
2021 Tanner crab *Chionoecetes bairdi* Bottom Trawl Survey results for the Eastern Aleutian District



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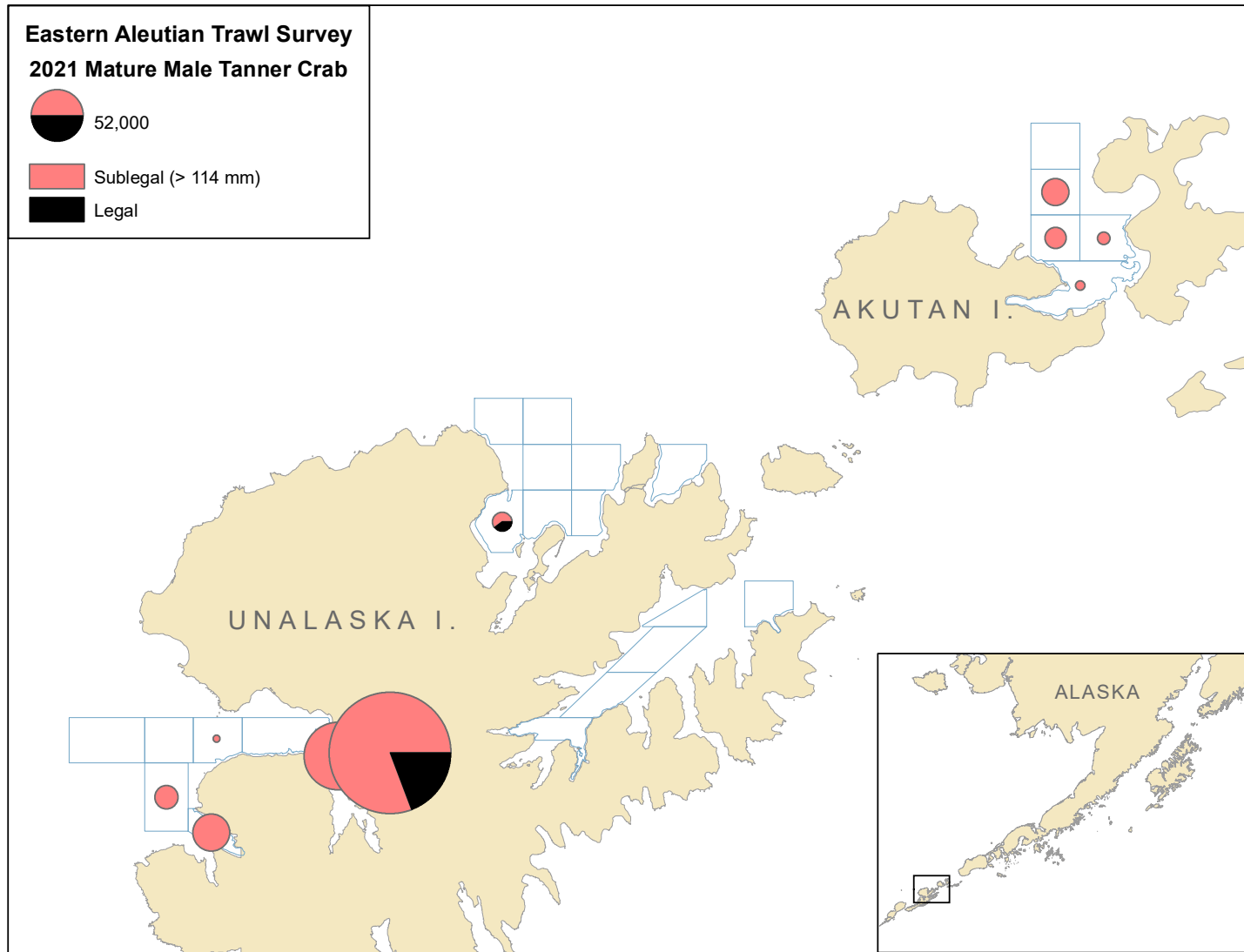


Figure 1.—Abundance estimates of mature male Tanner crab in the Eastern Aleutian District from the 2021 Eastern Aleutian trawl survey.

