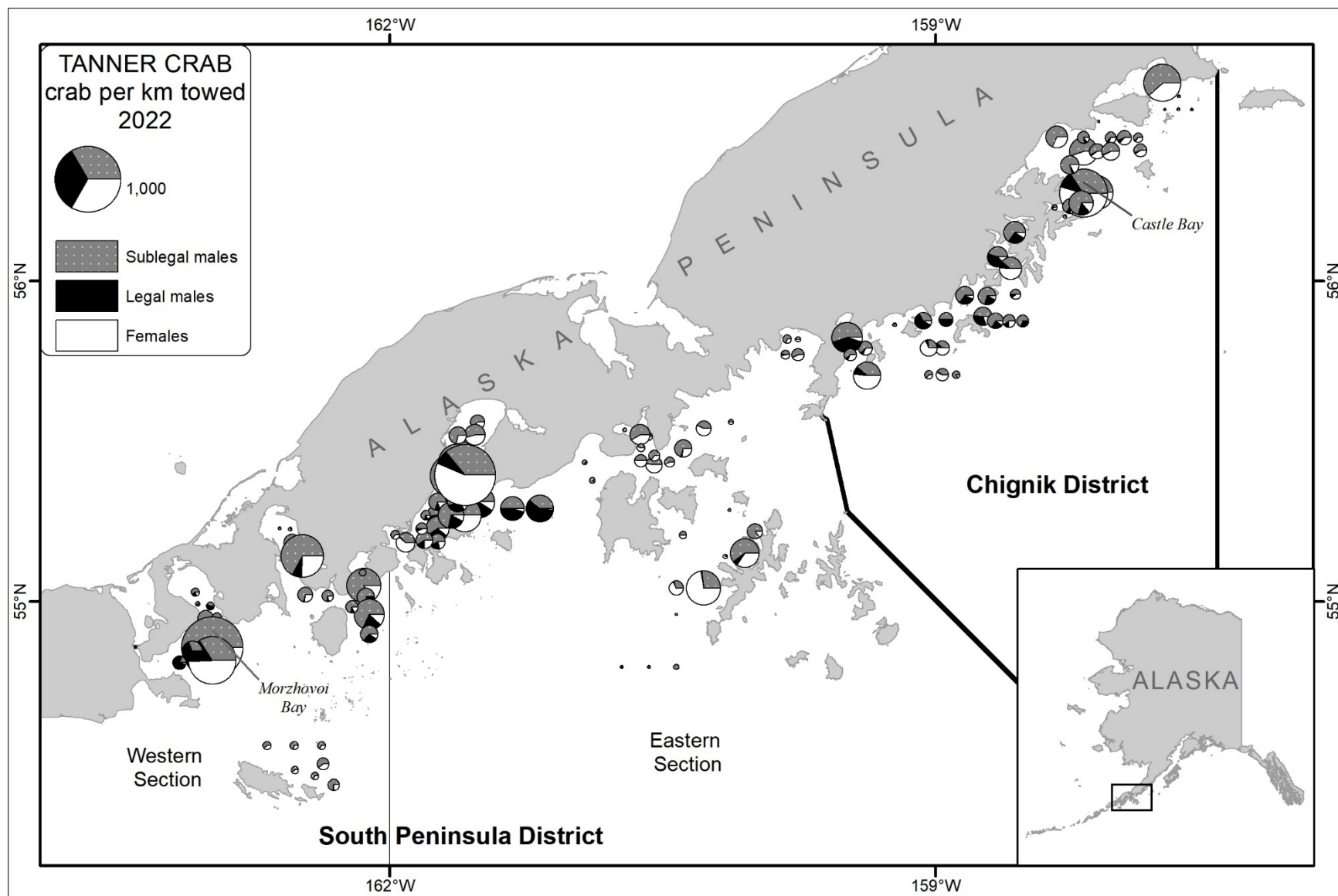


Figure 16.—Number of Tanner crab per kilometer towed in the 2022 South Peninsula and Chignik Districts large-mesh bottom trawl survey.

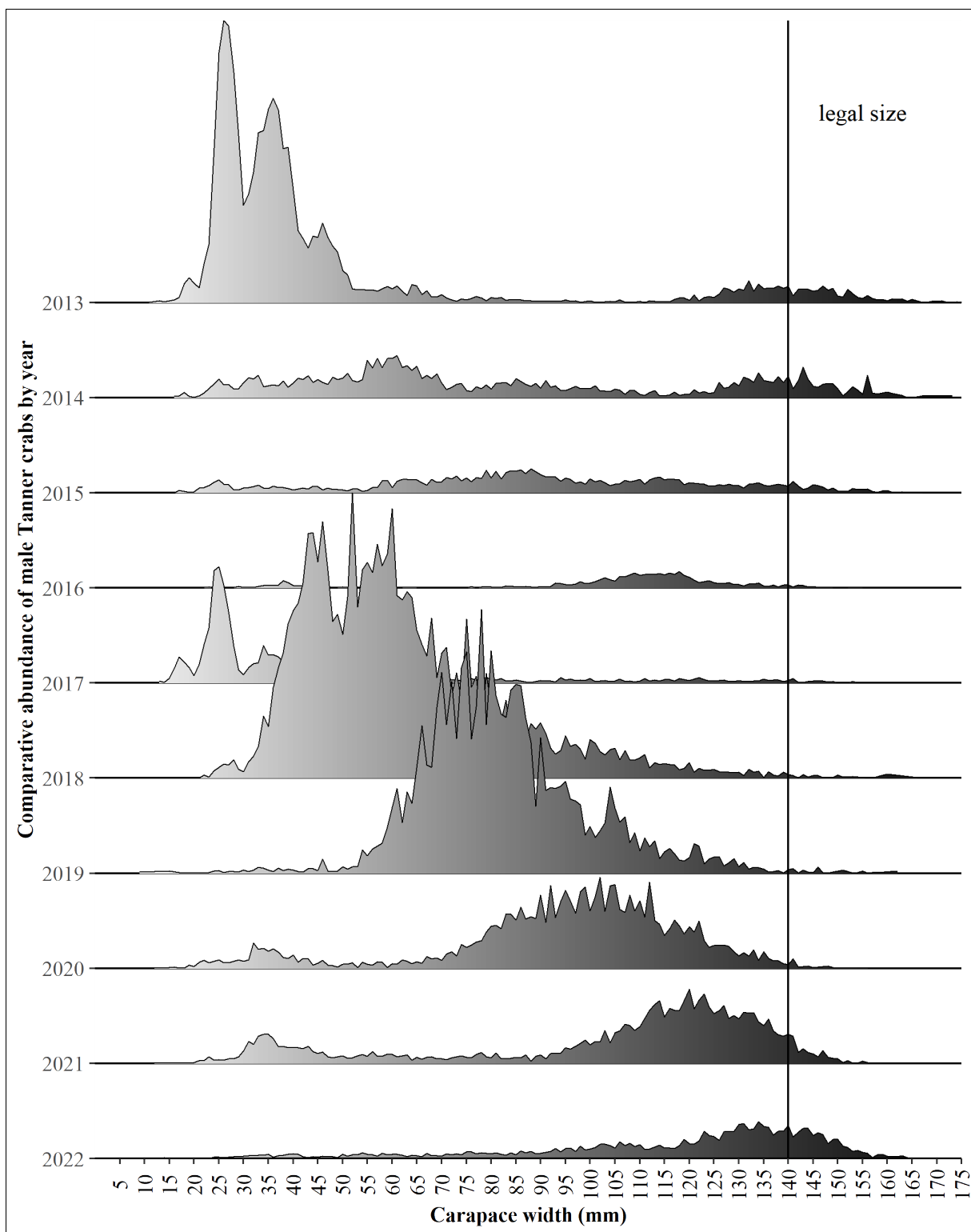


Figure 17.—Tanner crab male abundance estimate by carapace width in the Chignik District large-mesh bottom trawl surveys, 2013–2022.

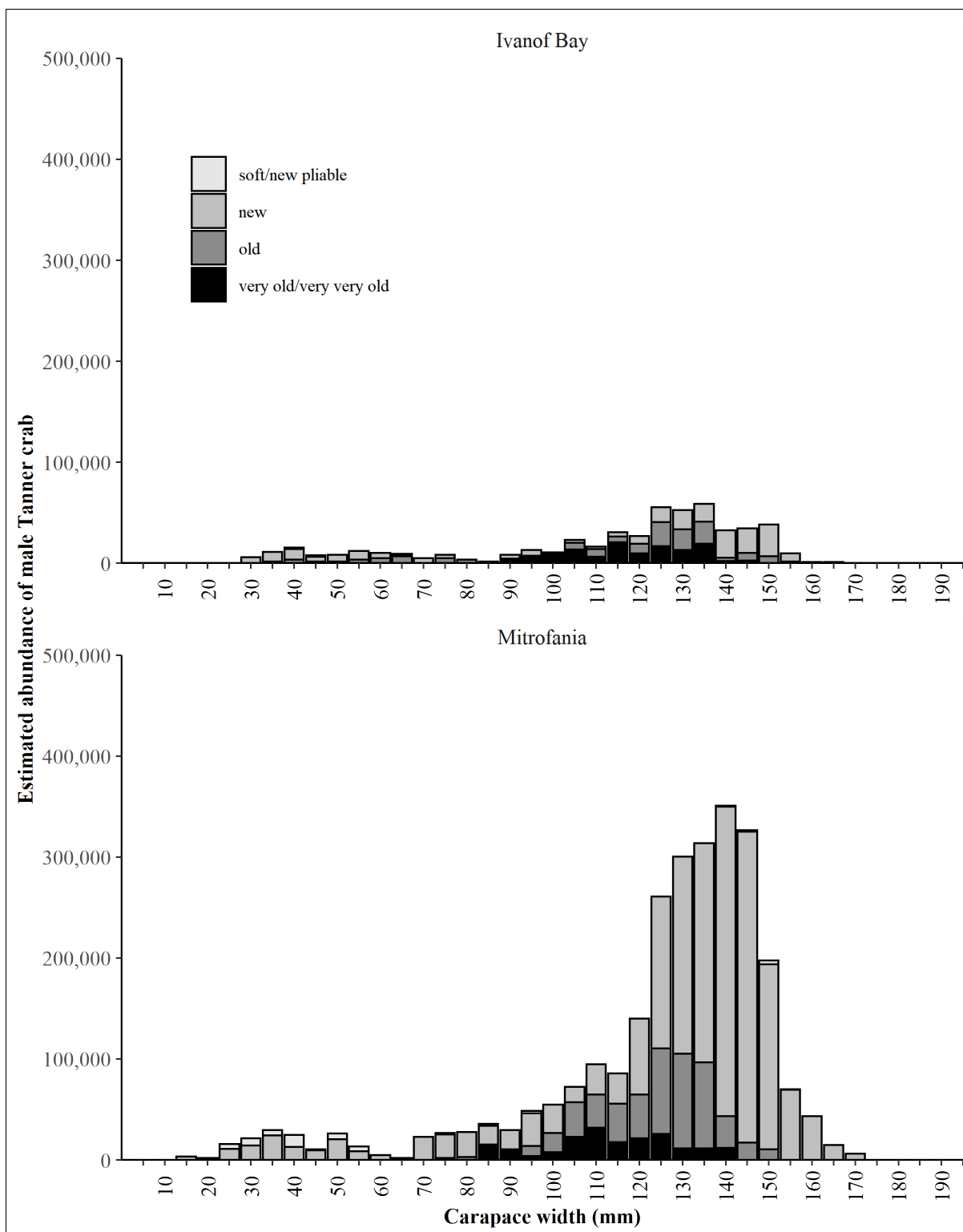


Figure 18.—Tanner crab male abundance estimate by carapace width and shell condition from Ivanof Bay and Mitrofanina in the 2022 Chignik District large-mesh bottom trawl survey.

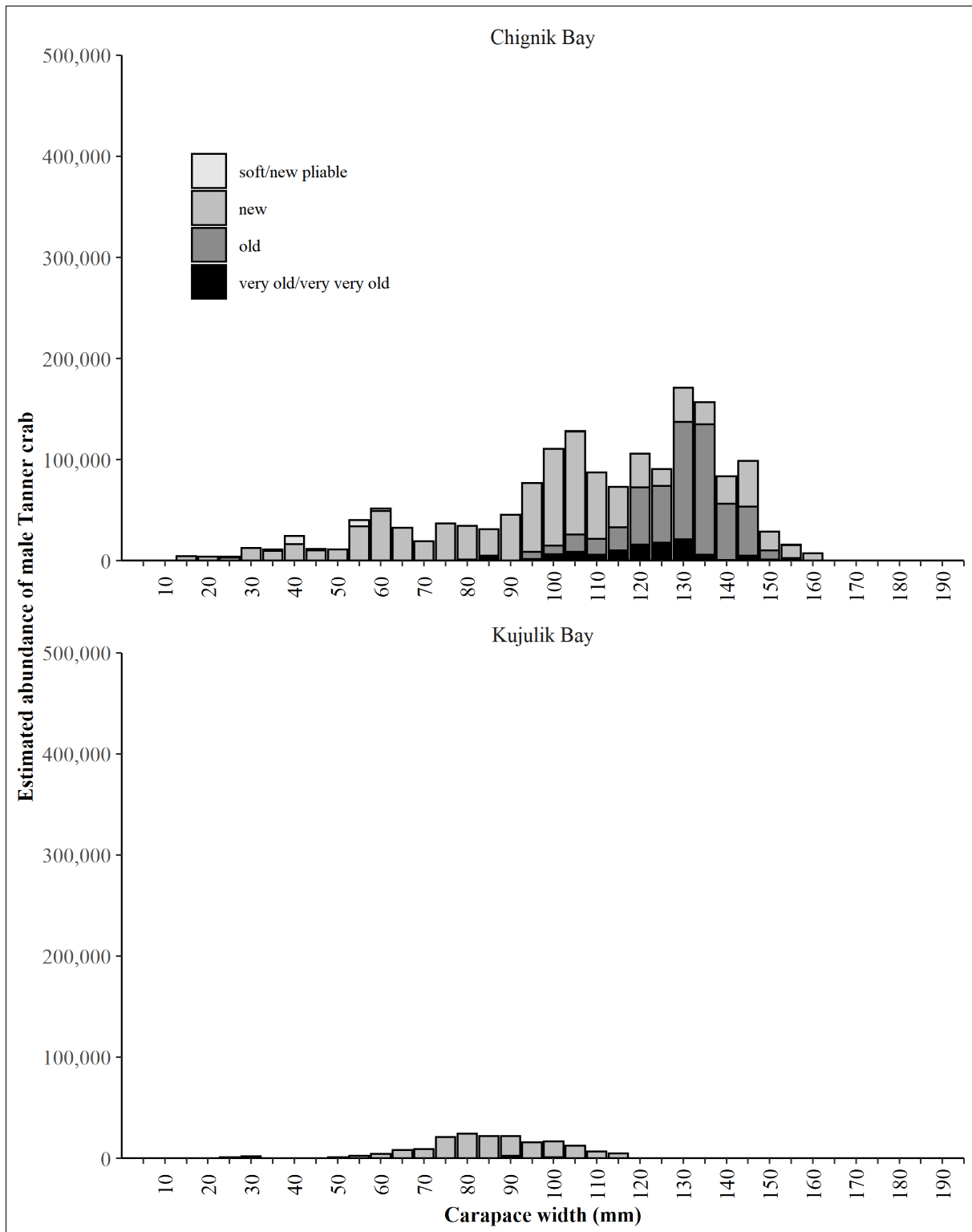


Figure 19.—Tanner crab male abundance estimate by carapace width and shell condition from Chignik Bay and Kujulik Bay in the 2022 Chignik District large-mesh bottom trawl survey.

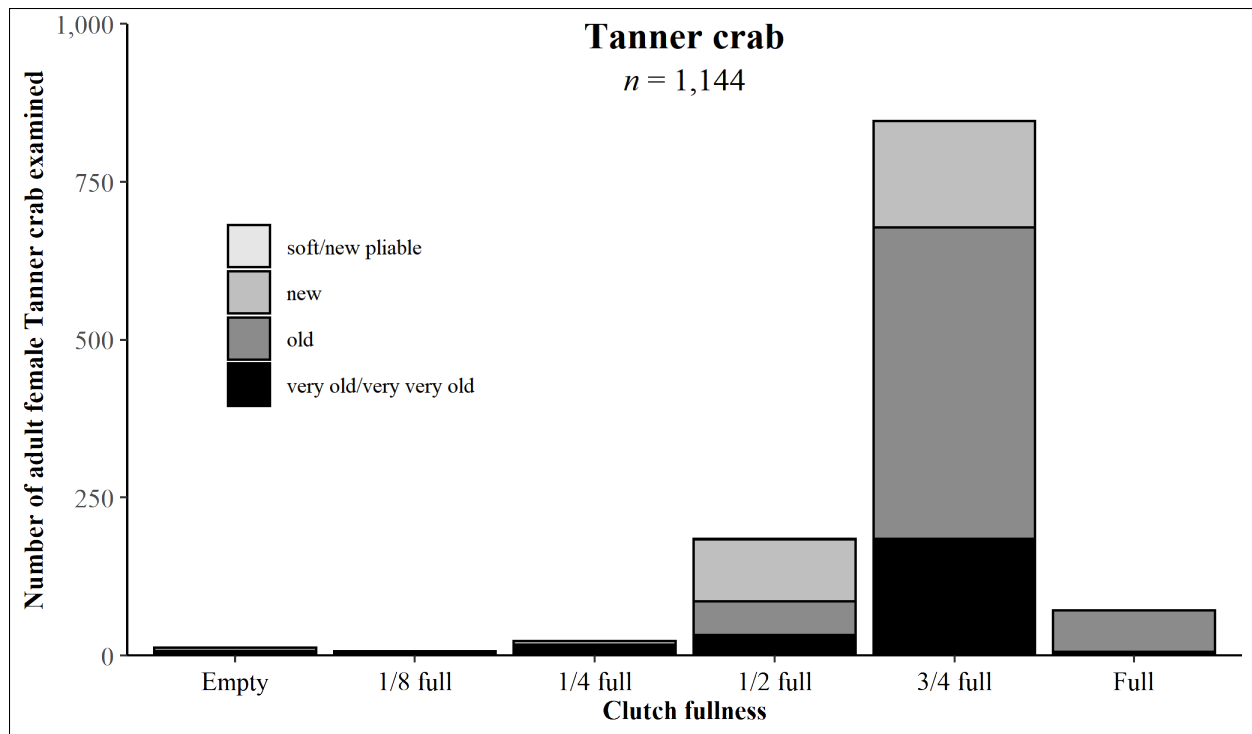


Figure 20.—Tanner crab mature female egg clutch fullness by shell condition in the Chignik District large-mesh bottom trawl survey, 2022.

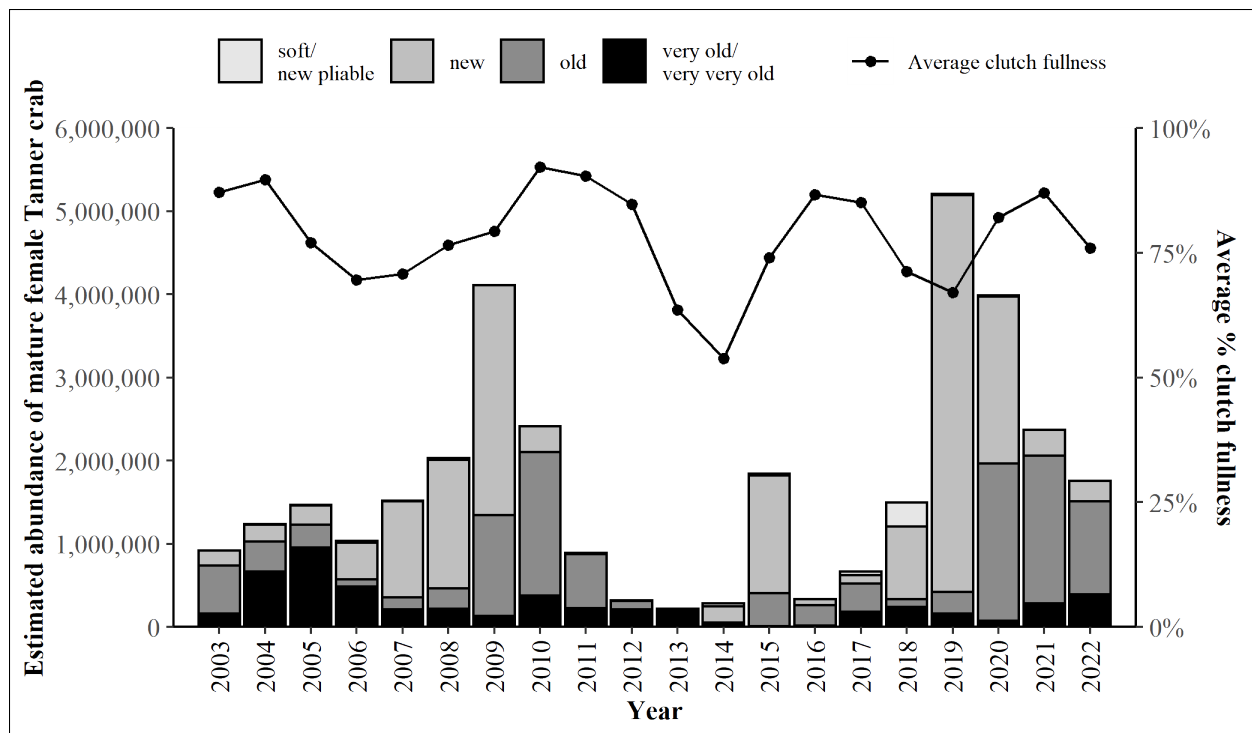


Figure 21.—Tanner crab mature female abundance by shell condition and average clutch fullness for the Chignik District from the 2003–2022 large-mesh bottom trawl surveys.

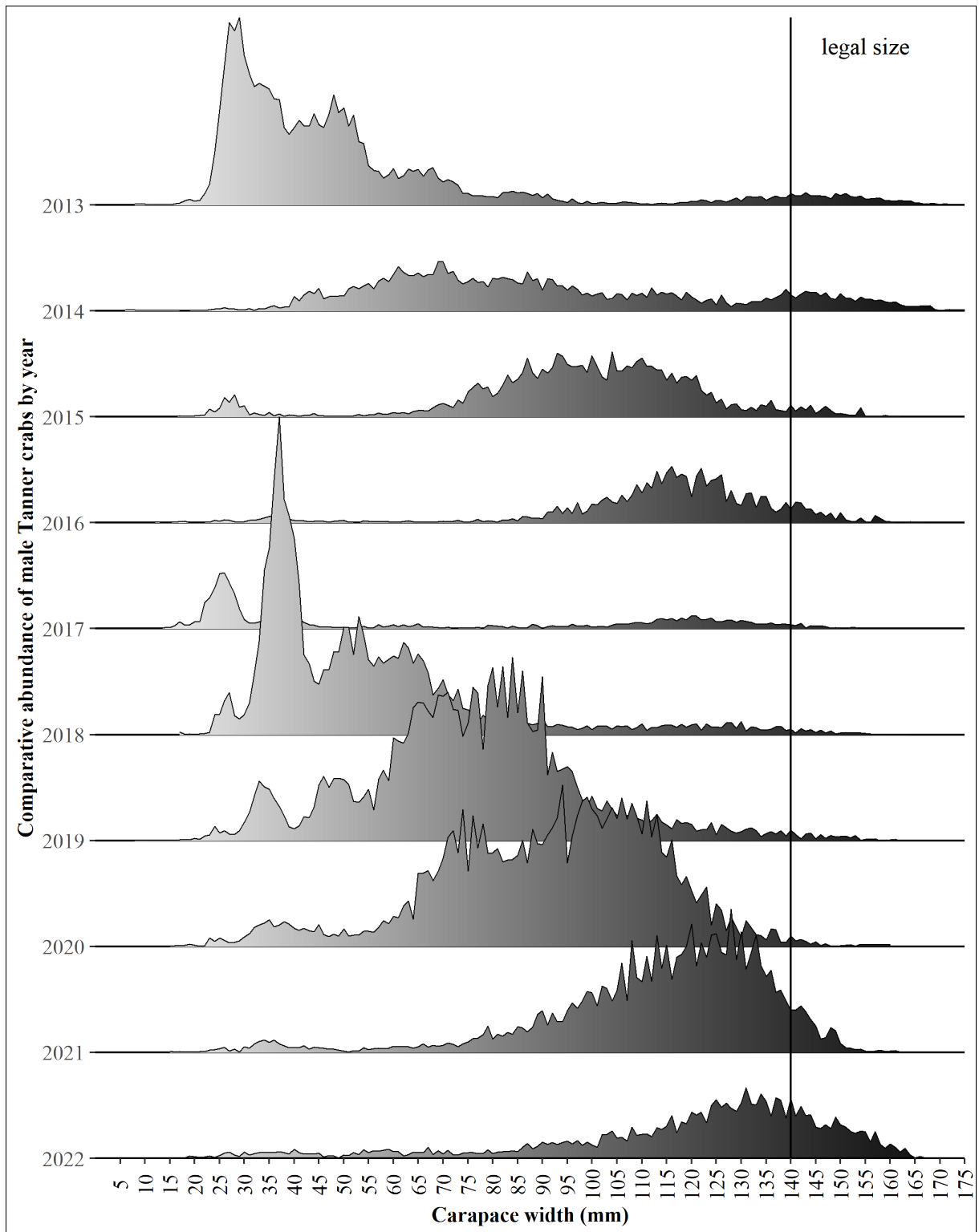


Figure 22.—Tanner crab male abundance estimate by carapace width in the South Peninsula District large-mesh bottom trawl surveys, 2013–2022.

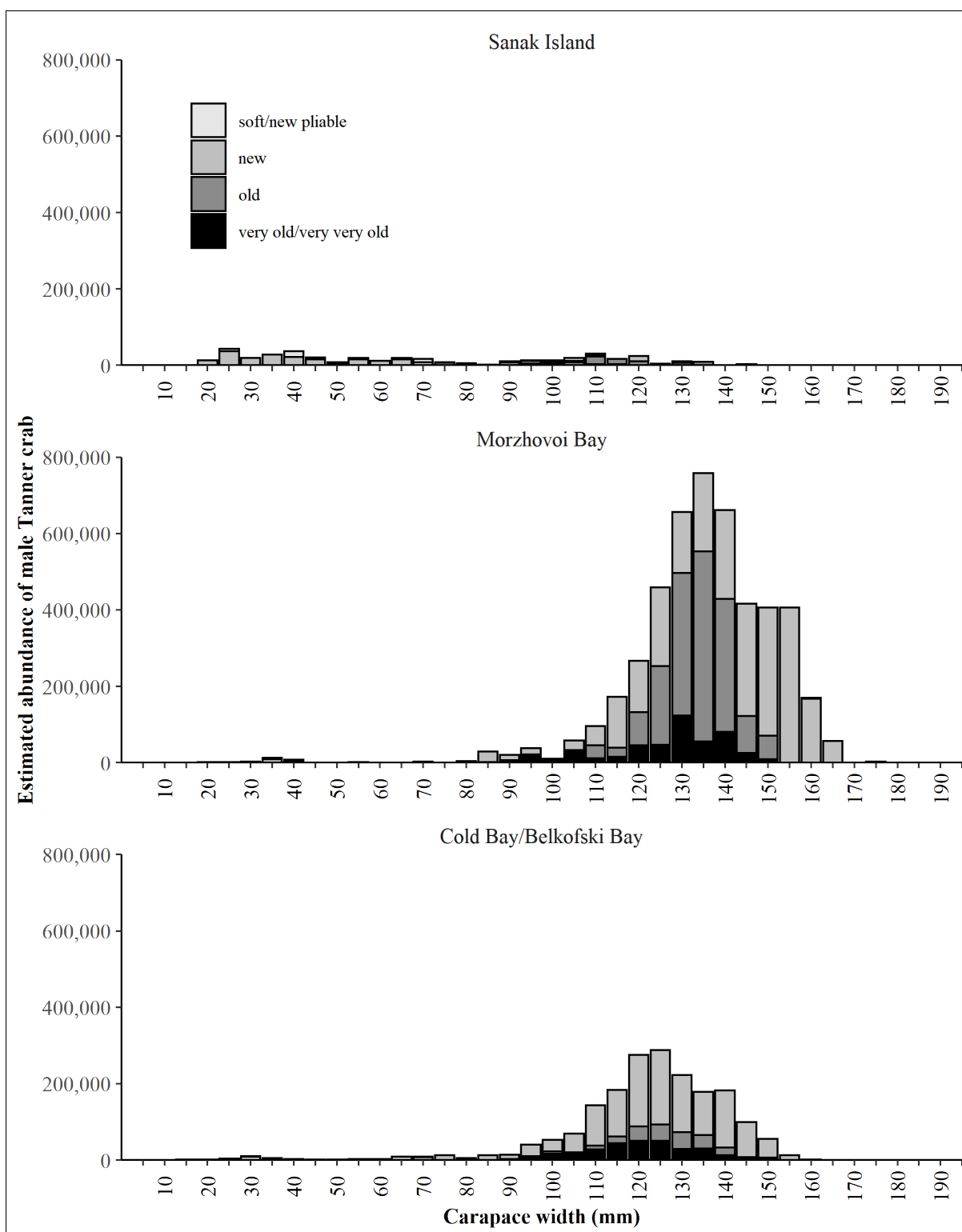


Figure 23.—Tanner crab male abundance estimate by carapace width and shell condition from Sanak Island, Morzhovoi Bay, and Cold Bay/Belkofski Bay in the Western Section of the 2022 South Peninsula District large-mesh bottom trawl survey.

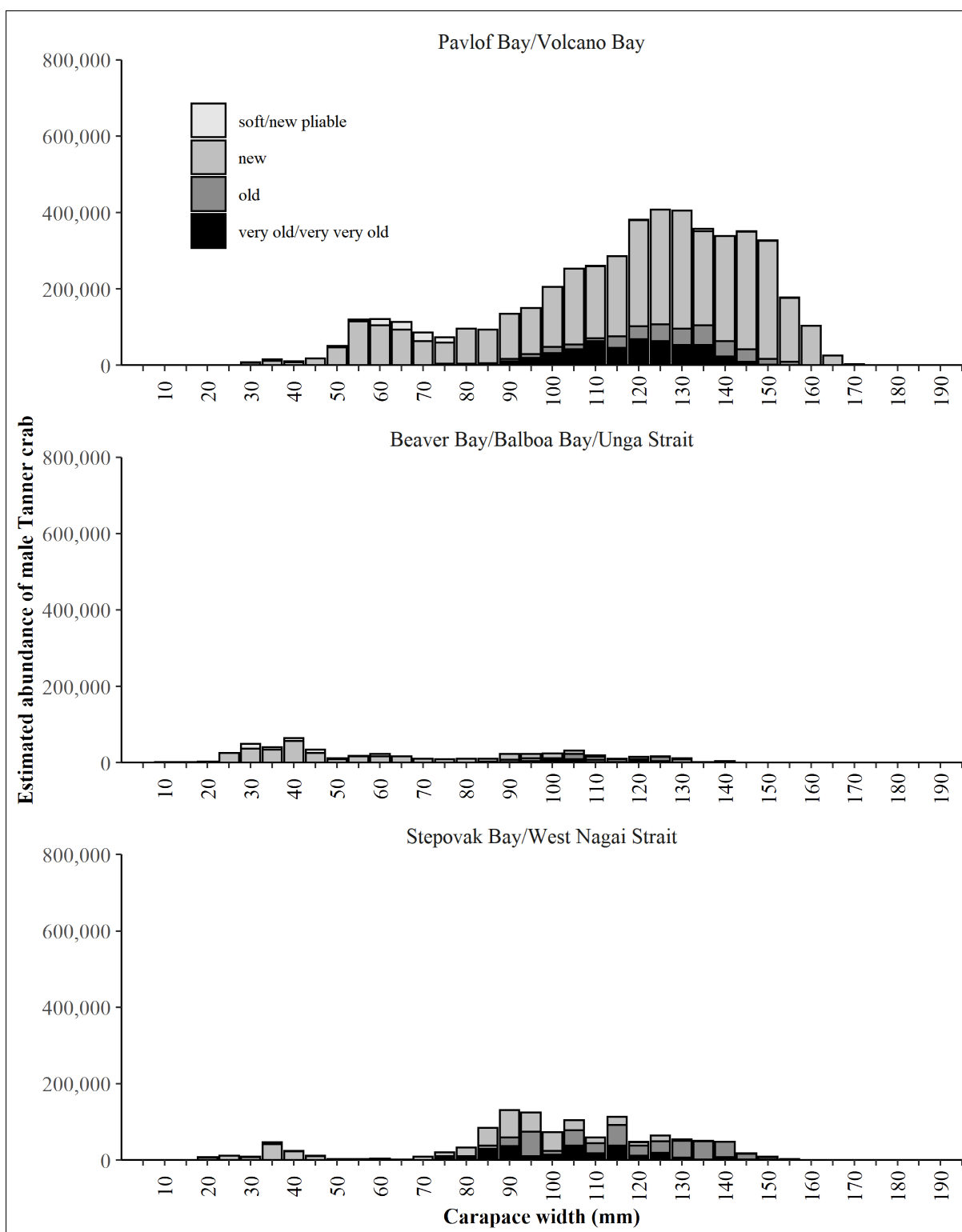


Figure 24.—Tanner crab male abundance estimate by carapace width and shell condition from Pavlof Bay/Volcano Bay, Beaver Bay/Balboa Bay/Unga Strait, and Stepovak Bay/West Nagai Strait in the Eastern Section of the 2022 South Peninsula District large-mesh bottom trawl survey.

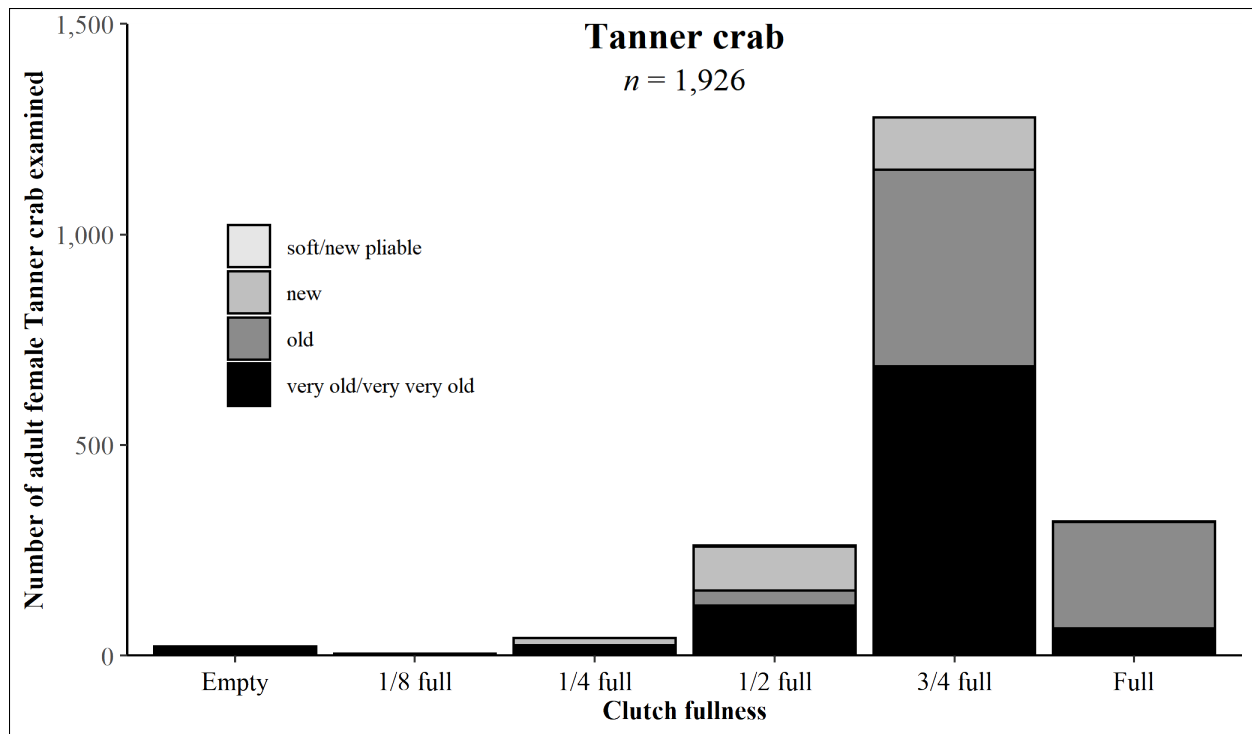


Figure 25.—Tanner crab mature female egg clutch fullness by shell condition in the South Peninsula District large-mesh bottom trawl survey, 2022.

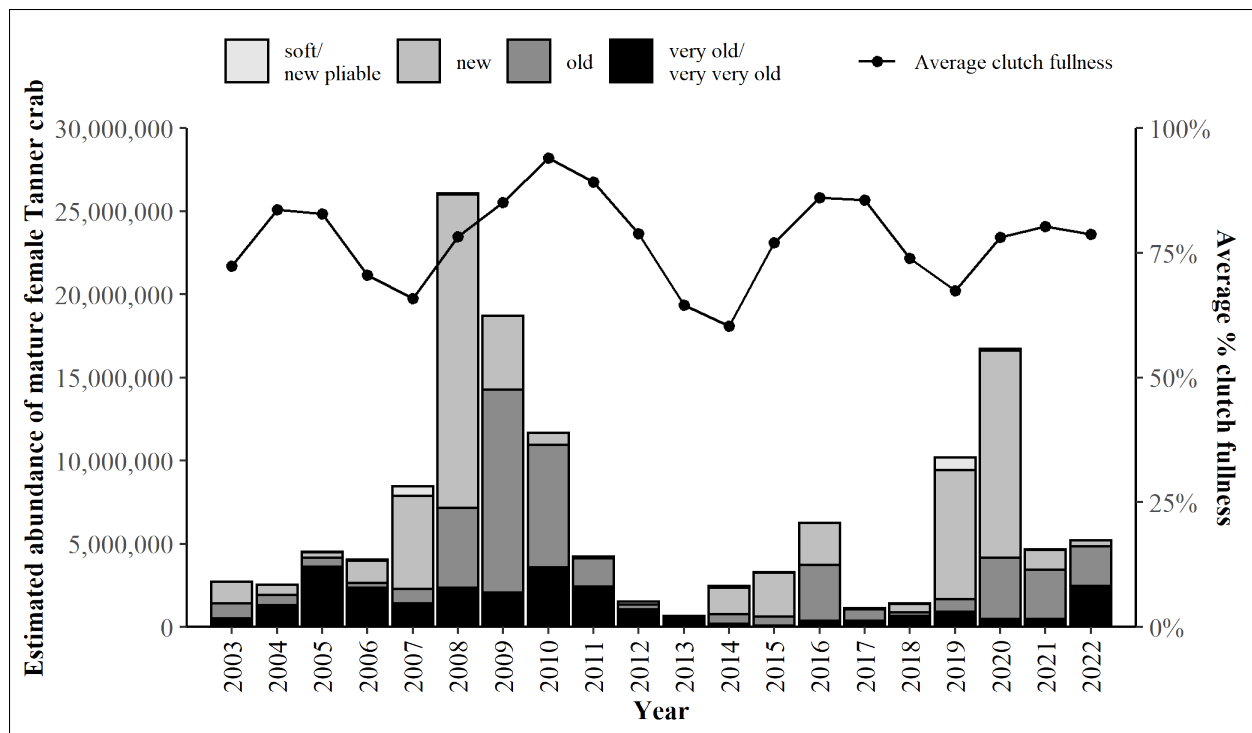


Figure 26.—Tanner crab mature female abundance by shell condition and average clutch fullness for the South Peninsula District from the 2003–2022 large-mesh bottom trawl surveys.

