

Fishery Management Report No. 10-41

**Fishery Management Plan for the Chignik District
Commercial Tanner Crab Fishery, 2011**

by

Mark Stichert

December 2010

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the *Système International d'Unités* (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

Weights and measures (metric)		General		Mathematics, statistics	
centimeter	cm	Alaska Administrative Code	AAC	<i>all standard mathematical signs, symbols and abbreviations</i>	
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	e
hectare	ha	at	@	catch per unit effort	CPUE
kilogram	kg	compass directions:		coefficient of variation	CV
kilometer	km	east	E	common test statistics	(F, t, χ^2 , etc.)
liter	L	north	N	confidence interval	CI
meter	m	south	S	correlation coefficient	
milliliter	mL	west	W	(multiple)	R
millimeter	mm	copyright	©	correlation coefficient	
		corporate suffixes:		(simple)	r
Weights and measures (English)		Company	Co.	covariance	cov
cubic feet per second	ft ³ /s	Corporation	Corp.	degree (angular)	°
foot	ft	Incorporated	Inc.	degrees of freedom	df
gallon	gal	Limited	Ltd.	expected value	E
inch	in	District of Columbia	D.C.	greater than	>
mile	mi	et alii (and others)	et al.	greater than or equal to	≥
nautical mile	nmi	et cetera (and so forth)	etc.	harvest per unit effort	HPUE
ounce	oz	exempli gratia		less than	<
pound	lb	(for example)	e.g.	less than or equal to	≤
quart	qt	Federal Information Code	FIC	logarithm (natural)	ln
yard	yd	id est (that is)	i.e.	logarithm (base 10)	log
		latitude or longitude	lat. or long.	logarithm (specify base)	log ₂ , etc.
Time and temperature		monetary symbols		minute (angular)	'
day	d	(U.S.)	\$, ¢	not significant	NS
degrees Celsius	°C	months (tables and figures): first three letters	Jan, ..., Dec	null hypothesis	H_0
degrees Fahrenheit	°F	registered trademark	®	percent	%
degrees kelvin	K	trademark	™	probability	P
hour	h	United States	U.S.	probability of a type I error	
minute	min	(adjective)		(rejection of the null hypothesis when true)	α
second	s	United States of America (noun)	USA	probability of a type II error	
		U.S.C.	United States Code	(acceptance of the null hypothesis when false)	β
Physics and chemistry		U.S. state	use two-letter abbreviations (e.g., AK, WA)	second (angular)	"
all atomic symbols				standard deviation	SD
alternating current	AC			standard error	SE
ampere	A			variance	
calorie	cal			population sample	Var
direct current	DC			sample	var
hertz	Hz				
horsepower	hp				
hydrogen ion activity	pH				
(negative log of)					
parts per million	ppm				
parts per thousand	ppt, ‰				
volts	V				
watts	W				

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ABSTRACT

The Chignik District will open for a commercial Tanner crab *Chionoecetes bairdi* fishery on January 15, 2011 with a guideline harvest level (GHL) of 600,000 pounds. Based on the GHL, the pot limit will be 30 pots per vessel. This document provides an overview of the Chignik District Tanner crab harvest strategy and summarizes regulations governing gear specifications, pot storage, landing requirements, fishing hours, tank inspection, and inseason reporting. This document also provides information on the commercial Tanner crab fishery that occurs in the Semidi Island Overlap Section of the Kodiak District. Fishermen are encouraged to use this document as a supplement to the 2008–2011 Commercial King and Tanner Crab Fishing Regulation booklet to understand regulations for this fishery.

Key words: Tanner crab, *Chionoecetes bairdi*, Chignik District, Semidi Island Overlap Section, Area J, harvest strategy, regulations, guideline harvest level, GHL

INTRODUCTION

AREA DESCRIPTION

The Chignik District of Registration Area J for Tanner crab *Chionoecetes bairdi* includes all Pacific Ocean waters east of a line from the southernmost tip of Kupreanof Point to the easternmost point of Castle Rock, and east of a line extending southeast 135° from the easternmost point of Castle Rock and west of the longitude of the easternmost tip of Cape Kumlik (Figure 1). Chignik District fishermen may also target Tanner crab in the Semidi Island Overlap Section of the Kodiak District. The Semidi Island Overlap Section includes all waters west of the longitude of Cape Kilokak (156°19' W long) and east of the longitude of Cape Kumlik (157°27' W long). A full description of the district and section boundaries is found under 5 AAC 35.505 *DESCRIPTION OF REGISTRATION AREA J DISTRICTS* on page 144 of the 2008–2011 Commercial King and Tanner Crab Fishing Regulations.

OVERVIEW

The Chignik District Tanner crab fishery began in 1968 when 21,100 pounds were harvested. The fishery peaked during the 1976 season when 35 vessels harvested approximately 11.0 million pounds. Annual harvests declined through the late 1970s and recruitment failures in the early 1980s led to consecutively smaller annual harvests until 1988, when a small increase in harvest occurred. Historically, most effort occurred during late March following closures of the Tanner crab fisheries in the Kodiak and South Peninsula districts. The areas of highest production were offshore between Mitrofanina Island and Lighthouse Rocks.