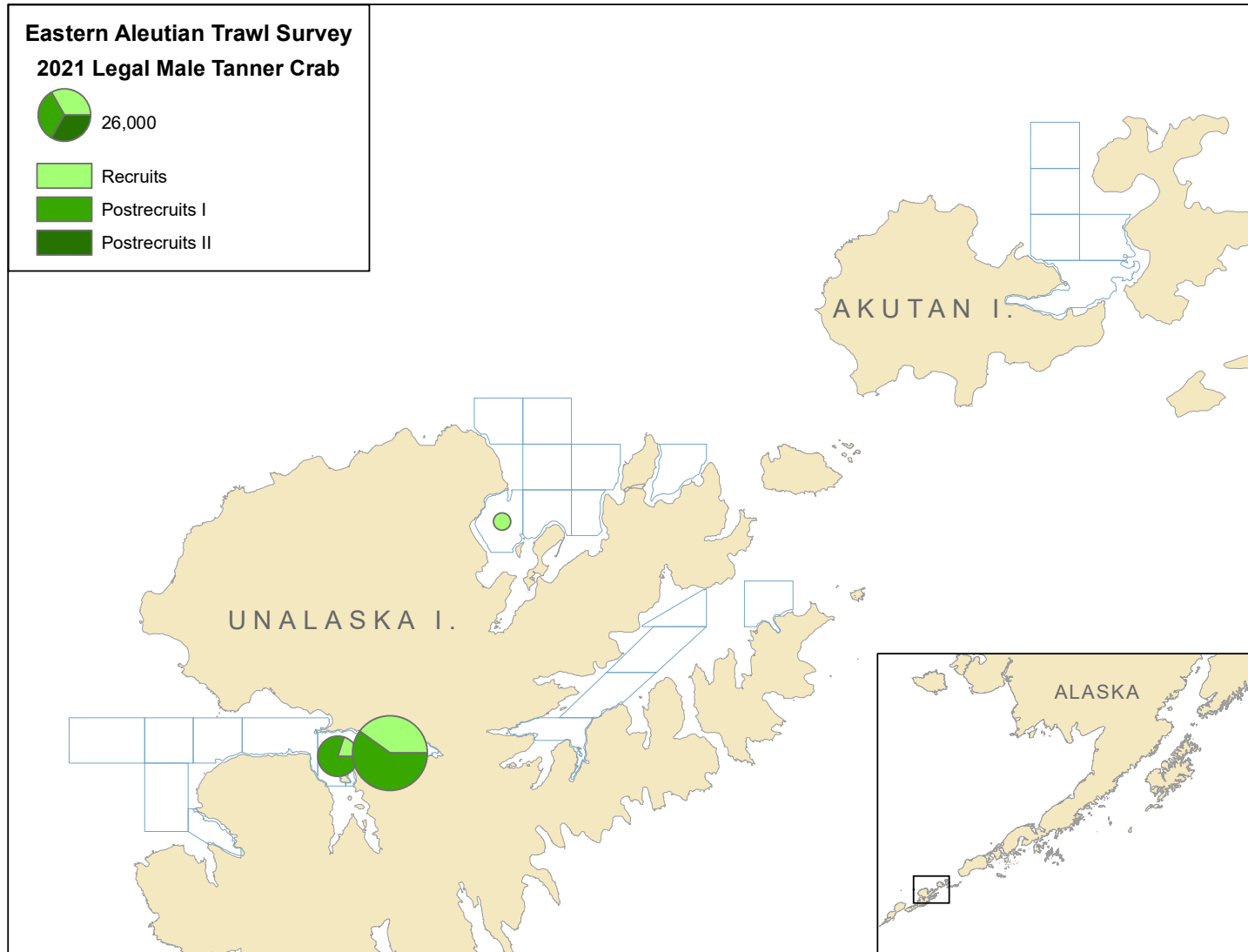


Figure 2.—Abundance estimates of legal-size male Tanner crab in the Eastern Aleutian District from the 2021 Eastern Aleutian trawl survey.