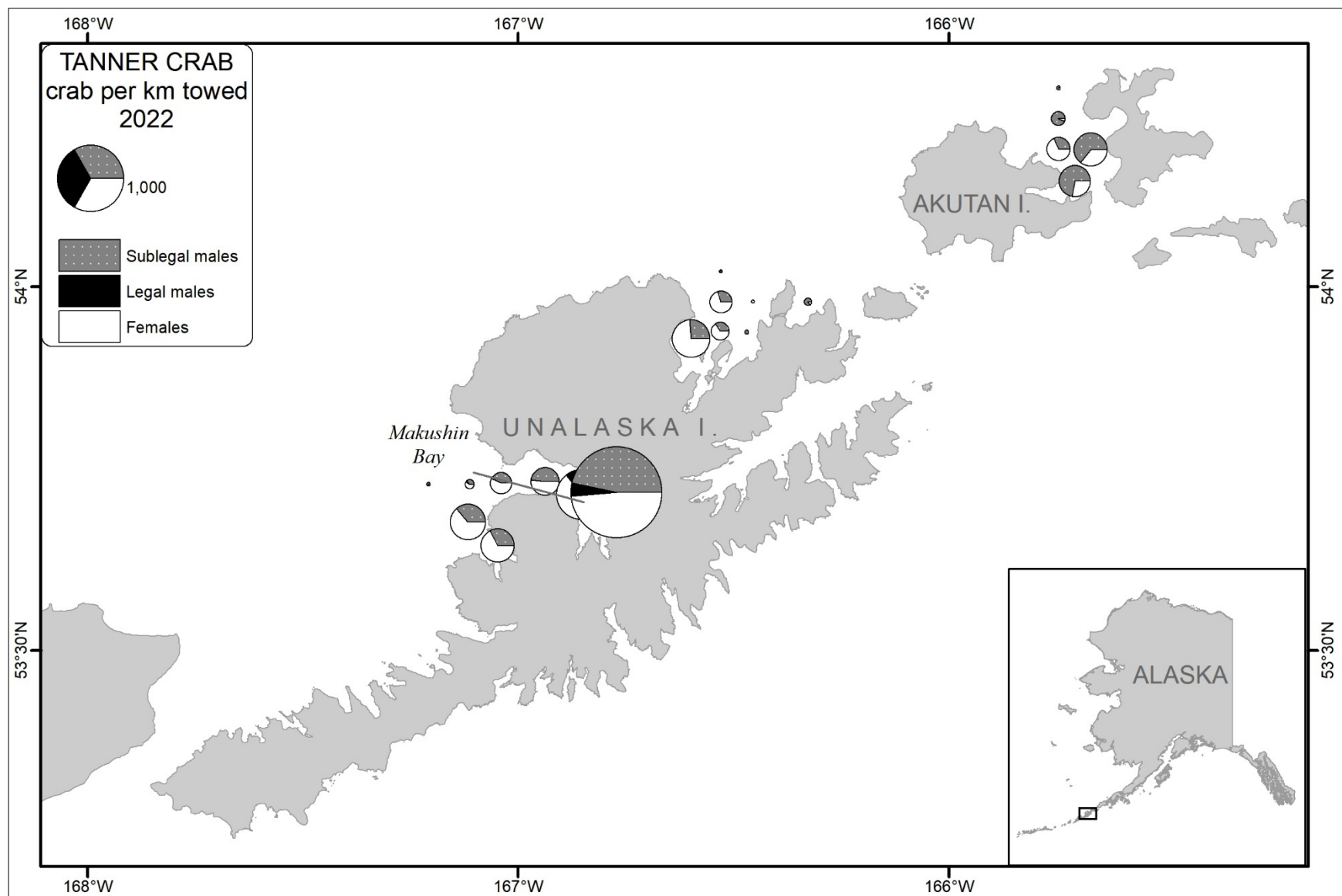


Figure 27.—Number of Tanner crab per kilometer towed in the 2022 Eastern Aleutian District large-mesh trawl survey.

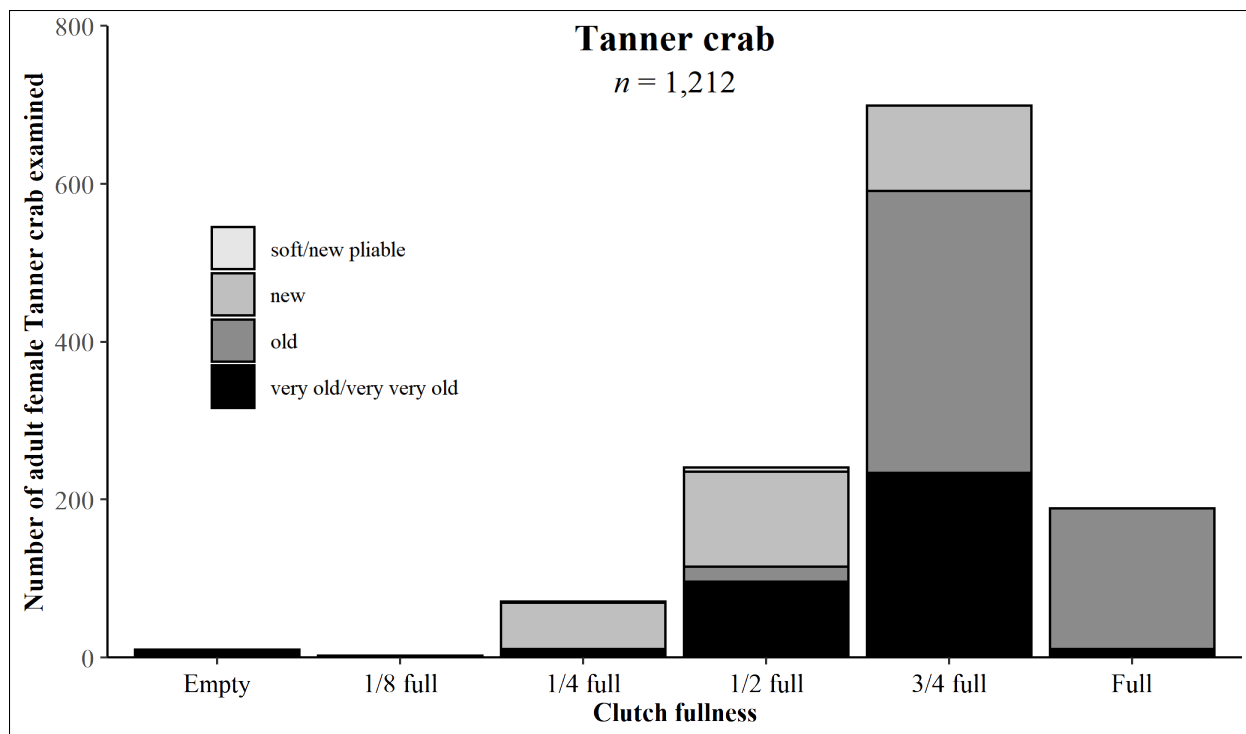


Figure 28.—Tanner crab mature female egg clutch fullness by shell condition in the Eastern Aleutian District large-mesh bottom trawl survey, 2022.

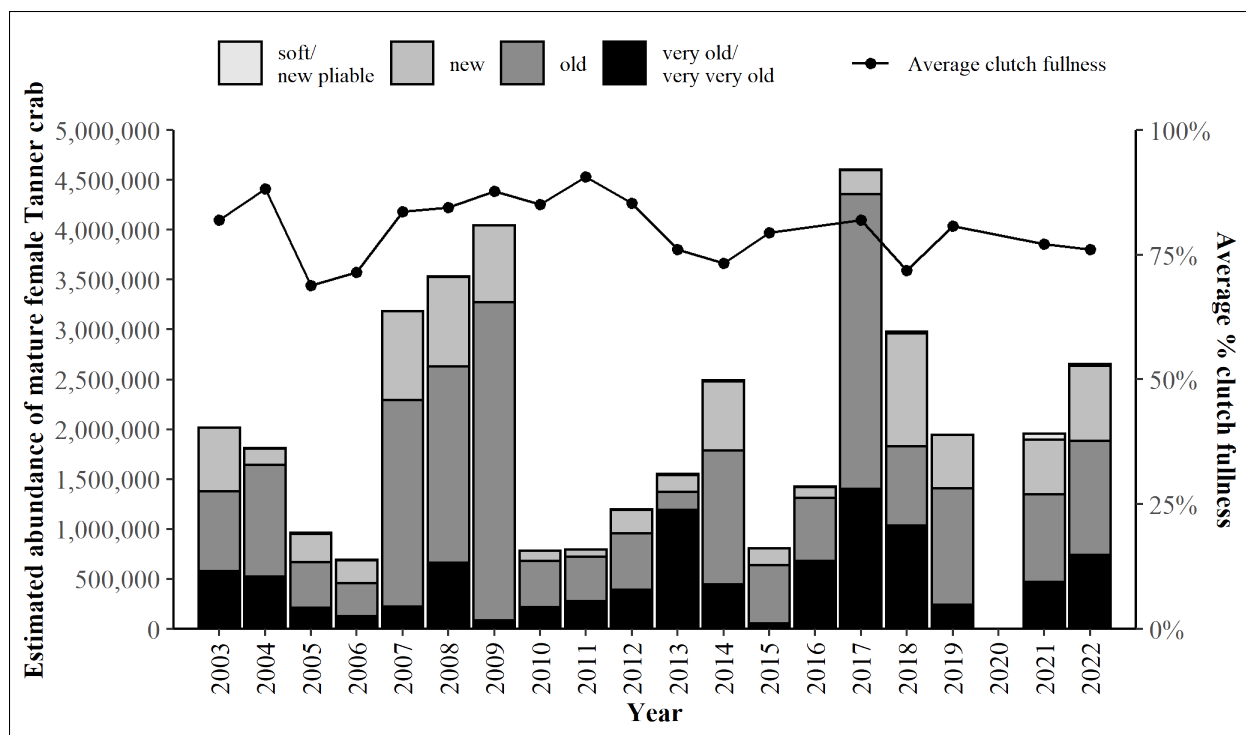


Figure 29.—Tanner crab mature female abundance by shell condition and average clutch fullness for the Eastern Aleutian District from the 2003–2022 large-mesh bottom trawl surveys.

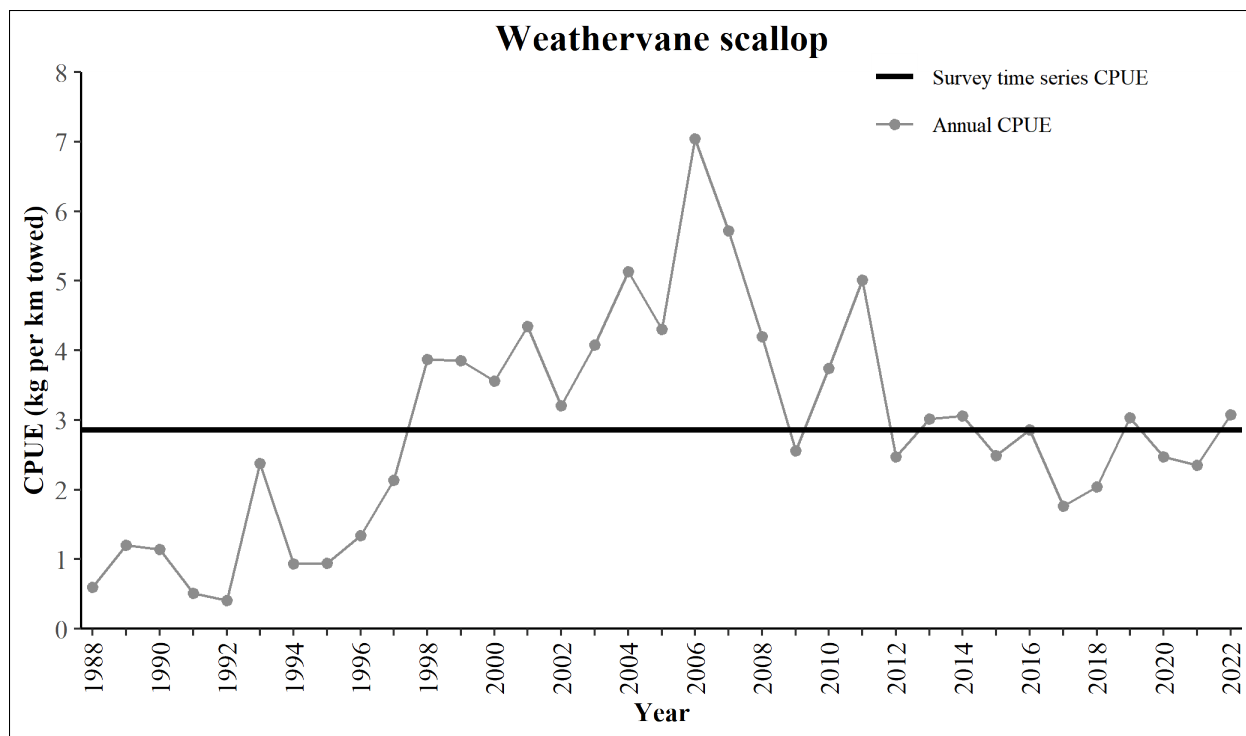


Figure 30.—Weathervane scallop annual CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

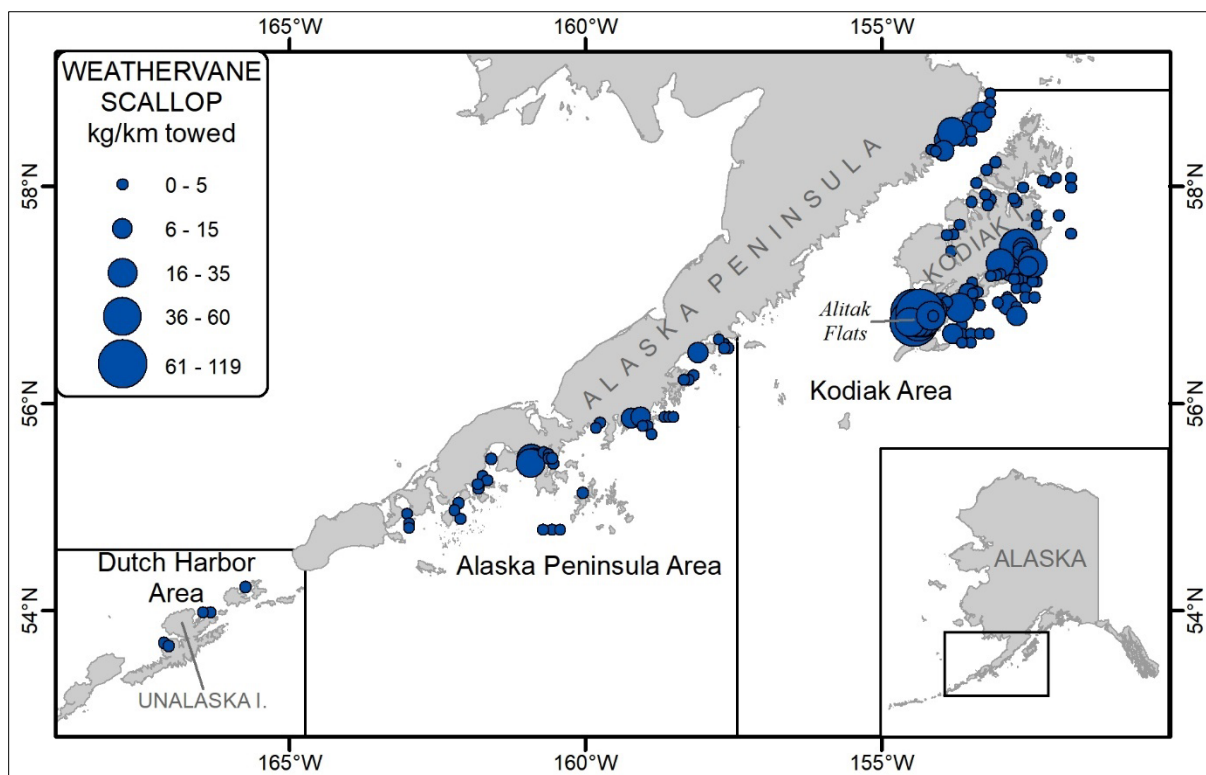


Figure 31.—Weathervane scallop station CPUE in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

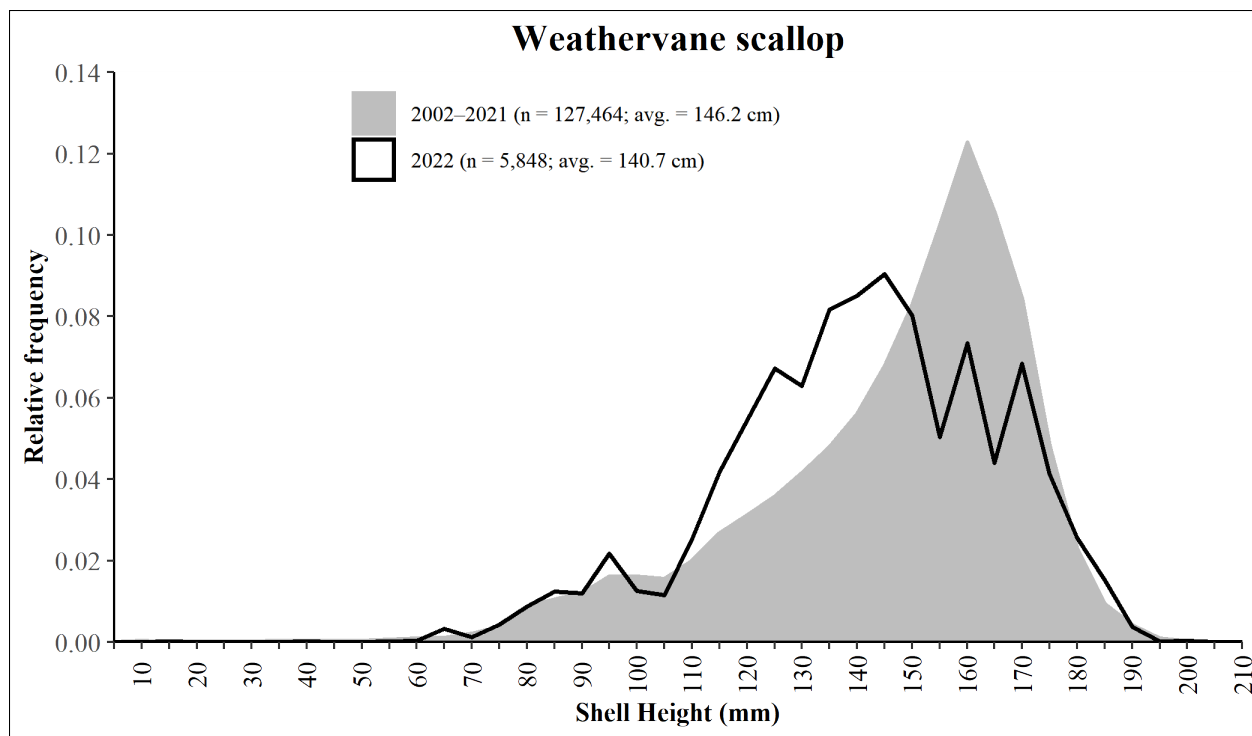


Figure 32.—Weathervane scallop shell height frequency from the large-mesh bottom trawl surveys, 2002–2022.

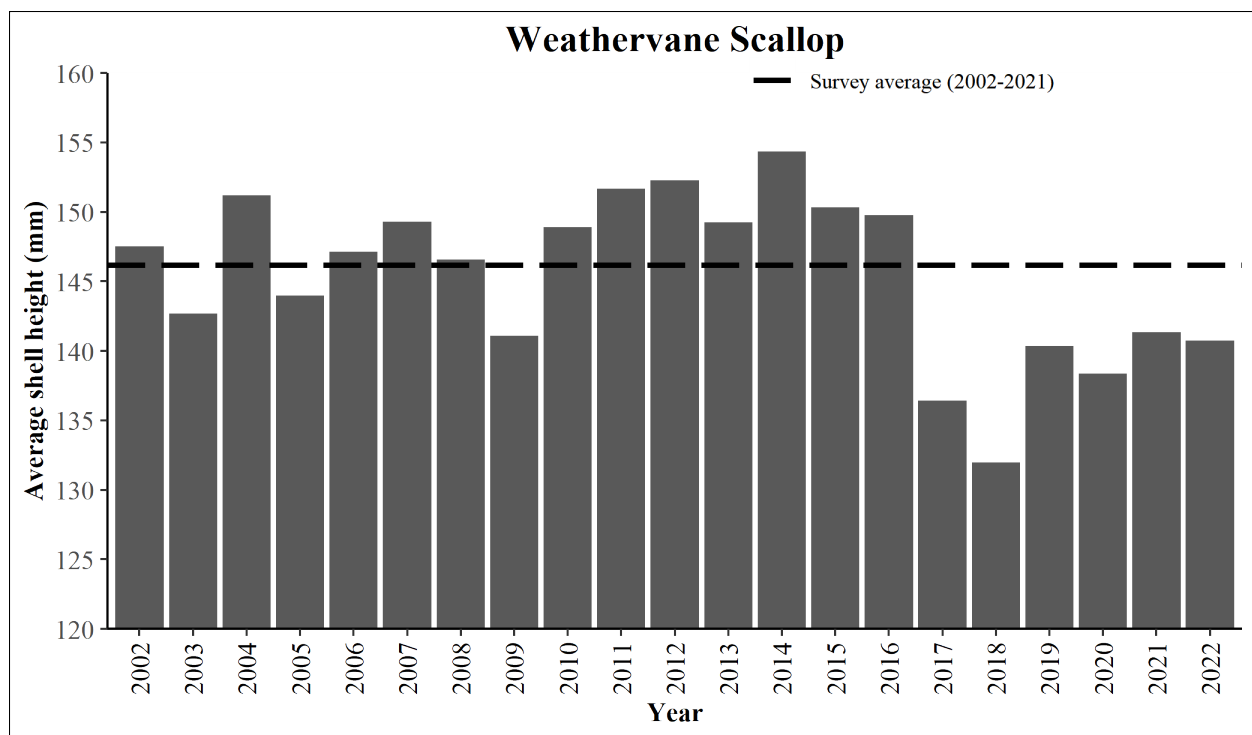


Figure 33.—Average weathervane scallop shell height from scallops caught on the large-mesh bottom trawl surveys, 2002–2022.

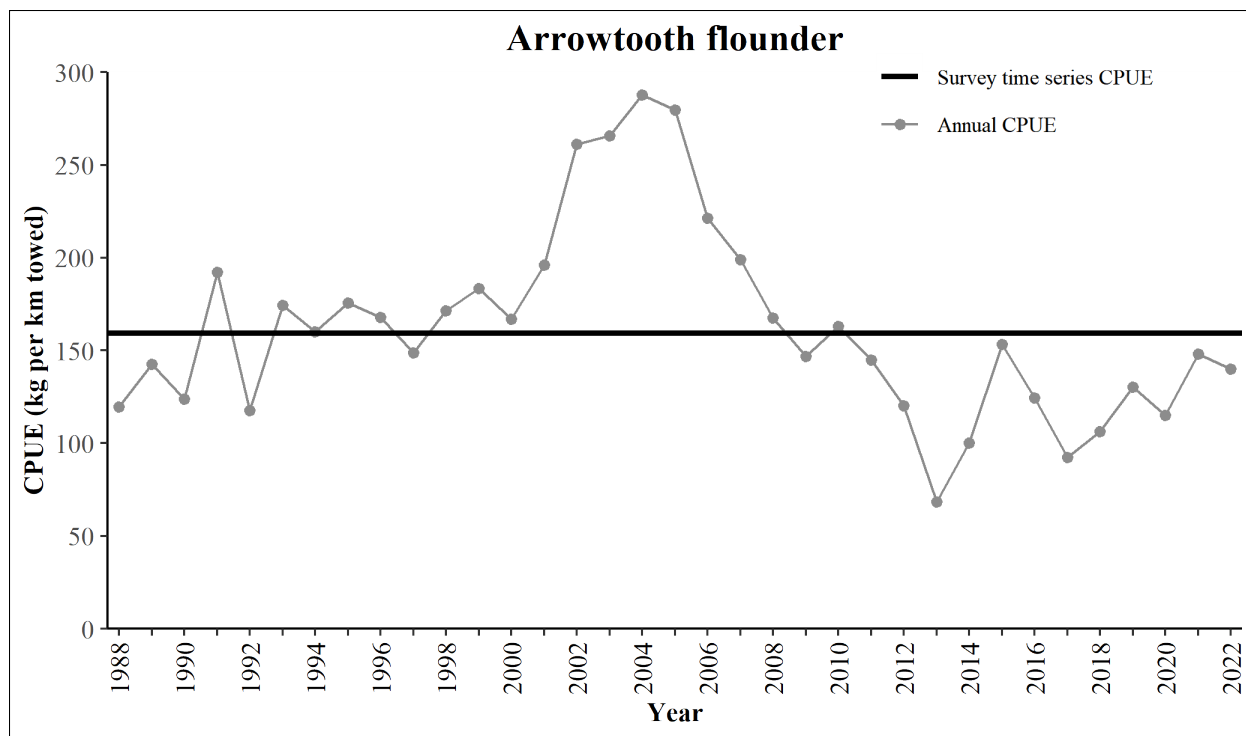


Figure 34.—Arrowtooth flounder annual CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

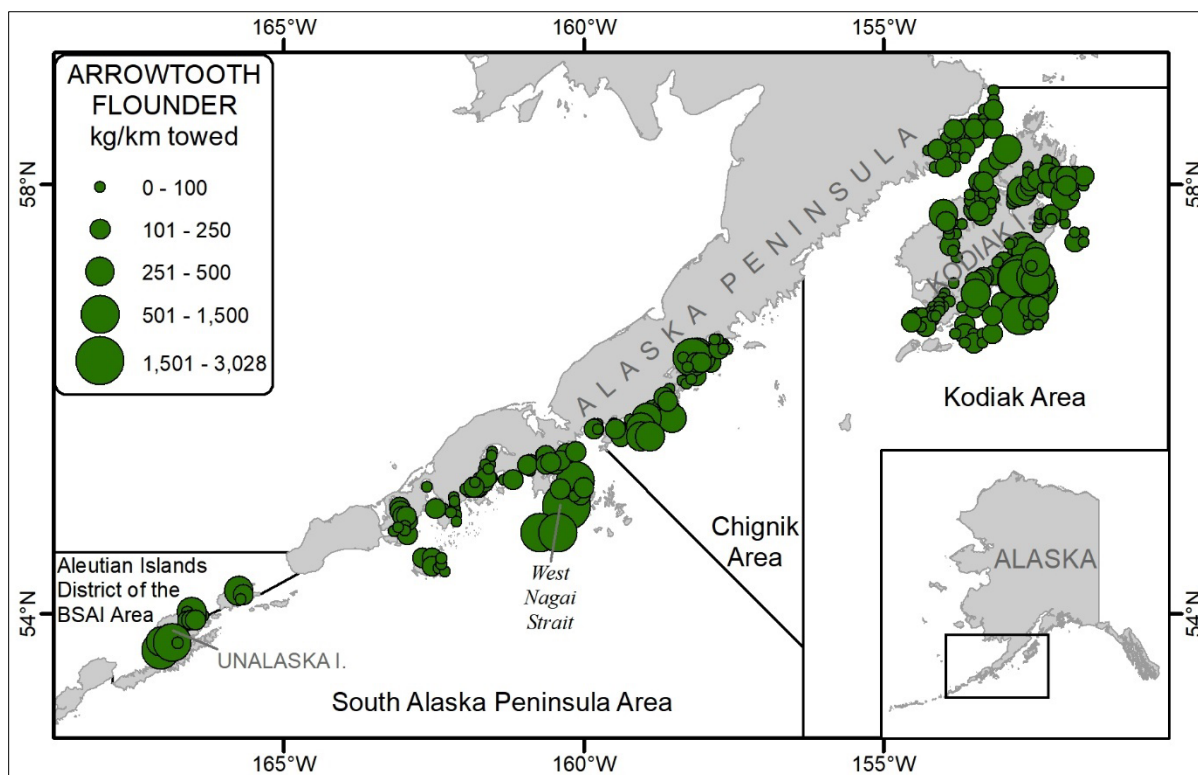


Figure 35.—Arrowtooth flounder station CPUE in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

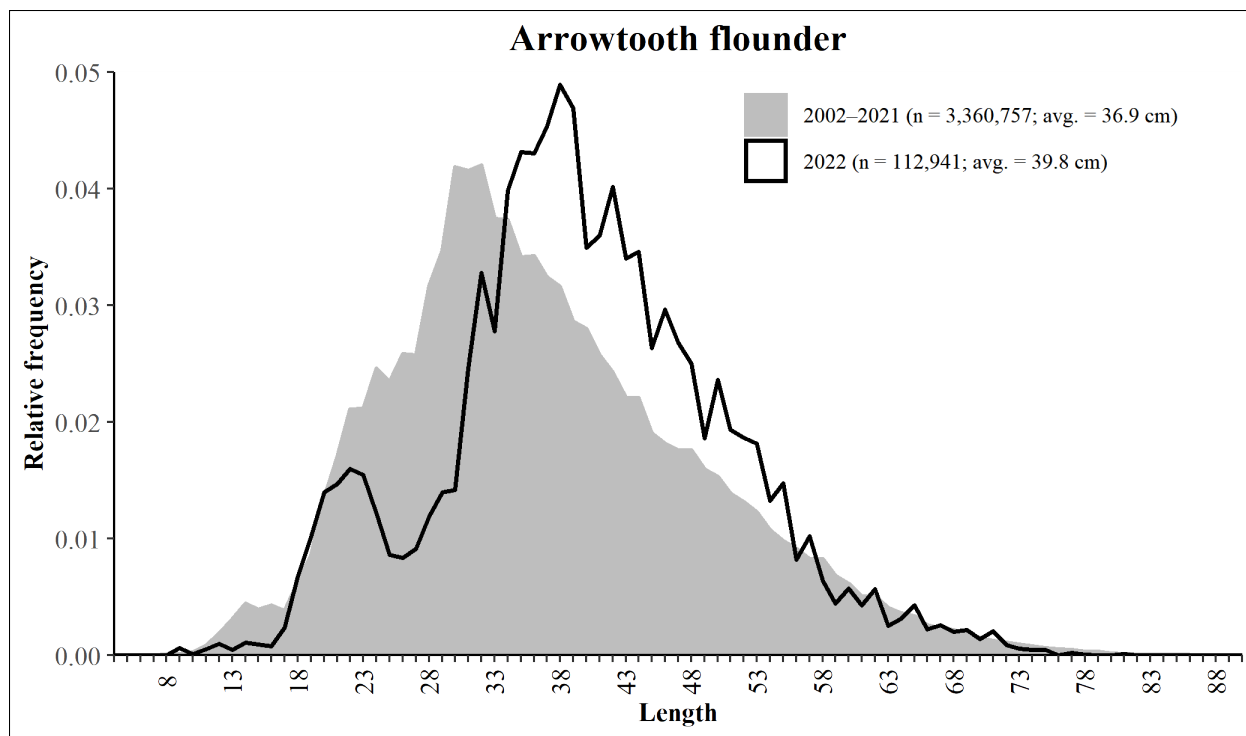


Figure 36.—Arrowtooth flounder length frequency from the large-mesh bottom trawl surveys, 2002–2022.

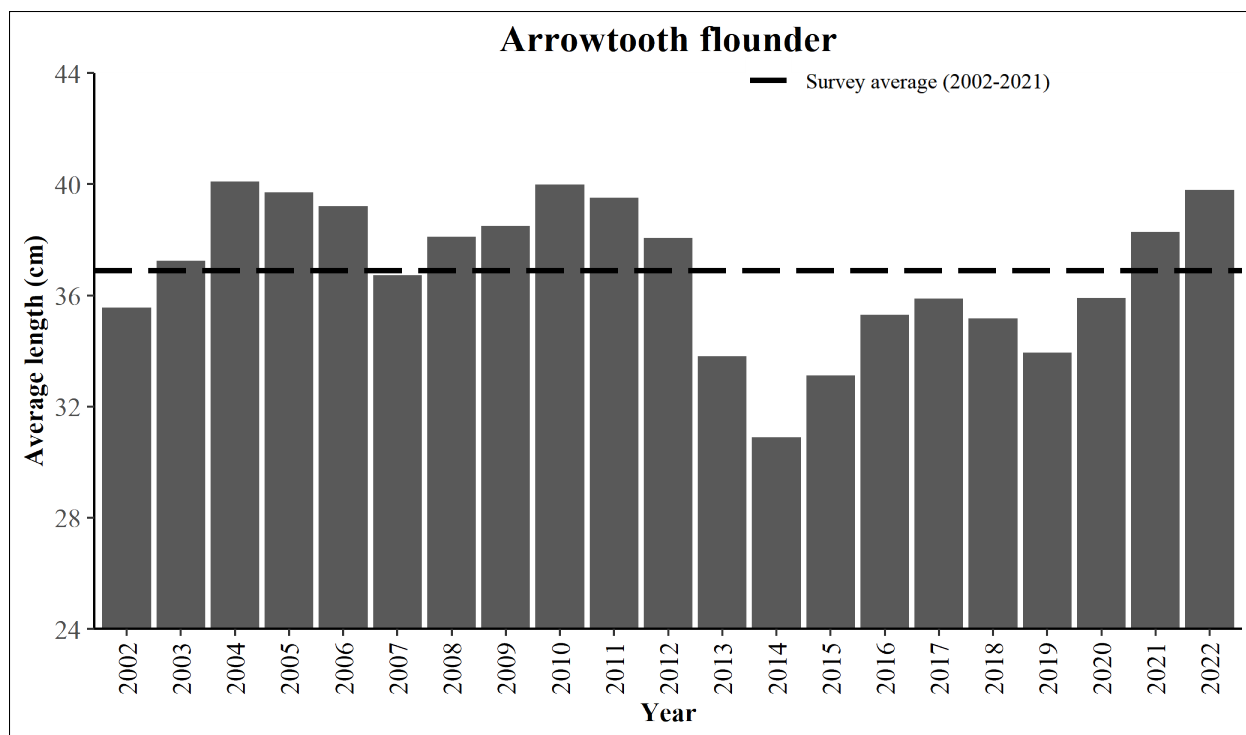


Figure 37.—Average arrowtooth flounder length from fish caught on the large-mesh bottom trawl surveys, 2002–2022.

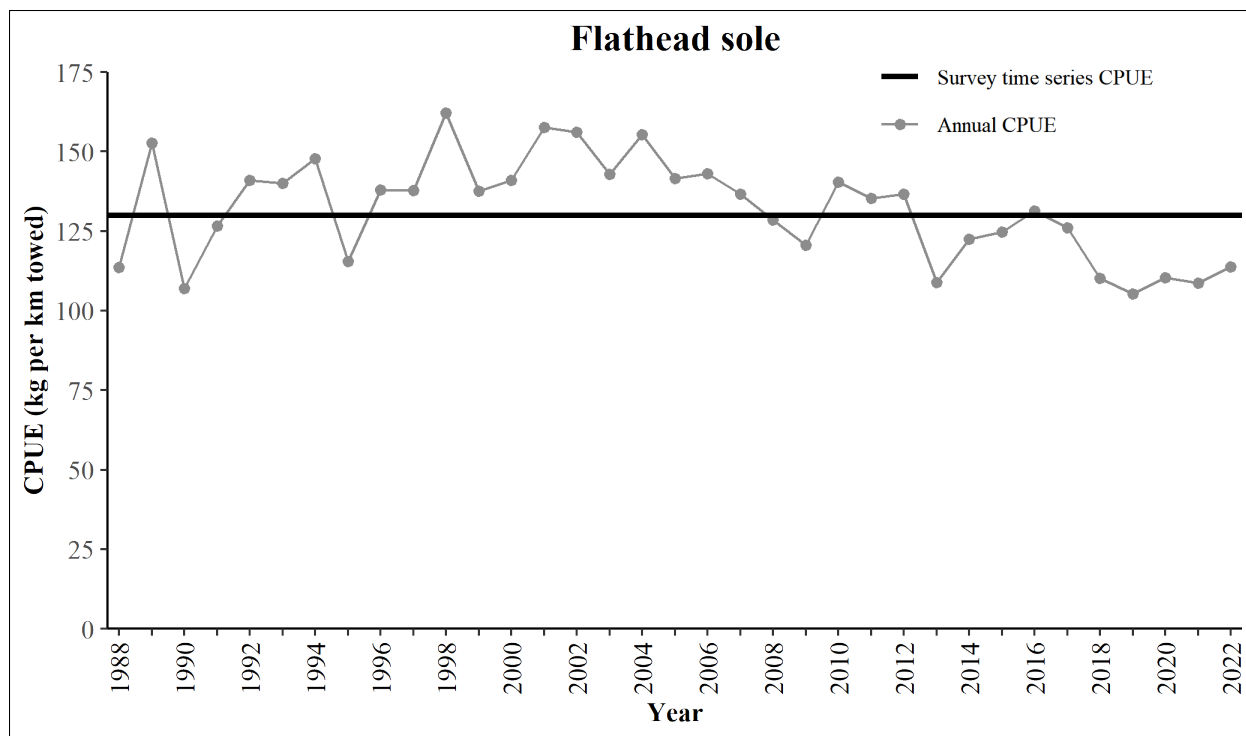


Figure 38.—Flathead sole annual CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

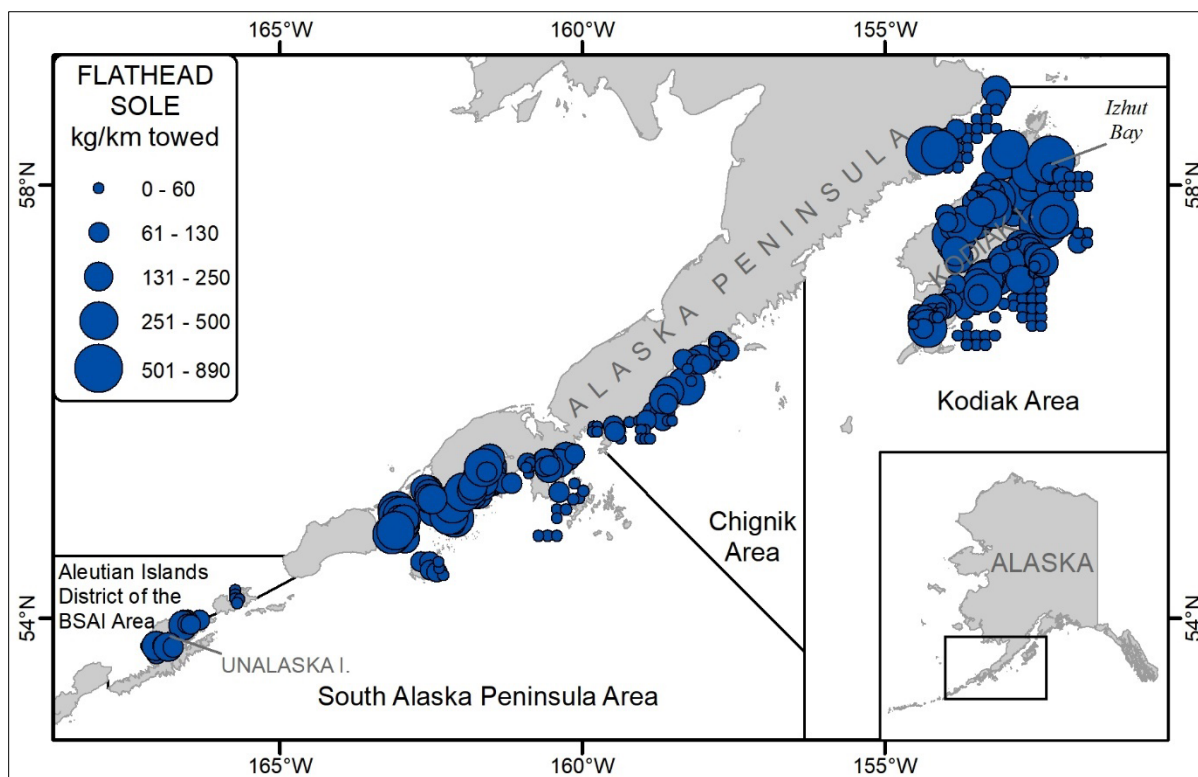


Figure 39.—Flathead sole station CPUE in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

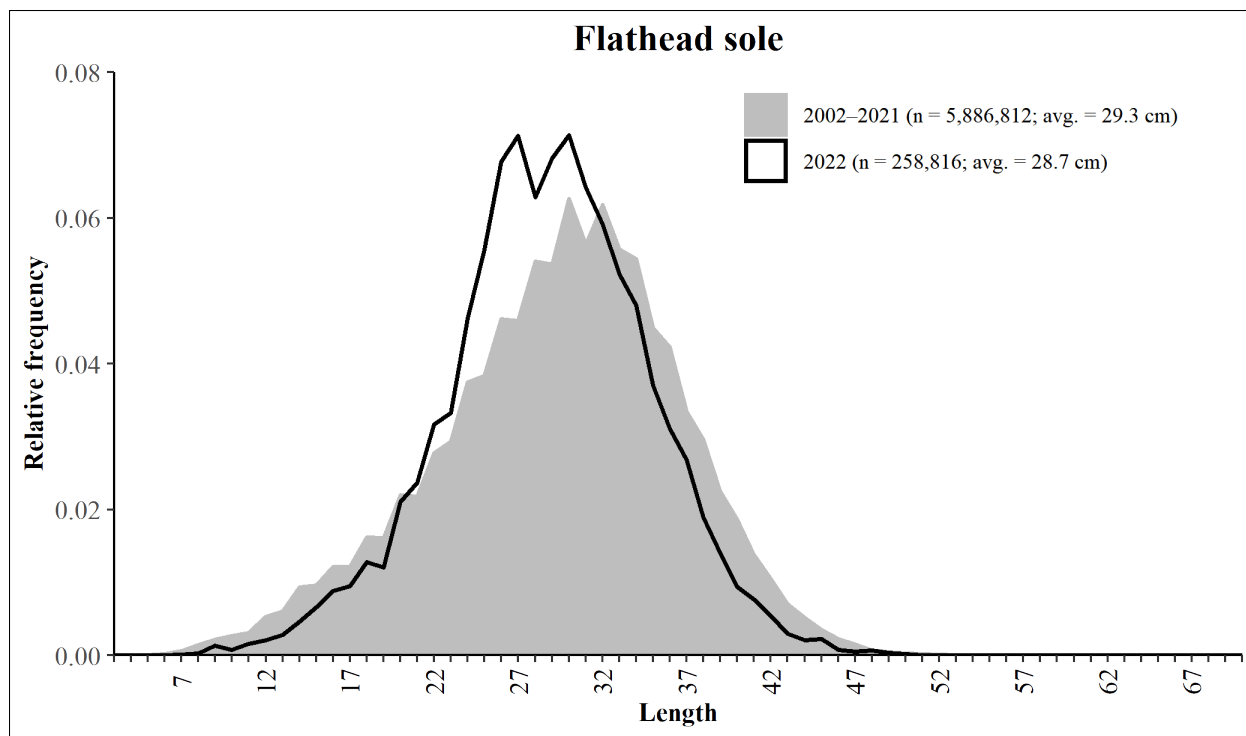


Figure 40.—Flathead sole length frequency from the large-mesh bottom trawl surveys, 2002–2022.

