
2023 Tanner crab *Chionoecetes bairdi* Bottom Trawl Survey results for the Chignik District



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TABLE OF CONTENTS

Figure		Page
1.	Mature male Tanner crab abundance estimates in the Chignik District from the 2023 Chignik trawl survey.....	1
2.	Legal-size male Tanner crab abundance estimates in the Chignik District from the 2023 Chignik trawl survey.....	2
3.	Juvenile Tanner crab abundance estimates in the Chignik District from the 2023 Chignik trawl survey.....	3
4.	Male Tanner crab abundance estimates by size, 2013–2023 Chignik District trawl surveys (legal crab lightly shaded).....	4
5.	Male Tanner crab abundance estimates by size and shell condition in Ivanof Bay and Mitrofanina Island in the Chignik District, with legal insets, 2023 trawl survey.....	5
6.	Male Tanner crab abundance estimates by size and shell condition in Chignik and Kujulik Bays in the Chignik District, with legal insets, 2023 trawl survey.....	6
7.	Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Kujulik, Chignik, and Castle Bays, 2023.	7
8.	Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Ivanof, and Kuiuhta Bays, and Mitrofanina Island, 2023.....	8
9.	Tanner crab harvest by statistical area from the 2023 Chignik District Tanner crab fishery.	9

Table		Page
1.	Tanner crab abundance estimates in the Chignik District by station, 2023.....	10
2.	Fishing log from the Chignik District trawl survey, 2023.....	12