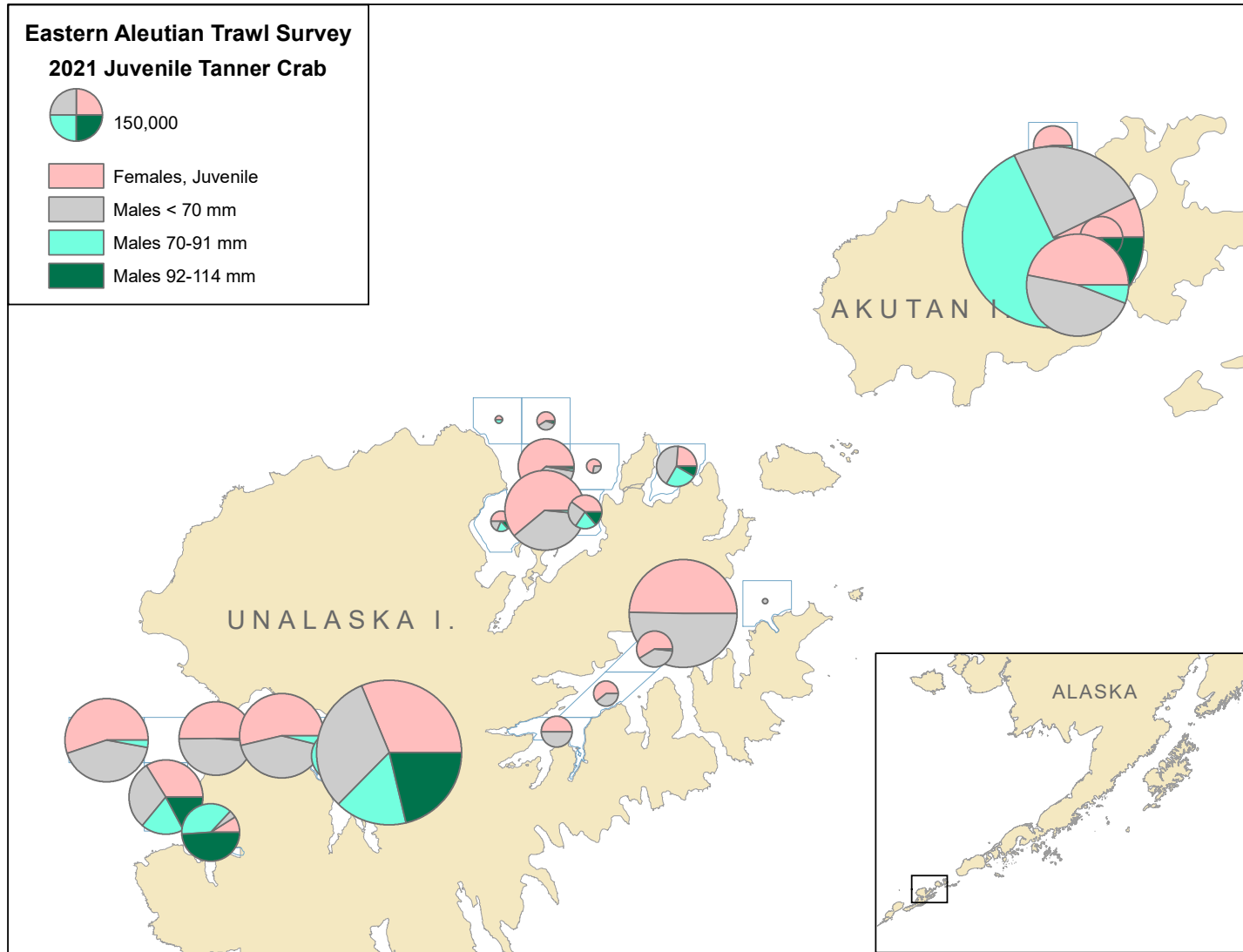


Figure 3.—Abundance estimates of juvenile Tanner crab in the Eastern Aleutian District from the 2021 Eastern Aleutian trawl survey.

Eastern Aleutian

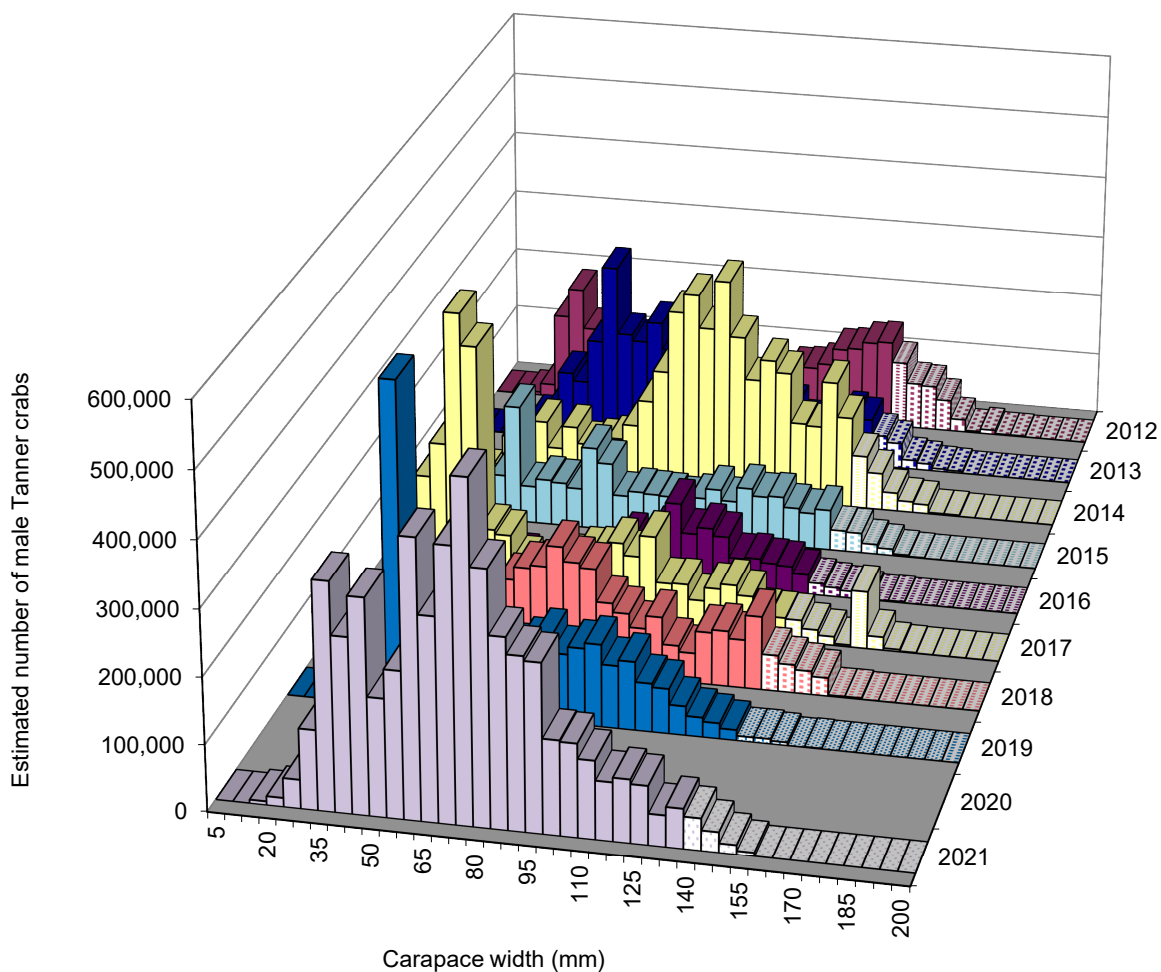


Figure 4.—Male Tanner crab abundance estimates by size, 2012–2021 Eastern Aleutian District trawl surveys (legal crab lightly shaded).