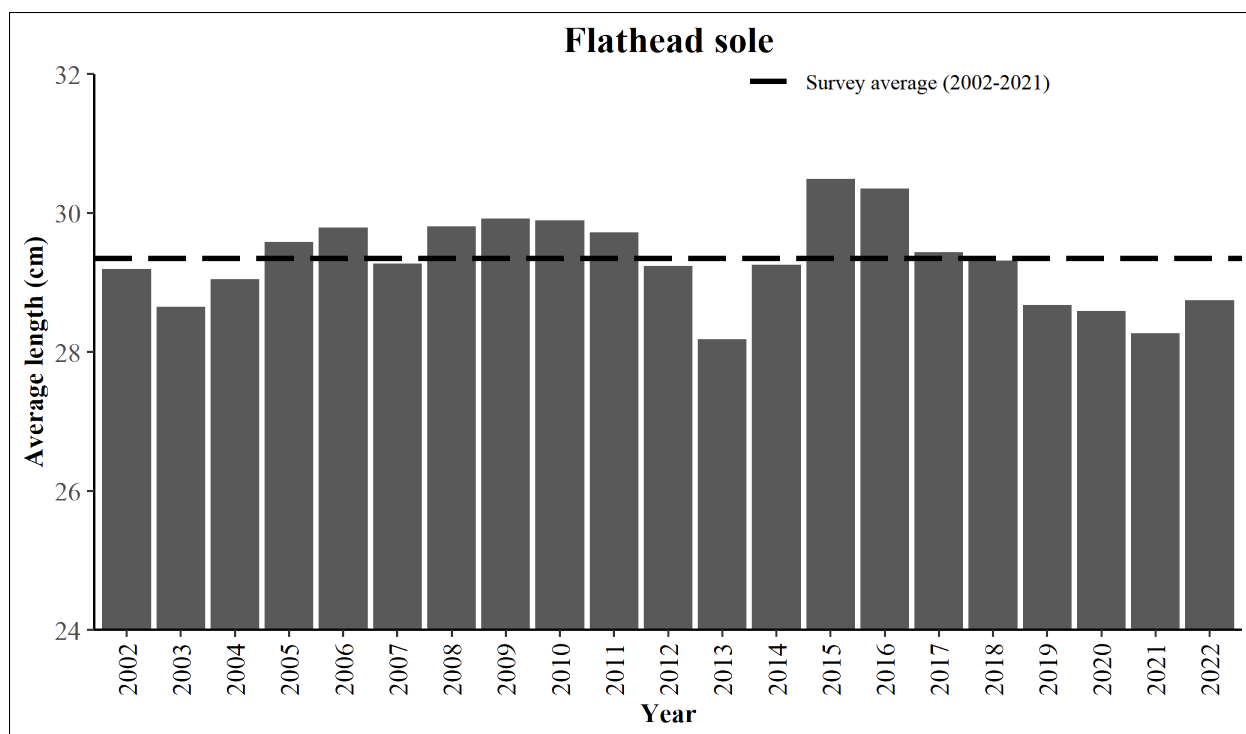


Figure 41.—Average flathead sole length from fish caught on the large-mesh bottom trawl surveys, 2002–2022.

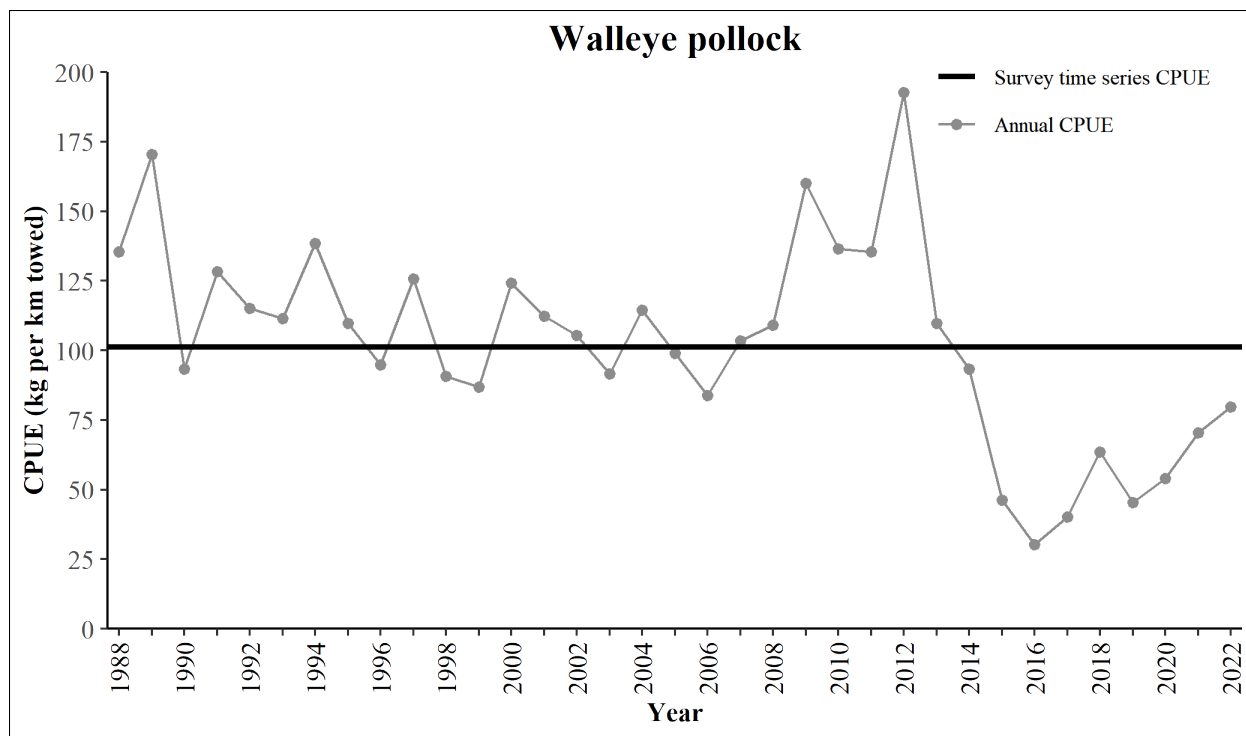


Figure 42.—Walleye pollock annual CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

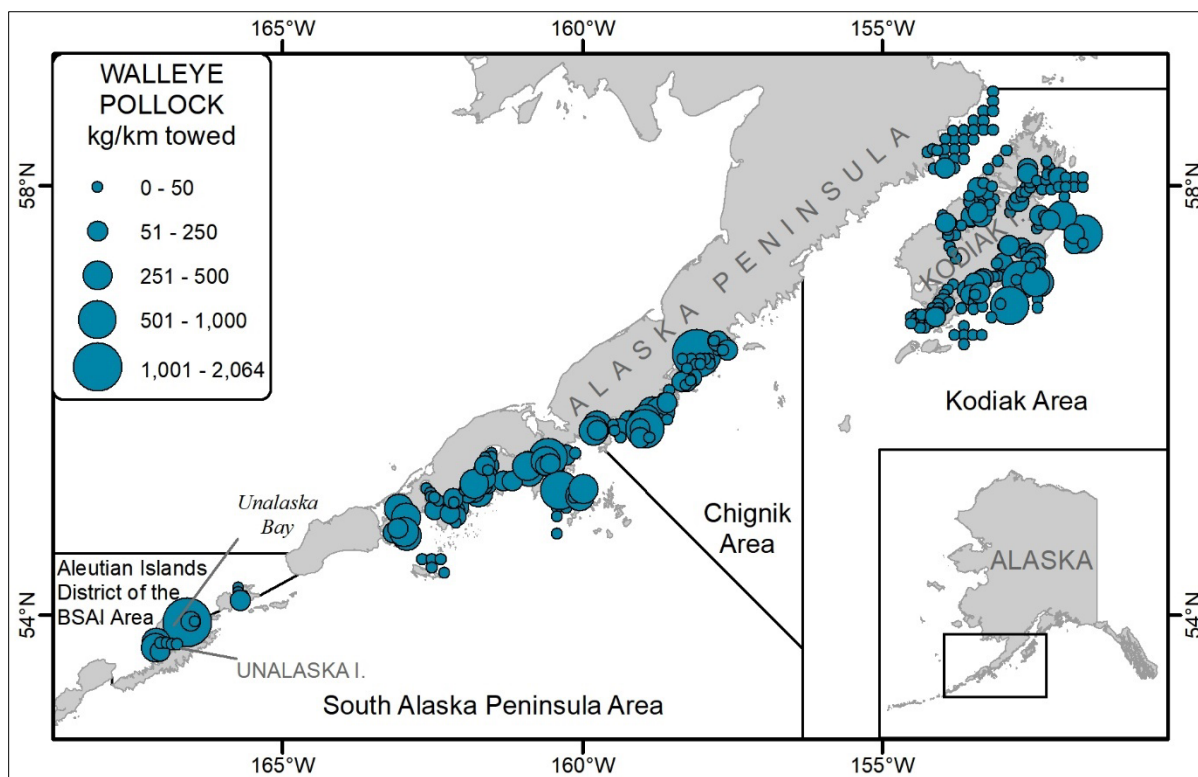


Figure 43.—Walleye pollock station CPUE in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

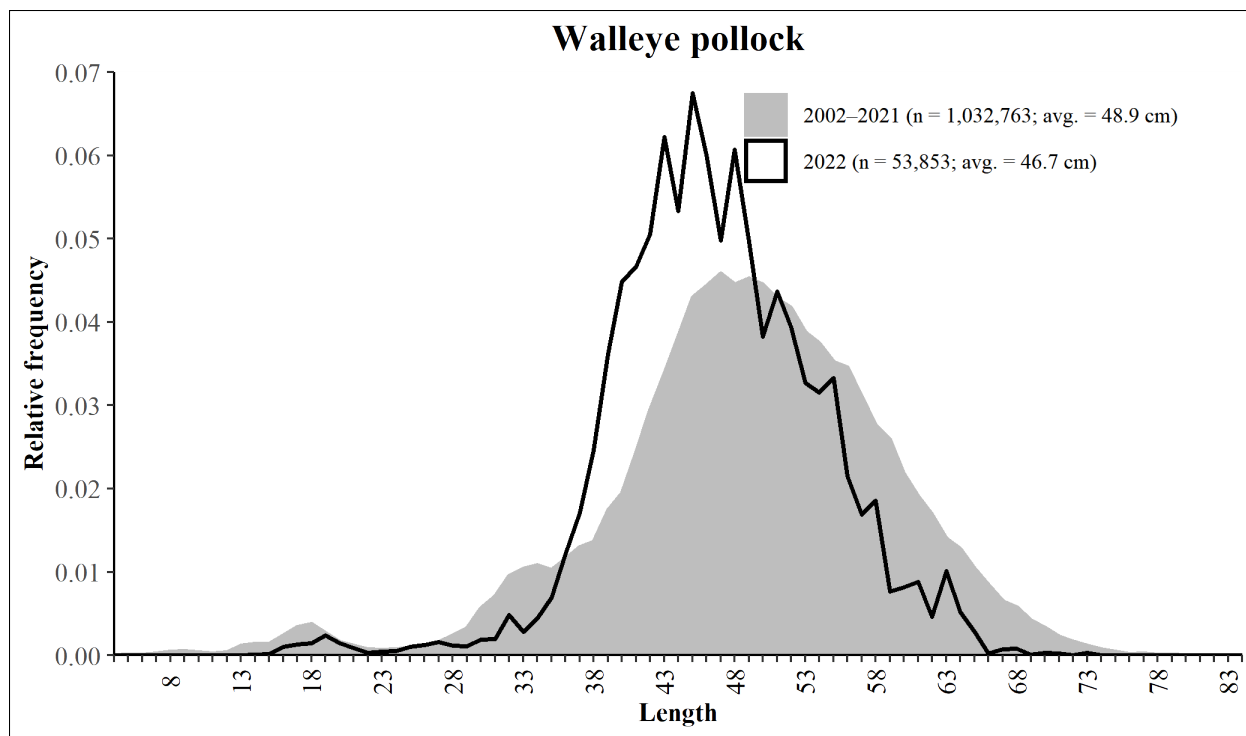


Figure 44.—Walleye pollock length frequency from the large-mesh bottom trawl surveys, 2002–2022.

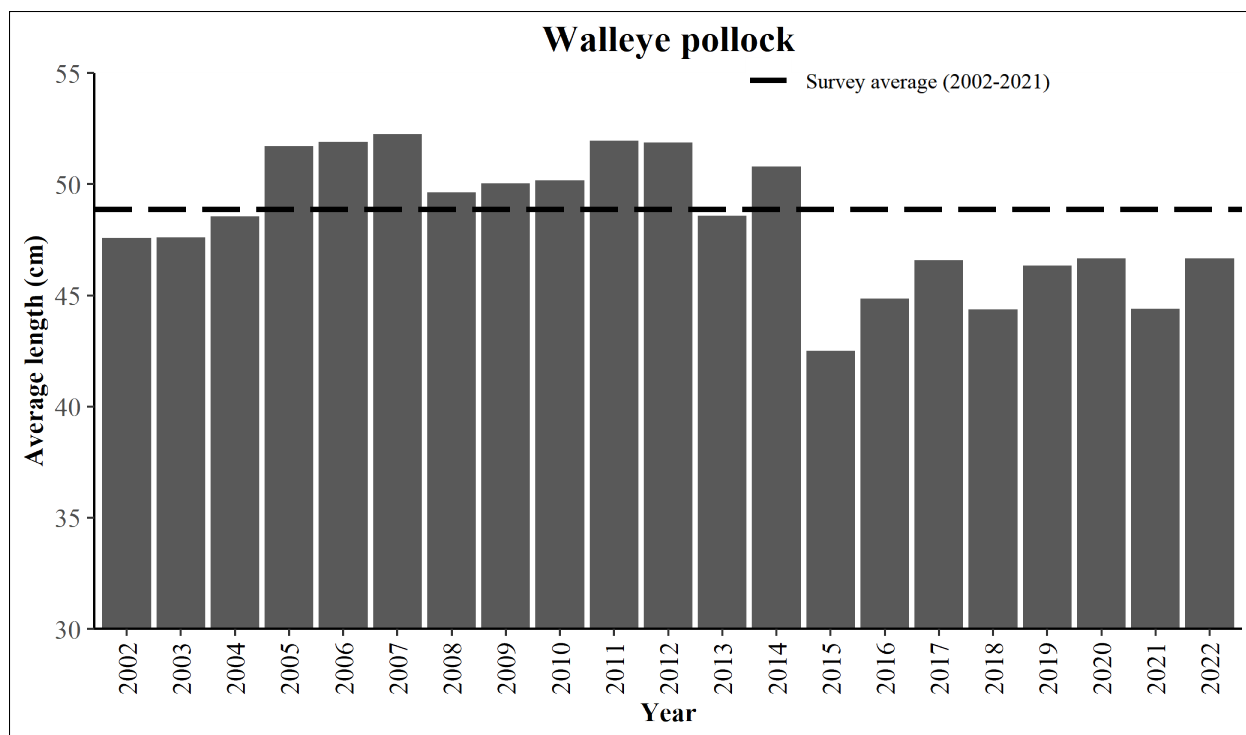


Figure 45.—Average walleye pollock length from fish caught on the large-mesh bottom trawl surveys, 2002–2022.

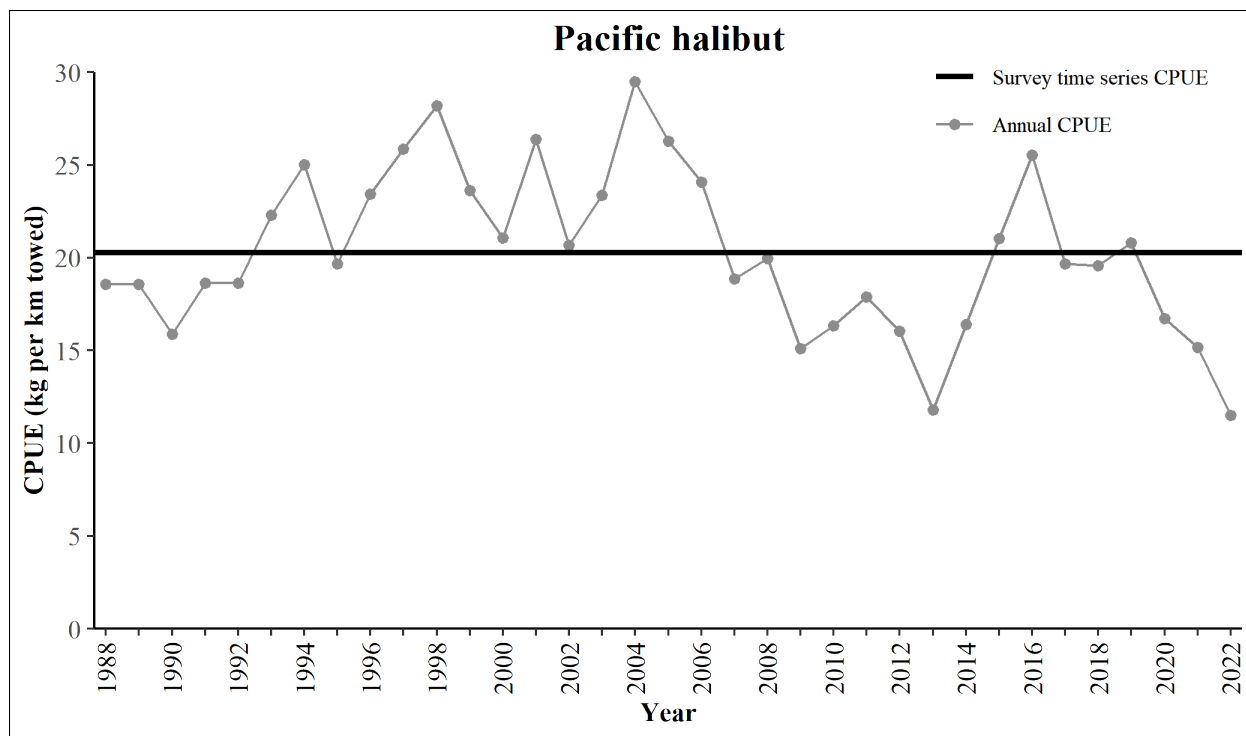


Figure 46.—Pacific halibut annual CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

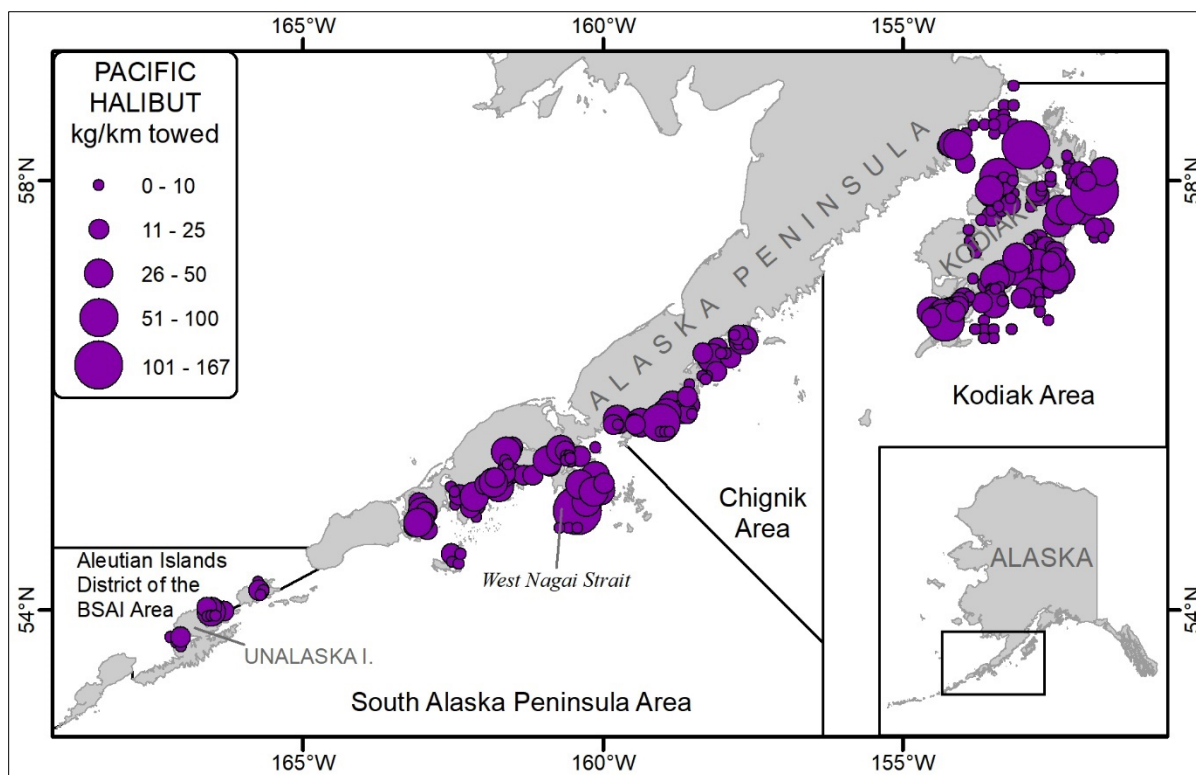


Figure 47.—Pacific halibut station CPUE in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

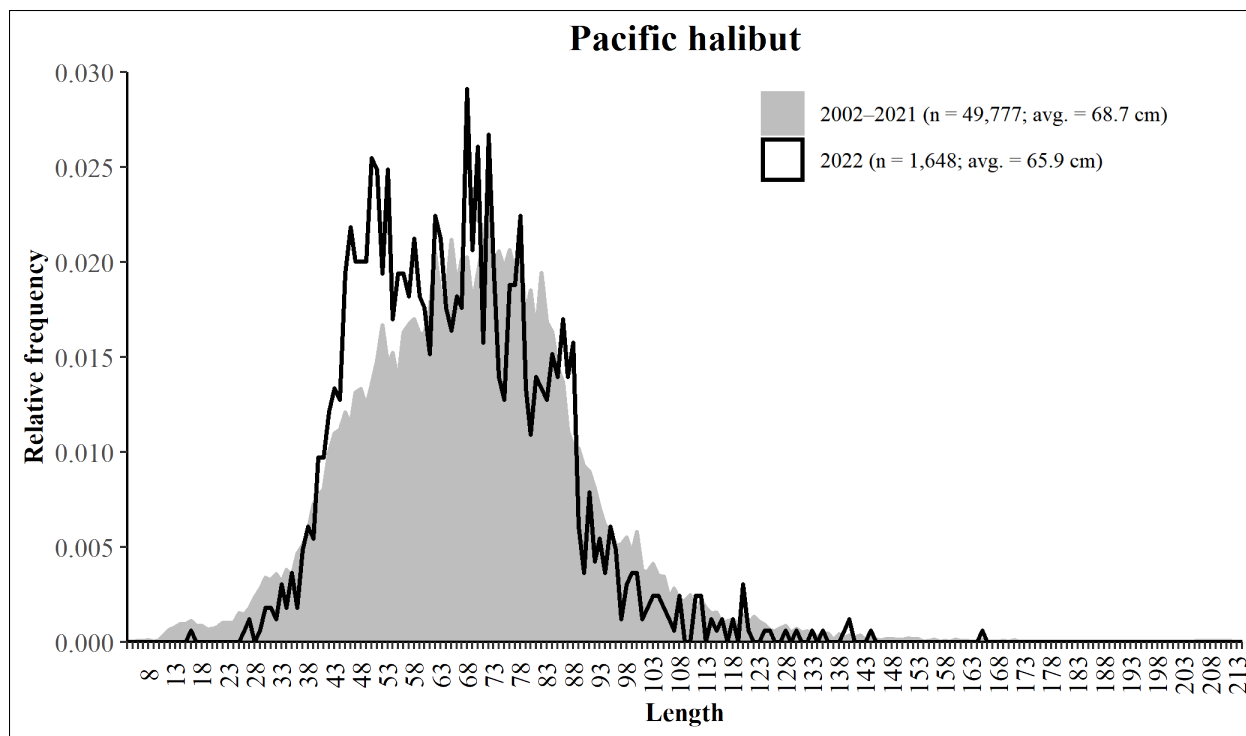


Figure 48.—Pacific halibut length frequency from the large-mesh bottom trawl surveys, 2002–2022.

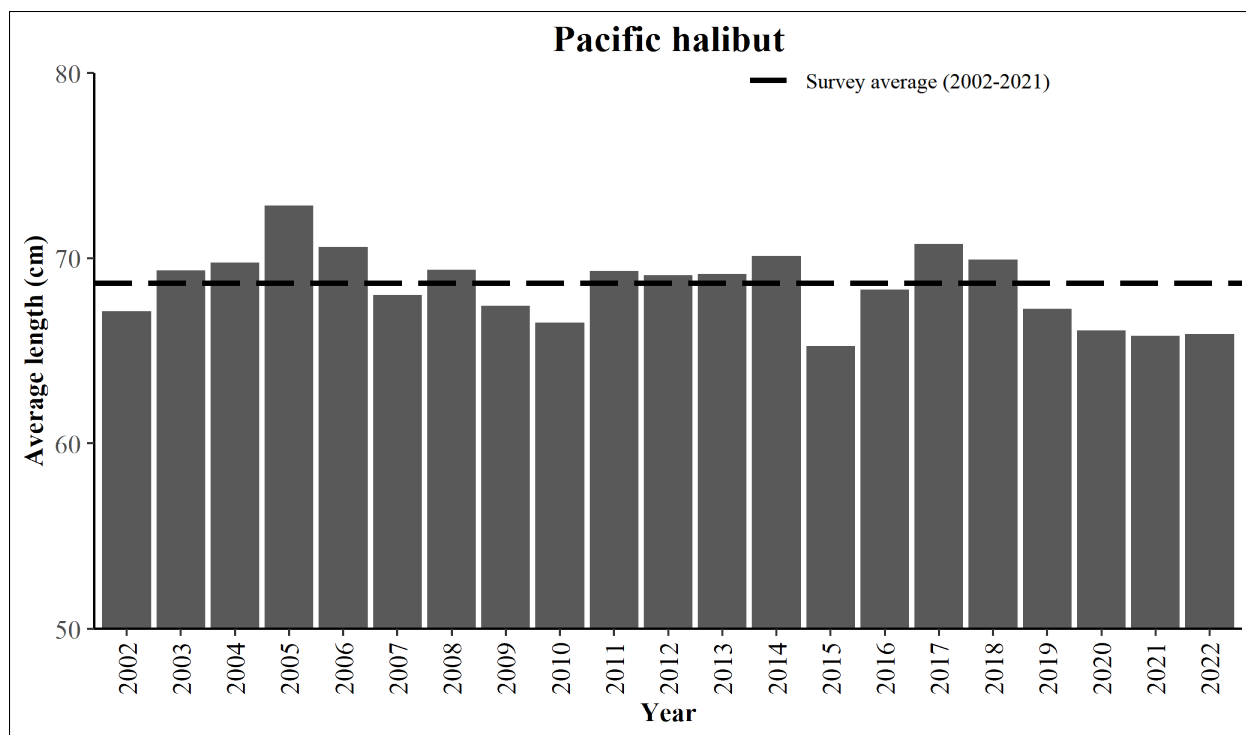


Figure 49.—Average Pacific halibut length from fish caught on the large-mesh bottom trawl surveys, 2002–2022.

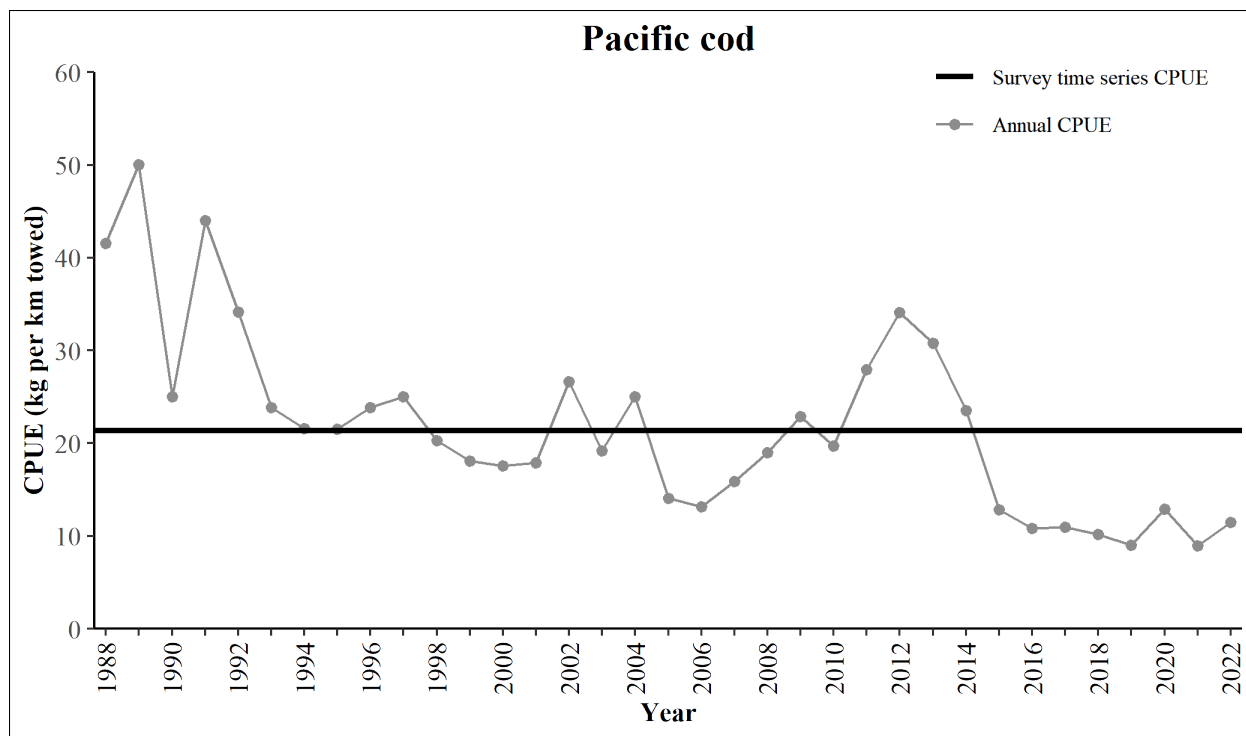


Figure 50.—Pacific cod annual CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

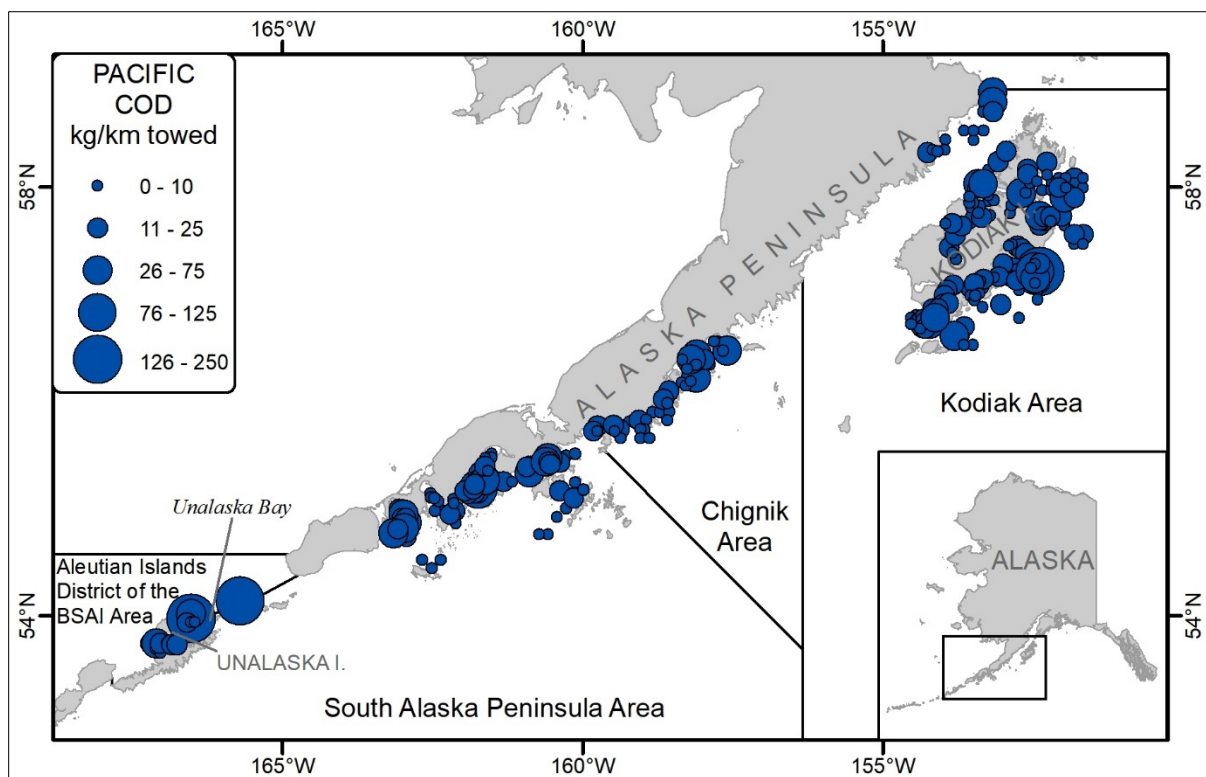


Figure 51.—Pacific cod station CPUE in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

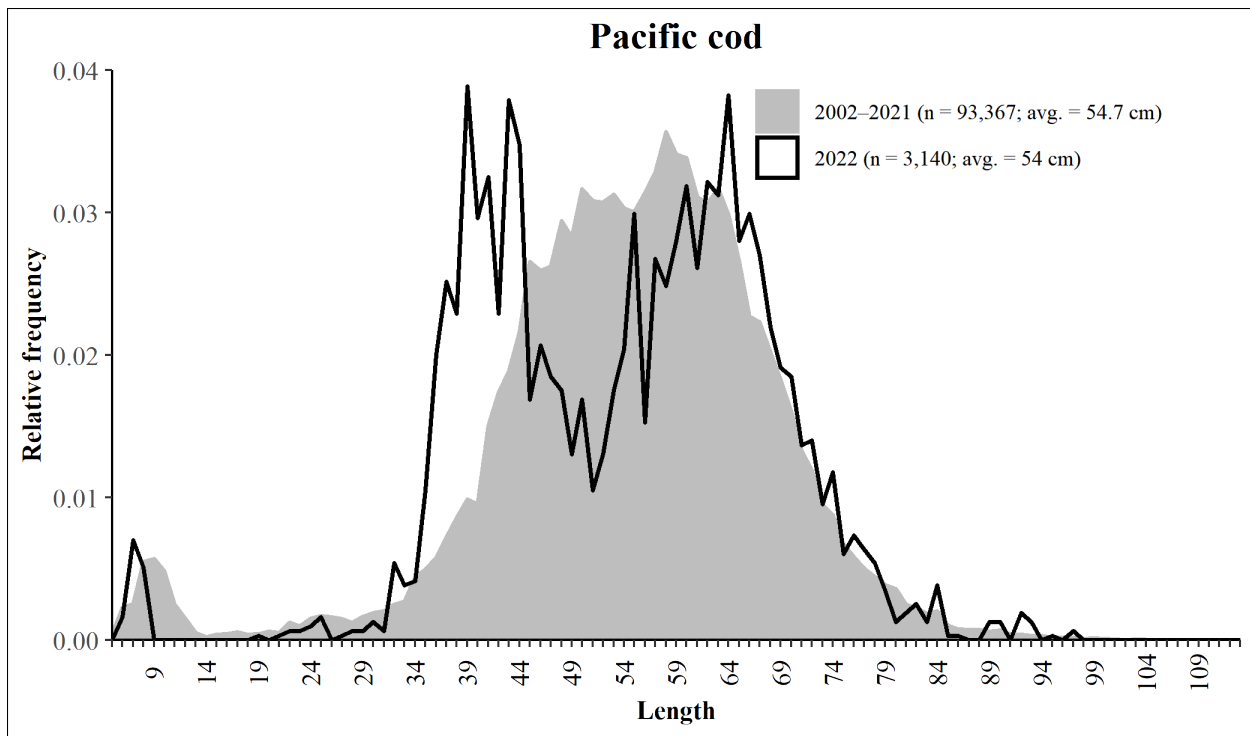


Figure 52.—Pacific cod length frequency from the large-mesh bottom trawl surveys, 2002–2022.

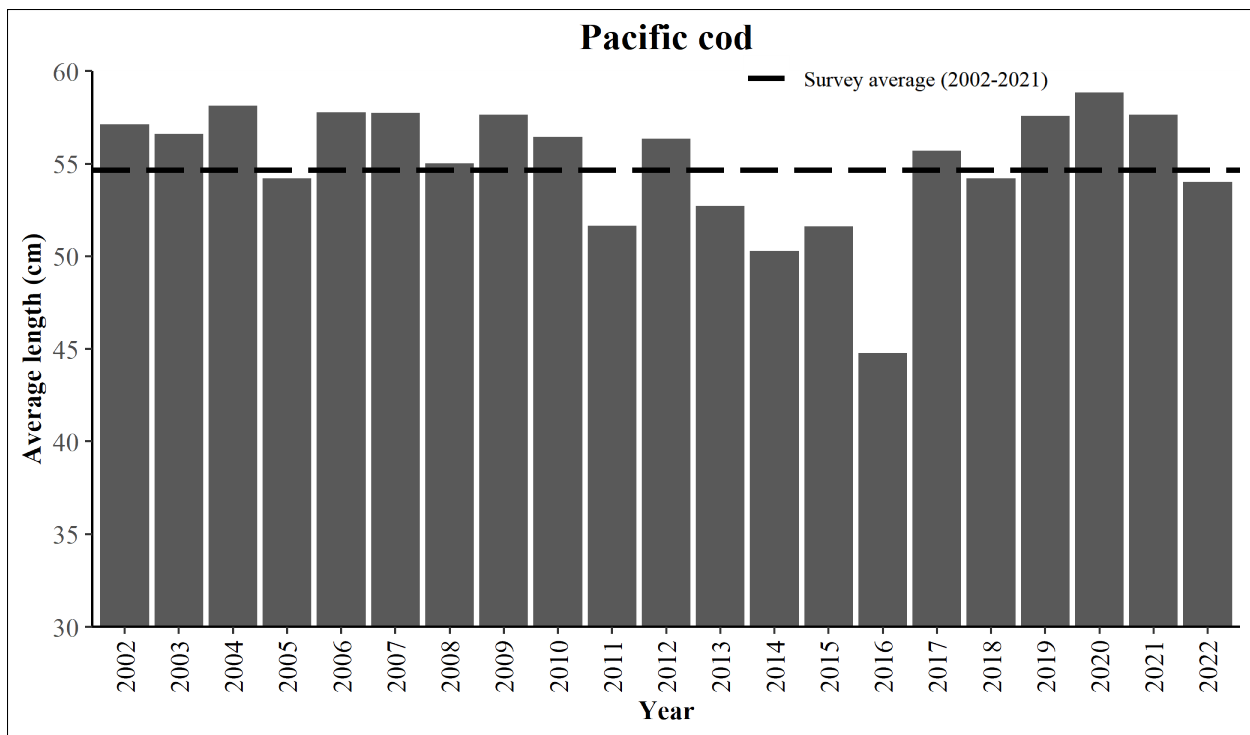


Figure 53.—Average Pacific cod length from fish caught on the large-mesh bottom trawl surveys, 2002–2022.

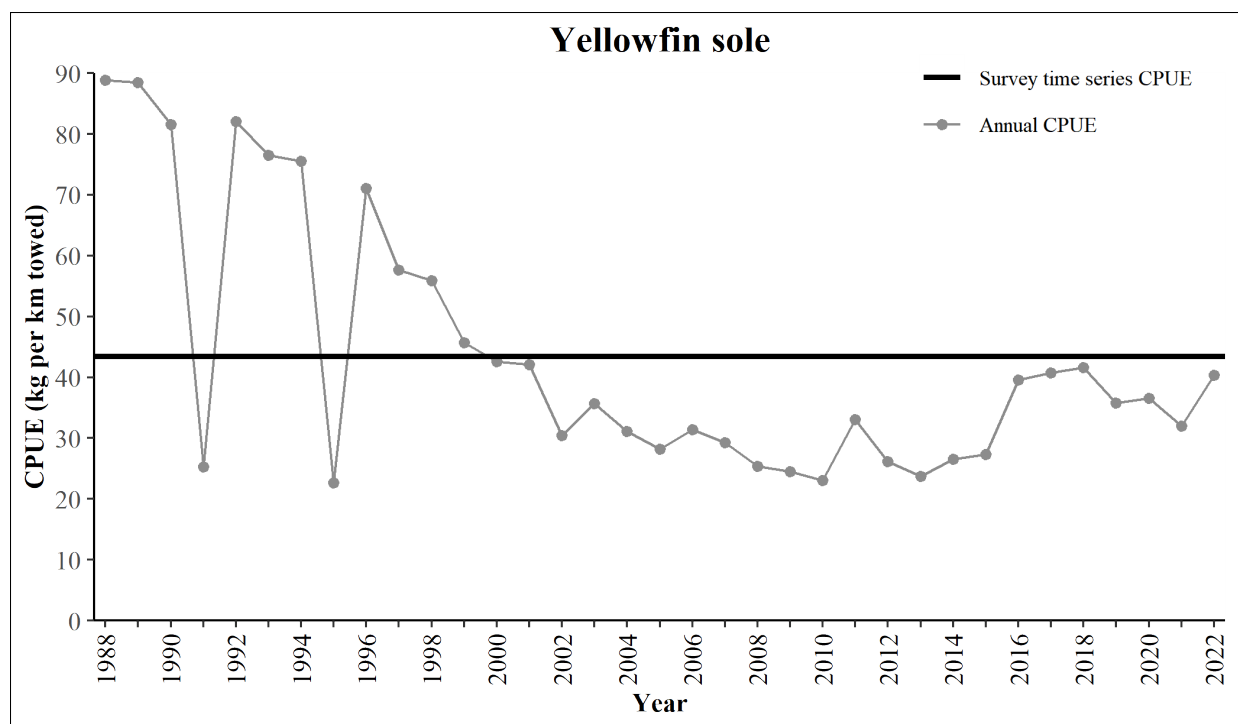


Figure 54.—Yellowfin sole annual CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

Note: 1991 and 1995 were incomplete surveys and did not include groundfish data from the South Peninsula District, where the majority of yellowfin sole are captured.