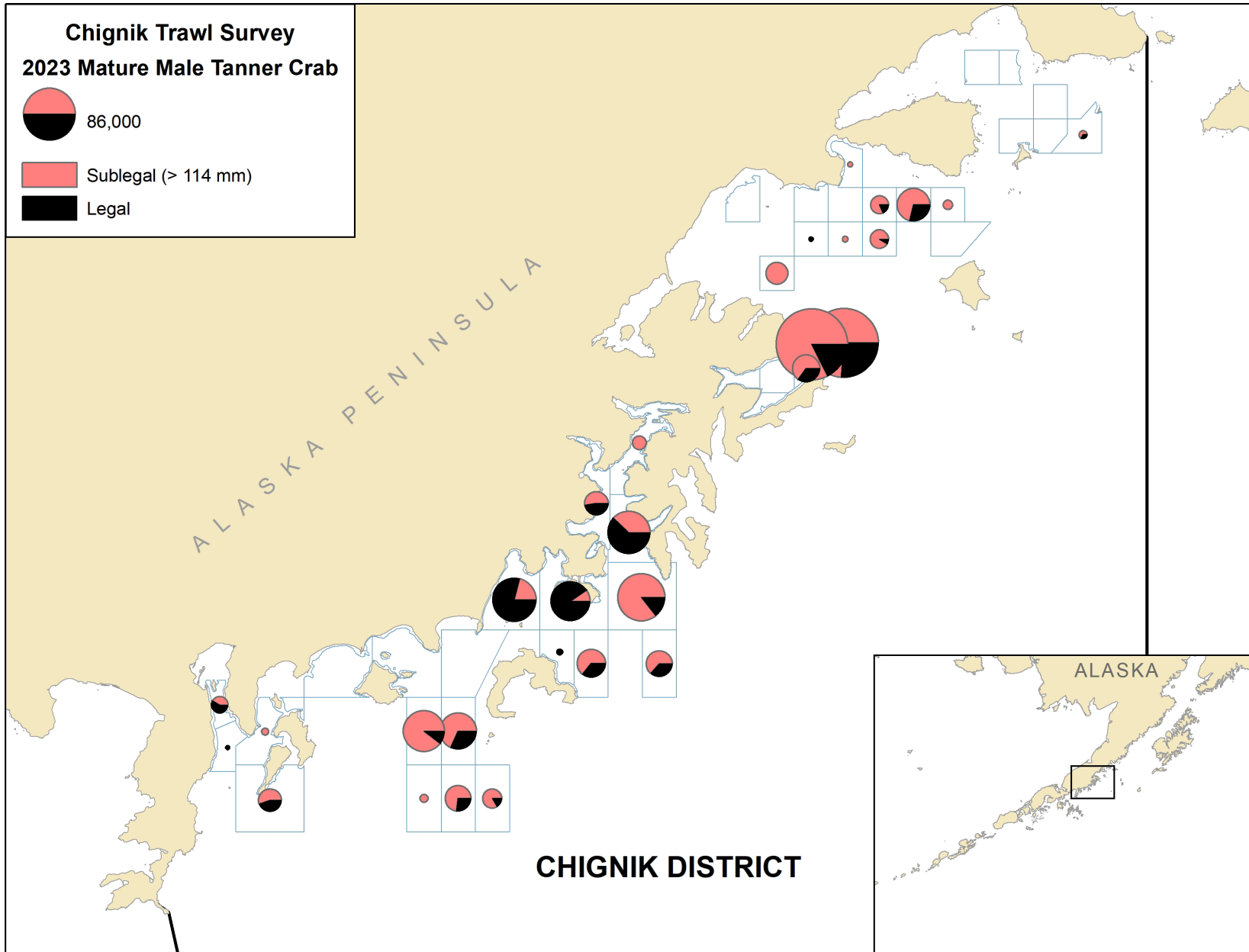


Figure 1.—Mature male Tanner crab abundance estimates in the Chignik District from the 2023 Chignik trawl survey.