The Alaska Department of Fish and Game (ADF&G) began Chignik District Tanner crab assessment surveys in 1981. Surveys in the early 1980s predicted poor recruitment. Subsequent catches declined first in the productive offshore areas, then later inside bays and other near shore waters. The district was closed to commercial fishing in 1990 and remained closed through the 2004 season. In 1999, the Alaska Board of Fisheries (BOF) adopted a comprehensive harvest strategy (Urban et al. 1999) for Tanner crab in the Chignik District (5 AAC 35.507). The Chignik District reopened to commercial Tanner crab fishing under this harvest strategy during the 2005 and 2006 seasons. No commercial Tanner crab fisheries have occurred since the 2006 season due to low abundance of legal sized male Tanner crabs.

In recent years the abundance of Tanner crab in the Chignik District has increased. Most of the observed increase in abundance is due to a cohort of crab first detected in the ADF&G trawl survey during 2006. That cohort has subsequently recruited into legal size allowing for commercial harvest to occur during the 2011 fishing season.

2011 GUIDELINE HARVEST LEVEL

Based on the 2010 ADF&G trawl assessment survey, the Chignik District was above the mature male abundance threshold for a 2011 commercial Tanner crab fishery. **The 2011 Chignik District Tanner crab guideline harvest level (GHL) is 600,000 pounds.**

REGULATIONS

OVERVIEW

State of Alaska Tanner crab regulations are in Chapter 35 of the Alaska Administrative Code (AAC). Chapter 35 begins on page 124 of the 2008–2011 Commercial King and Tanner crab regulation booklet. Specific regulations pertaining to Tanner crab fisheries in Registration Area J begin on page 143. The harvest strategy, 5 AAC 35.507 *KODIAK, CHIGNIK, AND SOUTH PENINSULA DISTRICTS, C. BAIRDI TANNER CRAB HARVEST STRATEGIES*, can be found on pages 146-149. For information on additional regulations, contact the ADF&G office in Kodiak or refer to the ADF&G website at <http://www.adfg.state.ak.us/>. Following is a summary of relevant 2011 Tanner crab fishing regulations in the Chignik District, particularly those that have changed as a result of recent BOF actions.

- The Chignik District Tanner crab fishery is a superexclusive registration area fishery. However, a vessel registered to fish for Tanner crab in the Chignik District may also be used to take Tanner crab in the Semidi Island Overlap Section of the Kodiak District.
- Fishing gear may be operated for 10 hours each day from 8:00 AM to 5:59 PM. Baited gear may be left in the water for 14 hours each night from 6:00 PM to 7:59 AM, 5 AAC 35.510 (b) *FISHING SEASONS FOR REGISTRATION AREA J*.
- A person or vessel that operates pot gear (e.g., cod pots, subsistence pots, etc.) at any time during the 14 days immediately prior to the 2011 Chignik District Tanner crab fishery opening may not participate in the commercial Tanner crab fishery, 5 AAC 35.053 *OPERATION OF OTHER POT GEAR*.
- A vessel may not operate groundfish pots while registered for the commercial Tanner crab fishery, including pots to catch Pacific cod for bait, 5 AAC 35.050 *LAWFUL GEAR FOR TANNER CRAB*. Pacific cod caught as bycatch in crab pots may be retained and used for bait and should be reported on fish tickets.

VESSEL SIZE RESTRICTIONS, REGISTRATION, AND TENDERS

All vessels must register with ADF&G prior to the start of the Chignik District commercial Tanner crab fishery. Tanner crab may not be taken in the Chignik District by vessels greater than 58 feet in overall length, 5 AAC 35.590 (b) *VESSEL LENGTH RESTRICTIONS*. Vessels may not be simultaneously registered to fish in the Chignik District and the Semidi Island Overlap Section. However, vessel operators may change vessel registration during the season by contacting ADF&G in Kodiak. Vessel operators must have a 2011 permit card for Chignik Area (T09L) Tanner crab and a current 2011 commercial vessel license prior to registration. Permit cards and vessel licenses can be obtained from the Commercial Fisheries Entry Commission (CFEC) in Juneau (Appendix A).

Tender vessels must register with ADF&G prior to beginning tendering operations. Tender vessels may not have a pot-hauling block or other crab fishing gear (e.g. pots) onboard and may

not be used to harvest Tanner crab (5 AAC 35.033). Catcher vessels participating in the Tanner crab fishery **cannot** transport crab for other registered catcher vessels.