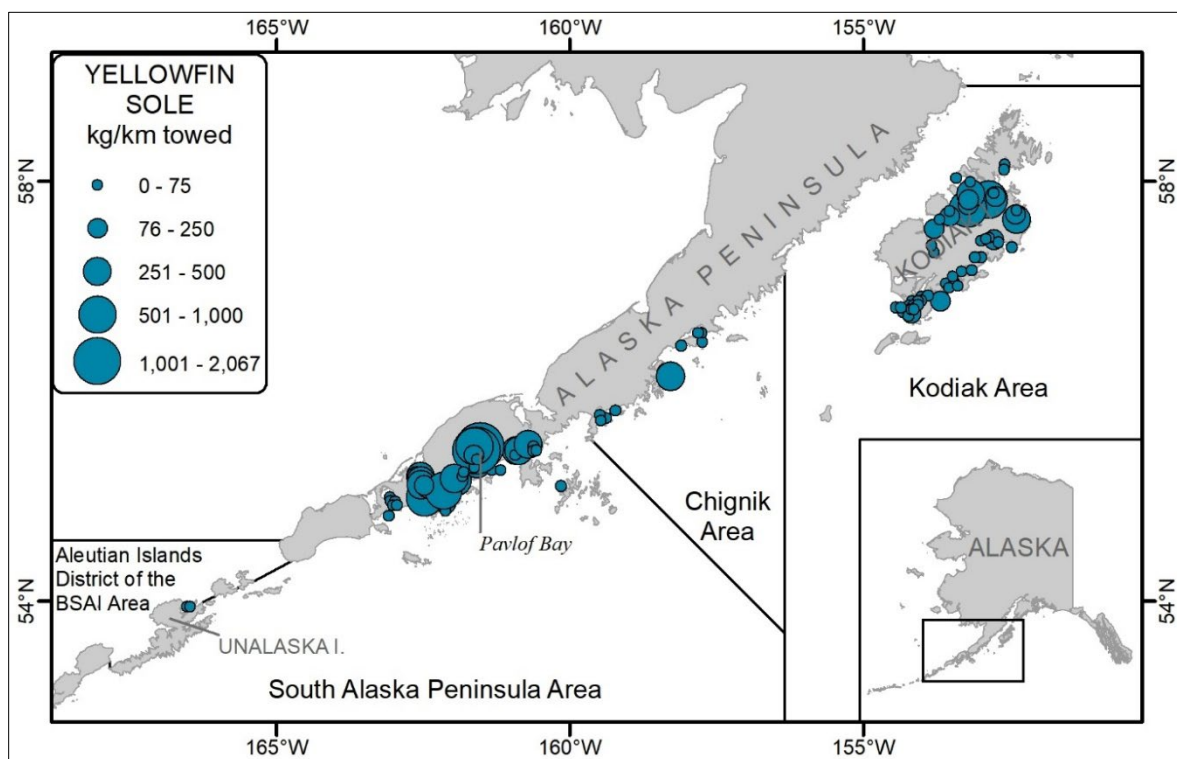


Figure 55.—Yellowfin sole station CPUE in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

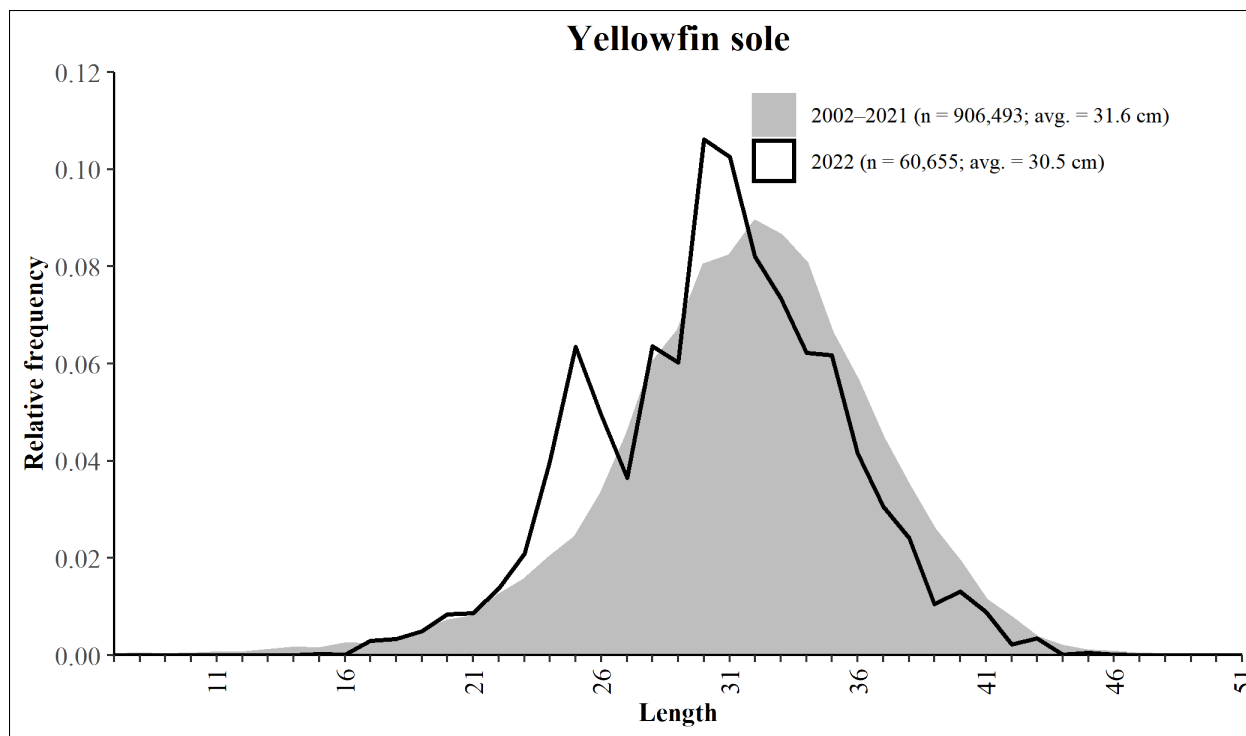


Figure 56.—Yellowfin sole length frequency from the large-mesh bottom trawl surveys, 2002–2022.

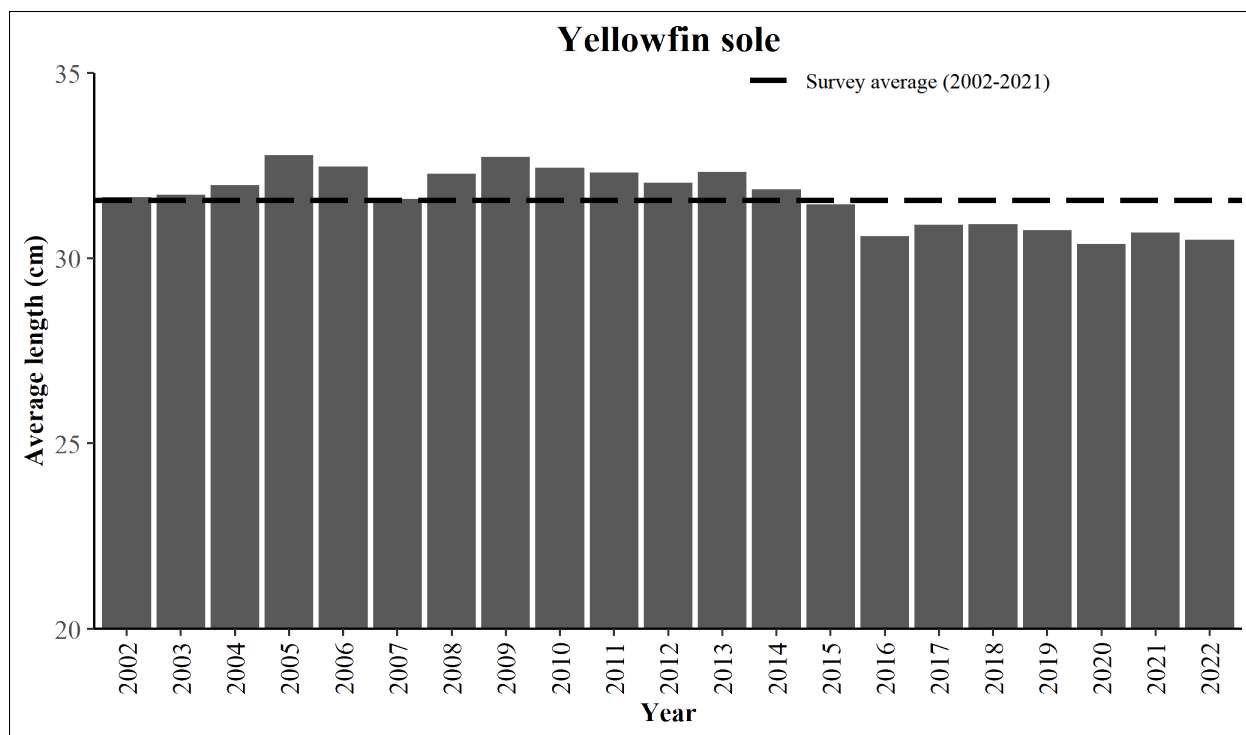


Figure 57.—Average yellowfin sole length from fish caught on the large-mesh bottom trawl surveys, 2002–2022.

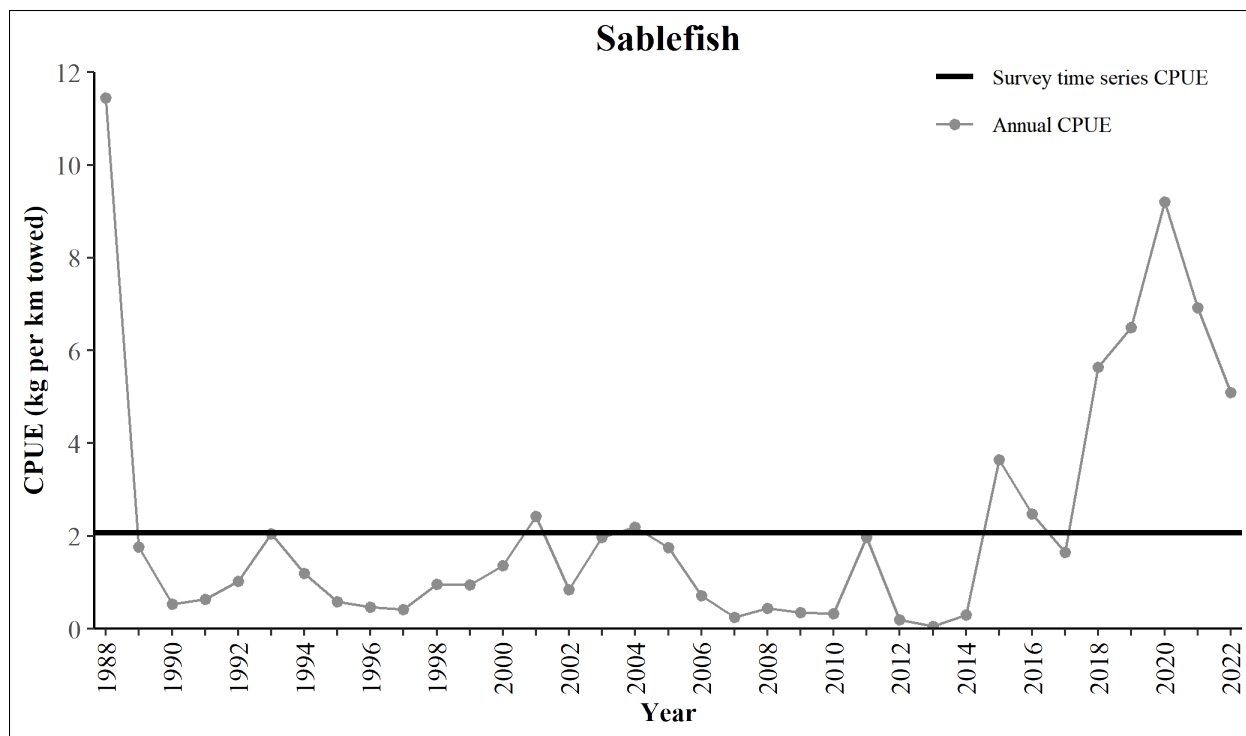


Figure 58.—Sablefish annual CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

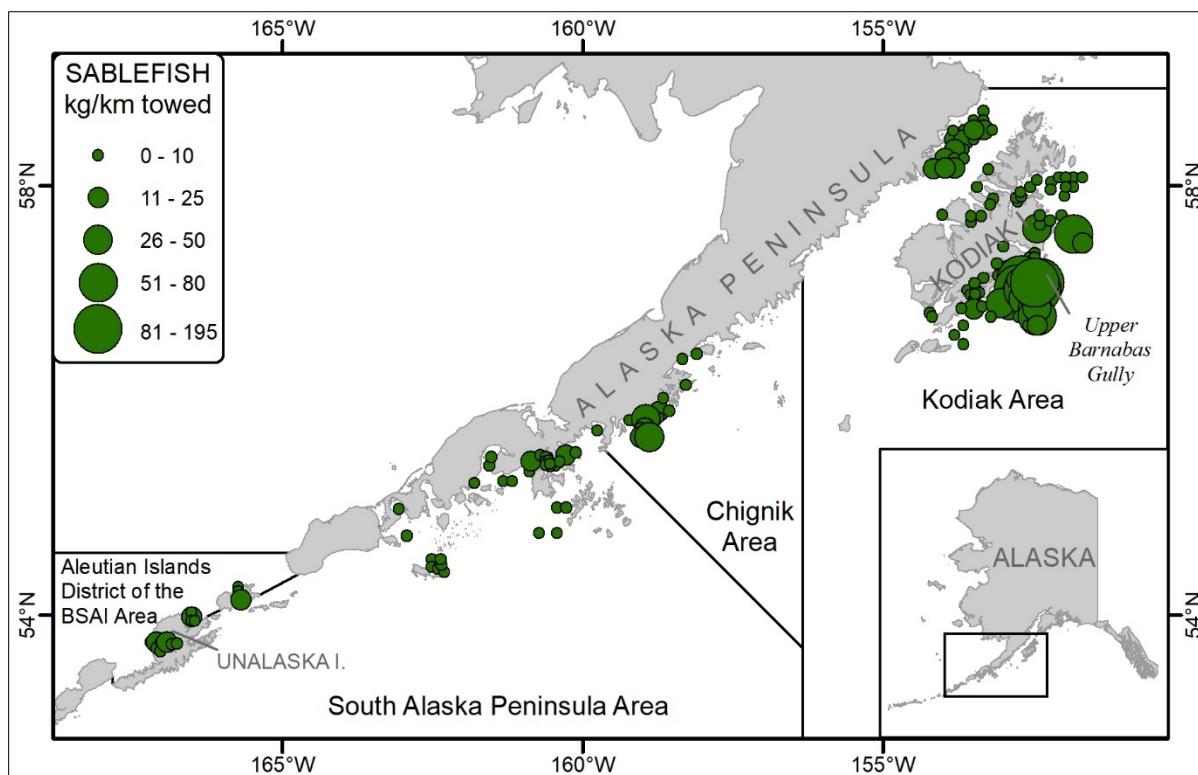


Figure 59.—Sablefish station CPUE in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

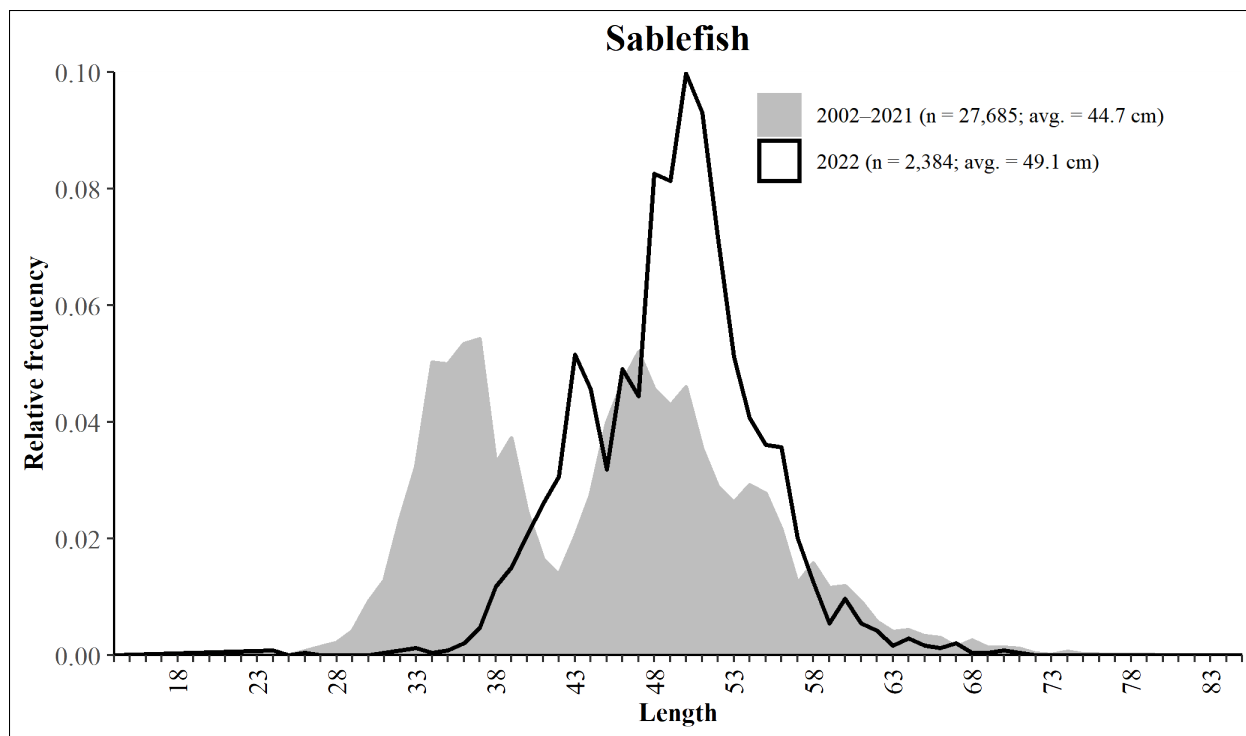


Figure 60.—Sablefish length frequency from the large-mesh bottom trawl surveys, 2002–2022.

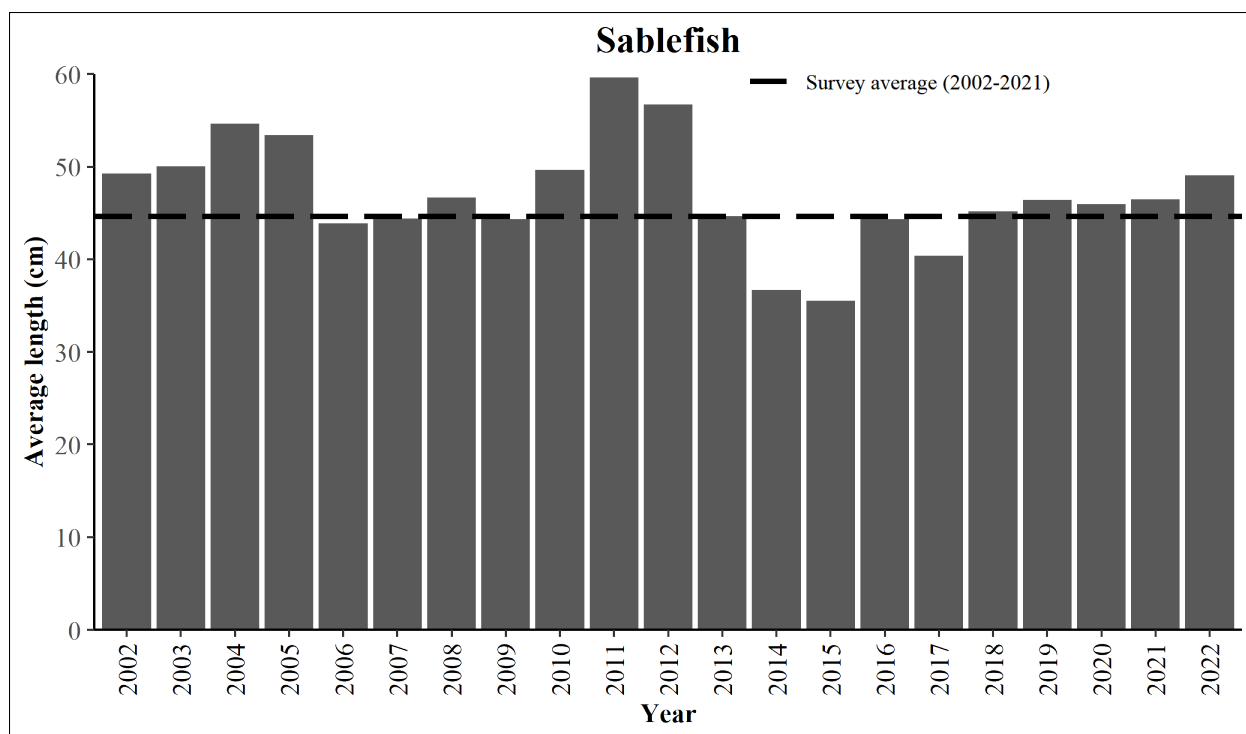


Figure 61.—Average sablefish length from fish caught on the large-mesh bottom trawl surveys, 2002–2022.

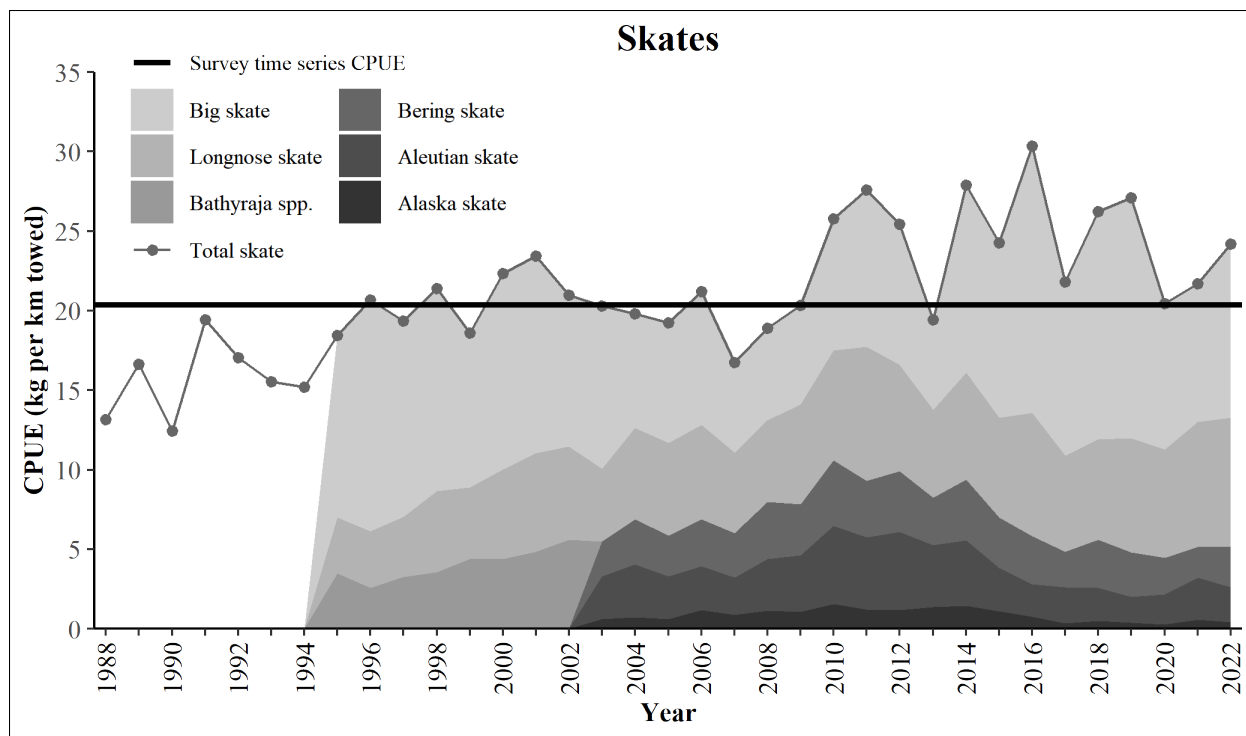


Figure 62.—Annual skate CPUE in kilograms per kilometer towed from the 1988–2022 large-mesh bottom trawl surveys.

Note: Skates were identified to genus starting in 1995, and to species starting in 2003.

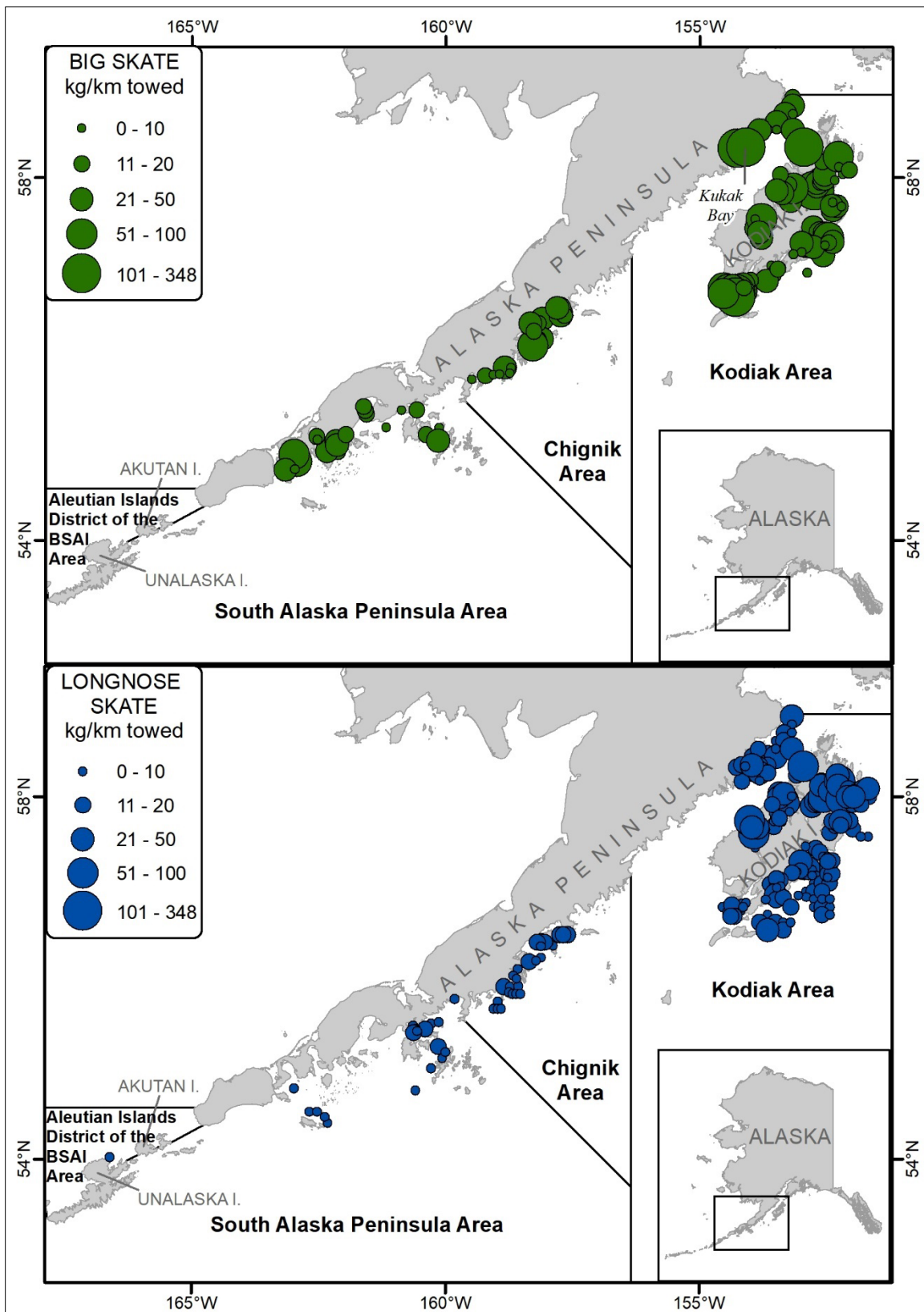


Figure 63.—Big and longnose skate catch in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

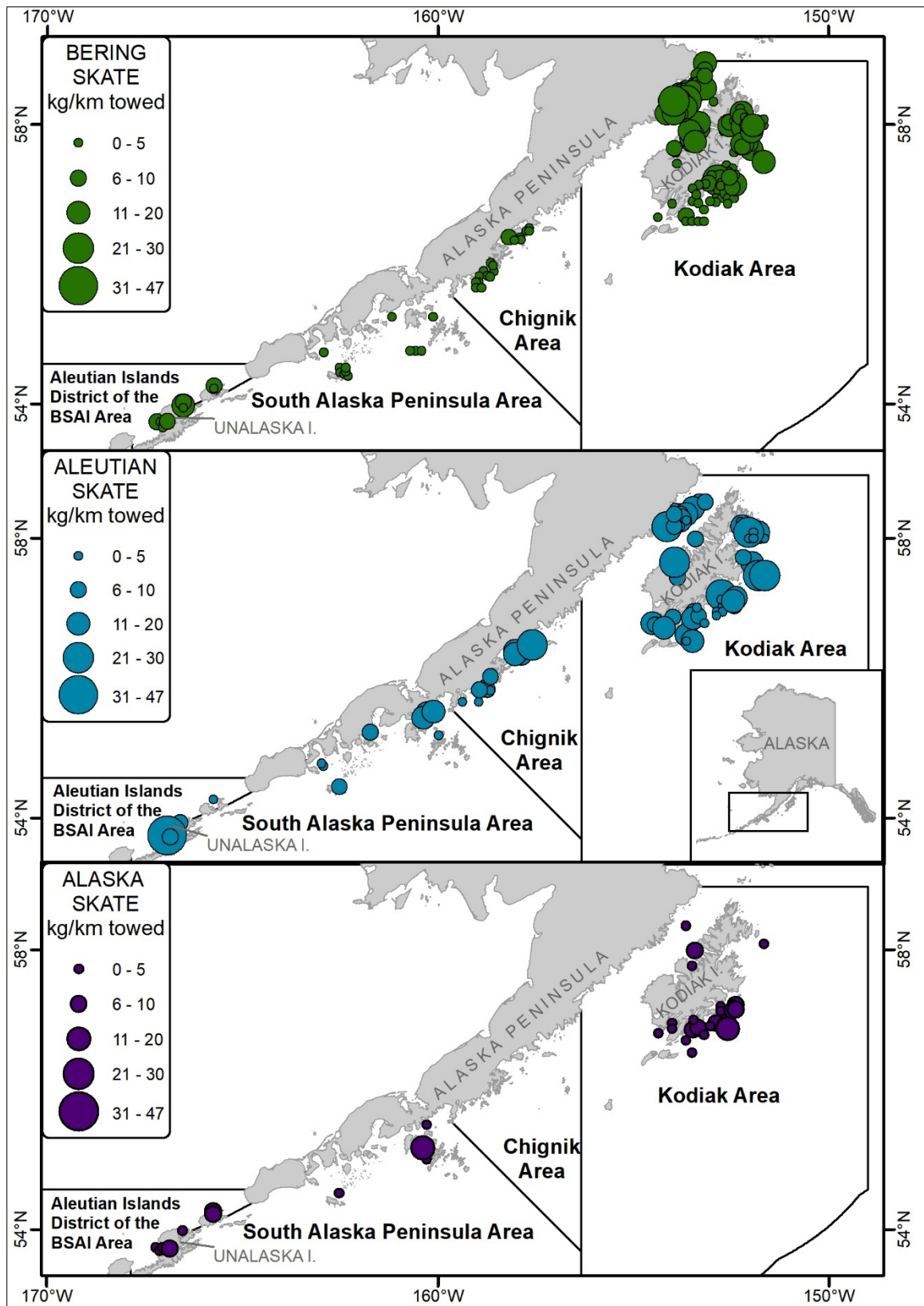


Figure 64.—Bering, Aleutian, and Alaska skate catch in kilograms per kilometer towed from the 2022 large-mesh bottom trawl survey.

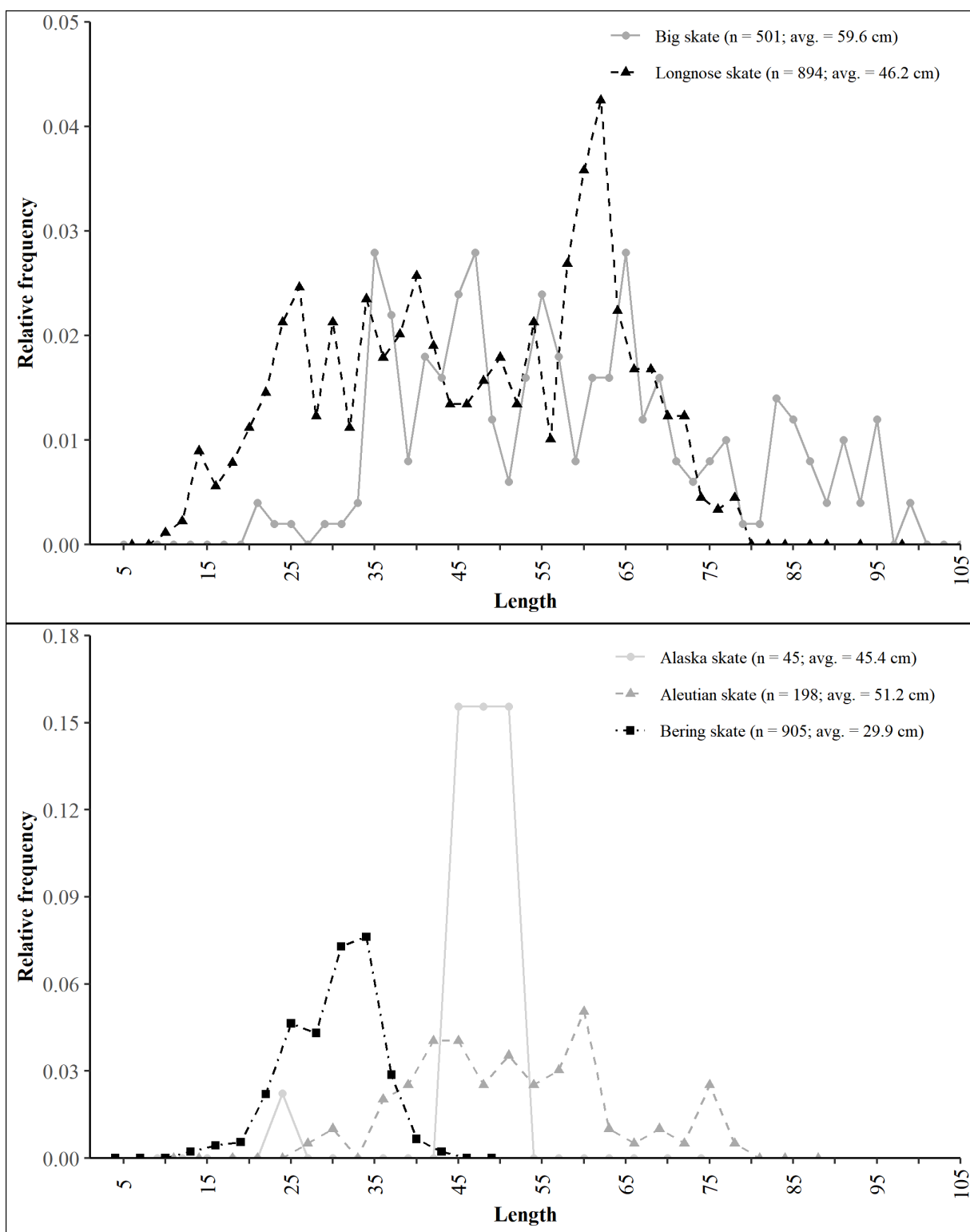


Figure 65.—Big, longnose, Bering, Alaska, and Aleutian skate relative size frequencies (snout to anterior notch of pectoral fin) from the 2022 large-mesh bottom trawl survey.

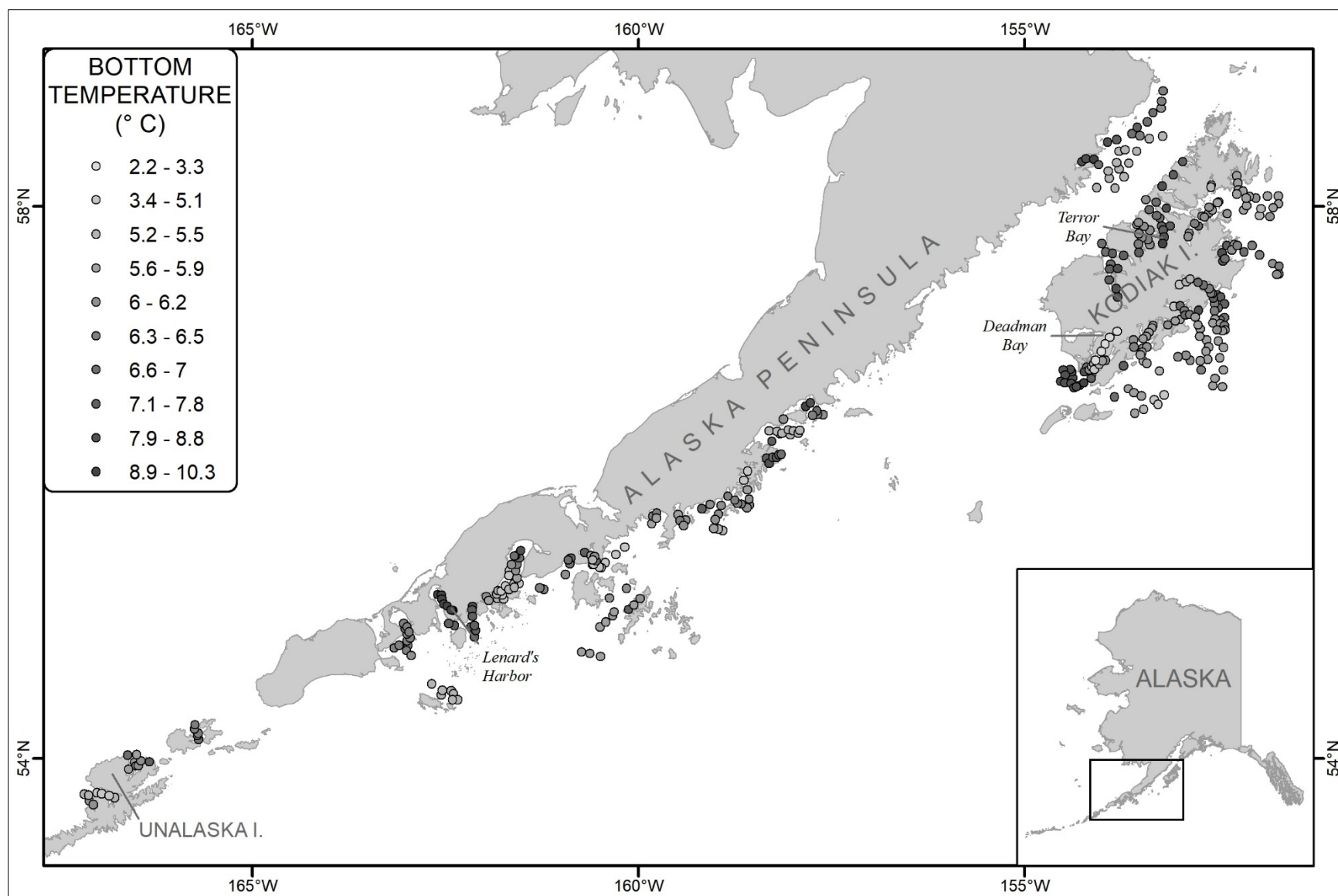


Figure 66.—Near-bottom water temperatures from the 2022 large-mesh bottom trawl survey.