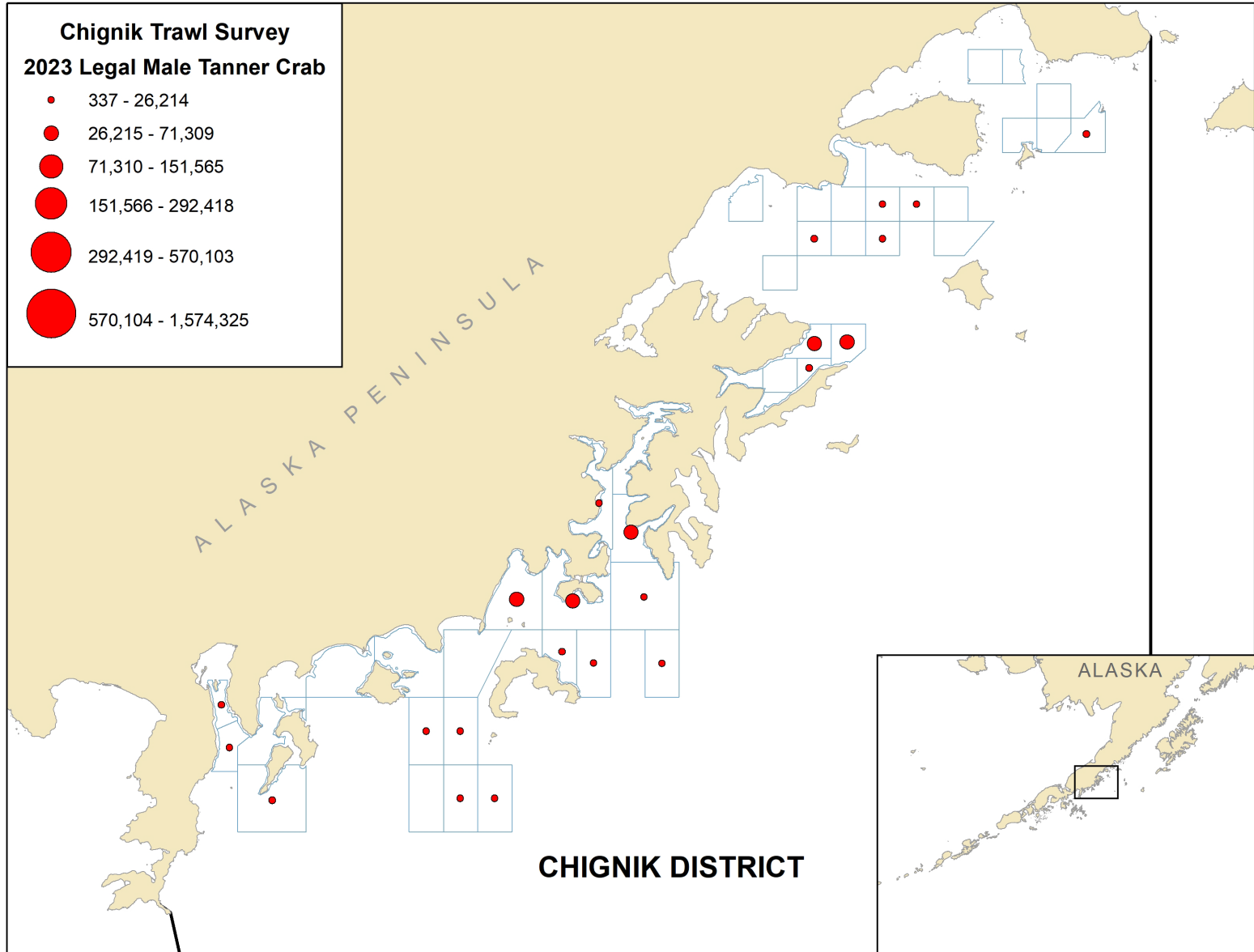


Figure 2.—Legal-size male Tanner crab abundance estimates in the Chignik District from the 2023 Chignik trawl survey.

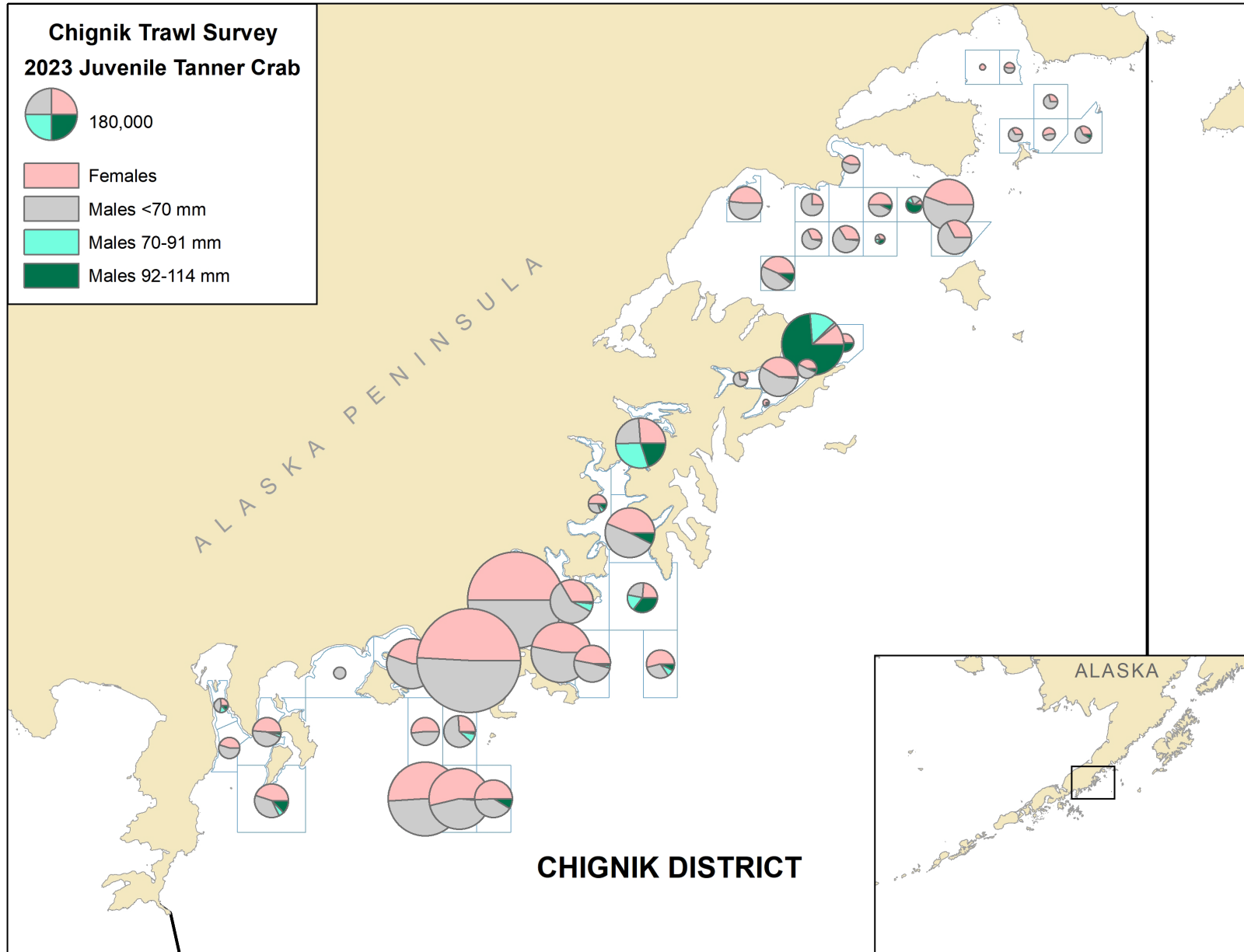


Figure 3.—Juvenile Tanner crab abundance estimates in the Chignik District from the 2023 Chignik trawl survey.