POT LIMITS

When the Chignik District Tanner crab GHL is 600,000 pounds or less, no more than 30 aggregate pots (including stored pots) may be operated by a validly registered Tanner crab vessel. If the GHL exceeds 600,000 pounds the total amount of gear allowed in the fishery is 1,000 pots. To establish vessel pot limits, ADF&G will divide the 1,000 pot gear limit by the total number of vessels that registered by the December 24 registration deadline specified in 5 AAC 35.506(e)(6)). The pot limit is 70 pots per vessel in the Semidi Island Overlap Section (5 AAC 35.507 (c)(3)(C)).

With a total GHL of 600,000 pounds, the pot limit for the 2011 Chignik District Tanner crab fishery will be 30 pots per vessel.

GEAR AND BUOY TAGS

Commercial Tanner crab pots are limited in size to no more than 10 feet long by 10 feet wide by 42 inches high with rigid tunnel eye openings that are less than five inches (13 cm) in height. Individual tunnel eye openings must be more than 36 inches in perimeter. Ring nets are not legal gear in the Chignik District for the commercial harvest of Tanner crabs. Specific regulations regarding legal pot dimensions are in 5 AAC 35.050 *LAWFUL GEAR FOR TANNER CRAB* on page 128 of the crab regulations.

Buoy tags are required on all gear fished and will be available in person at the ADF&G office in Kodiak or through the U.S. Postal Service beginning in mid-December. Each pot must have a tag placed on the main buoy or trailer buoy if more than one buoy is attached to the pot. A valid 2011 Tanner crab CFEC permit card is required to receive tags. Contact ADF&G in Kodiak at 907-486-1840 for additional information on buoy tags.

Replacement tags may be obtained by contacting ADF&G in Kodiak. The vessel owner, operator, or agent must complete an affidavit form describing how the tags were lost and supply the unique number(s) of each lost tag.

Pots with lost tags may remain in the water but those pots must be secured open with bait removed until replacement tags are obtained. Vessel operators must contact Alaska State Troopers Division of Fish and Wildlife Protection to report the location of untagged pots (see Appendix A for contact information).

BUOY MARKING REQUIREMENTS

Buoys attached to pots must comply with 5 AAC 35.051 *TANNER CRAB GEAR MARKING REQUIREMENTS* listed on page 128 and 5 AAC 35.526 *TANNER CRAB POT MARKING REQUIREMENTS FOR REGISTRATION AREA J* on page 155 of the crab regulations. The buoy containing the five-digit ADF&G number may not be marked with any additional numbers; however, symbols and letters are acceptable on this buoy. Trailer buoys used to mark ownership or string sequence may be marked with any desired numbers, symbols, or letters.

The use of converted pots as ‘storage boxes’ to store crabs in the water for vessels registered as dry tanked vessels is not permitted unless the crab storage devices are attached to the vessel at all times.

ESCAPE MECHANISMS

Escape mesh or escape rings are required for all Tanner crab pots. Each pot must contain at least one third of one vertical surface of the pot composed of not less than 7¼ inch stretched mesh webbing or have no less than four circular escape rings which have an inside diameter of at least five inches. Escape rings must be installed on the vertical plane of the pot to allow for escapement of undersized crabs. Escape rings are not required to be placed within a certain distance from the bottom of the pot. However, ADF&G recommends placing rings within one mesh from the bottom of the pot to optimize escapement of undersized or female crabs. Specific regulations on escape device requirements can be found under 5 AAC 35.525 *LAWFUL GEAR FOR REGISTRATION AREA J* on page 154 of the crab regulations.

In addition to escape mesh or rings, pots must be equipped with a biodegradable escape mechanism as described in 5 AAC 39.145 *ESCAPE MECHANISM FOR SHELLFISH AND BOTTOMFISH POTS* on page 59 of the crab regulations. All pots must contain an opening 18 inches or greater in length placed within six inches of the bottom of the pot laced, sewn, or secured together by a single length of untreated, 100 percent cotton twine no larger than 30 thread.

OPERATION OF OTHER POT GEAR, POT STORAGE, AND LANDING REQUIREMENTS

Vessels or vessel operators intending to participate in the commercial Tanner crab fishery may not operate commercial, subsistence, sport, or personal use pot gear for any species in the Chignik District for 14 days prior to the start of the Chignik District Tanner crab season. However, legal Tanner crab pots with buoy tags attached may be placed into shallow water storage during the 14-day stand down period. Up to 30 pots may be stored prior to the season in waters of 25 fathoms or less with all bait and bait containers removed and the doors secured fully open (or not secured closed for cone or pyramid pots; (5 AAC 35.527(3) & 5 AAC 35.052)). Once placed into storage, vessels may not retrieve pots to attach buoy tags during the 14-day stand down period. In addition, vessels may not retrieve gear from storage during the 24-hour period between tank inspection and the fishery opening. At the time of tank inspection, all gear onboard the vessel and in the water must have buoy tags attached.

No vessel may have more than the specified pot limit onboard or in wet storage within the district while the vessel is registered for Tanner crab. Additional information concerning pot storage can be found at 5 AAC 35.527 *TANNER CRAB POT STORAGE REQUIREMENTS FOR REGISTRATION AREA J* on page 156 of the crab regulations.