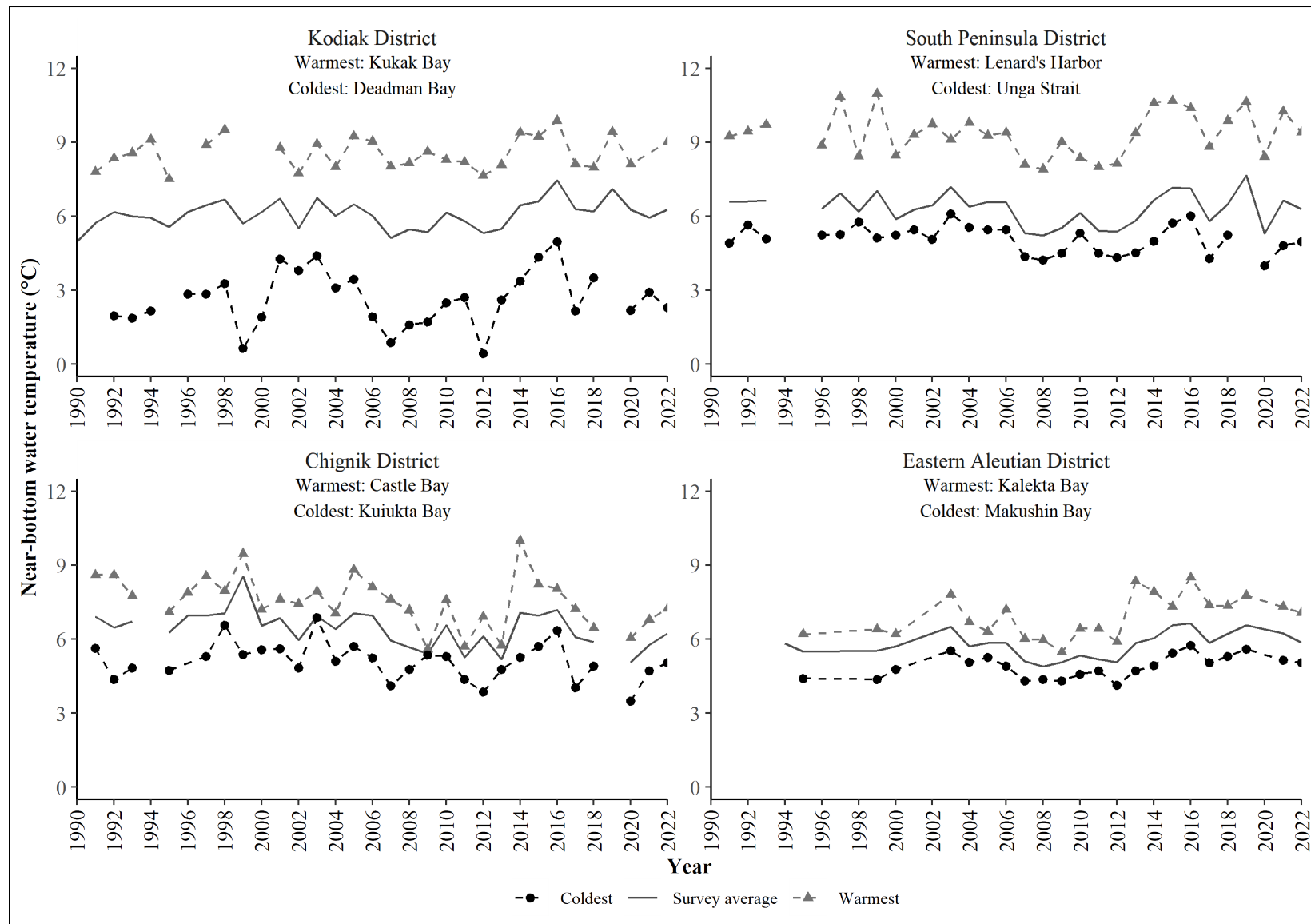


Figure 67.—Near-bottom water temperature (°C) for warmest and coldest bays during the 2021 large-mesh bottom trawl survey and the average water temperature in those bays from 1990–2022 surveys.

Note: Temperatures presented are the average temperature of all hauls within the area of interest (bay, district, or entire survey).

APPENDIX A. GLOSSARY

Appendix A1.–Definition of terms in large-mesh trawl survey report.

Crab Terms

<i>abdominal flap</i>	Crab abdomen folded underneath body. Can be lifted to reveal reproductive appendages. Shape of abdominal flap used to identify crab sex; males have a triangular shaped abdominal flap, and females are more rounded.
<i>anterolateral spines</i>	Spines on the margin of anterior half of carapace.
<i>bitter crab disease</i>	Disease lethal to crabs caused by a parasitic dinoflagellate of the genus <i>Hematodinium</i> known to infect <i>Chionoecetes</i> crabs. Live crab in later stages of infection have an exaggerated pink carapace or legs and white opaque hemolymph that can be observed if a leg is cracked. Crab infected with this parasite are unmarketable because of an astringent aspirin aftertaste.
<i>black mat</i>	A systemic fungal infection (<i>Trichomaris invadens</i>) that forms non-discrete blotches of a black, tar-like mass on the carapace and legs. Black mat has a fibrous-like texture when scraped.
<i>carapace</i>	Main part of crab shell that covers body of crab. It is divided into the gastric, branchial, and cardiac regions.
<i>carapace length</i>	The biological size measurement of all species of king crabs taken as the straight-line distance from the posterior margin of the right eye orbit to the medial-posterior carapace margin.
<i>carapace width</i>	Crab measurement taken as the greatest straight-line distance perpendicular to a line midway between the eyes to the medial-posterior margin. Biological measurements do not include spines.
<i>chela height</i>	Measurement of the right claw of a crab taken at the greatest height, excluding spines.
<i>clutch</i>	Eggs beneath a female abdominal flap.
<i>eyed eggs</i>	Stage of egg development when dark eyespots are present and visible to the human eye.
<i>juvenile</i>	An animal that has not reached sexual maturity.
<i>lateral margin</i>	The outer edge of the crab carapace.
<i>legal size</i>	The minimum size of an animal that may be retained by state regulation. For Tanner crab males in Kodiak, Chignik, South Peninsula, and Eastern Aleutian Districts legal size is 5.5 inches (140 mm) carapace width including the lateral margin spines. For king crab males minimum legal size is 7.0 inches (177.8 mm) carapace width in the Kodiak Area and 6.5 inches (165.1 mm) carapace width in the Alaska Peninsula and Aleutian Islands Areas, including the lateral margin spines. For Dungeness crab the minimum legal size is 6.5 inches (165.1 mm) carapace width, immediately anterior to the tenth anterolateral spine.
<i>mature female</i>	A female animal that has reached sexual maturity. For Tanner crab, mature females have a circular abdominal flap that covers most of the ventral surface of the crab, whereas a juvenile female abdominal flap covers only about $\frac{2}{3}$ of the ventral surface. For red king crab, mature females include ovigerous females of any size, all females >115 mm CL in the Kodiak area, and all females >99 mm CL in the Alaska Peninsula and Aleutian Islands areas.

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<i>mature male</i>	A male animal that has reached sexual maturity. For Tanner crab, mature males are considered to be all males that are >114 mm carapace width.
<i>medial-posterior edge</i>	The middle of the back edge of the carapace.
<i>midline</i>	The median plane of the body of an animal. For crabs this is an imaginary line running along the carapace from between the eyes to the medial-posterior edge.
<i>multiparous female</i>	A female crab that has produced more than one clutch of eggs. For Tanner crab they may be identified by the presence of discolored grasping marks on legs.
<i>nemertean worms</i>	Egg parasites in clutch of mature female crab that prey on developing embryos. Worms are small, red in color, often S-shaped during early stages of development, and are most obvious in clutch with a high number of dead embryos.
<i>new shell</i>	Carapace and chela are hard and will crack when pressure is applied. Legs are not easily compressed when pinched and will break if bent. Colors are bright. Iridescence, particularly on the chelae, is often visible. Ventral surface can be any variation of white or pink. Spines, chela tips, chela teeth, and dactyl tips are sharp. Abdomen, coxae, and legs have little or no scratches and abrasions. Slight fouling may be present, including but not limited to leech egg cases, small barnacles, and encrusting bryozoans. On Tanner crab females, subtle grasping mark imprints may be present on the first 2 pairs of legs.
<i>old shell</i>	Colors are dull. Iridescence on the chelae may be visible. Ventral surface typically appears yellow to brown. Spines, chela tips, chela teeth, and dactyl tips may show wear. Abdomen, coxae, and legs have few to numerous scratches and abrasions, which may be slightly darker than the shell. Slight fouling may be present, including but not limited to leech egg cases, barnacles, bryozoans, tubeworm casings, and anemones. On Tanner crab females, grasping marks are often present and discolored on the first 2 pairs of legs.
<i>ovigerous</i>	Bearing eggs.
<i>parasitic barnacle</i>	The rhizocephalan barnacle <i>Briarosaccus callosus</i> exclusively parasitizes king crab species. The visible externa of the parasite is located in the abdominal flap of both sexes and varies in size from as small as a jellybean to as large as a chicken egg and in color from pale yellow to deep red. It causes castration in infected crabs and is uncommon around Kodiak and along the Alaska Peninsula.
<i>postrecruit male</i>	Male crab that have been legal size for more than 1 year. Tanner crab postrecruit males are 140–164 mm CW and old or very old/very very old shell and all males ≥ 165 mm CW. Red king crab postrecruit males are all legal-size crab that are old or very old/very very old, all males ≥ 164 mm CL in the Kodiak area, and all males ≥ 152 mm CL in the Alaska Peninsula and Aleutian Islands areas.
<i>prerecruit male</i>	Male crab not legal size. Prerecruit crab are often divided into size groups. For red king crab prerecruit IV are crab <95 mm CL in the Kodiak Area and <79 mm CL in the Alaska Peninsula and Aleutian Islands areas. Prerecruit III are crab 95–112 mm CL in the Kodiak Area and 79–95 mm CL in the Alaska Peninsula and Aleutian Islands areas. Prerecruit II are crab 113–130 mm CL in the Kodiak Area and 96–115 mm CL in the Alaska Peninsula and Aleutian Islands areas. Prerecruit I are crab >130 mm CL in the Kodiak Area and >115 mm CL in the Alaska Peninsula and Aleutian Islands areas.

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<i>primiparous female</i>	A female crab that is carrying its first clutch of eggs. For Tanner crab they may be identified by being soft/new pliable or new shell mature females.
<i>recruit male</i>	Male crab that became legal size in the last year. For Tanner crab a recruit is soft/new pliable and new shell, 140–164 mm CW. For red king crab in the Kodiak Area a recruit is legal-size, soft/new pliable, and ≤ 164 mm CL. For red king crab in the Alaska Peninsula and Aleutian Islands areas a recruit is legal-size, soft/new pliable, and ≤ 152 mm CL.
<i>shell condition</i>	A description of the appearance of a crab's exoskeleton, determined by examining characteristics that show wear with time. The ADF&G trawl survey program recognizes 4 shell condition categories: soft/new pliable, new, old, and very old/very very old.
<i>soft/new pliable shell</i>	(1) The exoskeleton is soft, flaccid, similar in texture to skin, and loses shape out of water. No scratches, abrasions, or epibionts are present. OR (2) Carapace and chela are firm, but thin and flexible and can be easily indented with slight thumb pressure. Legs are easily compressed when pinched. Colors are bright. Iridescence is common. Abdominal flap may appear translucent. Spines, chela tips, chela teeth, and dactyl tips are sharp if not pliable. No scratches, abrasions, or epibionts are present.
<i>spines</i>	Pointed processes along the edge of a crab carapace.
<i>very old/very very old shell</i>	(1) Colors are dull and often dark on the dorsal surface. Ventral surface typically appears yellow to brown with darker areas. Spines, chela tips, chela teeth, and dactyl tips are heavily worn. Legs are commonly damaged or missing. Abdomen, coxae, and legs have numerous scratches and abrasions, which are typically darker than the shell. Slight to moderate fouling is common, including—but not limited to—leech egg cases, large barnacles, bryozoans, hydroids, tubeworm casings, and anemones. On Tanner crab females, multiple grasping marks are often present and discolored on the first 2 pairs of legs. OR (2) Carapace may be soft and spongy because of decay. Colors are dark overall. Spines, chela tips, chela teeth, and dactyl tips are heavily worn. Legs are commonly damaged or missing. Moderate to extensive fouling is common.
<u>Trawl Net Terms</u>	
<i>codend</i>	The trailing end of a tapered trawl net where catch accumulates during towing.
<i>dandylines</i>	Also called bridles. Cables between trawl door and side of trawl net.
<i>doors</i>	Steel boards attached between vessel and trawl net, positioned to create hydrodynamic forces while towing that push them apart and spread the opening of the net.
<i>footrope</i>	The line running along lower mouth of net. Net used during large-mesh trawl survey has footrope weighted with chain to keep it on bottom.
<i>headrope</i>	The line running along upper mouth of net with floats attached to keep the net open.
<i>mesh</i>	An open fabric of line or cord, the intersections of which are looped or knotted into various sized spaces and sewn together to form a net.

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<i>net performance</i>	A rating given by the skipper describing problems encountered with the net during a haul.
<i>sweep</i>	The width net covers when towed over the seafloor.
<i>wing</i>	The portion of the trawl net forward of the main body of the net.
<u>Sampling Terms</u>	
<i>catch</i>	Quantity of animals caught in trawl net. Measured in numbers or weight of animals.
<i>catch weight database</i>	The onboard database used to enter weights of all species identified during the haul. All information is entered upon completion of catch sampling. Data from the shellfish and fish measurement databases are incorporated into the catch weight database after each haul.
<i>cruise leader</i>	Biologist in charge of coordinating biological sampling activities during the survey and responsible for the quality of collected data while on the vessel.
<i>debris</i>	Contents of the trawl net that are not identified or sampled, including rocks, empty shells, seaweed, previously dead organisms, or human-made objects.
<i>fish measurement database</i>	The onboard database used to collect fish measurements. Measurements can be entered directly from the magnetic fish measuring board, or entered into the database manually using a networked input program from a network-connected device.
<i>haul</i>	From the time trawl net reaches bottom and is towed in an attempt to fish to the time the vessel stops moving and begins retrieving the net.
<i>haul database</i>	The onboard database to store information associated with the fishing process for each haul. Data from skipper trawl record forms are manually entered at the end of each day.
<i>onboard databases</i>	Databases in use during the trawl survey include: fish measurement database, shellfish measurement database, catch weight database, and haul database.
<i>on-deck sorting bin</i>	An area located on the back deck of the survey vessel contained by removable boards where the catch from the codend is emptied after every haul, prior to sorting and removal of the subsample.
<i>shellfish measurement database</i>	Onboard database used to enter crab measurements and biological information. Measurements and crab information are entered directly using electronic calipers and the crab keyboard, or by using a standard keyboard.
<i>sorting table</i>	Table located on the forward part of deck where the subsample is sorted for species composition, weighing, and measuring.
<i>species composition sampling</i>	Sorting, identification, and weighing of organisms in the catch to determine proportion and total weight of each species.
<i>station</i>	Survey area sampling unit. Each station is towed once during the annual survey.
<i>subsample</i>	A representative and random subset of the total haul catch.
<i>subsampling net</i>	The net used to obtain the subsample. This net is tied into the on-deck sorting bin and the haul catch is emptied into the bin. The subsampling net is then untied and lifted through the catch to capture a representative subsample that is sorted at the sorting table.

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<i>whole-haul</i>	When 100% of the trawl catch of a specific species is accounted for by weight, count, or measurement, or a combination. In instances when there is a small total catch, when 100% of the total trawl catch is sorted and weighed.
<u>Management Terms</u>	
<i>abundance threshold</i>	Levels of mature male and mature female Tanner crab abundance described in state regulation that must be met in order to consider opening a commercial fishery.
<i>GHL</i>	Guideline harvest level. Catch quota established prior to the beginning of each fishing season. GHLs for Tanner crab are based on large-mesh trawl survey data.
<i>legal male</i>	Crab that may be retained by state regulation; only male crab of specific size are considered legal to retain.
<i>long-term average abundance</i>	Average abundance of mature male and mature female Tanner crab 1988–2021 as determined by trawl survey data and used to establish regulatory abundance thresholds.
<i>management district</i>	Regulatory unit to facilitate resource management.
<i>management section</i>	Management districts are divided into sections to facilitate management of the Tanner crab fisheries and are based on local distributions and migration patterns. Each section has a separate GHL.
<u>Other Biological Terms</u>	
<i>anterior</i>	Toward the front, near the head or rostral end of a crab.
<i>caudal fin</i>	The tail of a fish.
<i>claspers</i>	A paired organ of male sharks and skates. Assists transfer of spermatozoa into the body of a female during copulation.
<i>dorsal</i>	The back or part of an organism away from the ground. Refers to the hinge area of a scallop shell.
<i>pectoral fin</i>	Either of a pair of fins situated behind the head, one on each side of the body.
<i>posterior</i>	The rear, away from the head.
<i>shell height</i>	The straight-line distance from the umbo to the outer scallop shell margin, perpendicular to the hinge. Scallop shell heights are measured on the left (top) valve.
<i>umbo</i>	Beak-like projections at the dorsal part of a shell; it is the oldest part of a bivalve shell.
<i>valve</i>	One of the 2 parts of a bivalve shell; 2 valves make up 1 shell.
<u>Data Analysis Terms</u>	
<i>area swept</i>	The sea floor area sampled by the trawl during a haul.
<i>density</i>	The number or weight of a species present per unit of area.
<i>distance towed/haul length</i>	Distance the vessel travels between the time the trawl net footrope contacts bottom and the time the center of footrope leaves bottom.
<i>relative abundance indices</i>	Indices that track change in population size but do not estimate actual population size.

APPENDIX B. FISHING LOG AND TRAWL STATIONS SAMPLED

Appendix B1.—2022 large-mesh bottom trawl survey fishing log.

Haul	1	2	3	4	5	6	7	8	9	10	11	12	13
Location	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.
Month/Day/Year	06-15-22	06-15-22	06-15-22	06-15-22	06-16-22	06-16-22	06-16-22	06-16-22	06-16-22	06-21-22	06-21-22	06-21-22	06-21-22
Station	CHJ	CHE	CHA	CHB	CHK	CHF	CHL	369X	CHG	KZG	KZK	MONX	MOEX
Longitude Start (°W)	152.3803	152.4422	152.4300	152.4082	152.2867	152.3145	152.2453	152.0525	152.1592	152.6158	152.5650	152.4863	152.3760
Latitude Start (°N)	57.7283	57.6795	57.6185	57.6350	57.7360	57.6972	57.7298	57.7303	57.6835	57.9525	57.9730	58.0302	57.9472
Heading, Degrees	113	52	32	50	194	36	78	357	19	271	53	18	44
Average Depth (m)	91.43	16.45	49.37	73.14	131.6	138.9	182.8	109.7	138.9	128.0	168.2	195.6	118.8
Distance Fished (km)	1.852	1.111	1.852	1.852	1.852	1.852	1.852	1.389	1.852	1.852	1.852	1.852	1.852
Bottom Temp. (°C)	7.24	8.11	7.21	6.56	6.14	5.97	6.25	6.22	6.65	5.94	5.63	5.47	6.08
Haul	14	15	16	17	18	19	20	21	22	23	24	25	26
Location	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.
Month/Day/Year	06-21-22	06-21-22	06-22-22	06-22-22	06-22-22	06-22-22	06-22-22	06-22-22	06-22-22	06-22-22	06-23-22	06-23-22	06-23-22
Station	MOGX	283A	255B	256	257	285	284	314	313	283B	MOXA	MOXB	MOPA
Longitude Start (°W)	152.1638	152.1222	152.0012	151.8582	151.7167	151.7053	151.7760	151.8240	151.9557	151.9373	152.2497	152.2427	152.2363
Latitude Start (°N)	57.9715	58.0008	58.0565	58.0690	58.0695	58.0158	57.9902	57.9285	57.9328	57.9815	58.2087	58.1570	58.1100
Heading, Degrees	39	154	74	106	69	46	229	219	22	18	176	151	227
Average Depth (m)	173.7	175.5	128.0	137.1	168.2	128.0	126.1	67.66	190.1	171.8	155.4	170.0	170.0
Distance Fished (km)	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852
Bottom Temp. (°C)	5.61	5.58	5.98	5.83	5.77	5.69	5.66	6.11	5.49	5.48	5.75	5.65	5.73
Haul	27	28	29	30	31	32	33	34	35	36	37	38	39
Location	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.
Month/Day/Year	06-23-22	06-23-22	06-23-22	06-23-22	06-23-22	06-24-22	06-24-22	06-24-22	06-24-22	06-24-22	06-24-22	06-24-22	06-24-22
Station	MOLA	255A	MOLB	MOPB	KZO	KZS	KZR	KZJ	KZF	KZE	KZC	KZD	KZB
Longitude Start (°W)	152.1702	152.0852	152.1307	152.2527	152.5008	152.5820	152.5865	152.6133	152.6983	152.6687	152.7472	152.7967	152.8660
Latitude Start (°N)	58.1027	58.0680	58.0560	58.0847	58.0242	58.1460	58.1323	57.9922	57.9300	57.9230	57.8613	57.8783	57.8133
Heading, Degrees	148	170	180	242	237	194	194	193	33	244	47	58	25
Average Depth (m)	201.1	149.9	151.7	166.4	197.5	91.43	118.8	129.8	137.1	104.2	64.00	87.77	51.20
Distance Fished (km)	1.852	1.852	1.852	1.666	1.852	1.481	1.852	1.852	1.296	1.296	1.296	1.296	1.111
Bottom Temp. (°C)	5.66	5.84	5.82	5.64	5.53	5.17	5.11	5.97	6.08	6.18	6.72	6.38	6.13
Haul	40	41	42	43	44	45	46	47	48	49	50	51	52
Location	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	NE Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.
Month/Day/Year	06-24-22	06-28-22	06-28-22	06-28-22	06-28-22	06-28-22	06-29-22	06-29-22	06-29-22	06-29-22	06-29-22	06-29-22	06-29-22
Station	KZA	395	420	421	444	443	UGG	UGJ	486B	511B	511A	486A	UGM
Longitude Start (°W)	152.8778	151.9578	151.7880	151.7025	151.7050	151.7347	152.5063	152.4588	152.4115	152.4153	152.4640	152.4942	152.5415
Latitude Start (°N)	57.7907	57.6632	57.6038	57.5850	57.5297	57.5280	57.3853	57.3725	57.3220	57.2250	57.2083	57.2965	57.3275
Heading, Degrees	10	290	132	141	124	276	80	193	158	171	327	13	192
Average Depth (m)	45.71	204.8	124.3	120.6	162.7	146.2	65.83	74.97	71.31	76.80	106.0	98.75	104.2
Distance Fished (km)	1.111	1.852	1.481	1.481	1.481	1.389	1.796	1.852	1.852	1.852	1.666	1.852	1.018
Bottom Temp. (°C)	6.07	6.39	6.18	6.38	5.94	6.15	7.32	7.43	7.68	6.86	6.43	6.60	6.47

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Haul	53	54	55	56	57	58	59	60	61	62	63	64	65
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.
Month/Day/Year	06-30-22	06-30-22	06-30-22	06-30-22	06-30-22	06-30-22	06-30-22	06-30-22	06-30-22	07-01-22	07-01-22	07-01-22	07-01-22
Station	UGI	510D	510C	534BX	535A	535B	535D	535C	534DX	UGF	UGE	UGD	UGC
Longitude Start (°W)	152.5517	152.5397	152.5325	152.5575	152.4633	152.4142	152.4080	152.4360	152.5065	152.5677	152.5873	152.6123	152.6803
Latitude Start (°N)	57.3652	57.2745	57.2160	57.1877	57.1835	57.1698	57.1380	57.1317	57.1392	57.3958	57.3992	57.4290	57.4537
Heading, Degrees	144	140	160	67	151	173	172	7	32	154	337	298	315
Average Depth (m)	95.09	100.5	95.09	100.5	137.1	129.8	140.8	153.6	129.8	85.94	91.43	96.92	91.43
Distance Fished (km)	1.037	1.018	1.018	1.018	1.852	1.018	1.018	1.018	1.018	1.203	1.203	1.296	1.852
Bottom Temp. (°C)	7.15	6.41	5.73	5.65	5.83	6.51	5.60	5.58	6.00	6.58	6.23	6.42	6.58
Haul	66	67	68	69	70	71	72	73	74	75	76	77	78
Location	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	SE Kod.	SE Kod.	SE Kod.
Month/Day/Year	07-01-22	07-01-22	07-01-22	07-01-22	07-02-22	07-02-22	07-02-22	07-02-22	07-02-22	07-02-22	07-03-22	07-03-22	07-03-22
Station	UGAC	UGAD	UGAA	UGB	KLA	KLB	KLC	KLG	KLF	KLE	THN	THM	THL
Longitude Start (°W)	152.9948	152.9042	152.8572	152.7550	153.0687	152.9827	152.9290	152.9815	153.0435	153.1433	153.3340	153.3478	153.3912
Latitude Start (°N)	57.4578	57.4755	57.4972	57.4707	57.3060	57.3105	57.2742	57.2112	57.2020	57.1748	57.1708	57.1537	57.1217
Heading, Degrees	51	86	123	166	89	137	138	237	256	51	190	216	200
Average Depth (m)	34.74	71.31	76.80	91.43	91.43	82.29	95.09	118.8	122.5	117.0	106.0	120.6	124.3
Distance Fished (km)	1.203	1.852	1.481	1.203	1.018	1.852	1.852	1.852	1.852	1.852	1.666	1.481	1.666
Bottom Temp. (°C)	5.09	5.18	5.12	6.62	4.59	6.55	6.34	5.85	5.74	5.98	5.72	5.67	5.65
Haul	79	80	81	82	83	84	85	86	87	88	89	90	91
Location	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.	E Kod.
Month/Day/Year	07-03-22	07-03-22	07-03-22	07-03-22	07-03-22	07-04-22	07-04-22	07-04-22	07-04-22	07-04-22	07-04-22	07-04-22	07-04-22
Station	THK	THJ	THI	THF	THG	KLH	KLI	KLD	KLL	533B	560	561	589
Longitude Start (°W)	153.4265	153.4615	153.5893	153.5825	153.4708	152.9168	152.8612	152.7478	152.7890	152.7270	152.6440	152.4923	152.4262
Latitude Start (°N)	57.0942	57.0758	57.0682	57.0212	57.0082	57.2428	57.2457	57.2788	57.2292	57.1468	57.0685	57.0613	57.0183
Heading, Degrees	16	167	121	73	57	219	141	199	123	87	152	158	200
Average Depth (m)	117.0	113.3	91.43	73.14	122.5	107.8	122.5	23.77	133.4	144.4	151.7	146.2	137.1
Distance Fished (km)	1.666	1.852	1.481	1.296	1.852	1.852	1.852	1.111	1.852	1.481	1.481	1.481	1.481
Bottom Temp. (°C)	5.68	5.79	6.07	6.26	5.86	6.70	6.35	8.11	5.62	5.56	5.55	5.56	5.54
Haul	92	93	94	95	96	97	98	99	100	101	102	103	104
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.	SE Kod.
Month/Day/Year	07-05-22	07-05-22	07-05-22	07-05-22	07-05-22	07-05-22	07-05-22	07-05-22	07-06-22	07-06-22	07-06-22	07-06-22	07-06-22
Station	533A	559	588	621	656	696	695	655	587	620	654	619	618A
Longitude Start (°W)	152.7512	152.7318	152.6180	152.4678	152.4227	152.4402	152.5588	152.5320	152.6512	152.6292	152.7155	152.7247	152.8528
Latitude Start (°N)	57.1727	57.0933	57.0215	56.9448	56.8553	56.7348	56.7417	56.7948	56.9890	56.9323	56.8547	56.9233	56.9245
Heading, Degrees	214	230	126	201	173	148	12	344	236	144	316	311	20
Average Depth (m)	138.9	153.6	151.7	153.6	160.9	182.8	142.6	151.7	151.7	151.7	100.5	135.3	118.8
Distance Fished (km)	1.296	1.481	1.481	1.481	1.666	1.852	1.481	1.481	1.481	1.481	1.481	1.481	1.111
Bottom Temp. (°C)	5.54	5.52	5.56	5.63	5.60	5.63	5.57	5.56	5.57	5.54	6.31	5.61	5.96

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Haul	105	106	107	108	109	110	111	112	113	114	115	116	117
Location	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.	SE Kod.
Month/Day/Year	07-06-22	07-06-22	07-06-22	07-07-22	07-07-22	07-07-22	07-07-22	07-07-22	07-07-22	07-08-22	07-08-22	07-08-22	07-08-22
Station	586	585X	651	THA	614	615	THH	THDX	THCX	688	726	727	760
Longitude Start (°W)	152.9093	153.0118	153.2495	153.7167	153.4633	153.4167	153.4165	153.4767	153.4983	153.6570	153.5868	153.4877	153.4532
Latitude Start (°N)	56.9592	56.9497	56.8475	56.8865	56.9228	56.9050	57.0193	56.9835	56.9637	56.7210	56.6943	56.6718	56.5778
Heading, Degrees	239	267	143	64	172	38	4	182	187	105	155	178	202
Average Depth (m)	128.0	135.3	175.5	51.20	140.8	140.8	109.7	129.8	131.6	151.7	155.4	149.9	133.4
Distance Fished (km)	1.481	1.481	1.666	1.666	1.852	1.852	1.852	1.852	1.852	1.481	1.481	1.481	1.481
Bottom Temp. (°C)	5.87	6.08	5.23	7.19	5.45	5.62	5.97	5.62	5.61	5.73	5.69	5.60	5.20
Haul	118	119	120	121	122	123	124	125	126	127	128	129	130
Location	SE Kod.	SE Kod.	SE Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.
Month/Day/Year	07-08-22	07-08-22	07-08-22	07-09-22	07-09-22	07-09-22	07-09-22	07-09-22	07-09-22	07-09-22	07-09-22	07-10-22	07-10-22
Station	728	729	761	646D	646B	646A	645B	646C	682B	683A	683B	ALD	ALBX
Longitude Start (°W)	153.3238	153.1925	153.2725	154.3802	154.3898	154.4127	154.5023	154.4727	154.5338	154.4792	154.3988	154.1903	154.2237
Latitude Start (°N)	56.6440	56.6815	56.6125	56.8005	56.8403	56.8610	56.8542	56.8197	56.7745	56.7642	56.7612	56.8775	56.8413
Heading, Degrees	38	191	273	0	1	246	173	133	126	95	101	185	126
Average Depth (m)	146.2	146.2	137.1	56.69	60.34	64.00	67.66	67.66	71.31	62.17	62.17	54.86	40.23
Distance Fished (km)	1.481	1.481	1.481	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.666	1.666
Bottom Temp. (°C)	5.09	5.06	5.07	8.14	8.56	8.42	7.92	8.17	8.42	8.18	8.05	6.60	8.25
Haul	131	132	133	134	135	136	137	138	139	140	141	142	143
Location	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.
Month/Day/Year	07-10-22	07-10-22	07-10-22	07-10-22	07-10-22	07-10-22	07-11-22	07-11-22	07-11-22	07-11-22	07-11-22	07-11-22	07-11-22
Station	ALCA	ALA	684A	683D	684C	684B	ALF	ALH	ALI	ALG	ALJ	ALK	ALM
Longitude Start (°W)	154.1268	154.1343	154.2903	154.3615	154.3287	154.2320	154.1635	154.1283	154.1005	154.0945	154.0302	153.9503	153.9955
Latitude Start (°N)	56.8252	56.7963	56.7457	56.7302	56.7368	56.7632	56.8568	56.8820	56.9005	56.8607	56.8985	56.9273	56.9225
Heading, Degrees	21	218	261	109	82	45	10	30	30	44	42	65	41
Average Depth (m)	73.14	71.31	64.00	74.97	73.14	76.80	53.03	64.00	80.46	58.51	71.31	69.49	65.83
Distance Fished (km)	1.481	1.481	1.666	1.666	1.481	1.481	1.666	1.666	1.666	1.666	1.852	1.481	1.852
Bottom Temp. (°C)	5.76	7.08	9.31	8.47	8.63	9.02	5.92	4.49	3.94	4.49	5.46	6.07	5.63
Haul	144	145	146	147	148	149	150	151	152	153	154	155	156
Location	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SW Kod.	SE Kod.	SE Kod.	Kujulik	Kujulik	Kujulik	Kujulik	Kujulik	Chignik
Month/Day/Year	07-12-22	07-12-22	07-12-22	07-12-22	07-12-22	07-13-22	07-13-22	07-24-22	07-24-22	07-24-22	07-24-22	07-24-22	07-25-22
Station	ALR	ALQ	ALP	ALO	ALL	725	759	4308	4302	4301	4290	4296	4964
Longitude Start (°W)	153.8042	153.8952	153.9572	154.0068	154.0830	153.8322	153.5713	157.6135	157.6767	157.6890	157.8348	157.7740	158.3442
Latitude Start (°N)	57.1282	57.0853	57.0430	56.9887	56.9265	56.6662	56.5502	56.5397	56.5408	56.5670	56.5973	56.6228	56.2247
Heading, Degrees	225	225	217	210	59	61	176	141	118	142	320	151	92
Average Depth (m)	115.2	171.8	155.4	135.3	95.09	100.5	148.1	131.6	102.4	95.09	27.43	64.00	69.49
Distance Fished (km)	1.852	1.852	1.852	1.852	1.666	1.481	1.481	1.852	1.852	1.852	1.018	1.852	1.852
Bottom Temp. (°C)	2.41	2.24	2.22	2.25	3.29	6.68	5.67	5.89	6.43	6.87	9.22	8.43	7.27

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Haul	157	158	159	160	161	162	163	164	165	166	167	168	169
Location	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik
Month/Day/Year	07-25-22	07-25-22	07-25-22	07-25-22	07-25-22	07-25-22	07-25-22	07-26-22	07-26-22	07-26-22	07-26-22	07-26-22	07-26-22
Station	4265	4264	4271	4270	4312	4267	4256	4262	4266	4274	4278	4272	4277
Longitude Start (°W)	158.3068	158.2607	158.2160	158.1827	158.1505	158.1673	158.3065	158.2695	158.2040	158.1422	158.0335	158.1242	158.0573
Latitude Start (°N)	56.1903	56.2350	56.2322	56.2523	56.2543	56.4017	56.4208	56.3477	56.4197	56.4053	56.3920	56.5087	56.4277
Heading, Degrees	43	212	60	68	65	314	275	137	101	103	315	130	168
Average Depth (m)	54.86	76.80	95.09	106.0	126.1	124.3	96.92	74.97	153.6	162.7	192.0	91.43	181.0
Distance Fished (km)	1.852	1.852	1.852	1.852	1.852	1.481	1.018	1.666	1.481	1.481	1.481	1.852	1.481
Bottom Temp. (°C)	7.92	6.98	7.27	7.20	6.77	5.45	5.37	7.22	5.47	5.48	5.50	6.18	5.46
Haul	170	171	172	173	174	175	176	177	178	179	180	181	182
Location	Chignik	Chignik	Kujulik	Chignik	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.
Month/Day/Year	07-26-22	07-26-22	07-27-22	07-27-22	07-27-22	07-27-22	07-27-22	07-28-22	07-28-22	07-28-22	07-28-22	07-28-22	07-28-22
Station	4282	4287	4298	4286	4066B	4066A	4065	4063	4048	4064	4050B	4050A	4049
Longitude Start (°W)	157.9955	157.9333	157.7480	157.9132	158.5563	158.5980	158.5660	158.5827	158.6340	158.5933	158.6650	158.7213	158.7513
Latitude Start (°N)	56.4213	56.4035	56.5347	56.4263	55.8852	55.8693	55.9303	56.1322	56.0648	55.9972	55.8925	55.8955	55.9210
Heading, Degrees	94	63	83	103	173	4	9	227	182	342	181	306	293
Average Depth (m)	199.3	195.6	91.43	164.5	120.6	118.8	104.2	153.6	146.2	155.4	118.8	138.9	146.2
Distance Fished (km)	1.481	1.481	1.852	1.481	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852
Bottom Temp. (°C)	5.43	5.41	6.43	5.48	6.18	6.18	6.17	4.88	4.72	5.52	6.20	6.23	6.24
Haul	183	184	185	186	187	188	189	190	191	192	193	194	195
Location	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Ivanof	Ivanof	Ivanof	Ivanof	Ivanof
Month/Day/Year	07-28-22	07-28-22	07-29-22	07-29-22	07-29-22	07-29-22	07-29-22	07-29-22	07-29-22	07-29-22	07-30-22	07-30-22	07-30-22
Station	4035	4036	4037	4038B	4038A	4026	4025	4024	4915	4007	4000X	4000Y	4008
Longitude Start (°W)	158.8415	158.9318	158.9652	158.9125	158.9638	159.0268	159.0073	159.0688	159.1813	159.3925	159.4872	159.4597	159.4195
Latitude Start (°N)	55.9515	55.8823	55.8210	55.7028	55.7125	55.7182	55.7830	55.8912	55.8607	55.7773	55.8187	55.7730	55.7377
Heading, Degrees	112	198	168	195	209	26	1	130	217	196	154	4	174
Average Depth (m)	140.8	128.0	128.0	148.1	144.4	137.1	122.5	100.5	65.83	89.60	71.31	82.29	100.5
Distance Fished (km)	1.852	1.852	1.852	1.481	1.481	1.481	1.852	1.852	1.852	1.852	1.852	1.852	1.852
Bottom Temp. (°C)	6.20	6.11	6.09	5.46	5.37	5.83	6.14	6.17	7.55	6.00	5.78	6.35	6.03
Haul	196	197	198	199	200	201	202	203	204	205	206	207	208
Location	Stepovak	Stepovak	Stepovak	Stepovak	Beaver	Beaver	Beaver	Beaver	Beaver	Beaver	Beaver	Beaver	Beaver
Month/Day/Year	07-30-22	07-30-22	07-30-22	07-30-22	07-31-22	07-31-22	07-31-22	07-31-22	07-31-22	07-31-22	07-31-22	07-31-22	08-01-22
Station	STD	STA	STB	STE	368A	348	329B	329C	311C	311A	311B	BAF	BAA
Longitude Start (°W)	159.8248	159.8138	159.7600	159.7660	160.1763	160.2962	160.4257	160.4878	160.5025	160.5942	160.5810	160.5530	160.6990
Latitude Start (°N)	55.7537	55.8083	55.8287	55.7907	55.5780	55.5245	55.4648	55.4292	55.4335	55.4518	55.4562	55.4778	55.5390
Heading, Degrees	16	359	182	184	231	62	49	63	275	6	94	343	119
Average Depth (m)	120.6	109.7	107.8	122.5	179.2	201.1	175.5	128.0	133.4	124.3	137.1	82.29	31.08
Distance Fished (km)	1.481	1.481	1.481	1.481	1.852	1.574	1.852	1.852	1.852	1.852	1.852	1.852	1.018
Bottom Temp. (°C)	5.70	6.45	6.51	5.66	4.92	4.87	4.77	5.23	4.95	5.05	4.88	6.73	7.40

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Haul	209	210	211	212	213	214	215	216	217	218	219	220	221
Location	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	08-01-22	08-01-22	08-01-22	08-02-22	08-02-22	08-02-22	08-02-22	08-02-22	08-02-22	08-03-22	08-03-22	08-03-22	08-03-22
Station	BAC	BAD	BAE	301	318	337	335	334	354	373A	353	373B	393
Longitude Start (°W)	160.6153	160.5718	160.5980	160.7353	160.6285	160.4937	160.5012	160.4232	160.3312	160.1262	160.3103	160.0573	159.9812
Latitude Start (°N)	55.5183	55.5092	55.4853	54.8035	54.7918	54.7683	54.9918	55.0280	55.0702	55.1190	55.1015	55.1508	55.2003
Heading, Degrees	180	333	168	124	110	42	58	49	31	319	220	331	332
Average Depth (m)	100.5	93.26	118.8	107.8	107.8	107.8	126.1	149.9	128.0	29.25	140.8	76.80	76.80
Distance Fished (km)	1.852	1.852	1.852	1.481	1.481	1.481	1.481	1.481	1.481	1.203	0.629	1.852	1.296
Bottom Temp. (°C)	5.64	5.88	5.15	5.64	5.62	5.61	5.85	5.82	5.79	7.75	5.79	5.76	6.13
Haul	222	223	224	225	226	227	228	229	230	231	232	233	234
Location	W. Nagai	W. Nagai	Beaver	Beaver	Beaver	Beaver	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof
Month/Day/Year	08-03-22	08-03-22	08-04-22	08-04-22	08-04-22	08-04-22	08-04-22	08-04-22	08-04-22	08-05-22	08-05-22	08-05-22	08-05-22
Station	371	332B	BVC	BVB	BVA	278	245	228	VOD	VOLX	VOPX	VOQ	VOR
Longitude Start (°W)	160.1525	160.3748	160.8890	160.8747	160.9097	160.9447	161.2203	161.2795	161.5487	161.9718	161.9383	161.8213	161.7475
Latitude Start (°N)	55.2783	55.2048	55.4590	55.4998	55.4853	55.3797	55.2698	55.2792	55.3150	55.2137	55.1838	55.1987	55.1973
Heading, Degrees	326	355	255	207	193	2	300	101	72	114	40	96	316
Average Depth (m)	137.1	181.0	82.29	36.57	49.37	107.8	82.29	82.29	107.8	71.31	82.29	91.43	118.8
Distance Fished (km)	1.389	1.481	1.852	1.481	1.481	1.481	1.852	1.852	1.852	1.852	1.852	1.852	1.852
Bottom Temp. (°C)	5.95	5.88	6.65	7.48	6.93	6.06	6.26	6.31	5.09	6.03	5.74	5.33	5.02
Haul	235	236	237	238	239	240	241	242	243	244	245	246	247
Location	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Akutan	Akutan	Akutan	Akutan	Akutan
Month/Day/Year	08-05-22	08-05-22	08-05-22	08-05-22	08-06-22	08-06-22	08-06-22	08-06-22	08-08-22	08-08-22	08-08-22	08-08-22	08-08-22
Station	VON	VOM	VOFB	VOG	PARA	PAU	VOBX	VOA	AKA	AKC	AKD	AKG	AKL
Longitude Start (°W)	161.7640	161.8375	161.8202	161.7770	161.6675	161.6747	161.6130	161.7217	165.7007	165.7120	165.7032	165.7490	165.7433
Latitude Start (°N)	55.2263	55.2312	55.2602	55.2532	55.4088	55.3723	55.3092	55.2935	54.1467	54.1768	54.1900	54.2265	54.2538
Heading, Degrees	59	6	53	106	198	189	259	34	13	16	351	344	355
Average Depth (m)	118.8	87.77	96.92	106.0	104.2	126.1	96.92	113.3	71.31	85.94	85.94	98.75	102.4
Distance Fished (km)	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.481	1.481	1.481	1.481	1.481
Bottom Temp. (°C)	4.99	5.25	5.13	4.98	5.05	4.97	5.13	4.93	6.93	6.46	6.41	6.22	6.44
Haul	248	249	250	251	252	253	254	255	256	257	258	259	260
Location	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Makush.	Makush.	Makush.	Makush.	Makush.	Makush.
Month/Day/Year	08-08-22	08-09-22	08-09-22	08-09-22	08-09-22	08-09-22	08-09-22	08-12-22	08-12-22	08-12-22	08-12-22	08-12-22	08-13-22
Station	KAA	UNC	UNF	UNE	UND	UNG	UNJ	MKK	MKN	MKP	MKF	MKE	MKB
Longitude Start (°W)	166.3293	166.6028	166.5245	166.5027	166.4793	166.4465	166.4970	167.1760	167.1123	167.0617	167.0108	166.9500	166.7832
Latitude Start (°N)	53.9733	53.9175	53.9688	53.9412	53.9427	53.9790	54.0288	53.7272	53.6763	53.6468	53.7397	53.7303	53.6998
Heading, Degrees	20	355	26	355	4	30	184	139	320	305	248	94	302
Average Depth (m)	82.29	137.1	151.7	95.09	78.63	76.80	171.8	118.8	135.3	138.9	195.6	197.5	98.75
Distance Fished (km)	1.296	1.666	1.852	1.203	1.203	1.111	1.481	1.852	1.852	1.852	1.852	1.666	1.852
Bottom Temp. (°C)	7.06	5.64	5.56	5.70	5.93	6.12	5.56	5.33	6.12	6.15	4.98	4.85	5.29