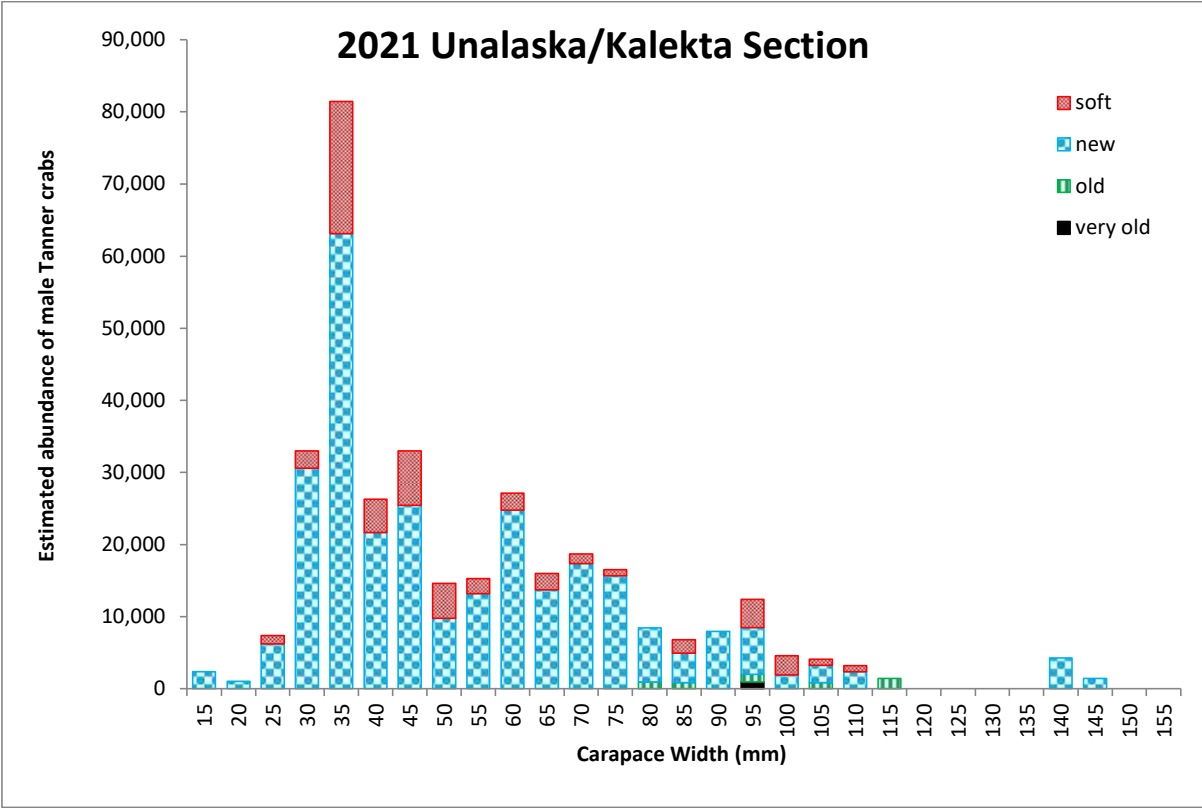
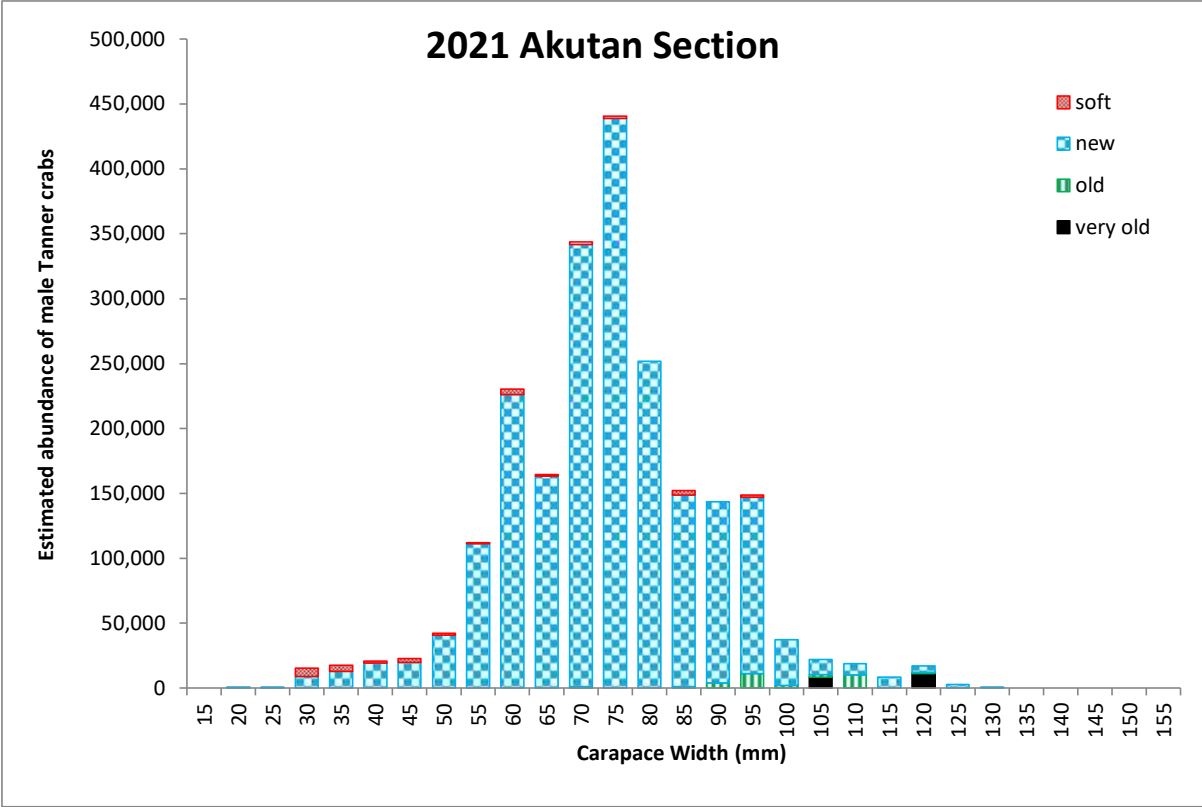


Figure 5.—Estimated abundance of male Tanner crabs in the Akutan and Unalaska/Kalekta Sections of the Eastern Aleutian District by size and shell condition, 2021 trawl survey.