After closure of the Tanner crab season, vessels intending to participate in the Pacific cod fishery must either remove all pots from the water or place pots into shallow-water storage then register with ADF&G for the Pacific cod fishery. Additional provisions on the operation of other pot gear within the Chignik District can be found under 5 AAC 35.053 *OPERATION OF OTHER POT GEAR* on page 129 of the crab regulations.

TANK INSPECTION

Tank inspection may be required for vessels with circulating sea water systems. Circulating sea water systems include on-deck containers with water circulated by pumps, hoses, or other means. Onboard pot gear will be examined at the time of tank inspection to ensure all gear is in compliance with area regulations. If conducted, tanks inspections will begin at 12:00 noon on

January 14 in Chignik Bay and Sand Point. Upon completion of the tank and gear inspection, a valid 2011 shellfish registration will be issued to the vessel. A copy of the registration must remain onboard the vessel while fishing. The registration becomes invalid 24 hours after the closure of the fishery. If the Tanner crab fishery is open, vessels must invalidate their registration prior to participating in other fisheries by contacting ADF&G in Kodiak (Appendix A). If tank inspection requirements are waived in the Chignik District, ADF&G will notify participants by news release at 12:00 noon on January 14.

TANNER CRAB SIZE LIMIT

The minimum legal size of Tanner crabs in the Chignik District is 5.5 inches (140 mm) carapace width (CW). Only legal-size male crabs can be retained; all other crabs incidentally captured must be immediately returned to the water unharmed. King crab may not be legally retained for subsistence or personal use during a commercial Tanner crab fishery.

CLOSED WATERS

During the 2011 season, inside waters of Castle Bay west of 158°14.42' W Long (Figure 2) will be closed to all commercial Tanner crab harvest. Based on 2010 trawl survey results, the abundance of female and sublegal male Tanner crab exceeded the abundance of legal male Tanner crab. Therefore, inside waters of Castle Bay will remain closed to prevent excessive handling of noncommercial crab.

SUMMARY OF FISHERY CLOSURE SCENARIOS

Delivery requirements, post-closure pot storage requirements, and re-registration requirements vary depending on the type of closure (entire or partial district) and the amount of advance notice given for the closure. Following is a summary of closure scenarios, pot storage options, delivery requirements, and re-registration requirements contained in 5 AAC 35.030, 5 AAC 35.031, 5 AAC 35.052, 5 AAC 35.527, and 5 AAC 35.556.

Closure of the entire district with 6 or more hours advance notice.

- Vessel operators are required to deliver all catch within 24 hours of the closure.
- All pots must be unbaited at the time of the closure.
- Pots may be stored in the water without bait and with doors secured at any depth up to **7 days** after the closure of the commercial Tanner crab season (5 AAC 35.527 (3)).

Closure of the entire district with less than 6 hours advance notice.

- Vessel operators are required to proceed directly to port at the time of the closure and deliver catch within 24 hours.
- Vessel operators may not place gear in storage or retrieve pots from storage until all catch has been delivered.
- Vessel operators are required to return to the fishing grounds within 72 hours after delivery to 'rail dump' all crab from baited gear left on the grounds.

Partial closure of the district with 6 or more hours advance notice.

This situation occurs when bays or other specific areas close prior to closure of the entire district.

- Vessel operators may be required to deliver all catch within 24 hours of the closure. Any changes to the delivery requirement will be provided by news release at the time of the closure announcement.
- Pot gear in the closed area must be unbaited at the time of the closure.
- Vessel operators may store pots in waters deeper than 25 fathoms for 72 hours in closed waters.
- Vessel operators may place baited gear in waters that remain open to fishing provided all catch is delivered within 24 hours of the partial closure.

Partial closure of the district with less than 6 hours advance notice.

This scenario is unlikely. Should this type of closure occur, landing, pot storage, and re-registration requirements will be defined by news release at the time of the closure announcement.

Vessel operators intending to deliver to ports outside the Chignik District are required to contact the ADF&G office in Kodiak, or ADF&G personnel in Sand Point if available, prior to leaving the district. Vessels delivering outside the district must provide the estimated number of crabs onboard the vessel at the time of the closure, delivery location and processing facility, and estimated time of arrival. Additional requirements for mechanically disabled vessels are found in 5 AAC 35.052(3). Delays due to weather will be addressed on an individual basis (5 AAC 35.031 *TANNER CRAB LANDING REQUIREMENTS* page 126–127 of the crab regulations).

INSEASON FISHERY MANAGEMENT

ADF&G will manage nearshore and offshore areas independently based on results from the 2010 trawl assessment survey. The distribution and abundance of legal-sized crabs varies by location (Figure 3). Individual areas within the district may close to prevent overharvest of localized crab populations while other locations within the district remain open.

Fishery performance as measured by catch per unit effort (CPUE) of legal crabs will be closely monitored as will reports of undersized and/or female crabs. Given the Chignik District Tanner crab stock is rebuilding, closures may occur before the total GHL is achieved if CPUE indicates the number of legal-sized males has substantially declined or if excessive handling of sublegal and female crabs is reported. The regulatory season closure date is March 31.