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Haul	261	262	263	264	265	266	267	268	269	270	271	272	273
Location	Makush.	Makush.	Unalaska	Morzhov.	Morzhov.	Morzhov.	Morzhov.	Morzhov.	Morzhov.	Morzhov.	Morzhov.	Morzhov.	Morzhov.
Month/Day/Year	08-13-22	08-13-22	08-13-22	08-15-22	08-15-22	08-15-22	08-15-22	08-15-22	08-15-22	08-15-22	08-15-22	08-16-22	08-16-22
Station	MKC	MKJ	UNI	MORX	MOSX	MOOX	MOK	MOL	MOH	MOF	MOD	MOG	MOI
Longitude Start (°W)	166.8537	167.1158	166.6142	163.1632	163.0988	162.9860	162.9975	162.9558	162.9960	163.0217	163.0418	162.9950	162.9680
Latitude Start (°N)	53.7162	53.7190	54.0272	54.8315	54.8537	54.8503	54.8875	54.9085	54.9385	54.9813	55.0167	54.9912	54.9547
Heading, Degrees	285	107	131	100	46	349	12	355	335	346	1	146	172
Average Depth (m)	175.5	118.8	87.77	93.26	96.92	96.92	98.75	128.0	98.75	82.29	87.77	91.43	104.2
Distance Fished (km)	1.666	1.018	1.296	1.666	1.852	1.852	1.481	1.481	1.852	1.852	1.852	1.481	1.481
Bottom Temp. (°C)	4.60	5.15	6.54	6.31	6.24	6.42	6.24	6.25	6.14	6.24	6.24	6.24	6.27
Haul	274	275	276	277	278	279	280	281	282	283	284	285	286
Location	Morzhov.	Morzhov.	Sanak I.	Sanak I.	Sanak I.	Sanak I.	Sanak I.	Sanak I.	Sanak I.	Cold B.	Cold B.	Cold B.	Cold B.
Month/Day/Year	08-16-22	08-16-22	08-16-22	08-16-22	08-17-22	08-17-22	08-17-22	08-17-22	08-17-22	08-17-22	08-17-22	08-18-22	08-18-22
Station	87AX	87D	113	126	125	137	138A	138C	138B	COOX	COM	COB	COC
Longitude Start (°W)	163.0053	162.9472	162.6763	162.5552	162.5398	162.4288	162.3968	162.3432	162.4087	162.3828	162.4608	162.5958	162.5543
Latitude Start (°N)	54.8153	54.7780	54.5650	54.4835	54.5172	54.5135	54.4893	54.4467	54.4465	55.0012	55.0157	55.2277	55.2270
Heading, Degrees	40	134	160	124	118	134	151	138	296	90	96	155	175
Average Depth (m)	84.12	87.77	133.4	140.8	148.1	146.2	142.6	140.8	146.2	104.2	78.63	51.20	47.54
Distance Fished (km)	1.852	1.852	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	0.926	1.111	1.111
Bottom Temp. (°C)	6.29	5.95	5.23	5.43	5.42	5.47	5.45	5.44	5.41	7.55	7.81	9.40	9.39
Haul	287	288	289	290	291	292	293	294	295	296	297	298	299
Location	Cold B.	Cold B.	Cold B.	Cold B.	Cold B.	Cold B.	Cold B.	Cold B.	Cold B.	Cold B.	Cold B.	Cold B.	Pavlof
Month/Day/Year	08-18-22	08-18-22	08-18-22	08-18-22	08-18-22	08-19-22	08-19-22	08-19-22	08-19-22	08-19-22	08-19-22	08-19-22	08-20-22
Station	COE	COF	COGA	COH	COGB	BEG	157A	156A	BEF	BE BX	BE CX	BEE	VOH
Longitude Start (°W)	162.5447	162.5242	162.4755	162.3987	162.4288	162.1717	162.1230	162.1072	162.1238	162.1492	162.1593	162.1493	161.6763
Latitude Start (°N)	55.1975	55.1612	55.1438	55.1102	55.1160	54.9905	54.9187	54.9657	55.0017	55.1410	55.1140	55.0695	55.2682
Heading, Degrees	167	130	331	294	334	171	165	347	27	203	187	189	56
Average Depth (m)	67.66	91.43	87.77	45.71	54.86	84.12	76.80	87.77	91.43	69.49	78.63	80.46	102.4
Distance Fished (km)	1.203	1.481	1.481	1.203	1.296	1.481	1.481	1.666	1.852	1.296	1.296	1.852	1.852
Bottom Temp. (°C)	9.35	9.35	9.30	9.45	9.43	7.56	7.47	7.30	7.36	7.87	7.62	7.42	5.29
Haul	300	301	302	303	304	305	306	307	308	309	310	311	312
Location	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	Pavlof	W Kod.	W Kod.	W Kod.	W Kod.
Month/Day/Year	08-20-22	08-20-22	08-20-22	08-20-22	08-20-22	08-20-22	08-20-22	08-21-22	08-21-22	09-08-22	09-08-22	09-08-22	09-08-22
Station	VOI	PAV	PARB	PAP	PALX	PAIX	PAEX	PAH	PAOB	KUD	KUF	KUG	KUI
Longitude Start (°W)	161.6060	161.5747	161.5847	161.5733	161.5437	161.5898	161.5252	161.6035	161.6462	153.1602	153.2988	153.4322	153.3860
Latitude Start (°N)	55.2833	55.3540	55.4090	55.4558	55.4987	55.5170	55.5525	55.5140	55.4517	57.9850	58.0258	58.0425	57.9735
Heading, Degrees	67	190	156	236	208	187	78	188	202	266	269	199	284
Average Depth (m)	106.0	96.92	84.12	74.97	54.86	64.00	31.08	53.03	96.92	42.06	142.6	78.63	248.7
Distance Fished (km)	1.852	1.852	1.852	1.203	1.481	1.203	1.018	1.111	1.852	1.111	1.852	1.852	1.852
Bottom Temp. (°C)	5.31	5.64	6.06	6.43	6.71	6.98	8.09	6.82	5.94	8.20	6.75	6.04	6.63

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Haul	313	314	315	316	317	318	319	320	321	322	323	324	325
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.
Month/Day/Year	09-09-22	09-09-22	09-09-22	09-09-22	09-09-22	09-09-22	09-09-22	09-10-22	09-10-22	09-10-22	09-10-22	09-10-22	09-10-22
Station	KUM	KUK	KUJ	KULA	KULB	KUYA	KUYB	KUXB	KUXA	KUU	KUW	KUV	KUT
Longitude Start (°W)	153.1192	153.2480	153.2925	153.2235	153.2067	153.1953	153.2130	153.3792	153.4078	153.4840	153.5193	153.5287	153.5198
Latitude Start (°N)	57.8632	57.9170	57.9352	57.8617	57.8338	57.7888	57.7435	57.7358	57.7690	57.7840	57.6817	57.7403	57.8112
Heading, Degrees	287	294	314	328	0	185	29	352	309	321	351	1	348
Average Depth (m)	69.49	138.9	157.2	106.0	82.29	71.31	25.60	102.4	124.3	155.4	64.00	87.77	179.2
Distance Fished (km)	1.852	1.852	1.852	1.666	1.852	1.018	1.018	1.852	1.481	1.852	1.111	1.481	1.852
Bottom Temp. (°C)	7.26	6.64	6.74	7.08	7.18	8.73	10.3	6.18	6.19	6.04	7.46	6.32	6.00
Haul	326	327	328	329	330	331	332	333	334	335	336	337	338
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.
Month/Day/Year	09-10-22	09-11-22	09-11-22	09-11-22	09-11-22	09-11-22	09-11-22	09-12-22	09-12-22	09-12-22	09-12-22	09-12-22	09-13-22
Station	KUS	KUNX	KUP	KUQ	UYBX	UYEX	UYKX	UYT	UYSS	UYQX	UYMX	UYO	UYHX
Longitude Start (°W)	153.5470	153.3800	153.4512	153.5247	153.9978	153.9475	153.8877	153.7965	153.8175	153.9060	153.8987	153.7960	153.7182
Latitude Start (°N)	57.8737	57.8367	57.8582	57.8860	57.7425	57.6848	57.6005	57.3698	57.4295	57.4875	57.5640	57.5688	57.6620
Heading, Degrees	163	300	288	324	173	174	311	352	169	342	359	318	269
Average Depth (m)	179.2	126.1	160.9	179.2	137.1	192.0	160.9	42.06	71.31	146.2	107.8	82.29	93.26
Distance Fished (km)	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.481	1.852	1.852	1.852	1.852	1.666
Bottom Temp. (°C)	6.04	6.13	6.02	6.03	6.73	6.64	6.96	8.47	8.09	7.27	7.44	8.21	7.74
Haul	339	340	341	342	343	344	345	346	347	348	349	350	351
Location	W Kod.	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	09-13-22	09-13-22	09-13-22	09-13-22	09-13-22	09-14-22	09-14-22	09-14-22	09-14-22	09-14-22	09-14-22	09-14-22	09-15-22
Station	UYFX	224	200	199	223	222	198	173	174	147	120	121	171A
Longitude Start (°W)	153.8597	153.8248	153.7130	153.7778	153.9043	154.0653	153.9147	153.8080	153.6513	153.5477	153.3873	153.2145	154.2582
Latitude Start (°N)	57.6747	58.1257	58.2020	58.2520	58.1917	58.1272	58.2408	58.2962	58.2918	58.3728	58.4618	58.4790	58.3038
Heading, Degrees	280	21	50	237	240	26	35	36	35	49	43	37	73
Average Depth (m)	171.8	195.6	190.1	199.3	204.8	250.5	215.7	197.5	179.2	177.3	186.5	175.5	113.3
Distance Fished (km)	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.666
Bottom Temp. (°C)	7.41	5.35	5.34	5.34	5.36	5.37	5.36	5.35	5.35	5.38	5.40	5.45	8.74

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Haul	352	353	354	355	356	357	358	359	360	361	362	363	364
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
Month/Day/Year	09-15-22	09-15-22	09-15-22	09-15-22	09-15-22	09-16-22	09-16-22	09-16-22	09-16-22	09-16-22	09-16-22	09-16-22	09-16-22
Station	171C	171D	172	145	146	144	117	118	119	90	91	60	61
Longitude Start (°W)	154.2047	154.1020	154.0373	153.7770	153.7002	153.9213	153.8067	153.6097	153.5052	153.5405	153.4088	153.3353	153.2338
Latitude Start (°N)	58.3252	58.3197	58.2847	58.3743	58.3845	58.4373	58.4542	58.4950	58.4827	58.5378	58.5752	58.6348	58.6645
Heading, Degrees	76	107	49	65	39	88	61	41	68	44	46	45	49
Average Depth (m)	102.4	71.31	135.3	197.5	177.3	78.63	91.43	129.8	149.9	120.6	131.6	117.0	155.4
Distance Fished (km)	1.852	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481	1.481
Bottom Temp. (°C)	8.81	9.47	6.78	5.35	5.35	8.26	7.68	6.80	6.23	7.12	6.81	6.73	6.19
Haul	365	366	367	368	369								
Location	N Main	N Main	W Kod.	W Kod.	W Kod.								
Month/Day/Year	09-16-22	09-16-22	09-17-22	09-17-22	09-17-22								
Station	31	2	PMA	MAA	RAA								
Longitude Start (°W)	153.2268	153.2043	152.9517	153.0750	153.2210								
Latitude Start (°N)	58.7120	58.7837	58.3018	58.2167	58.1377								
Heading, Degrees	12	17	324	278	145								
Average Depth (m)	142.6	142.6	128.0	131.6	109.7								
Distance Fished (km)	1.481	1.481	1.666	1.852	1.852								
Bottom Temp. (°C)	6.37	6.44	7.51	7.08	8.16								

Appendix B2.–2022 bottom trawl survey locations, stations, and station areas by district and section.

KODIAK DISTRICT							
Northeast Section				Eastside Section			
Chiniak Gully		Chiniak Bay		Ugak Bay		Barnabas Gully	
Station	km ²	Station	km ²	Station	km ²	Station	km ²
395	85.8	CHA	5.5	UGAA	16.0	486A	25.0
420	83.3	CHB	7.9	UGAC	3.2	486B	29.4
421	83.3	CHE	20.6	UGAD	4.4	510C	21.5
443	83.5	CHF	12.7	UGB	5.8	510D	38.0
444	83.5	CHG	32.8	UGC	17.5	511A	42.0
369X	142.8	CHJ	11.3	UGD	11.0	511B	42.9
Total	562.1	CHK	8.6	UGE	12.7	533A	42.9
Marmot Bay		CHL	14.1	UGF	15.8	533B	42.9
Station	km ²	Total	113.4	UGG	11.0	534BX	20.8
MOEX	36.2			UGI	22.3	534DX	29.0
MOGX	65.9	Kizhuyak Bay		UGJ	21.0	535A	21.1
MOLA	28.0	Station	km ²	UGM	16.8	535B	21.4
MOLB	44.8	KZA	11.7	Total	157.4	535C	21.1
MONX	75.5	KZB	2.7			535D	21.4
MOPA	27.8	KZC	12.3	Kiliuda Bay		559	85.8
MOPB	19.9	KZD	23.7	Station	km ²	560	85.8
MOXA	13.0	KZE	25.8	KLA	20.92	561	85.8
MOXB	29.5	KZF	20.1	KLB	9.261	587	85.8
256	82.1	KZG	21.2	KLC	19.55	588	85.8
257	82.1	KZJ	21.4	KLD	18.18	589	85.8
284	82.4	KZK	21.4	KLE	8.232	619	85.8
285	82.4	KZO	21.4	KLF	15.09	620	85.8
313	85.8	KZR	10.8	KLG	16.46	621	85.8
314	82.5	KZS	3.1	KLH	16.81	654	85.8
255A	64.4	Total	195.7	KLI	21.44	655	85.8
255B	63.9			KLL	21.44	656	85.8
283A	67.9			Total	167.4	695	85.8
283B	64.0					696	85.8
Total	1,098.1					Total	1,619.9
Southeast Section				Southwest Section			
South Sitkalidak Strait		Offshore Twoheaded		Alitak Flats		Alitak Bay	
Station	km ²	Station	km ²	Station	km ²	Station	km ²
THA	15.1	618A	42.9	645B	34.3	ALA	3.1
THCX	19.6	585X	78.8	646A	27.1	ALBX	12.8
THDX	28.6	614	61.2	646B	16.5	ALCA	8.1
THFA	22.3	615	99.5	646C	27.9	ALD	13.0
THG	20.0	651	85.8	646D	37.4	ALF	21.4
THH	20.4	Total	368.1	682B	21.7	ALG	19.9
THI	21.6	Horse's Head		683A	22.2	ALH	16.1
THJ	17.8	Station	km ²	683B	20.9	ALI	16.6
THK	16.5	586	85.8	683D	9.3	ALJ	15.1
THL	9.3	688	85.8	684A	21.7	ALK	9.9
THM	10.6	725	85.8	684B	10.3	ALL	8.2
THN	5.1	726	85.8	684C	8.6	ALM	16.1
Total	206.8	727	85.8	Total	257.9	ALO	16.8
		728	85.8			ALP	18.4
		729	85.8			ALQ	14.4
		759	85.8			ALR	13.4
		760	85.8			Total	223.5
		761	85.8				
		Total	857.5				

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KODIAK DISTRICT (Continued)							
Westside Section							
Uganik Bay		Uyak Bay		Kupreanof-Viekoda		North Mainland Section	
Station	KM ²	Station	KM ²	Station	KM ²	Station	KM ²
KUNX	10.7	UYBX	21.5	KUD	27.1	2	85.6
KUP	13.3	UYEX	29.9	KUF	11.3	3	<i>untowed</i> 85.8
KUQ	20.6	UYFX	22.1	KUG	15.4	31	83.7
KUS	12.1	UYHX	4.1	KUI	6.4	60	85.8
KUT	9.4	UYKX	13.9	KUJ	17.0	61	85.8
KUU	13.7	UYMX	20.8	KUK	14.1	90	80.3
KUV	4.1	UYO	3.4	KULB	2.7	91	85.8
KUW	5.2	UYQX	7.7	KULA	2.1	117	97.8
KUXB	4.1	UYSS	6.0	KUM	10.5	118	85.8
KUXA	5.6	UYT	2.8	KUYA	4.1	119	85.8
Total	98.6	Total	132.1	KUYB	2.6	120	85.8
				Total	113.2	121	85.8
West Afognak						144	60.7
Station	KM ²					145	85.8
MAA	10.5					146	85.8
PMA	15.1					147	85.8
RAA	6.7					171A	11.4
Total	32.3					171C	7.6
						171D	28.6
						172	79.5
						173	85.8
						174	85.8
						198	85.8
						199	85.8
						200	85.8
						222	103.2
						223	85.8
						224	85.8
						Total	2,181.9
CHIGNIK DISTRICT							
Chignik Bay		Ivanof Bay		Kujulik Bay		Mitrofanania Island	
Station	KM ²	Station	KM ²	Station	KM ²	Station	KM ²
4256	22.5	4000X	5.6	4290	21.3	4038A	43.7
4262	21.4	4000Y	15.8	4296	10.3	4038B	43.7
4264	19.7	4900X	<i>untowed</i> 10.4	4298	19.0	4050A	25.9
4265	6.6	4007	37.2	4301	21.4	4050B	42.9
4266	19.6	4008	42.1	4302	18.2	4066A	43.6
4267	21.4	4915	51.0	4308	17.2	4066B	43.6
4270	17.1	Total	162.1	Total	107.3	4024	57.6
4271	10.0					4025	43.7
4272	15.9					4026	43.7
4274	21.4					4035	59.3
4277	21.4					4036	64.9
4278	21.4					4037	43.7
4282	21.4					4048	17.6
4286	21.4					4049	57.2
4287	28.5					4063	34.3
4312	21.9					4064	38.6
4964	9.6					4065	80.0
Total	321.5					Total	783.9

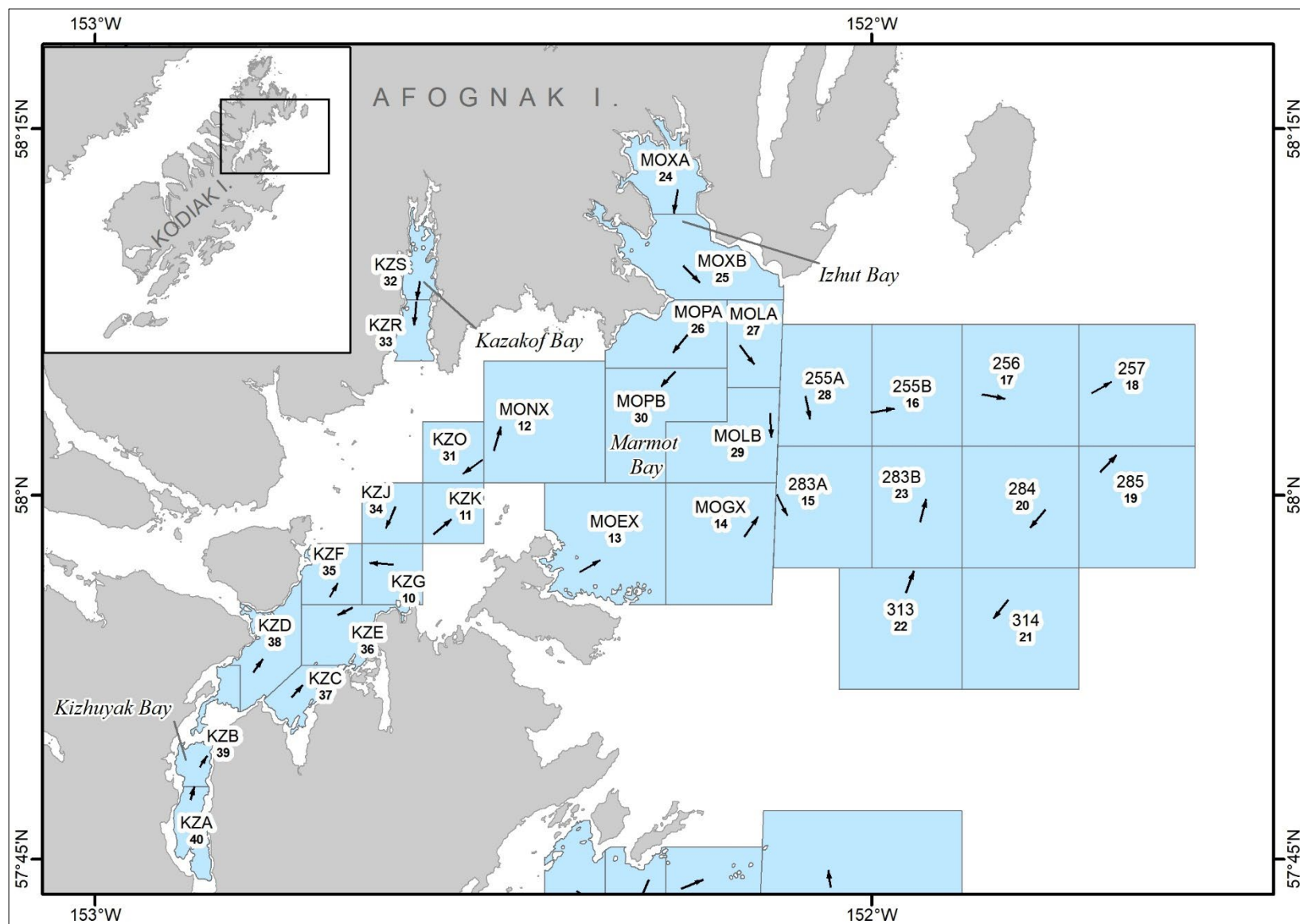
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Appendix B2.–Page 3 of 3.

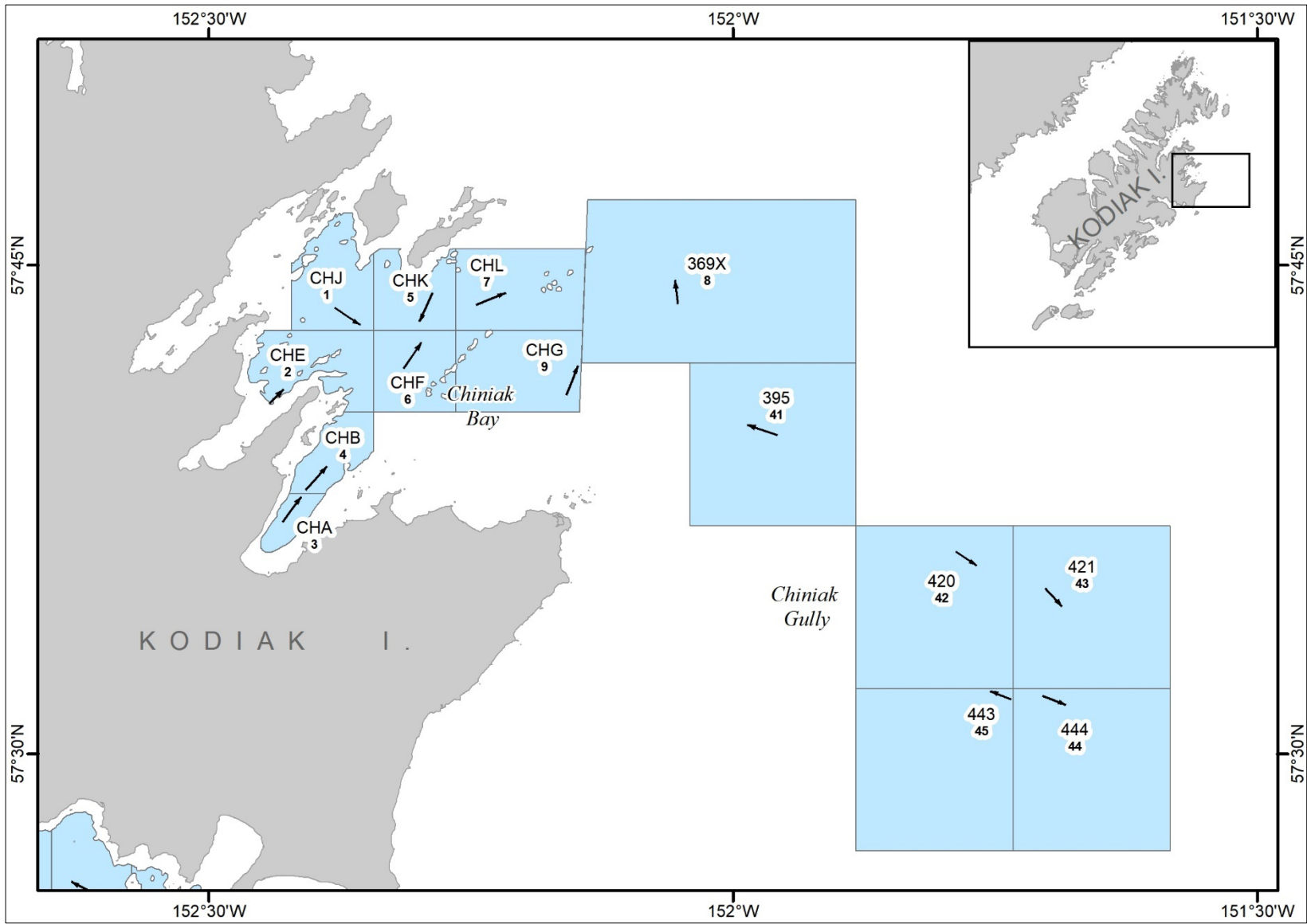
SOUTH PENINSULA DISTRICT							
Pavlof/Volcano Bay		West Nagai Strait		Cold/Belkofski Bay		Morzhovoi Bay	
Station	KM ²	Station	KM ²	Station	KM ²	Station	KM ²
228	12.8	332B	42.9	156A	44.2	87AX	42.9
245	21.0	373A	28.0	157A	21.0	87D	22.3
PAH	14.2	373B	20.5	BEBX	15.1	MOB	<i>untowed</i> 18.5
PAEX	37.5	301	85.8	BECX	25.7	MOD	16.1
PAIX	38.3	318	85.8	BEE	21.4	MOF	20.0
PALX	39.9	334	85.8	BEF	14.5	MOG	17.6
PAOB	19.6	335	85.8	BEG	20.3	MOH	15.1
PAP	20.8	337	85.8	COB	20.8	MOI	16.9
PARA	19.1	353	<i>untowed</i> 86.1	COC	14.2	MOK	21.4
PARB	20.8	354	85.8	COE	20.2	MOL	21.4
PAU	21.4	371	76.0	COF	11.5	MOOX	43.8
PAV	20.6	393	42.0	COGA	9.8	MORX	33.7
VOA	22.1	Total	810.0	COGB	3.6	MOSX	42.7
VOBX	43.5			COH	4.8	Total	332.4
VOD	20.8	Beaver/Balboa/Unga		COM	18.5		
VOFB	15.5	Station	KM ²	COOX	27.7	Sanak Island	
VOG	22.1	278	71.4	Total	293.5	Station	KM ²
VOH	21.7	348	85.8			138A	34.8
VOI	21.2	311A	15.5	Stepovak Bay		138B	18.4
VOLX	17.7	311B	19.4	Station	KM ²	138C	56.9
VOM	27.5	311C	16.2	STA	21.0	113	77.2
VON	22.1	329B	21.4	STB	18.9	125	77.2
VOPX	29.7	329C	21.4	STD	22.4	126	77.8
VOQ	15.9	BAA	12.0	STE	15.5	137	85.8
VOR	21.1	BAC	16.9	Total	77.8	Total	428.0
Total	586.9	BAD	8.3	S PENINSULA DISTRICT TOTALS			
		BAE	12.7			KM ²	
		BAF	9.4	Sanak Island		428.0	
		BVA	13.5	Morzhovoi Bay		332.4	
		BVB	14.0	Cold/Belkofski Bay		293.5	
		BVC	18.9	Pavlof/Volcano Bay		586.9	
		368A	43.9	West Nagai Strait		810.0	
		Total	400.7	Beaver/Balboa/Unga		400.7	
				Stepovak Bay		77.8	
				S Peninsula District		2,929.4	
EASTERN ALEUTIAN DISTRICT							
Unalaska/Kalekta Bay		Makushin Bay Section		Akutan Bay Section			
Section		Station	KM ²	Station	KM ²		
Station	KM ²	Station	KM ²	Station	KM ²		
KAA	19.5	MKB	15.8	AKA	33.2		
UNC	22.6	MKC	18.5	AKC	21.2		
UND	11.7	MKE	29.1	AKD	22.5		
UNE	17.9	MKF	20.9	AKG	21.4		
UNF	21.4	MKJ	22.9	AKL	21.4		
UNG	21.4	MKK	35.7	Total	119.7		
UNI	19.7	MKN	26.2	E ALEUTIAN DISTRICT TOTALS			
UNJ	21.4	MKP	11.1	Section		KM ²	
Total	155.7	Total	180.2	Akutan Bay		119.7	
				Unalaska/Kalekta Bay		155.7	
				Makushin Bay		180.2	
				E Aleutian District		545.1	

APPENDIX C. TRAWL MAPS

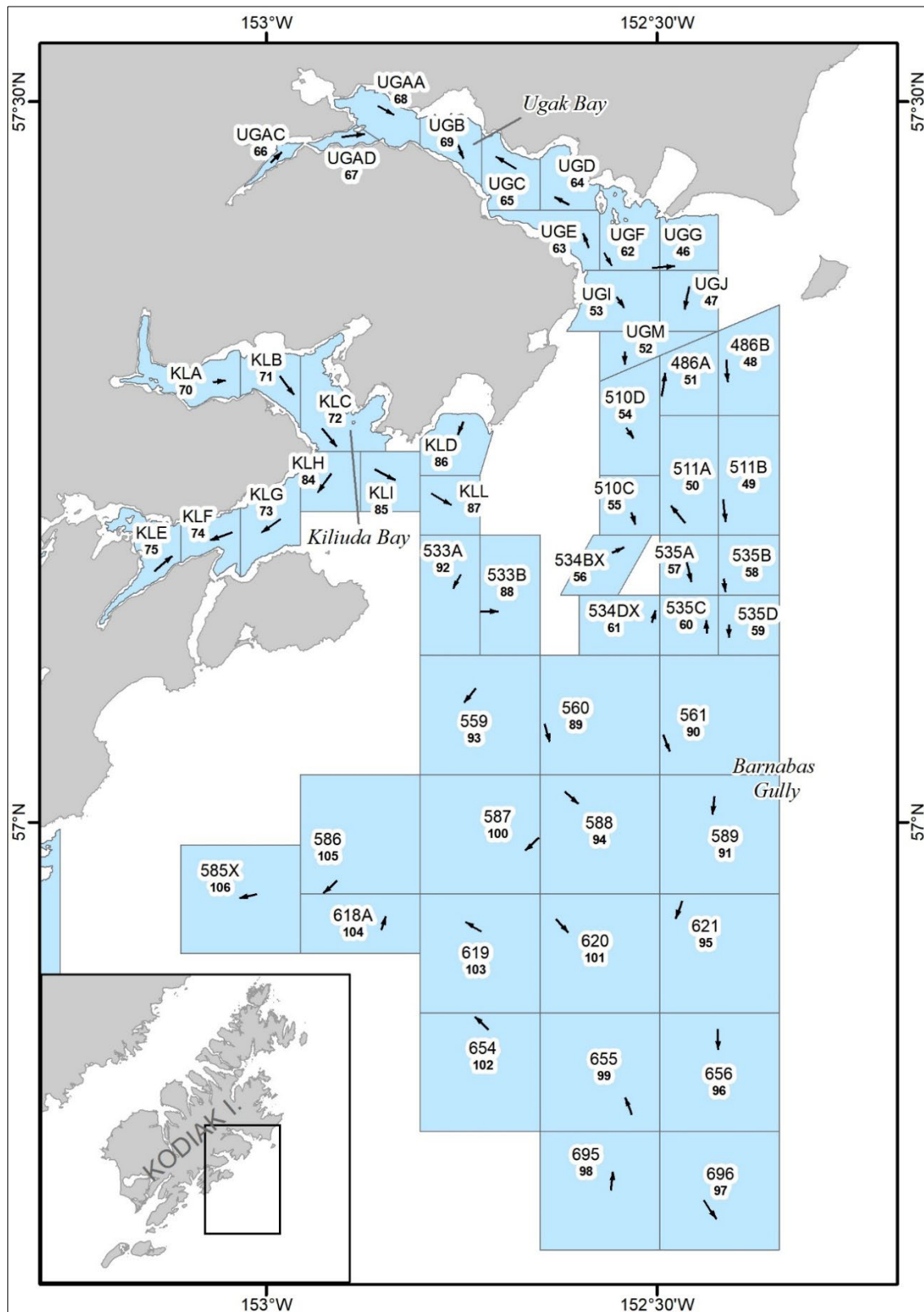
Appendix C1.—Izhut Bay, Kazakof Bay, Kizhuyak Bay, and Marmot Bay station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), June 2022.



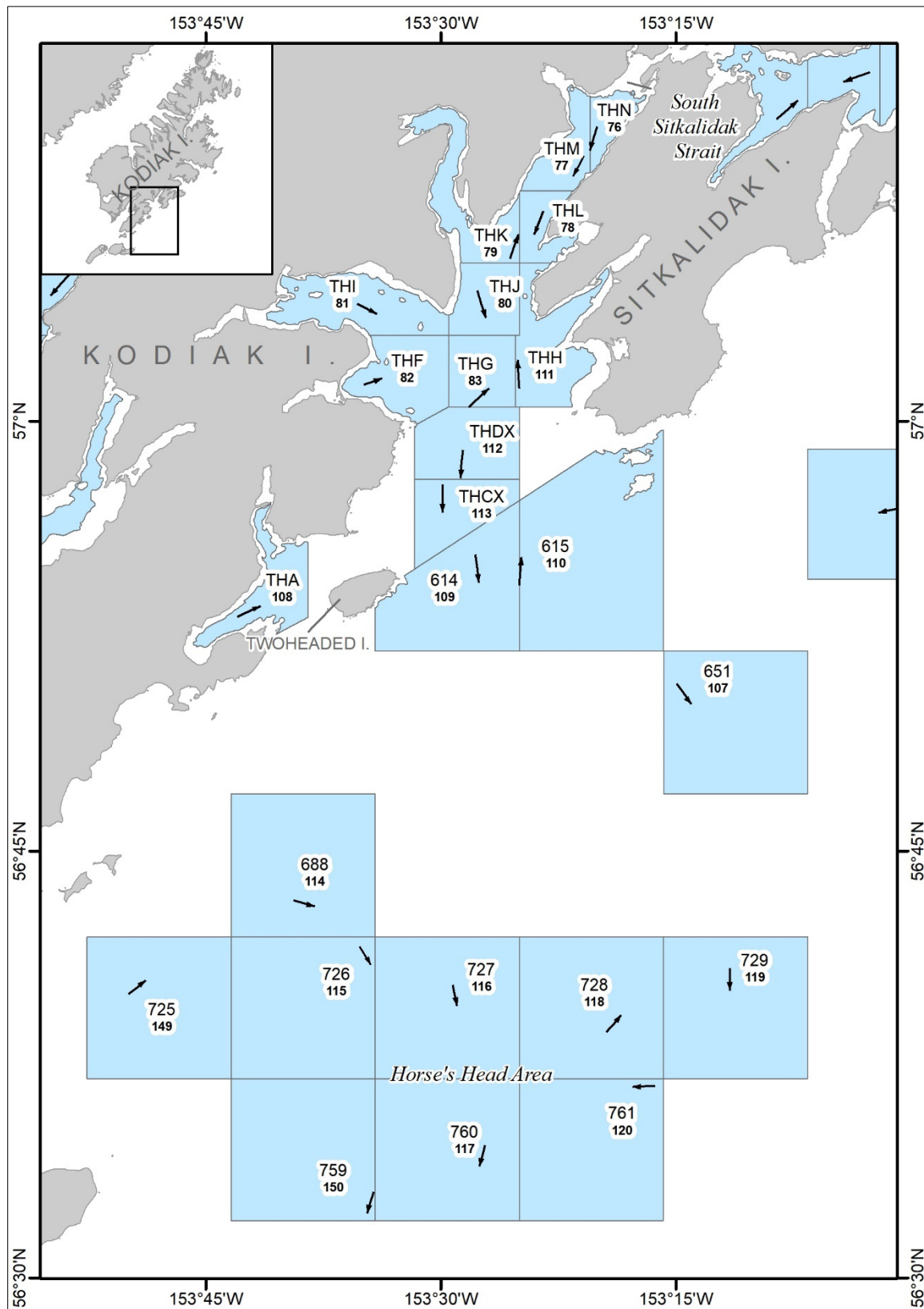
Appendix C2.—Chiniak Bay and Chiniak Gully station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), June 2022.



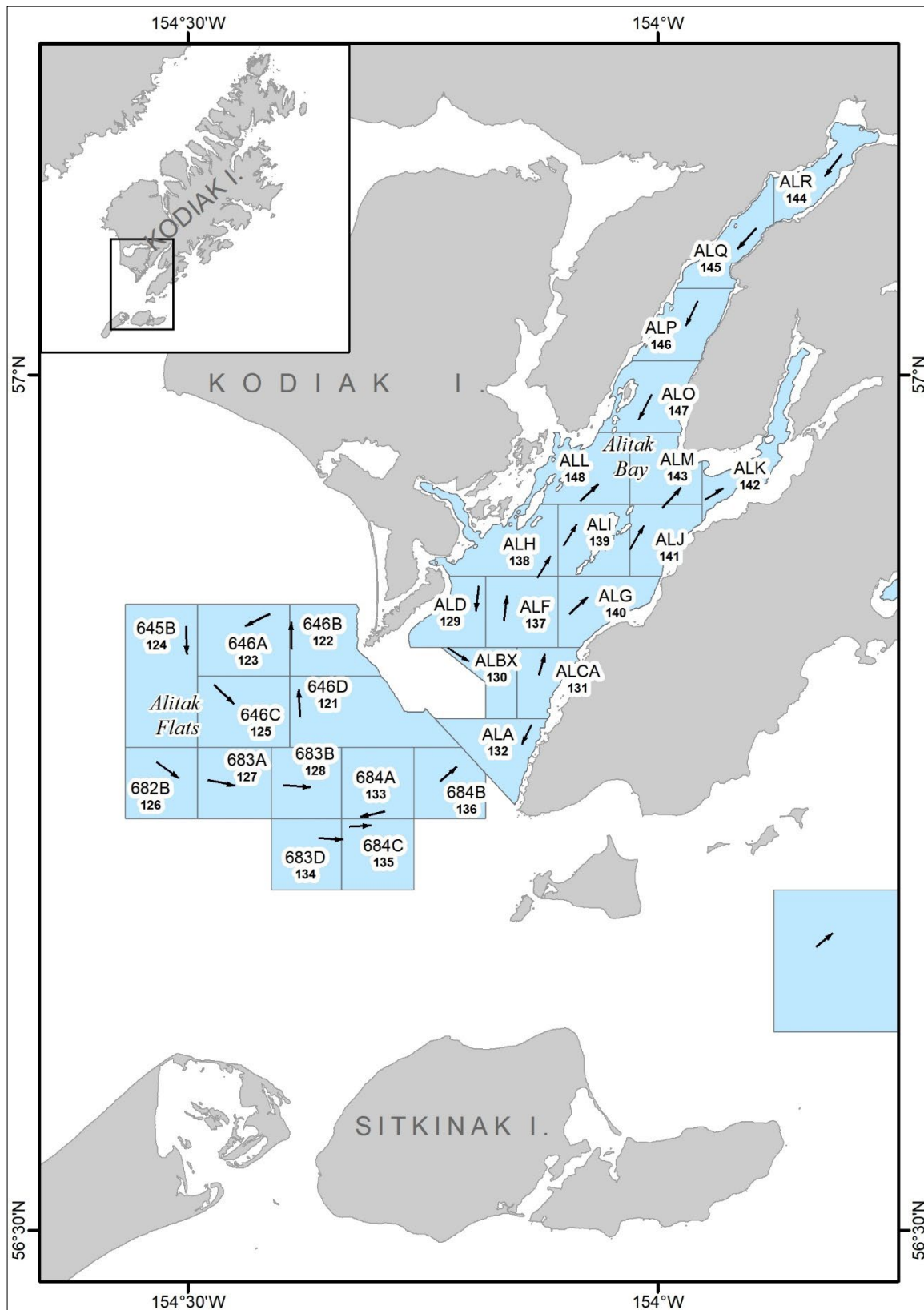
Appendix C3.—Ugak Bay, Kiliuda Bay, and Barnabas Gully station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), June and July 2022.