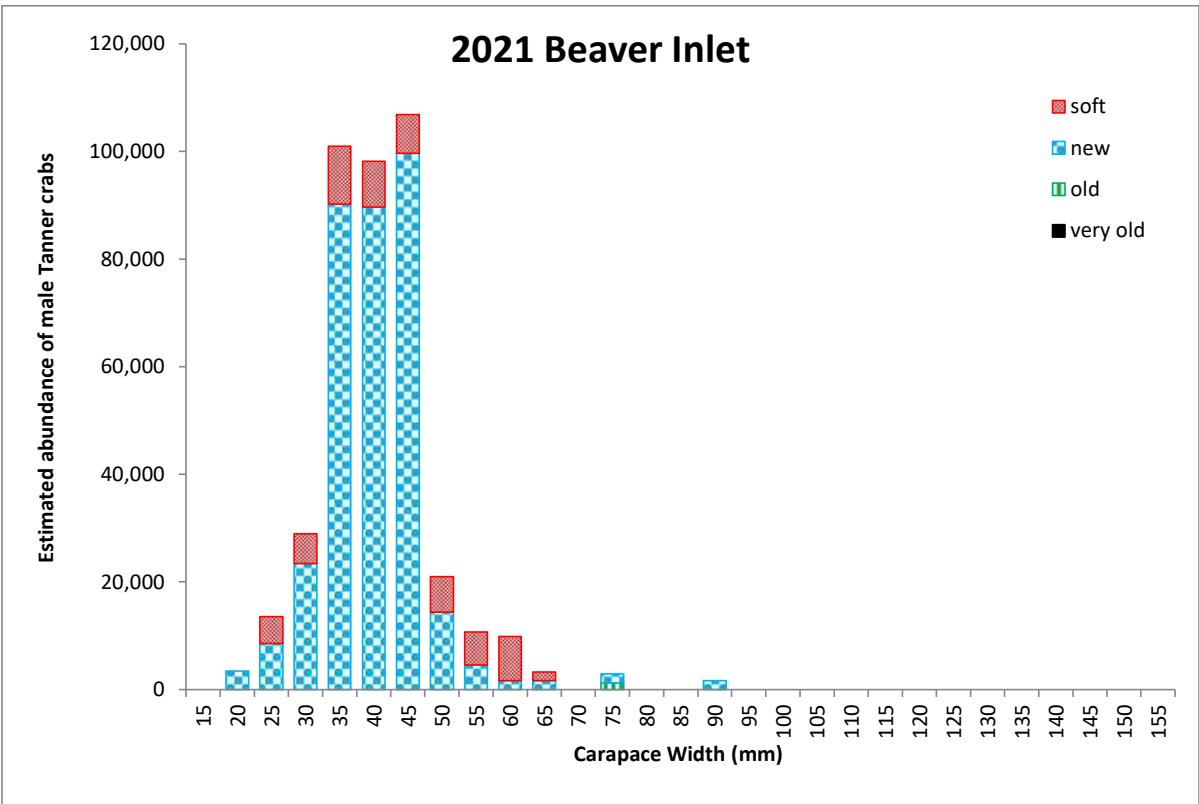
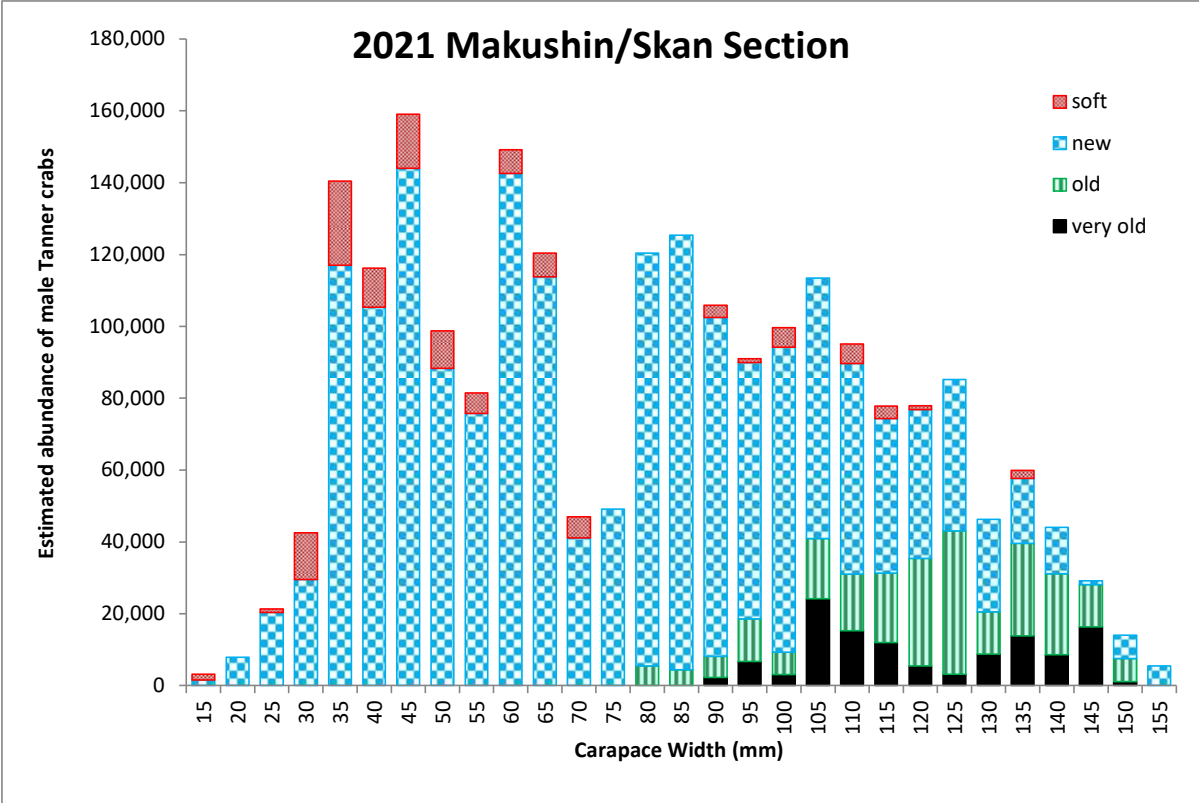