INSEASON CATCH REPORTING

ADF&G will manage the Chignik District commercial Tanner crab fishery from inseason catch reports provided by vessels and processors. Inseason reports allow for real-time fishery management and the flexibility to consider impacts due to changes in effort, fleet behavior, and weather. ADF&G will make every effort to allow sufficient time for vessels to configure gear for storage before a closure; however, the potential exists for short advance notice closures.

Effective fisheries management requires timely and accurate fishery performance information. All vessels are strongly encouraged to participate in the reporting process. Each vessel will be issued 2011 reporting worksheets during registration. Reports will be taken by telephone

(Kodiak Office 907-486-1853), satellite dispatch system, or e-mail. The ADF&G Kodiak office uses the Matrix¹ dispatch service. **The Kodiak office Matrix dispatch number is 7894.** Vessel operators will be asked for their preferred reporting method at the time of registration.

Reports from vessel operators will be initially taken at 9:00 am daily. Depending on effort, the department may change the reporting schedule at any time during the season. Encryption codes will be provided to vessels operators during registration. Vessel operators are not required to encrypt daily harvest reports but codes may be used at any time to transmit confidential catch information.

Closure announcements or changes to the reporting schedule will be communicated to the fleet by dispatch service and through participating processors. Current fishery status will also be available on the ADF&G recorded information phone at 907-486-4559, option 2. Inseason updates, changes to the reporting schedule, and closure announcements will additionally be distributed via e-mail and fax, and communicated directly to all participating processing facilities.

SEMIDI ISLAND OVERLAP SECTION

When either the Chignik District or Southwest Section of the Kodiak District are open to commercial Tanner crab fishing, vessels from the Chignik District or Kodiak District may target Tanner crab in the Semidi Island Overlap Section (Figure 1). There is no Tanner crab GHL established for the overlap section.

- All vessels must register with ADF&G to fish in the Semidi Island Overlap Section. **A Chignik District registration is not valid for the Semidi Island Overlap Section.**
- Vessels registered for the Semidi Island Overlap Section may not fish outside the Semidi Island Overlap Section unless they invalidate their Semidi Island Overlap Section registration through ADF&G.
- **Vessels registered for the Semidi Island Overlap Section must report catch.** Vessel operators must provide daily reports containing total catch, fishing location, and effort via radio, phone, satellite dispatch system or e-mail. Alternatively, vessel operators may complete logbooks documenting daily catch, fishing location and effort. Logbooks must be submitted with fish tickets following each delivery.
- The **Semidi Island Overlap Section pot limit is 70 aggregate pots.** Unique buoy tags are required for gear operated in the Semidi Island Overlap Section. However, vessel operators that were previously issued buoy tags for the Chignik or Kodiak District may use those buoy tags in the overlap section. All additional pots must have unique Semidi Island Overlap Section tags attached. Semidi Island Overlap Section tags are available from ADF&G in Kodiak (907-486-1840).
- Landing requirements for the Semidi Island Overlap Section.
 - Vessels fishing in the Chignik District that intend to switch to the Semidi Island Overlap Section are not required to deliver prior to changing registrations; however, those vessels must report to ADF&G an accurate estimate of pounds onboard prior to registering for the Semidi Island Overlap Section.

¹ Use of trade names does not constitute an endorsement by ADF&G.

- Vessels fishing in the Semidi Island Overlap Section switching to the Chignik District will not be required to deliver before changing registrations; however, vessels must report an accurate estimate of pounds onboard prior to registering for the Chignik District.
- If the Semidi Island Overlap Section is closed, vessels fishing may be required to deliver before registering for another area. If the delivery requirement is waived vessels must report to ADF&G an accurate estimate of pounds onboard prior to registering for the Chignik District.

PARTICIPATION IN NON-CRAB FISHERIES

The Chignik District Tanner crab fishery may be open concurrent to other commercial fisheries such as Western Gulf of Alaska (WGOA) walleye pollock fishery. While registered for the Tanner crab fishery, state regulations prohibit vessels from participating in any other commercial fishery using pot gear. However, vessels may unregister from the Tanner crab fishery, fish for walleye pollock in the federally managed fishery, and subsequently re-register to harvest Tanner crab. Under this scenario all pelagic trawl vessels must:

- Remove bait and secure open all Tanner crab pots before leaving the crab grounds.
- Contact ADF&G in Kodiak to unregister for the Tanner crab fishery and report;
 1. Estimated number or pounds of Tanner crab onboard the vessel.
 2. Location and number of Tanner crab pots used by the vessel.
 3. Anticipated date when vessel will re-enter the Tanner crab fishery.
- Deliver all Tanner crab prior to entering the groundfish fishery.
- Contact ADF&G in Kodiak to re-register for Tanner crab prior to operating any crab pots.