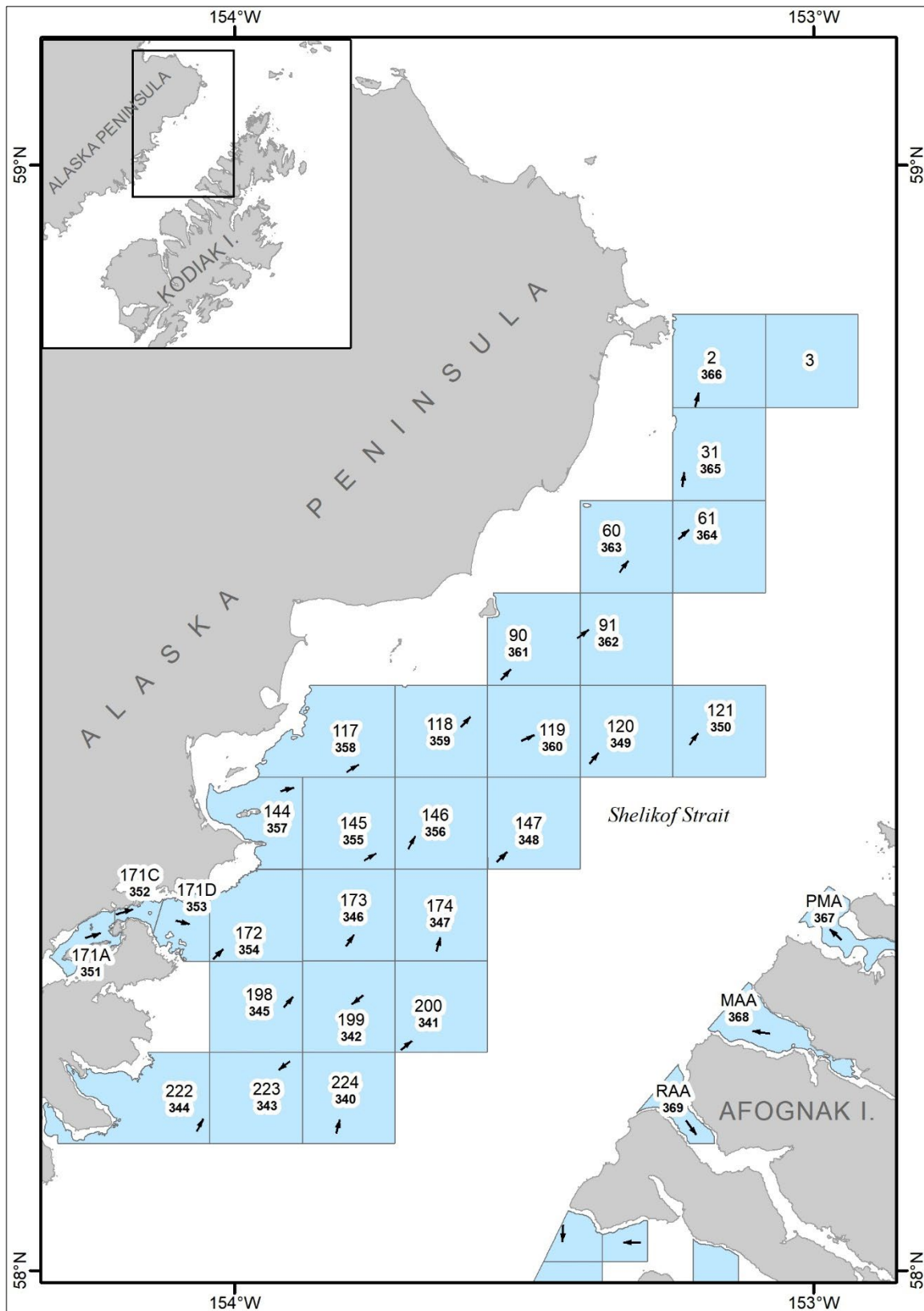
Appendix C4.—South Sitkalidak Strait, Twoheaded Island, and Horse's Head area station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), July 2022.



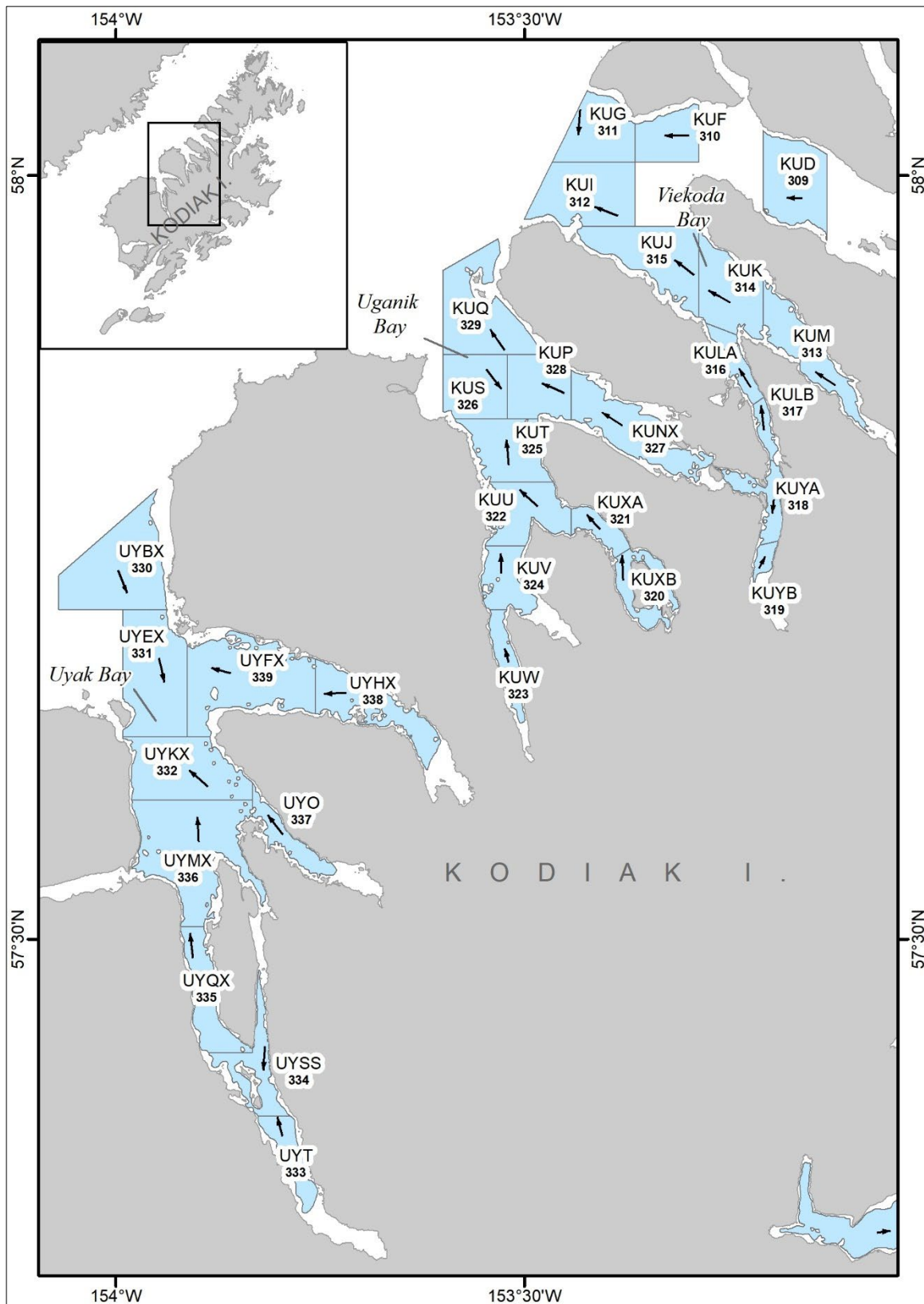
Appendix C5.—Alitak Bay and Alitak Flats station boundaries with station name, trawl haul number (bold), and haul location and direction (arrow), July 2022.



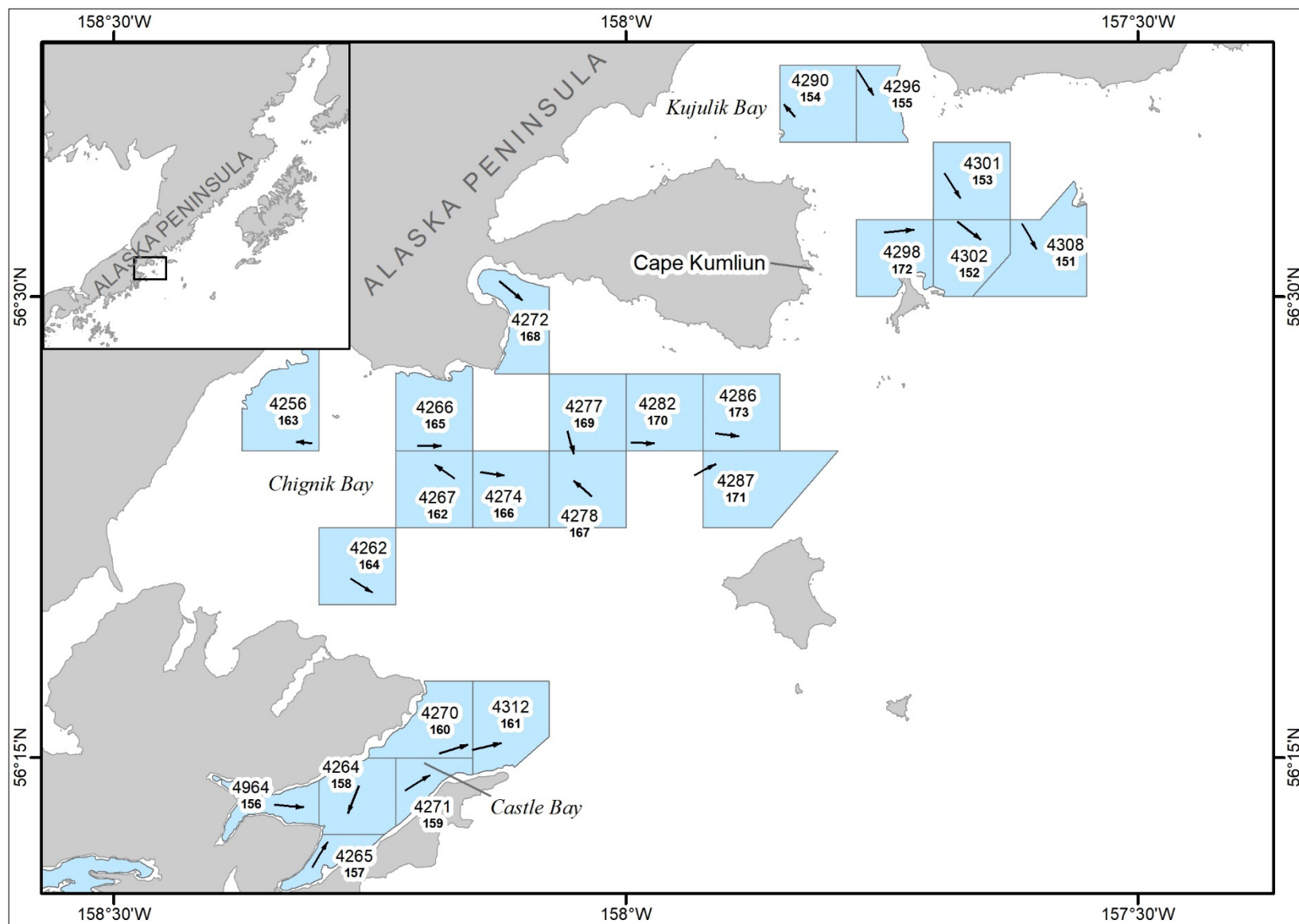
Appendix C6.—Shelikof Strait and Afognak Island station boundaries with station name, trawl haul number (bold), and haul location and direction (arrow), September 2022.



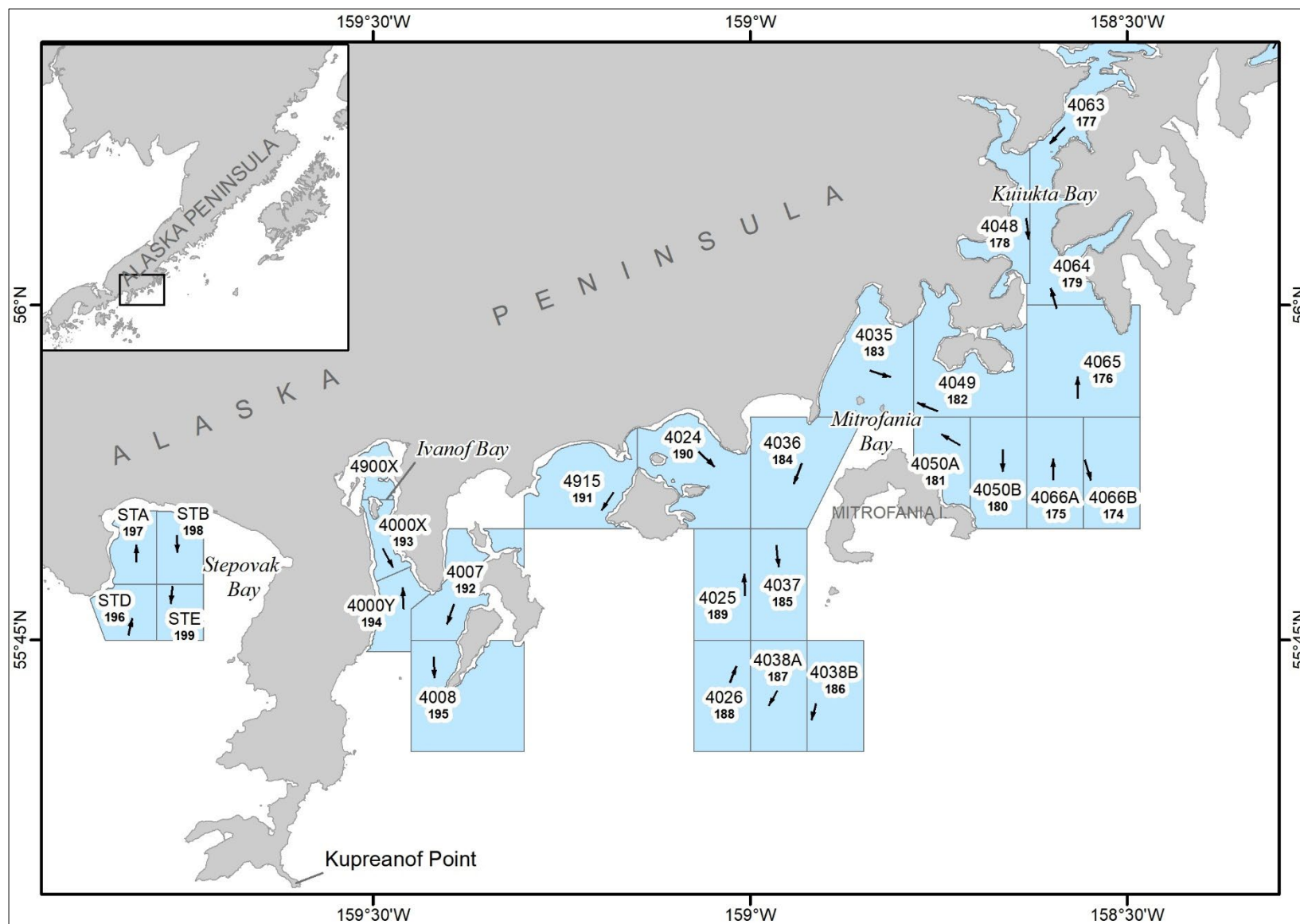
Appendix C7.—Uyak Bay, Uganik Bay, and Vieikoda Bay station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), September 2022.



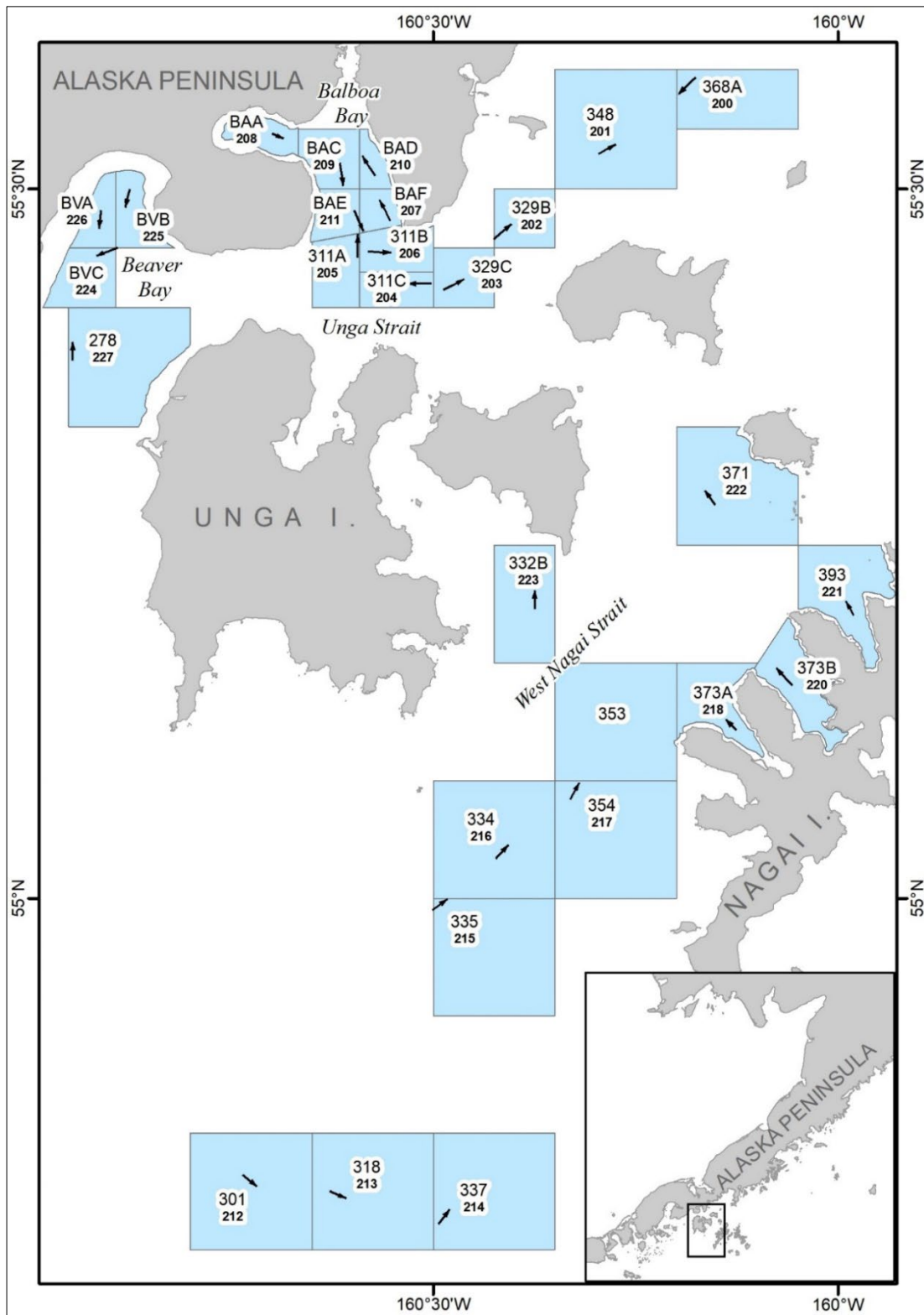
Appendix C8.—Kujulik Bay, Chignik Bay, and Castle Bay station boundaries with station name, trawl haul number (bold), and haul location and direction (arrow), July 2022.



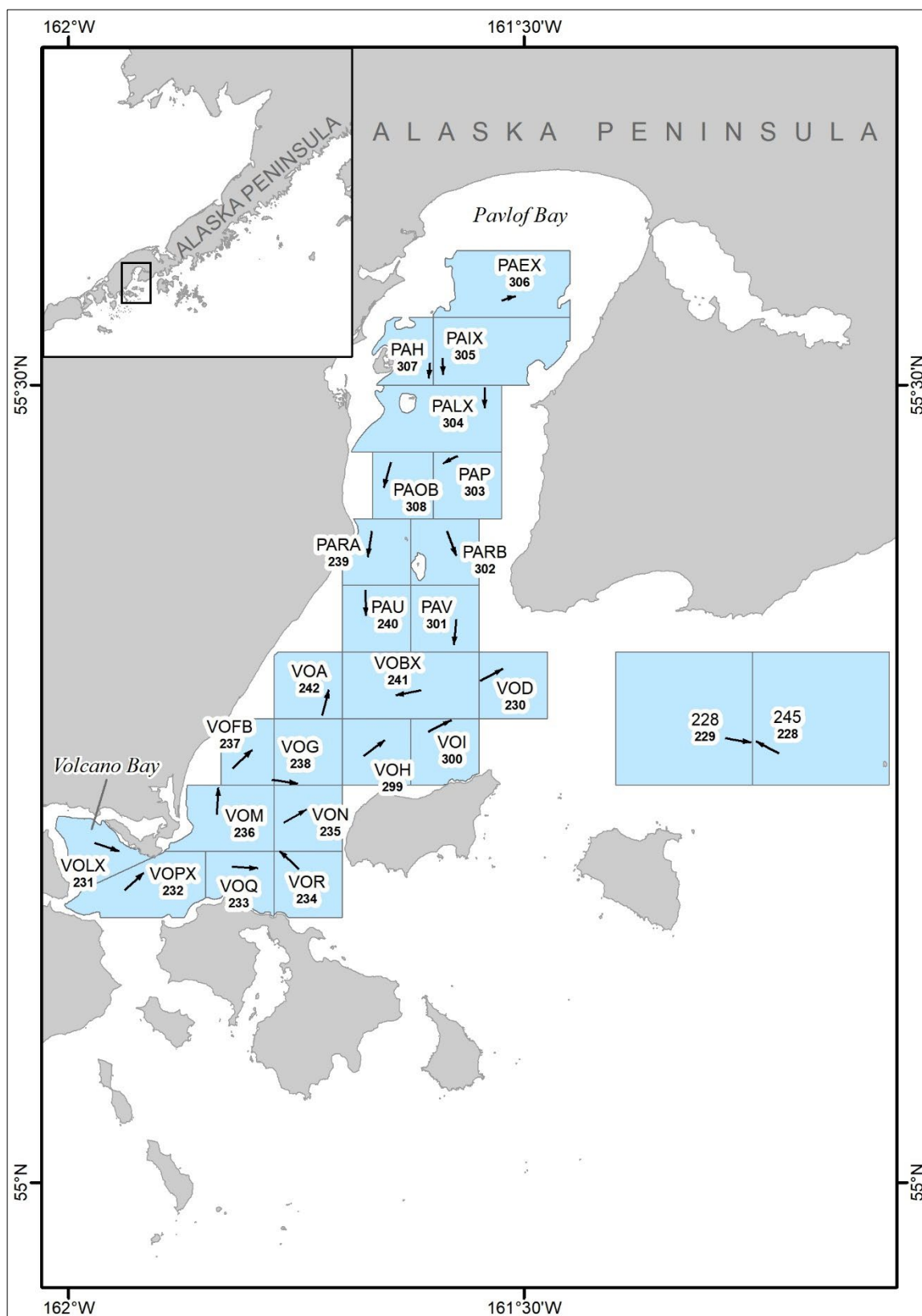
Appendix C9.—Stepovak Bay, Ivanof Bay, Kuiukta Bay, and Mitrofanina Bay station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), July 2022.



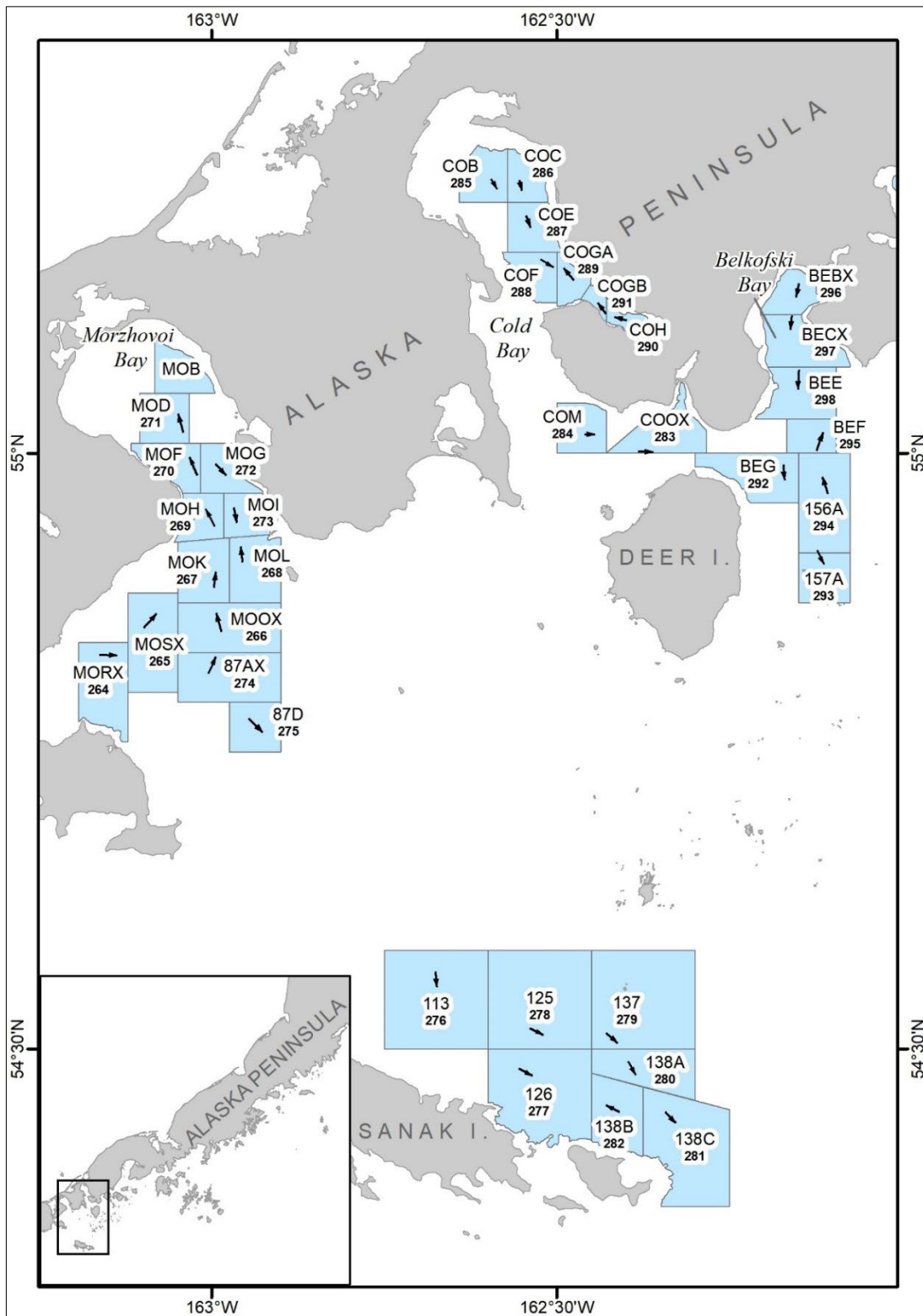
Appendix C10.—Unga Strait, Beaver Bay, Balboa Bay, and West Nagai Strait station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), July and August 2022.



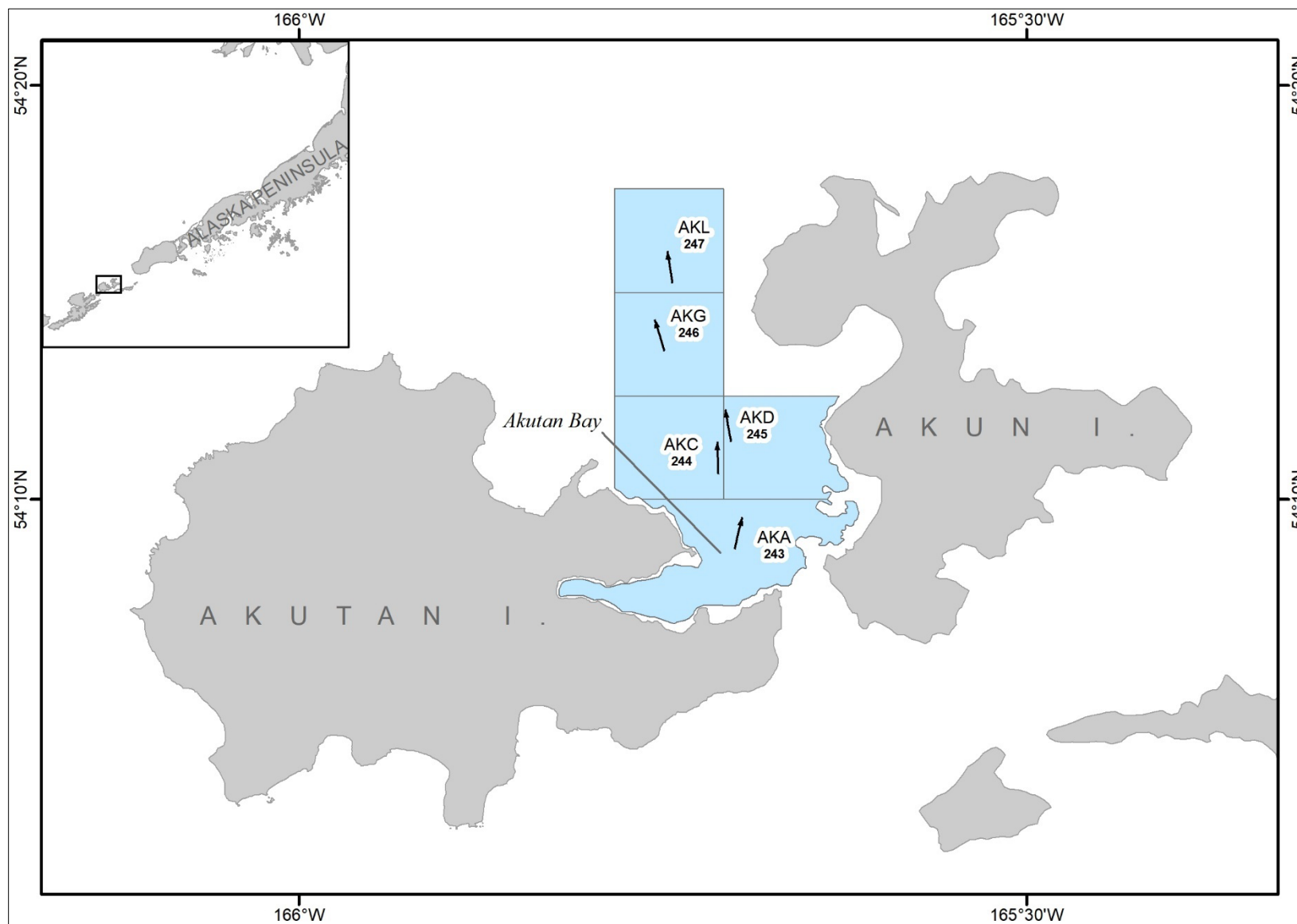
Appendix C11.–Pavlof Bay and Volcano Bay station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), August 2022.



Appendix C12.–Morzhovoi Bay, Cold Bay, Belkofski Bay, Deer Island, and Sanak Island station boundaries with station name, trawl haul number (bold), and haul location and direction (arrow), August 2022.



Appendix C13.—Akutan Bay station boundaries with station name, trawl haul number (**bold**), and haul location and direction (arrow), August 2022.



APPENDIX D. TANNER CRAB ABUNDANCE ESTIMATES BY STATION

Appendix D1.—Tanner crab abundance estimates in the Kodiak District by station and section, 2022.

	Haul	Females			Number sublegal males by size (CW)				Recruit	Postrecruit	Mature	Legal	Total	Total
Station	no.	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm	males	males	males	males	males	crab
Northeast Section														
369X	8	0	8,433	8,433	0	0	8,433	8,433	0	0	8,433	0	16,867	25,300
395	41	7,595	0	7,595	3,798	0	3,798	0	0	0	0	0	7,595	15,190
420	42	27,661	0	27,661	27,661	9,220	0	9,220	0	0	9,220	0	46,102	73,763
421	43	0	0	0	0	0	4,610	4,610	0	0	4,610	0	9,220	9,220
443	45	9,859	4,930	14,789	9,859	4,930	0	4,930	0	0	4,930	0	19,719	34,508
444	44	9,243	0	9,243	0	0	0	4,622	0	0	4,622	0	4,622	13,865
CHA	3	0	0	0	729	0	0	0	0	0	0	0	729	729
CHB	4	349	0	349	349	0	0	0	0	0	0	0	349	699
CHE	2	0	0	0	0	0	0	0	0	0	0	0	0	0
CHF	6	8,430	19,671	28,102	10,117	562	1,124	2,810	0	1,124	3,934	1,124	15,737	43,838
CHG	9	0	1,451	1,451	1,451	1,451	4,352	14,506	0	4,352	18,858	4,352	26,112	27,562
CHJ	1	0	0	0	501	0	0	0	0	0	0	0	501	501
CHK	5	1,519	9,114	10,633	3,038	1,519	1,899	13,291	380	380	14,051	760	20,507	31,140
CHL	7	6,851	71,621	78,472	6,019	752	17,304	65,453	0	4,514	69,967	4,514	94,041	172,513
KZA	40	861	0	861	0	0	0	0	0	0	0	0	0	861
KZB	39	0	203	203	203	0	0	0	0	0	0	0	203	405
KZC	37	781	0	781	0	0	0	0	0	0	0	0	0	781
KZD	38	0	0	0	1,497	0	0	0	0	0	0	0	1,497	1,497
KZE	36	0	0	0	1,632	0	0	0	0	0	0	0	1,632	1,632
KZF	35	0	0	0	0	0	0	0	0	0	0	0	0	0
KZG	10	4,701	0	4,701	13,164	0	0	0	0	0	0	0	13,164	17,865
KZJ	34	4,747	0	4,747	24,684	0	0	0	0	0	0	0	24,684	29,431
KZK	11	70,254	1,899	72,153	48,418	1,899	0	0	0	0	0	0	50,317	122,469
KZO	31	58,861	16,139	75,001	69,304	0	1,899	3,798	949	949	5,696	1,899	76,899	151,900
255A	28	14,263	8,558	22,821	22,821	0	8,558	45,643	0	8,558	54,201	8,558	85,580	108,402
255B	16	0	11,320	11,320	0	0	28,299	59,428	0	11,320	70,748	11,320	99,046	110,366
256	17	0	0	0	0	0	0	0	0	0	0	0	0	0
257	18	7,276	0	7,276	10,914	0	3,638	0	0	0	0	0	14,552	21,828
283A	15	156,396	51,130	207,526	90,229	0	15,038	78,198	0	39,099	117,297	39,099	222,564	430,090
283B	23	11,344	14,180	25,524	17,016	0	2,836	5,672	0	0	5,672	0	25,524	51,048
284	20	0	0	0	0	0	0	0	0	0	0	0	0	0
285	19	0	0	0	0	0	0	0	0	0	0	0	0	0
313	22	79,748	3,798	83,545	53,165	7,595	3,798	3,798	0	0	3,798	0	68,355	151,900

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Appendix D1.–Page 2 of 7.

Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
		Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
314	21	0	0	0	0	0	0	0	0	0	0	0	0	0
KZR	33	23,848	45,312	69,160	28,141	12,878	8,585	8,108	1,431	0	9,539	1,431	59,144	128,304
KZS	32	2,905	11,449	14,355	3,076	1,538	1,880	1,196	0	513	1,709	513	8,203	22,557
MOEX	13	4,812	1,604	6,416	12,833	0	1,604	0	0	0	0	0	14,437	20,853
MOGX	14	119,576	23,332	142,908	148,740	2,916	2,916	5,833	2,916	0	8,749	2,916	163,323	306,230
MOLA	27	58,328	2,482	60,810	69,497	0	0	0	0	0	0	0	69,497	130,307
MOLB	29	75,327	33,699	109,026	95,150	0	3,965	0	0	0	0	0	99,115	208,141
MONX	12	120,305	193,824	314,129	157,065	23,393	80,203	50,127	0	3,342	53,469	3,342	314,129	628,258
MOPA	26	55,368	0	55,368	87,358	1,230	0	0	0	0	0	0	88,588	143,956
MOPB	30	3,916	0	3,916	6,852	0	0	0	0	0	0	0	6,852	10,768
MOXA	24	7,504	0	7,504	9,236	0	0	0	0	0	0	0	9,236	16,739
MOXB	25	33,965	0	33,965	52,254	0	0	1,306	0	0	1,306	0	53,560	87,525
all stations towed														
Total		986,593	534,149	1,520,744	1,086,771	69,883	204,739	390,982	5,676	74,151	470,809	79,828	1,832,202	3,352,941
Eastside Section														
UGAA	68	0	4,434	4,434	0	0	7,530	564,765	881,033	0	1,445,798	881,033	1,453,328	1,457,762
UGAC	66	0	0	0	217	0	435	1,304	435	0	1,739	435	2,391	2,391
UGAD	67	0	0	0	0	0	13,024	137,682	36,281	930	174,893	37,211	187,917	187,917
UGB	69	1,589	397	1,986	1,192	0	2,384	21,850	49,660	397	71,907	50,057	75,483	77,469
UGC	65	2,324	0	2,324	4,648	775	775	6,198	13,944	0	20,142	13,944	26,339	28,664
UGD	64	1,389	0	1,389	8,333	0	4,861	18,054	14,582	0	32,636	14,582	45,830	47,219
UGE	63	865	54,474	55,338	0	0	28,203	146,141	82,044	1,282	229,467	83,326	257,669	313,007
UGF	62	3,225	0	3,225	2,150	0	1,075	11,825	72,024	1,075	84,924	73,099	88,149	91,374
UGG	46	0	0	0	0	0	0	1,002	2,506	0	3,508	2,506	3,508	3,508
UGI	53	0	1,763	1,763	0	0	4,998	244,925	739,772	9,996	994,693	749,769	999,692	1,001,455
UGJ	47	0	928	928	0	0	1,856	17,634	60,327	0	77,961	60,327	79,817	80,745
UGM	52	0	2,251,876	2,251,876	0	0	56,838	972,565	88,415	132,623	1,193,603	221,038	1,250,441	3,502,317
KLA	70	1,685	0	1,685	5,054	0	0	0	6,739	0	6,739	6,739	11,793	13,478
KLB	71	2,871	10,253	13,124	410	1,641	8,203	15,995	6,152	3,281	25,428	9,433	35,681	48,805
KLC	72	866	9,524	10,390	0	0	25,144	322,678	2,095	69,145	393,918	71,240	419,062	429,452
KLD	86	0	0	0	0	0	0	0	0	0	0	0	0	0
KLE	75	1,823	0	1,823	2,916	0	2,552	729	0	0	729	0	6,198	8,020
KLF	74	8,689	668	9,357	2,673	0	3,342	4,679	0	668	5,347	668	11,362	20,719

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Appendix D1.–Page 3 of 7.

Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
		Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
KLG	73	1,458	5,833	7,291	2,187	5,833	24,790	73,641	39,372	1,458	114,471	40,831	147,282	154,573
KLH	84	2,233	744	2,977	744	0	744	3,722	744	744	5,210	1,489	6,699	9,676
KLI	85	2,848	0	2,848	1,899	0	0	0	0	0	0	0	1,899	4,747
KLL	87	1,899	0	1,899	1,899	0	4,747	17,089	43,671	949	61,709	44,621	68,355	70,254
486A	51	0	5,418,268	5,418,268	0	25,575	115,087	1,496,126	767,244	140,661	2,404,031	907,905	2,544,693	7,962,961
486B	48	0	0	0	0	0	0	0	0	0	0	0	0	0
510C	55	0	0	0	0	0	0	12,122	15,585	0	27,707	15,585	27,707	27,707
510D	54	0	0	0	0	0	58,072	2,148,655	1,471,151	193,573	3,813,379	1,664,724	3,871,450	3,871,450
511A	50	0	2,068	2,068	0	0	34,847	534,316	540,123	46,462	1,120,901	586,586	1,155,748	1,157,816
511B	49	0	5,696	5,696	1,899	0	7,595	26,583	0	0	26,583	0	36,076	41,773
533A	92	0	2,713	2,713	2,713	0	0	189,875	276,675	2,713	469,263	279,388	471,975	474,688
533B	88	0	2,373	2,373	2,373	0	14,241	116,298	149,527	16,614	282,439	166,141	299,053	301,427
534BX	56	0	0	0	0	0	1,676	65,381	170,995	0	236,376	170,995	238,052	238,052
534DX	61	0	144,863	144,863	0	0	18,692	231,313	144,863	11,682	387,858	156,545	406,551	551,414
535A	57	0	620,223	620,223	0	10,293	51,466	658,767	926,392	51,466	1,636,625	977,858	1,698,385	2,318,608
535B	58	0	324,514	324,514	0	10,998	102,645	458,238	157,634	10,998	626,870	168,632	740,513	1,065,026
535C	60	0	286,583	286,583	0	3,493	0	195,594	478,507	24,450	698,551	502,956	702,043	988,626
535D	59	0	783,666	783,666	0	5,994	44,957	395,620	113,891	41,960	551,471	155,850	602,422	1,386,087
559	93	23,734	721,525	745,259	9,494	33,228	123,419	550,638	75,950	80,697	707,285	156,647	873,425	1,618,684
560	89	33,228	0	33,228	4,747	0	9,494	90,191	9,494	4,747	104,432	14,241	118,672	151,900
561	90	4,747	631,334	636,081	0	14,241	80,697	441,459	237,344	56,963	735,766	294,306	830,703	1,466,784
587	100	208,863	0	208,863	227,850	4,747	52,216	327,534	0	9,494	337,028	9,494	621,841	830,703
588	94	9,494	0	9,494	9,494	0	80,697	294,306	71,203	14,241	379,750	85,444	469,941	479,434
589	91	0	1,628,178	1,628,178	0	15,416	215,818	901,812	246,650	177,279	1,325,741	423,929	1,556,975	3,185,153
619	103	80,697	132,913	213,609	61,709	0	61,709	280,066	4,747	4,747	289,560	9,494	412,978	626,588
620	101	659,450	973,475	1,632,925	121,916	0	134,749	891,912	83,416	44,916	1,020,244	128,333	1,276,909	2,909,834
621	95	0	71,203	71,203	8,337	0	116,712	1,217,137	216,750	116,712	1,550,599	333,462	1,675,647	1,746,850
654	102	0	0	0	4,747	0	23,734	52,216	4,747	0	56,963	4,747	85,444	85,444
655	99	23,734	460,447	484,181	56,963	4,747	61,709	479,434	4,747	52,216	536,397	56,963	659,816	1,143,997
656	96	8,439	464,139	472,578	12,658	8,439	67,511	341,775	198,314	12,658	552,747	210,972	641,356	1,113,933
695	98	47,469	47,469	94,938	42,722	18,988	113,925	294,306	0	9,494	303,800	9,494	479,434	574,372
696	97	18,988	3,798	22,785	21,114	0	100,292	897,349	0	36,950	934,299	36,950	1,055,705	1,078,490
all stations towed														
Total		1,152,607	15,066,342	16,218,946	623,058	164,408	1,883,461	16,171,501	8,505,745	1,384,241	26,061,487	9,889,989	28,732,409	44,951,353

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	Haul	Females			Number sublegal males by size (CW)				Recruit	Postrecruit	Mature	Legal	Total	Total
Station	no.	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm	males	males	males	males	males	crab
Southeast Section														
614	109	16,259	466,102	482,361	0	0	106,065	675,469	61,406	273,537	1,010,412	334,943	1,116,477	1,598,839
THA	108	4,456	743	5,198	2,864	1,910	15,277	132,717	39,147	1,910	173,774	41,056	193,824	199,023
THCX	113	5,195	116,021	121,216	6,927	1,732	13,853	98,705	10,390	32,036	141,131	42,426	163,642	284,858
THDX	112	21,511	222,698	244,208	4,021	1,340	22,788	148,795	73,727	20,107	242,629	93,835	270,780	514,988
THF	82	12,695	156,566	169,260	4,739	0	25,276	151,657	115,322	18,957	285,936	134,280	315,952	485,212
THG	83	9,725	12,377	22,101	9,725	0	5,304	15,913	5,304	0	21,217	5,304	36,246	58,348
THH	111	2,707	1,805	4,511	1,904	0	4,760	30,461	151,354	1,904	183,719	153,258	190,382	194,894
THI	81	21,532	0	21,532	14,355	10,766	4,785	45,456	29,905	0	75,361	29,905	105,267	126,799
THJ	80	7,109	20,537	27,646	6,319	0	3,791	46,761	195,890	0	242,651	195,890	252,762	280,407
THK	79	40,507	0	40,507	35,646	0	810	18,633	15,393	1,620	35,646	17,013	72,102	112,609
THL	78	2,734	0	2,734	1,105	0	2,210	64,094	153,605	0	217,699	153,605	221,015	223,749
THM	77	4,709	589	5,298	8,241	0	2,354	44,735	60,627	0	105,362	60,627	115,957	121,254
THN	76	2,785	0	2,785	3,661	0	305	12,813	43,929	305	57,047	44,235	61,013	63,798
585X	106	0	87,267	87,267	0	17,453	78,540	157,080	0	4,363	161,443	4,363	257,436	344,703
586	105	4,747	23,734	28,481	9,494	0	52,216	617,094	0	61,709	678,803	61,709	740,513	768,994
615	110	48,456	145,368	193,824	49,406	6,176	104,988	679,336	240,855	179,098	1,099,289	419,953	1,259,859	1,453,683
618A	104	3,165	15,823	18,987	3,165	0	22,152	113,925	0	28,481	142,406	28,481	167,723	186,710
651	107	143,461	607,600	751,061	138,820	14,874	104,115	614,773	0	118,988	733,761	118,988	991,569	1,742,631
688	114	71,203	66,456	137,659	52,216	37,975	185,128	341,775	0	4,747	346,522	4,747	621,841	759,500
725	149	0	9,494	9,494	4,747	0	23,734	14,241	0	0	14,241	0	42,722	52,216
726	115	113,925	42,722	156,647	61,709	56,963	47,469	80,697	0	0	80,697	0	246,838	403,484
727	116	745,189	474,758	1,219,947	725,133	127,216	69,969	305,319	0	44,526	349,845	44,526	1,272,163	2,492,109
728	118	90,191	80,697	170,888	94,938	0	28,481	256,331	0	85,444	341,775	85,444	465,194	636,081
729	119	503,169	113,925	617,094	442,512	117,292	111,961	319,888	85,303	5,331	410,522	90,635	1,082,287	1,699,381
759	150	166,141	71,203	237,344	180,381	18,988	28,481	218,356	0	14,241	232,597	14,241	460,447	697,791
760	117	161,394	631,334	792,728	80,697	80,697	180,381	242,091	0	71,203	313,294	71,203	655,069	1,447,797
761	120	161,394	422,472	583,866	99,684	14,241	80,697	113,925	4,747	4,747	123,419	9,494	318,041	901,906
all stations towed														
Total		2,364,359	3,790,291	6,154,644	2,042,409	507,623	1,325,890	5,561,040	1,286,904	973,254	7,821,198	2,260,161	11,697,121	17,851,764
Southwest Section														
ALA	132	0	0	0	0	0	0	8,384	53,661	670	62,715	54,331	62,716	62,716
ALBX	130	0	0	0	0	0	0	25,045	124,389	4,174	153,608	128,563	153,608	153,608

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Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
		Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
ALCA	131	0	5,400	5,400	0	0	17,782	185,440	261,648	43,184	490,272	304,833	508,054	513,454
ALD	129	5,772	53,874	59,646	3,992	1,331	2,662	122,435	122,435	13,308	258,178	135,743	266,163	325,809
ALF	137	4,914	293,612	298,526	1,195	2,390	22,708	87,247	113,540	15,537	216,324	129,078	242,618	541,144
ALG	140	2,937	23,494	26,431	2,937	979	8,810	87,123	58,735	1,958	147,816	60,692	160,541	186,972
ALH	138	8,726	28,557	37,283	4,941	1,235	9,882	116,115	108,704	7,412	232,231	116,115	248,289	285,572
ALI	139	2,456	0	2,456	4,976	0	7,464	258,749	221,430	12,440	492,619	233,870	505,059	507,515
ALJ	141	8,689	0	8,689	6,762	1,127	3,381	135,245	83,401	0	218,646	83,401	229,916	238,605
ALK	142	551	0	551	1,101	1,652	4,405	47,355	36,342	0	83,697	36,342	90,855	91,406
ALL	148	2,430	0	2,430	5,039	1,440	2,160	65,511	67,670	3,599	136,780	71,270	145,419	147,849
ALM	143	4,998	0	4,998	7,065	2,019	4,037	109,010	80,748	2,019	191,777	82,767	204,898	209,895
ALO	147	0	1,489	1,489	0	0	0	135,309	169,525	7,776	312,610	177,301	312,610	314,099
ALP	146	816	0	816	1,150	0	3,450	89,711	135,717	0	225,428	135,717	230,028	230,844
ALQ	145	0	2,552	2,552	0	0	12,281	167,023	309,484	2,456	478,963	311,940	491,245	493,797
ALR	144	0	31,398	31,398	0	3,751	11,253	166,918	200,677	1,875	369,470	202,552	384,474	415,872
645B	124	15,190	80,507	95,697	9,114	3,038	54,684	112,406	3,038	10,633	126,077	13,671	192,913	288,610
646A	123	9,600	1,200	10,800	6,000	1,200	1,200	1,200	0	0	1,200	0	9,600	20,400
646B	122	2,187	0	2,187	3,646	0	0	0	0	0	0	0	3,646	5,833
646C	125	6,175	39,518	45,693	6,175	0	32,109	107,440	7,410	48,163	163,013	55,573	201,296	246,989
646D	121	4,967	1,656	6,623	1,656	0	4,967	4,967	0	0	4,967	0	11,590	18,213
682B	126	963	10,594	11,557	10,498	0	32,993	185,959	10,498	61,487	257,944	71,984	301,433	312,990
683A	127	2,953	0	2,953	3,937	984	5,906	52,169	26,576	12,796	91,541	39,372	102,368	105,321
683B	128	7,413	0	7,413	1,853	0	2,780	16,679	56,522	6,487	79,688	63,008	84,320	91,732
683D	134	1,823	911	2,734	0	606	9,697	75,760	23,031	12,122	110,913	35,153	121,216	123,950
684A	133	1,070	0	1,070	0	0	0	3,210	33,172	1,070	37,452	34,242	37,452	38,522
684B	136	0	0	0	0	0	0	7,405	100,824	1,709	109,938	102,533	109,938	109,938
684C	135	0	0	0	0	0	3,323	18,988	13,291	3,322	35,601	16,614	38,924	38,924
all stations towed														
Total		94,630	574,762	669,392	82,037	21,752	257,934	2,392,803	2,422,468	274,197	5,089,468	2,696,665	5,451,189	6,120,579
Westside Section														
KUD	309	0	0	0	0	0	0	0	0	0	0	0	0	0
KUF	310	0	15,492	15,492	0	2,499	13,993	6,497	0	0	6,497	0	22,989	38,481
KUG	311	0	0	0	0	0	684	0	0	0	0	0	684	684
KUI	312	568	43,744	44,312	852	5,965	7,101	1,988	0	284	2,272	284	16,191	60,503

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Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
		Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
KUJ	315	3,835	187,901	191,736	0	8,797	42,227	102,928	0	21,993	124,921	21,993	175,946	367,682
KUK	314	0	50,446	50,446	623	0	5,605	1,868	1,246	623	3,737	1,868	9,965	60,411
KULA	316	515	13,590	14,105	412	309	1,132	1,647	618	515	2,780	1,132	4,633	18,738
KULB	317	240	120	360	0	0	0	0	0	0	0	0	0	360
KUM	313	0	0	0	1,394	0	0	0	0	0	0	0	1,394	1,394
KUYA	318	0	0	0	0	0	329	0	0	0	0	0	329	329
KUYB	319	0	0	0	0	0	0	0	0	0	0	0	0	0
MAA	368	466	466	933	466	0	0	0	0	0	0	0	466	1,399
PMA	367	0	0	0	0	0	0	0	0	0	0	0	0	0
RAA	369	0	1,786	1,786	0	298	1,191	26,200	15,184	8,039	49,423	23,222	50,911	52,697
KUNX	327	951	951	1,902	475	951	0	0	0	0	0	0	1,426	3,328
KUP	328	0	41,256	41,256	0	0	6,483	14,145	0	589	14,734	589	21,217	62,473
KUQ	329	16,405	911	17,317	11,848	911	0	0	0	0	0	0	12,760	30,076
KUS	326	7,528	19,896	27,424	11,292	1,613	4,302	6,990	0	3,764	10,754	3,764	27,962	55,386
KUT	325	17,064	7,076	24,140	17,064	5,411	2,497	3,746	0	832	4,578	832	29,551	53,691
KUU	322	640	128,736	129,376	0	1,814	10,882	30,833	0	23,578	54,411	23,578	67,106	196,483
KUV	324	911	684	1,595	1,139	0	0	0	0	0	0	0	1,139	2,734
KUW	323	0	0	0	0	0	0	0	0	0	0	0	0	0
KUXA	321	20,609	5,229	25,838	15,995	4,922	1,846	4,922	2,461	3,691	11,074	6,152	33,836	59,674
KUXB	320	2,892	0	2,892	3,073	0	0	0	0	0	0	0	3,073	5,965
UYBX	330	7,607	0	7,607	3,804	0	0	0	0	0	0	0	3,804	11,411
UYEX	331	24,807	405,184	429,991	14,554	13,230	30,430	35,722	0	5,292	41,014	5,292	99,229	529,220
UYFX	339	48,836	1,221	50,057	47,615	20,755	1,221	2,442	1,221	1,221	4,884	2,442	74,475	124,531
UYHX	338	3,848	203	4,051	3,038	405	0	0	0	0	0	0	3,443	7,494
UYKX	332	614	1,841	2,455	614	0	614	0	0	0	0	0	1,227	3,682
UYMX	336	5,117	336,035	341,152	2,766	12,908	9,220	12,908	0	0	12,908	0	37,803	378,956
UYO	337	0	298	298	0	0	0	0	0	0	0	0	0	298
UYQX	335	1,021	0	1,021	1,021	340	340	340	0	0	340	0	2,042	3,062
UYSS	334	0	0	0	0	0	0	0	0	0	0	0	0	0
UYT	333	315	0	315	0	0	0	0	0	0	0	0	0	315
all stations towed														
Total		164,789	1,263,066	1,427,857	138,045	81,128	140,097	253,176	20,730	70,421	344,327	91,148	703,601	2,131,457

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Appendix D1.–Page 7 of 7.

Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
		Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
North Mainland Section														
171A	351	562	0	562	562	0	0	0	0	0	0	0	562	1,124
171C	352	1,694	0	1,694	2,373	4,746	7,910	59,321	78,304	5,537	143,162	83,841	158,190	159,884
171D	353	0	0	0	1,584	0	0	0	1,584	0	1,584	1,584	3,167	3,167
117	358	0	0	0	43,292	0	0	0	0	0	0	0	43,292	43,292
118	359	42,722	14,241	56,963	33,228	0	0	0	0	0	0	0	33,228	90,191
119	360	9,494	0	9,494	23,734	0	0	0	0	0	0	0	23,734	33,228
120	349	18,988	0	18,988	33,228	0	0	0	0	0	0	0	33,228	52,216
121	350	208,863	0	208,863	275,319	0	0	9,494	0	0	9,494	0	284,813	493,675
144	357	3,361	0	3,361	16,804	0	0	0	0	0	0	0	16,804	20,165
145	355	170,888	0	170,888	142,406	0	9,494	14,241	4,747	0	18,988	4,747	170,888	341,775
146	356	33,228	14,241	47,469	14,241	0	0	0	0	0	0	0	14,241	61,709
147	348	104,431	0	104,431	80,697	0	14,241	18,988	4,747	0	23,735	4,747	118,672	223,103
172	354	52,793	0	52,793	105,586	0	0	4,399	13,198	0	17,597	13,198	123,183	175,976
173	346	147,153	18,988	166,141	113,925	0	0	9,494	0	0	9,494	0	123,419	289,559
174	347	52,216	23,734	75,950	52,216	0	0	14,241	0	0	14,241	0	66,456	142,406
198	345	66,456	42,722	109,178	71,203	0	14,241	9,494	0	0	9,494	0	94,938	204,116
199	342	128,166	14,241	142,406	118,672	0	9,494	14,241	0	0	14,241	0	142,406	284,813
2	366	0	0	0	9,475	0	0	146,859	61,586	0	208,445	61,586	217,920	217,920
200	341	327,534	4,747	332,281	313,294	4,747	4,747	9,494	0	0	9,494	0	332,281	664,563
222	344	22,853	28,567	51,420	22,853	0	0	0	0	5,713	5,713	5,713	28,567	79,987
223	343	370,256	23,734	393,991	318,041	9,494	9,494	18,988	0	0	18,988	0	356,016	750,006
224	340	341,775	18,988	360,763	299,053	0	28,481	14,241	0	0	14,241	0	341,775	702,538
31	365	0	0	0	9,266	0	4,633	37,064	18,532	0	55,596	18,532	69,494	69,494
60	363	18,988	0	18,988	28,481	0	0	0	0	0	0	0	28,481	47,469
61	364	0	0	0	18,988	4,747	0	0	0	0	0	0	23,734	23,734
90	361	93,305	0	93,305	84,418	0	0	0	0	0	0	0	84,418	177,723
91	362	14,241	0	14,241	18,988	0	14,241	37,975	0	23,734	61,709	23,734	94,938	109,178
3	station not towed													
untowed station estimate		47,498	3,238	50,735	61,313	359	2,145	18,910	7,537	2,227	28,674	9,763	92,492	143,227
Total		2,277,465	207,441	2,484,905	2,313,240	24,093	119,121	437,444	190,235	37,211	664,890	227,445	3,121,337	5,606,238
Kodiak District Total		7,040,443	21,436,051	28,476,488	6,285,560	868,887	3,931,242	25,206,946	12,431,758	2,813,475	40,452,179	15,245,236	51,537,859	80,014,332

Note: CW = carapace width.

Appendix D2.—Tanner crab abundance estimates in the Chignik District by station and sampling locale, 2022.

	Haul	Females			Number sublegal males by size (CW)				Recruit	Postrecruit	Mature	Legal	Total	Total
Station	no.	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm	males	males	males	males	males	crab
Ivanof Bay														
4000X	193	3,691	738	4,429	1,900	1,900	5,699	45,118	40,369	0	85,487	40,369	94,986	99,416
4000Y	194	13,975	0	13,975	13,975	699	4,891	6,289	2,096	699	9,084	2,795	28,648	42,623
4007	192	42,890	0	42,890	56,088	18,146	6,599	4,949	3,299	4,949	13,197	8,248	94,029	136,920
4008	195	11,183	294,482	305,665	3,728	5,591	54,051	165,879	37,276	18,638	221,793	55,914	285,163	590,829
4915	191	2,260	0	2,260	4,521	0	0	2,260	0	0	2,260	0	6,781	9,041
4900X					station not towed									
Total		73,999	295,220	369,219	80,212	26,336	71,240	224,495	83,040	24,286	331,821	107,326	509,607	878,829
Mitrofanina Island														
4024	190	22,954	2,550	25,504	12,752	0	2,550	81,613	178,528	0	260,141	178,528	275,443	300,947
4025	189	5,801	148,894	154,695	3,867	3,867	11,602	42,541	9,668	0	52,209	9,668	71,546	226,241
4026	188	19,367	2,421	21,788	14,525	0	14,525	7,263	0	0	7,263	0	36,314	58,102
4035	183	23,623	0	23,623	26,248	20,999	23,623	170,614	107,618	0	278,232	107,618	349,103	372,726
4036	184	0	0	0	14,362	0	5,745	97,663	112,025	5,745	215,433	117,770	235,539	235,539
4037	185	3,867	88,950	92,817	3,867	1,934	9,668	52,210	11,602	5,801	69,613	17,403	85,082	177,899
4038A	187	67,785	2,421	70,206	31,472	2,421	4,842	9,684	0	2,421	12,105	2,421	50,839	121,045
4038B	186	7,263	0	7,263	4,842	2,421	9,684	21,788	0	0	21,788	0	38,735	45,997
4048	178	6,234	10,130	16,364	11,689	5,455	10,130	34,287	56,106	3,117	93,510	59,223	120,783	137,147
4049	182	15,193	7,597	22,790	10,129	15,193	30,386	189,913	81,030	0	270,943	81,030	326,650	349,440
4050A	181	0	33,259	33,259	2,294	1,147	4,587	75,692	53,902	1,147	130,741	55,049	138,768	172,027
4050B	180	3,804	13,313	17,116	3,804	0	9,509	119,813	45,643	3,804	169,260	49,446	182,572	199,688
4063	177	28,832	0	28,832	9,105	59,182	71,322	60,699	77,392	4,552	142,643	81,944	282,251	311,084
4064	179	10,253	179,432	189,685	5,127	6,836	29,051	105,950	15,380	20,507	141,837	35,886	182,850	372,535
4065	176	7,088	49,614	56,701	7,088	7,088	31,894	35,438	21,263	0	56,701	21,263	102,771	159,472
4066A	175	1,929	32,795	34,724	1,929	1,929	13,504	55,945	13,504	3,858	73,307	17,362	90,669	125,393
4066B	174	0	3,858	3,858	0	0	17,362	59,803	28,937	1,929	90,669	30,866	108,031	111,890
Total		223,993	575,234	799,225	163,100	128,472	299,984	1,220,916	812,598	52,881	2,086,395	865,477	2,677,946	3,477,172

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Appendix D2.–Page 2 of 2.

	Haul	Females			Number sublegal males by size (CW)				Recruit	Postrecruit	Mature	Legal	Total	Total
Station	no.	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm	males	males	males	males	males	crab
Chignik Bay														
4256	163	36,180	30,753	66,933	30,753	41,607	63,315	5,427	0	0	5,427	0	141,101	208,034
4262	164	23,207	1,055	24,262	31,646	3,165	48,524	26,372	5,274	0	31,646	5,274	114,980	139,242
4264	158	19,215	0	19,215	32,317	3,494	5,241	12,228	7,861	0	20,089	7,861	61,140	80,355
4265	157	880	0	880	293	0	0	0	0	0	0	0	293	1,173
4266	165	8,689	0	8,689	15,205	2,172	19,550	7,603	4,344	0	11,947	4,344	48,874	57,563
4267	162	96,124	43,909	140,033	52,216	59,336	58,149	4,747	0	0	4,747	0	174,448	314,480
4270	160	2,511	414,378	416,890	3,887	7,775	50,535	202,140	36,929	46,648	285,717	83,577	347,913	764,803
4271	159	7,514	8,399	15,913	5,941	6,931	37,130	31,190	14,357	3,466	49,013	17,823	99,014	114,928
4272	168	0	0	0	705	0	0	0	0	0	0	0	705	705
4274	166	2,373	34,415	36,788	2,373	9,494	33,228	9,494	1,187	0	10,681	1,187	55,776	92,564
4277	169	2,373	13,054	15,427	5,934	3,560	4,747	18,988	1,187	2,373	22,548	3,560	36,788	52,216
4278	167	13,054	42,722	55,776	1,187	2,373	29,668	41,535	0	2,373	43,908	2,373	77,137	132,913
4282	170	0	32,041	32,041	2,373	0	9,494	39,162	0	5,934	45,096	5,934	56,963	89,004
4286	173	5,934	7,120	13,054	15,427	1,187	3,560	2,373	2,373	0	4,746	2,373	24,921	37,975
4287	171	11,032	26,791	37,823	15,760	1,576	15,760	17,336	0	3,152	20,488	3,152	53,583	91,406
4312	161	5,824	164,038	169,862	1,550	6,201	49,604	195,316	29,452	29,452	254,220	58,905	311,576	481,438
4964	156	2,119	424	2,543	848	848	848	0	424	0	424	424	2,967	5,509
Total		237,029	819,099	1,056,129	218,415	149,719	429,353	613,911	103,388	93,398	810,697	196,787	1,608,179	2,664,308
Kujulik Bay														
4290	154	0	0	0	0	0	0	0	0	0	0	0	0	0
4296	155	35,688	67,756	103,444	17,529	91,817	56,759	2,504	0	0	2,504	0	168,609	272,053
4298	172	0	0	0	842	0	0	0	0	0	0	0	842	842
4301	153	0	948	948	1,896	0	0	0	0	0	0	0	1,896	2,844
4302	152	807	0	807	807	0	0	0	0	0	0	0	807	1,613
4308	151	1,519	0	1,519	760	0	0	0	0	0	0	0	760	2,279
Total		38,014	68,704	106,718	21,834	91,817	56,759	2,504	0	0	2,504	0	172,914	279,631
untowed station estimate		5,215	6,100	11,316	4,142	3,479	5,160	9,644	5,892	502	16,038	6,394	28,820	40,137
Chignik District Total		578,250	1,764,357	2,342,607	487,703	399,823	862,496	2,071,470	1,004,918	171,067	3,247,455	1,175,984	4,997,466	7,340,077

Note: CW = carapace width.

Appendix D3.—Tanner crab abundance estimates in the South Peninsula District by station, sampling locale, and section, 2022.

	Haul	Females			Number sublegal males by size (CW)				Recruit	Postrecruit	Mature	Legal	Total	Total
Station	no.	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm	males	males	males	males	males	crab
Sanak Island														
113	276	38,450	0	38,450	51,266	4,272	0	0	0	0	0	0	55,538	93,988
125	278	29,905	4,272	34,178	46,994	4,272	12,817	8,544	0	0	8,544	0	72,627	106,805
126	277	34,451	0	34,451	30,145	4,306	4,306	0	0	0	0	0	38,757	73,208
137	279	37,975	0	37,975	42,722	0	4,747	14,241	0	0	14,241	0	61,709	99,684
138A	280	23,104	15,403	38,507	28,880	11,552	7,701	7,701	0	0	7,701	0	55,835	94,341
138B	282	5,098	1,020	6,118	0	2,039	6,118	6,118	0	0	6,118	0	14,275	20,393
138C	281	31,519	3,152	34,671	34,671	3,152	44,127	25,215	0	3,152	28,367	3,152	110,317	144,989
Total		200,502	23,847	224,350	234,678	29,593	79,816	61,819	0	3,152	64,971	3,152	409,058	633,408
Morzhovoi Bay														
87AX	274	4,648	929,537	934,185	0	4,770	38,164	605,852	224,213	85,869	915,934	310,082	958,869	1,893,054
87D	275	987	987	1,975	3,949	3,949	8,886	73,064	31,595	8,886	113,545	40,481	130,330	132,305
MOD	271	3,570	0	3,570	2,856	714	2,142	5,711	3,570	714	9,995	4,284	15,706	19,276
MOF	270	884	0	884	884	884	0	1,768	1,768	0	3,536	1,768	5,304	6,188
MOG	272	1,944	0	1,944	5,833	0	972	972	8,749	1,944	11,665	10,694	18,471	20,415
MOH	269	2,680	0	2,680	5,359	1,340	4,689	27,465	26,795	1,340	55,600	28,135	66,988	69,667
MOI	273	0	0	0	938	2,814	938	16,884	9,380	938	27,202	10,318	31,891	31,891
MOK	267	0	59,336	59,336	0	0	13,000	127,111	130,000	15,889	273,000	145,888	285,999	345,335
MOL	268	0	1,187	1,187	0	4,463	19,342	147,295	126,465	1,488	275,248	127,953	299,053	300,240
MOOX	266	0	719,089	719,089	0	36,778	122,594	1,458,868	490,376	343,263	2,292,507	833,639	2,451,879	3,170,967
MORX	264	4,972	0	4,972	8,287	0	3,315	9,944	84,527	1,657	96,128	86,185	107,731	112,703
MOSX	265	0	0	0	0	0	11,347	94,558	234,503	1,891	330,952	236,394	342,299	342,299
MOB					station not towed									
Total		19,685	1,710,136	1,729,822	28,106	55,712	225,389	2,569,492	1,371,941	463,879	4,405,312	1,835,821	4,714,520	6,444,340
Cold Bay/Belkofski Bay														
156A	294	2,174	91,302	93,476	0	3,407	78,356	446,290	129,458	27,254	603,002	156,712	684,765	778,241
157A	293	9,311	2,328	11,639	5,820	2,328	10,475	59,361	31,426	1,164	91,951	32,590	110,574	122,213
BEBX	296	0	0	0	0	0	0	0	0	0	0	0	0	0
BECX	297	0	0	0	1,623	0	16,232	4,869	0	0	4,869	0	22,724	22,724
BEE	298	949	67,406	68,355	0	0	144,210	257,518	8,241	2,060	267,819	10,301	412,029	480,384

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Appendix D3.–Page 2 of 4.

Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
		Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
BEF	295	0	0	0	1,282	0	12,179	49,358	18,590	0	67,948	18,590	81,409	81,409
BEG	292	11,241	0	11,241	13,489	0	6,744	23,605	4,496	0	28,101	4,496	48,335	59,575
COB	285	1,537	0	1,537	0	1,537	0	0	0	0	0	0	1,537	3,073
COC	286	2,101	0	2,101	1,051	0	0	0	0	0	0	0	1,051	3,152
COE	287	16,517	1,376	17,894	13,764	16,517	5,506	35,788	6,882	1,376	44,046	8,259	79,834	97,728
COF	288	1,908	6,361	8,269	0	1,908	5,089	54,067	17,174	0	71,241	17,174	78,238	86,507
COGA	289	2,715	86,887	89,602	0	9,066	28,493	195,569	25,903	0	221,472	25,903	259,031	348,633
COGB	291	0	0	0	0	0	230	2,070	1,150	0	3,220	1,150	3,450	3,450
COH	290	0	0	0	0	0	0	659	0	0	659	0	659	659
COM	284	14,765	6,562	21,327	6,562	3,281	26,248	21,327	1,641	0	22,968	1,641	59,059	80,385
COOX	283	15,342	1,534	16,876	1,534	9,205	23,013	21,479	3,068	0	24,547	3,068	58,299	75,175
Total		78,560	263,756	342,317	45,125	47,249	356,775	1,171,960	248,029	31,854	1,451,843	279,884	1,900,994	2,243,308
Pavlof Bay/Volcano Bay														
228	229	2,833	3,966	6,799	0	4,640	16,573	48,392	59,662	3,315	111,369	62,976	132,581	139,380
245	228	1,862	3,725	5,587	2,945	7,364	11,782	92,782	170,837	2,946	266,565	173,782	288,656	294,242
PAEX	306	51,270	0	51,270	72,382	12,064	3,016	0	0	0	0	0	87,461	138,732
PAH	307	22,010	0	22,010	50,309	5,241	0	1,048	0	0	1,048	0	56,598	78,608
PAIX	305	140,959	2,610	143,569	138,348	18,272	15,662	0	0	0	0	0	172,283	315,852
PALX	304	61,778	0	61,778	41,921	39,714	2,206	4,413	0	0	4,413	0	88,254	150,032
PAOB	308	56,378	46,837	103,215	9,272	74,173	122,386	133,512	37,087	0	170,599	37,087	376,429	479,644
PAP	303	59,479	11,329	70,809	31,156	16,994	43,901	56,647	5,665	1,416	63,728	7,081	155,779	226,588
PARA	239	32,093	20,270	52,363	37,228	103,092	223,366	177,547	71,592	2,864	252,003	74,455	615,687	668,050
PARB	302	8,372	828,832	837,204	0	46,718	179,087	307,563	85,650	23,359	416,572	109,010	642,378	1,479,582
PAU	240	19,937	12,342	32,279	9,711	8,497	66,763	109,249	48,555	1,214	159,018	49,769	243,989	276,268
PAV	301	1,823	24,608	26,431	0	2,734	18,228	80,203	49,216	10,025	139,444	59,241	160,406	186,837
VOA	242	18,558	5,860	24,418	21,488	10,744	12,697	41,022	13,674	0	54,696	13,674	99,625	124,043
VOBX	241	3,855	42,407	46,263	1,928	17,348	28,914	142,643	98,308	5,783	246,734	104,091	294,924	341,187
VOD	230	10,126	26,695	36,821	0	5,633	30,043	129,559	202,788	9,389	341,736	212,176	377,411	414,231
VOFB	237	3,441	688	4,129	4,129	0	4,817	10,322	2,752	1,376	14,450	4,129	23,396	27,524
VOG	238	980	53,887	54,866	0	8,818	29,393	59,765	16,656	19,595	96,016	36,251	134,226	189,093
VOH	299	4,815	19,261	24,076	2,568	5,136	33,386	160,508	55,215	1,284	217,007	56,499	258,096	282,172
VOI	300	0	173,667	173,667	0	1,403	30,875	141,745	91,222	15,437	248,404	106,660	280,684	454,351

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Appendix D3.–Page 3 of 4.

Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab
		Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm						
VOLX	231	10,170	0	10,170	10,952	782	2,347	1,565	0	0	1,565	0	15,646	25,815
VOM	236	20,710	8,528	29,238	19,492	1,218	4,873	6,091	3,655	2,436	12,182	6,091	37,765	67,003
VON	235	17,636	7,838	25,474	11,578	13,683	47,363	69,466	68,413	2,105	139,984	70,518	212,607	238,080
VOPX	232	44,777	85,603	130,380	18,438	9,219	25,022	27,656	0	2,634	30,290	2,634	82,969	213,350
VOQ	233	15,506	7,048	22,554	11,982	705	9,867	28,897	5,639	7,753	42,289	13,392	64,843	87,397
VOR	234	14,971	4,679	19,650	8,421	11,228	19,650	17,778	19,650	936	38,364	20,585	77,663	97,313
Total		624,339	1,390,680	2,015,020	504,248	425,420	982,217	1,848,373	1,106,236	113,867	3,068,476	1,220,101	4,980,356	6,995,374
Beaver Bay/Balboa Bay/ Unga Strait														
278	227	7,910	0	7,910	0	3,955	27,686	11,865	0	0	11,865	0	43,506	51,416
311A	205	20,552	3,425	23,977	13,701	6,851	2,055	0	0	0	0	0	22,607	46,585
311B	206	16,335	0	16,335	24,933	0	860	860	0	0	860	0	26,652	42,988
311C	204	35,057	9,301	44,358	34,342	1,431	2,146	1,431	0	0	1,431	0	39,350	83,708
329B	202	5,696	28,481	34,178	15,190	9,494	29,431	33,228	0	2,848	36,076	2,848	90,191	124,368
329C	203	13,291	4,747	18,038	17,089	949	1,899	1,899	0	0	1,899	0	21,836	39,874
348	201	174,238	40,209	214,447	98,288	22,338	35,741	0	0	0	0	0	156,368	370,815
368A	200	11,675	0	11,675	11,675	0	0	0	0	0	0	0	11,675	23,350
BAA	208	0	0	0	2,900	0	0	0	0	0	0	0	2,900	2,900
BAC	209	51,567	2,989	54,556	65,767	8,221	0	747	0	0	747	0	74,735	129,291
BAD	210	3,308	0	3,308	4,779	735	0	0	0	0	0	0	5,514	8,822
BAE	211	2,254	6,763	9,017	564	2,818	3,381	0	0	0	0	0	6,763	15,779
BAF	207	0	0	0	0	0	0	0	0	0	0	0	0	0
BVA	226	0	0	0	0	0	0	0	0	0	0	0	0	0
BVB	225	0	0	0	0	0	0	0	0	0	0	0	0	0
BVC	224	0	835	835	1,671	0	2,506	835	0	0	835	0	5,013	5,848
Total		341,883	96,750	438,634	290,899	56,792	105,705	50,865	0	2,848	53,713	2,848	507,110	945,744
Stepovak Bay														
STA	197	9,296	0	9,296	15,106	0	3,486	1,162	0	0	1,162	0	19,755	29,051
STB	198	5,222	0	5,222	3,133	0	1,044	0	0	0	0	0	4,177	9,399
STD	196	1,240	13,639	14,879	3,720	0	6,199	4,960	0	1,240	6,200	1,240	16,118	30,997
STE	199	10,322	8,601	18,923	20,643	0	1,720	4,301	0	0	4,301	0	26,664	45,587
Total		26,080	22,240	48,320	42,602	0	12,449	10,423	0	1,240	11,663	1,240	66,714	115,034

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	Haul	Females			Number sublegal males by size (CW)				Recruit	Postrecruit	Mature	Legal	Total	Total
Station	no.	Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm	males	males	males	males	males	crab
West Nagai Strait														
301	212	0	0	0	0	0	0	4,747	0	4,747	9,494	4,747	9,494	9,494
318	213	4,747	0	4,747	0	0	0	0	0	4,747	4,747	4,747	4,747	9,494
332B	223	21,361	0	21,361	21,361	0	0	0	0	0	0	0	21,361	42,722
334	216	42,722	189,875	232,597	42,722	4,747	33,228	23,734	0	9,494	33,228	9,494	113,925	346,522
335	215	0	0	0	0	0	0	4,747	0	0	4,747	0	4,747	4,747
337	214	0	0	0	0	0	4,747	33,228	0	0	33,228	0	37,975	37,975
354	217	21,042	1,388,780	1,409,822	0	185,128	199,369	123,419	0	18,988	142,407	18,988	526,903	1,936,725
371	222	0	0	0	4,490	0	0	4,490	0	0	4,490	0	8,980	8,980
373A	218	3,819	3,819	7,637	0	1,909	0	0	0	0	0	0	1,909	9,546
373B	220	19,076	90,836	109,912	3,157	45,247	84,181	61,031	5,261	13,679	79,971	18,941	212,557	322,469
393	221	5,312	23,905	29,217	5,312	23,905	74,370	50,466	0	0	50,466	0	154,053	183,270
353					station not towed									
Total		118,079	1,697,215	1,815,293	77,042	260,936	395,895	305,862	5,261	51,655	362,778	56,917	1,096,651	2,911,944
untowed station estimate		6,979	2,641	9,620	7,704	1,427	8,009	13,858	4,419	314	18,591	4,733	35,730	45,350
Western Section ^a		305,726	2,000,380	2,306,109	315,613	133,981	669,989	3,817,129	1,624,389	499,199	5,940,717	2,123,590	7,060,302	9,366,406
untowed station estimate		52,240	99,993	152,233	47,522	23,430	32,652	40,318	8,558	3,403	52,279	11,961	155,884	308,116
Eastern Section ^b		1,162,621	3,306,878	4,469,500	962,313	766,578	1,528,918	2,255,841	1,120,055	173,013	3,548,909	1,293,067	6,806,715	11,276,212
South Peninsula District Total		1,468,347	5,307,258	6,775,609	1,277,926	900,559	2,198,907	6,072,970	2,744,444	672,212	9,489,626	3,416,657	13,867,017	20,642,618

Note: CW = carapace width.

^a Western Section of the South Peninsula District includes Sanak Island, Morzhovoi Bay, and Cold Bay/Belkofski Bay.

^b Eastern Section of the South Peninsula District includes Pavlof Bay/Volcano Bay, Beaver Bay/Balboa Bay/Unga Strait, West Nagai Strait, and Stepovak Bay.

Appendix D4.—Tanner crab abundance estimates in the Eastern Aleutian District by station and sampling locale, 2022.

Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males	Mature males	Legal males	Total males	Total crab	
		Juvenile	Mature	Total	<70 mm	70–91 mm	92–114 mm	>114 mm							
Akutan Bay Section															
AKA	243	135,871	38,558	174,429	173,734	189,528	83,483	6,769	0	0	6,769	0	453,515	627,943	
AKC	244	100,915	52,804	153,719	41,070	22,295	4,694	1,173	0	0	1,173	0	69,232	222,951	
AKD	245	14,924	151,729	166,653	40,683	171,449	84,271	5,812	0	0	5,812	0	302,215	468,868	
AKG	246	1,187	4,747	5,934	3,560	2,373	37,975	32,041	0	0	32,041	0	75,950	81,884	
AKL	247	1,187	0	1,187	1,187	0	1,187	0	0	0	0	0	2,373	3,560	
Total		254,084	247,838	501,922	260,234	385,645	211,610	45,795	0	0	45,795	0	903,285	1,405,206	
Unalaska/Kalekta Bay Section															
UNC	249	26,957	429,064	456,021	22,245	46,714	45,602	45,602	5,561	0	51,163	5,561	165,725	621,745	
UND	252	0	0	0	1,589	0	795	0	0	0	0	0	2,384	2,384	
UNE	251	46,355	21,958	68,313	26,837	8,539	1,220	0	0	0	0	0	36,596	104,909	
UNF	250	41,773	98,735	140,508	43,671	5,696	7,595	2,848	949	0	3,797	949	60,760	201,268	
UNG	253	3,165	0	3,165	0	0	0	0	0	0	0	0	0	3,165	
UNI	263	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNJ	254	0	1,187	1,187	1,187	0	0	0	0	0	0	0	1,187	2,373	
KAA	248	1,233	1,233	2,465	1,233	9,860	2,465	2,465	0	0	2,465	0	16,023	18,488	
Total		119,483	552,177	671,659	96,762	70,809	57,677	50,915	6,510	0	57,425	6,510	282,675	954,332	
Makushin/Skan Bay Section															
MKB	260	432,698	798,358	1,231,055	209,563	234,964	273,067	457,228	82,555	38,102	577,885	120,657	1,295,479	2,526,534	
MKC	261	53,471	517,828	571,299	17,822	40,099	49,010	145,545	25,248	41,584	212,377	66,832	319,309	890,608	
MKE	259	216,117	7,156	223,273	201,804	1,431	5,725	0	0	0	0	0	208,960	432,233	
MKF	258	100,833	2,775	103,608	68,455	3,700	2,775	1,850	925	0	2,775	925	77,706	181,314	
MKJ	262	7,391	12,934	20,324	3,695	3,695	5,543	0	1,848	0	1,848	1,848	14,781	35,105	
MKK	255	3,163	0	3,163	0	1,581	1,581	0	0	0	0	0	3,163	6,325	
MKN	256	33,818	366,035	399,854	23,180	70,699	107,787	25,498	0	1,159	26,657	1,159	228,322	628,176	
MKP	257	9,281	147,717	156,998	2,461	9,843	34,451	28,545	0	1,476	30,021	1,476	76,776	233,774	
Total		856,772	1,852,803	2,709,574	526,980	366,012	479,939	658,666	110,576	82,321	851,563	192,897	2,224,496	4,934,069	
all stations towed															
Eastern Aleutian District Total		1,230,339	2,652,818	3,883,155	883,976	822,466	749,226	755,376	117,086	82,321	954,783	199,407	3,410,456	7,293,607	