Figure 6.—Estimated abundance of male Tanner crabs in the Makushin/Skan Section and Beaver Inlet of the Eastern Aleutian District by size and shell condition, 2021 trawl survey.

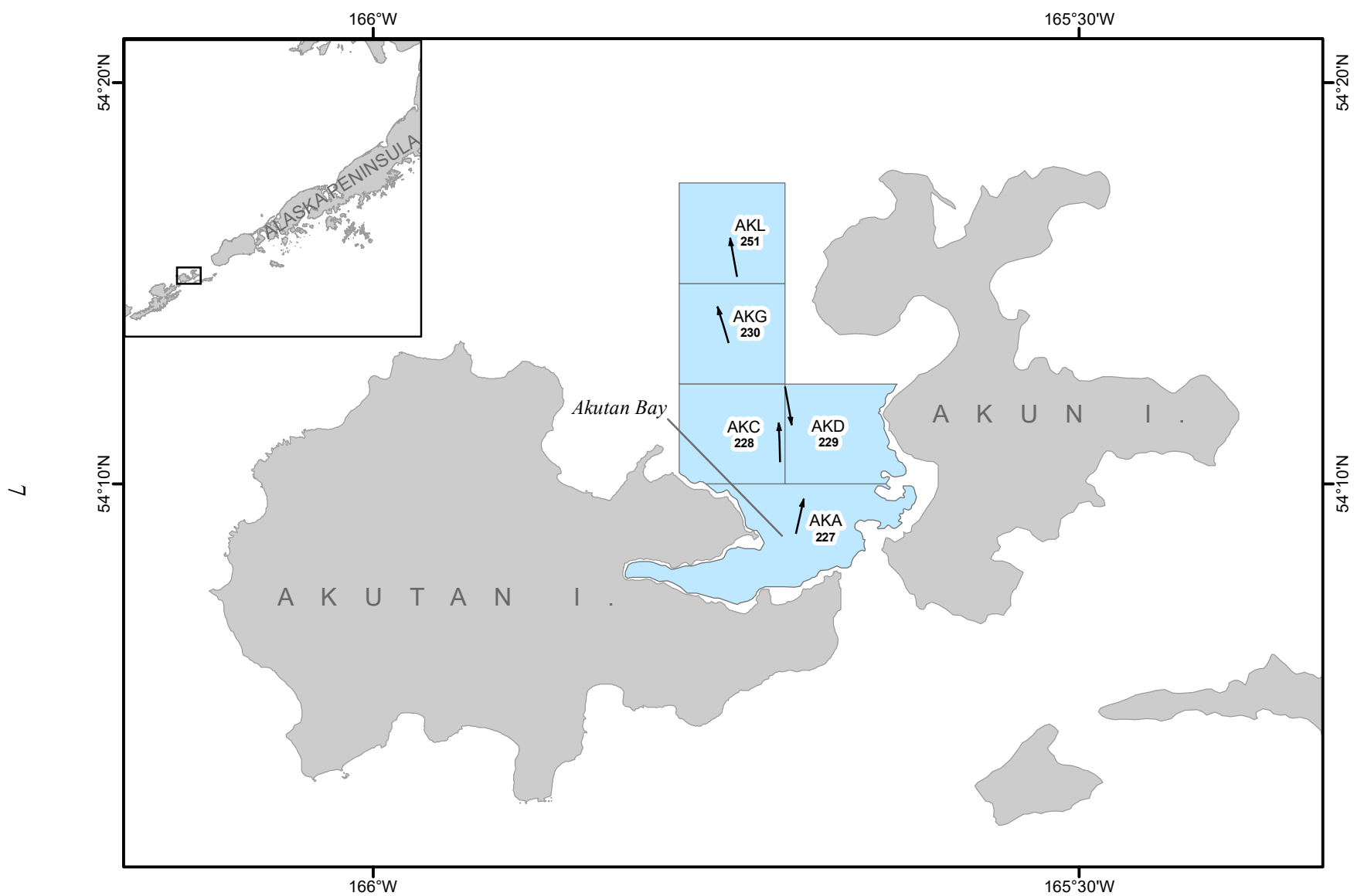


Figure 7.—Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Akutan Bay, 2021.