Additional federal fisheries regulations may apply. Vessel operators are strongly encouraged to contact NOAA Fisheries for specific details on federal groundfish fisheries. (Appendix A).

REFERENCE CITED

Urban, D., D. Pengilly, D. Jackson, and I. Vining. 1999. A Tanner crab harvest strategy for Kodiak, Chignik, and the South Peninsula Districts, a report to the Board of Fisheries. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K99-21, Kodiak.

FIGURES

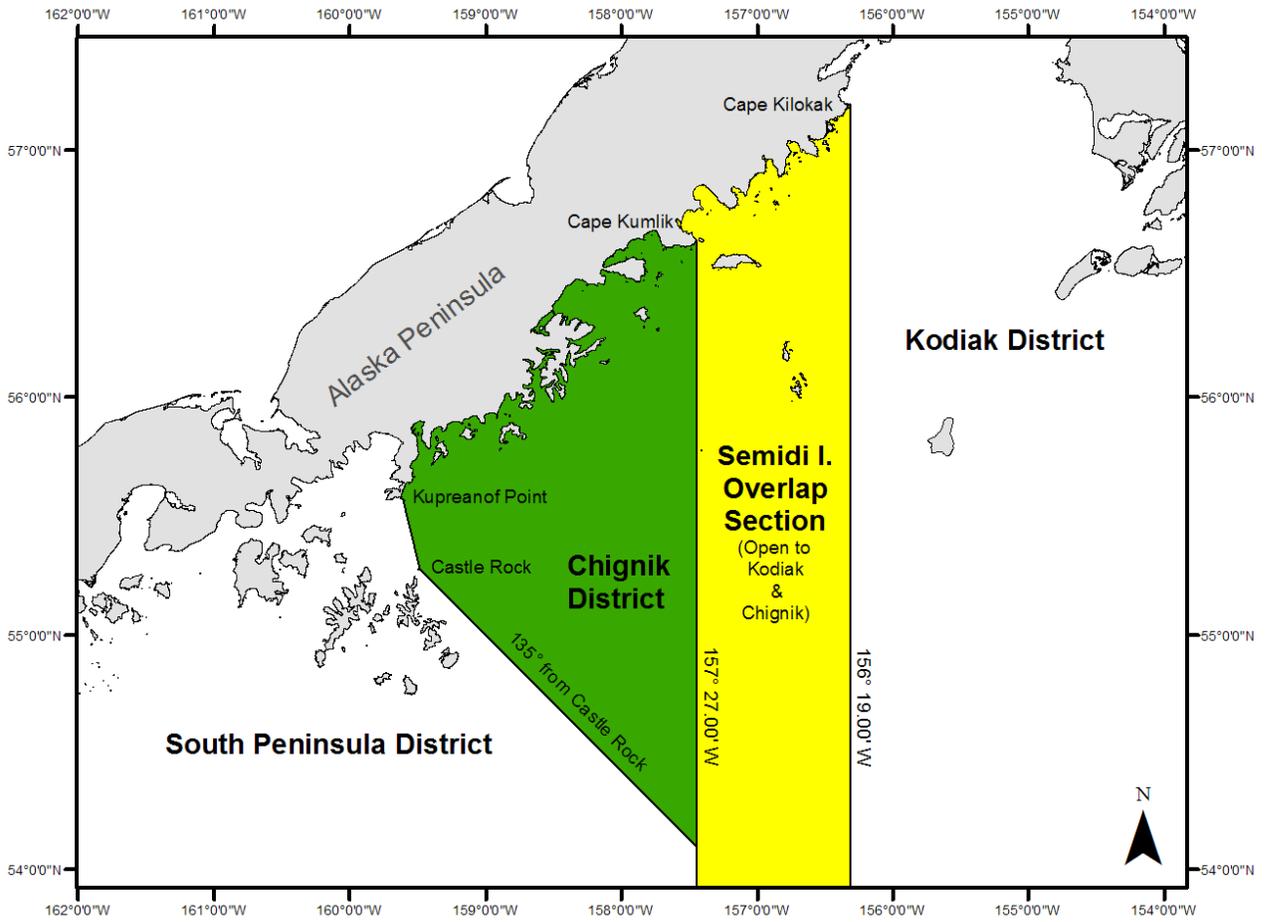


Figure 1.—Chignik District and Semidi Island Overlap Section of the Kodiak District.

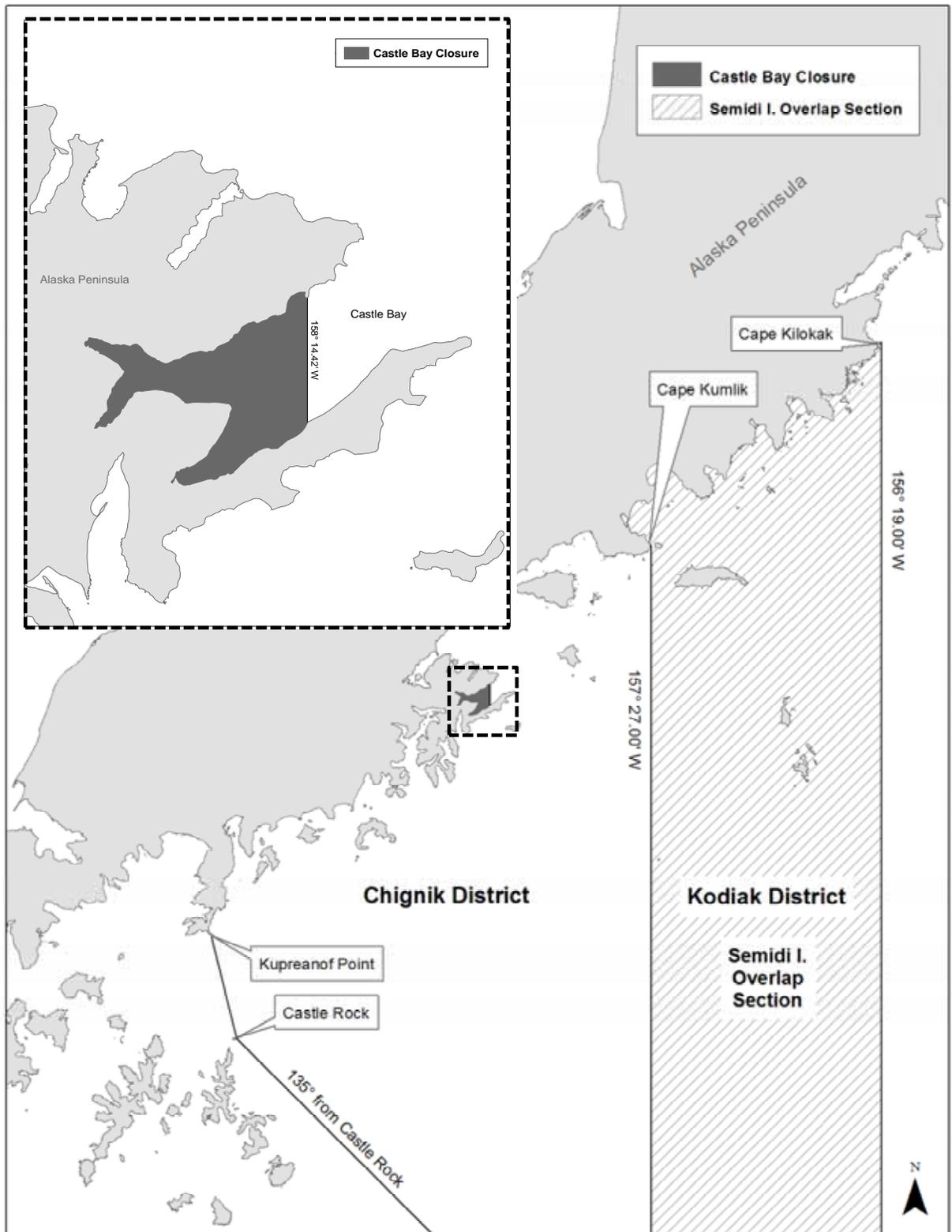


Figure 2.—Chignik District showing Castle Bay closed waters.