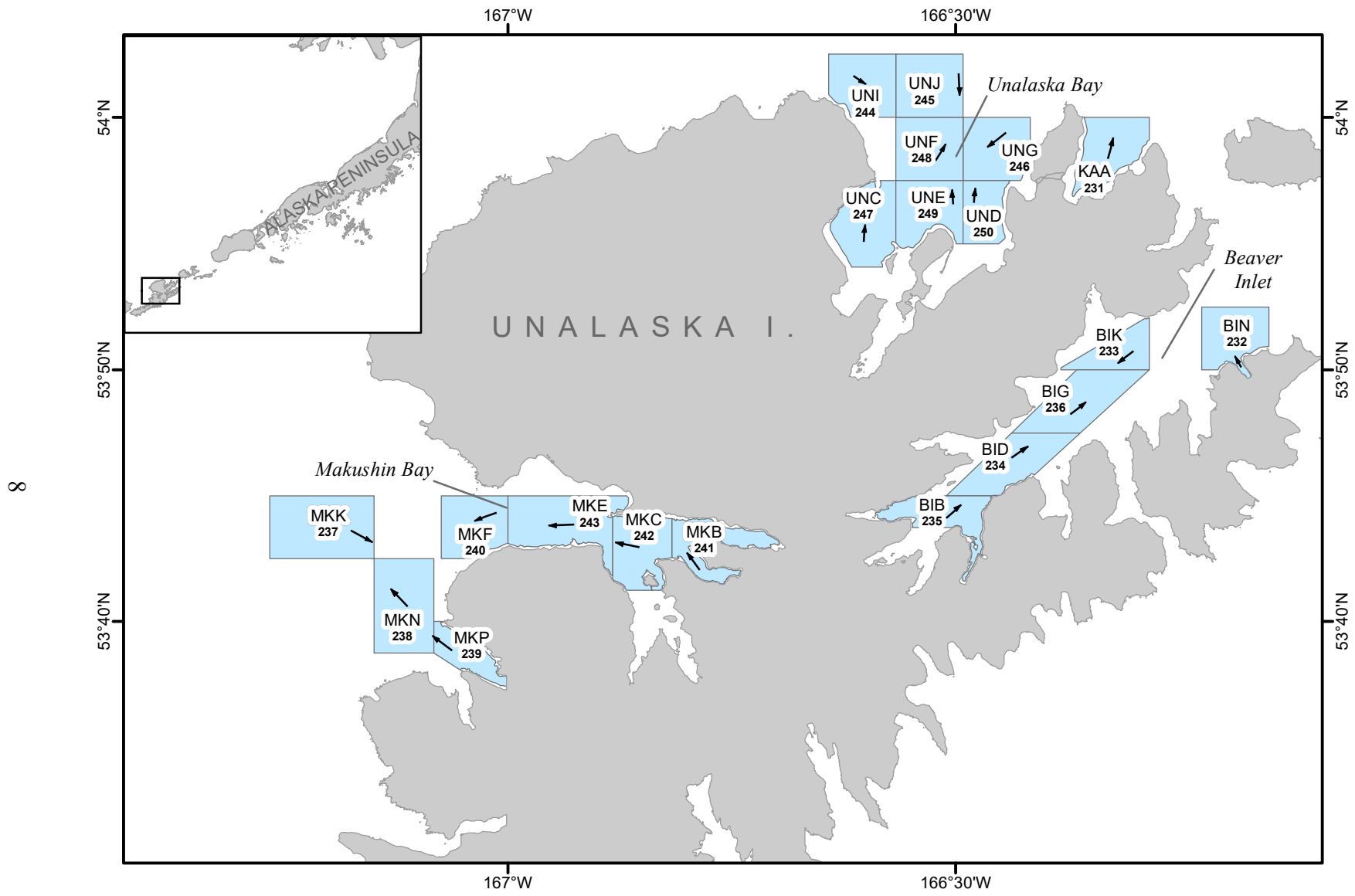


Figure 8.—Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Unalaska Bay, Makushin Bay, and Beaver Inlet, 2021.

Table 1.—Abundance estimates of Tanner crab in the Eastern Aleutian District by station, 2021.

Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males (CW)		Legal males	Total males	Total crab
		Juvenile	Adult	Total	<70 mm	70–91 mm	92–114 mm	>114 mm		<165 mm	≥165 mm			
Akutan Bay Section														
AKA	227	272,558	52,227	324,784	274,190	34,274	4,896	1,632	0	0	0	0	314,992	639,776
AKC	228	131,945	19,192	151,137	461,499	1,085,376	170,925	8,546	0	0	0	0	1,726,347	1,877,484
AKD	229	52,497	320,607	373,104	13,929	20,894	14,924	2,985	0	0	0	0	52,732	425,836
AKG	230	4,747	37,026	41,773	949	9,494	56,963	14,241	0	0	0	0	81,646	123,419
AKL	251	44,621	0	44,621	37,975	1,899	0	0	0	0	0	0	39,874	84,494
Total		506,368	429,052	935,419	788,542	1,151,937	247,708	27,404	0	0	0	0	2,215,591	3,151,009
Unalaska/Kalekta Bay Section														
UNI	244	1,456	0	1,456	0	1,456	0	0	0	0	0	0	1,456	2,911
UNJ	245	10,549	22,152	32,701	6,329	0	1,055	0	0	0	0	0	7,384	40,085
UNG	246	8,439	0	8,439	3,165	0	0	0	0	0	0	0	3,165	11,603
UNC	247	11,440	42,901	54,341	4,290	4,290	2,860	4,290	2,860	0	0	2,860	18,590	72,932
UNF	248	106,805	10,680	117,485	62,896	2,373	2,373	0	0	0	0	0	67,643	185,128
UNE	249	216,731	13,215	229,946	133,475	5,286	2,643	0	0	0	0	0	141,404	371,350
UND	250	24,962	1,722	26,684	16,355	12,912	8,608	0	0	0	0	0	37,874	64,558
KAA	231	22,049	14,380	36,429	39,305	23,008	7,669	0	0	0	0	0	69,982	106,411
Total		402,431	105,050	507,481	265,815	49,325	25,208	4,290	2,860	0	0	2,860	347,498	854,978
Makushin/Skan Bay Section														
MKK	237	213,473	30,044	243,517	162,872	11,069	0	0	0	0	0	0	173,941	417,458
MKF	240	151,712	1,850	153,562	147,086	3,700	1,850	925	0	0	0	0	153,562	307,124
MKB	241	367,834	715,233	1,083,067	369,306	190,084	249,825	228,101	21,724	32,586	0	54,310	1,091,626	2,174,693
MKC	242	23,481	322,028	345,509	24,386	55,134	44,531	72,098	3,181	12,723	0	15,904	212,054	557,563
MKE	243	213,827	11,593	225,420	168,743	15,457	1,288	0	0	0	0	0	185,488	410,908
MKN	238	104,906	201,069	305,975	92,720	57,950	53,314	10,431	0	0	0	0	214,414	520,390
MKP	239	16,790	135,779	152,568	7,739	70,616	91,897	26,118	0	0	0	0	196,370	348,939
Total		1,092,023	1,417,596	2,509,618	972,852	404,010	442,705	337,673	24,905	45,309	0	70,214	2,227,455	4,737,075