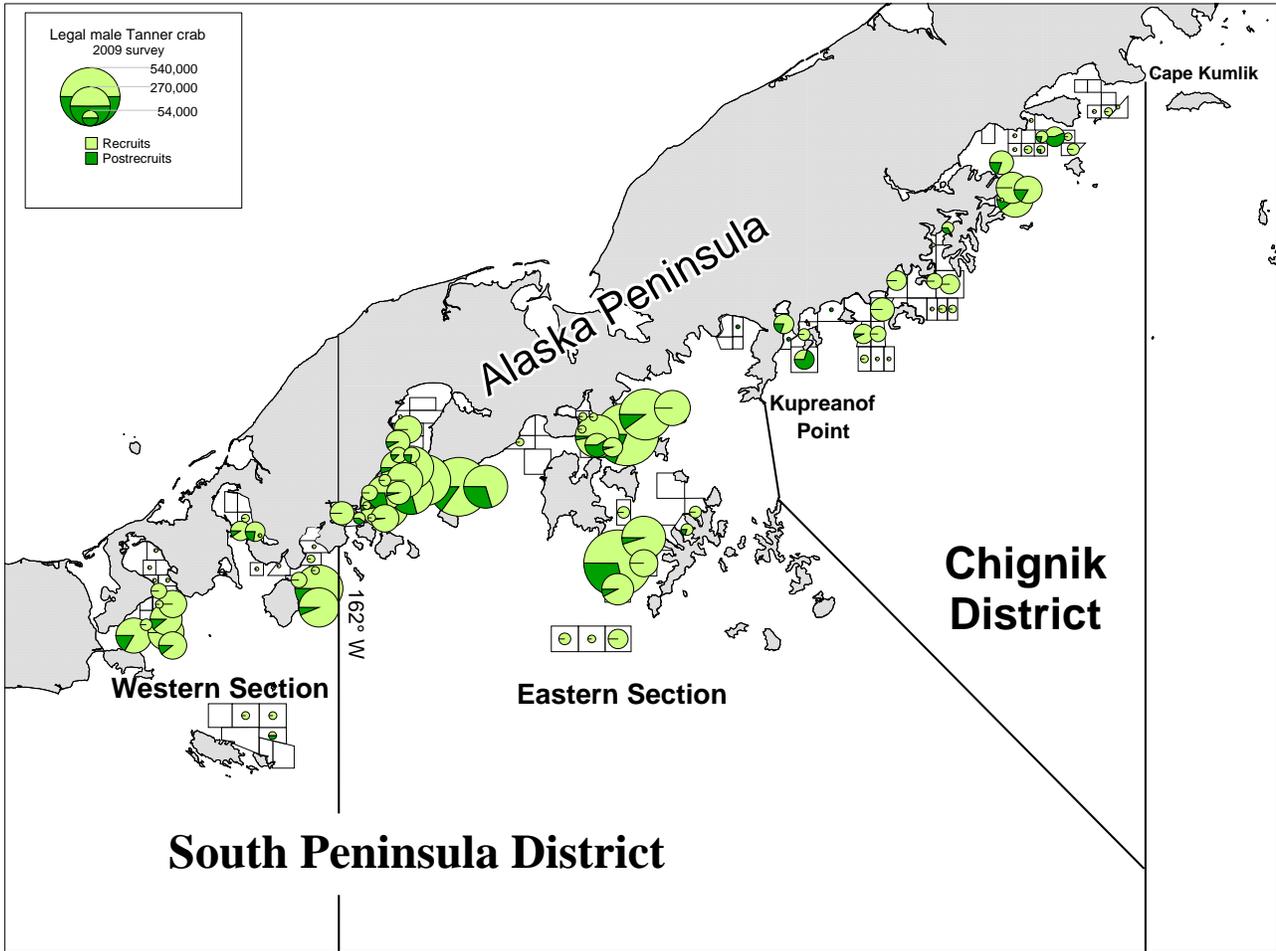


Figure 3.—Population estimates of legal-size Tanner crabs in the Chignik and South Peninsula districts from the 2009 trawl survey.

**APPENDIX A. LIST OF FISHERY CONTACTS, BY
AGENCY AND LOCATION**

Appendix A1.–List of fishery contacts by agency and location.

Alaska Department of Fish and Game

web site: <http://www.cf.adfg.state.ak.us/region4/rgn4home.php>

Kodiak Office

Mail Address: 211 Mission Road
Kodiak, Alaska 99615

Physical Address: 211 Mission Road
2nd floor, Kodiak, Alaska

Phone: (907) 486-1840
Record-A-Phone: (907) 486-4559
FAX: (907) 486-1824

Wayne Donaldson	Westward Region Shellfish/Groundfish Biologist	wayne.donaldson@alaska.gov
Nick Sagalkin	Kodiak, Chignik, Alaska Peninsula Area Shellfish/Groundfish Biologist	nick.sagalkin@alaska.gov
Mark Stichert	Kodiak, Chignik, Alaska Peninsula Shellfish/Groundfish Biologist	mark.stichert@alaska.gov
Kally Spalinger	Kodiak, Chignik, Alaska Peninsula Shellfish/Groundfish Biologist	kally.spalinger@alaska.gov

Dutch Harbor Office

Mail Address: P. O. Box 920587
Dutch Harbor, Alaska 99692

Physical Address: F.T.S. building, 2nd floor
Airport Beach Road, Dutch Harbor

Phone: (907) 581-1239
FAX: (907) 581-1572

Division of Alaska Wildlife Troopers

web site: <http://www.dps.state.ak.us/AWT/>

Kodiak Office

Mail Address: 2921 A Mill Bay Road
Kodiak, Alaska 99615

Physical Address: 2921 A Mill Bay Road
Kodiak, Alaska

Phone: (907) 486-4762
FAX: (907) 486-5480

Paul Fussey	Post Sergeant	paul.fussey@alaska.gov
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Commercial Fisheries Entry Commission

web site: <http://www.cfec.state.ak.us/>

Mail Address: 8800 Glacier Highway
Juneau, Alaska 99811-0302

Physical Address: 8800 Glacier Highway #109
Juneau, Alaska

Phone: (907) 789-6150
FAX: (907) 789-6170

National Marine Fisheries Service – ALASKA REGION

web site: <http://www.alaskafisheries.noaa.gov/>

Sustainable Fisheries Division

Juneau Office

Phone: (800) 304-4846 #3

Dutch Harbor Office

Phone: (907) 581-2062

Kodiak Office

Phone: (907) 481-1780

NOAA Fisheries Enforcement

Dutch Harbor Office

Phone: (907) 581-2061

Kodiak Office

Phone: (907) 486-3298