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Table 1.—Page 2 of 2.

Station	Haul no.	Females			Number sublegal males by size (CW)				Recruit males	Postrecruit males (CW)		Legal males	Total males	Total crab
		Juvenile	Adult	Total	<70 mm	70–91 mm	92–114 mm	>114 mm		<165 mm	≥165 mm			
Beaver Inlet														
BIN	232	0	1,546	1,546	1,546	0	0	0	0	0	0	0	1,546	3,093
BIK	233	322,043	0	322,043	326,003	3,293	0	0	0	0	0	0	329,296	651,340
BID	234	21,038	0	21,038	13,675	0	0	0	0	0	0	0	13,675	34,713
BIB	235	26,848	959	27,807	26,848	0	0	0	0	0	0	0	26,848	54,656
BIG	236	42,608	0	42,608	28,823	1,253	0	0	0	0	0	0	30,076	72,684
Total		412,537	2,505	415,042	396,895	4,546	0	0	0	0	0	0	401,441	816,486
Eastern Aleutian District Total		2,413,359	1,954,203	4,367,560	2,424,104	1,609,818	715,621	369,367	27,765	45,309	0	73,074	5,191,985	9,559,548

Table 2.—Fishing log from the Eastern Aleutian District trawl survey, 2021.

Haul	227	228	229	230	231	232	233	234	235	236	237	238	239
Location	Akutan	Akutan	Akutan	Akutan	Unalaska	Beaver In.	Beaver In.	Beaver In.	Beaver In.	Beaver In.	Makushin	Makushin	Makushin
Month/Day/Year	08-08-21	08-08-21	08-08-21	08-08-21	08-09-21	08-09-21	08-09-21	08-09-21	08-09-21	08-09-21	08-10-21	08-10-21	08-10-21
Station	AKA	AKC	AKD	AKG	CAA	BIN	BIK	BID	BIB	BIG	MKK	MKN	MKP
Longitude Start (W)	165°42.04'	165°42.70'	165°42.50'	165°44.89'	166°19.80'	166°10.83'	166°18.07'	166°26.24'	166°30.62'	166°22.31'	167°10.54'	167°06.74'	167°03.77'
Latitude Start (N)	54°08.76'	54°10.55'	54°12.44'	54°13.52'	53°58.35'	53°50.10'	53°50.74'	53°46.52'	53°44.11'	53°48.24'	53°43.62'	53°40.59'	53°38.85'
Heading, Degrees	10	355	171	340	23	328	239	61	49	63	127	313	300
Average Depth (m)	71.31	87.77	87.77	98.75	76.8	65.83	287.1	252.3	173.7	248.7	118.8	135.3	142.6
Distance Fished (km)	1.666	1.852	1.852	1.852	1.666	0.926	1.481	1.481	1.481	1.481	1.852	1.852	1.852
Haul	240	241	242	243	244	245	246	247	248	249	250	251	
Location	Makushin	Makushin	Makushin	Makushin	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Akutan
Month/Day/Year	08-10-21	08-11-21	08-11-21	08-11-21	08-11-21	08-11-21	08-11-21	08-12-21	08-12-21	08-12-21	08-12-21	08-12-21	08-14-21
Station	MKF	MKB	MKC	MKE	UNI	UNJ	UNG	UNC	UNF	UNE	UND	AKL	
Longitude Start (W)	167°00.77'	166°47.14'	166°51.19'	166°55.59'	166°36.85'	166°29.81'	166°26.62'	166°36.17'	166°31.34'	166°30.17'	166°28.78'	165°44.54'	
Latitude Start (N)	53°44.34'	53°42.05'	53°42.96'	53°43.86'	54°01.63'	54°01.74'	53°59.39'	53°55.07'	53°58.27'	53°56.56'	53°56.61'	54°15.16'	
Heading, Degrees	256	312	284	271	125	189	240	352	31	359	12	345	
Average Depth (m)	193.8	100.5	177.3	197.5	82.29	164.5	87.77	142.6	151.7	113.3	78.63	102.4	
Distance Fished (km)	1.852	1.666	1.852	1.852	1.111	1.666	1.666	1.296	1.481	1.111	1.111	1.852	