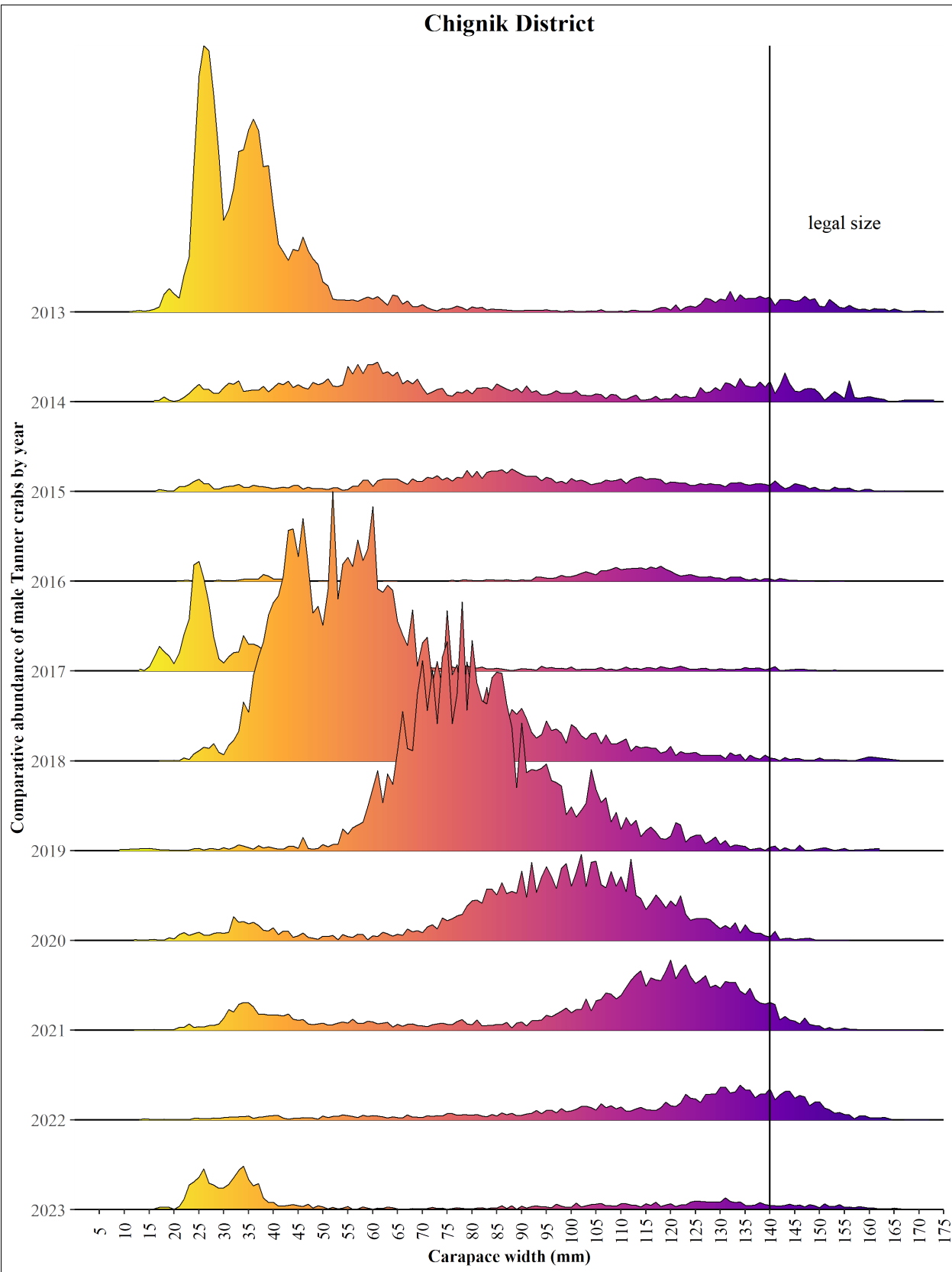


Figure 4.—Male Tanner crab abundance estimates by size, 2013–2023 Chignik District trawl surveys (legal crab lightly shaded).

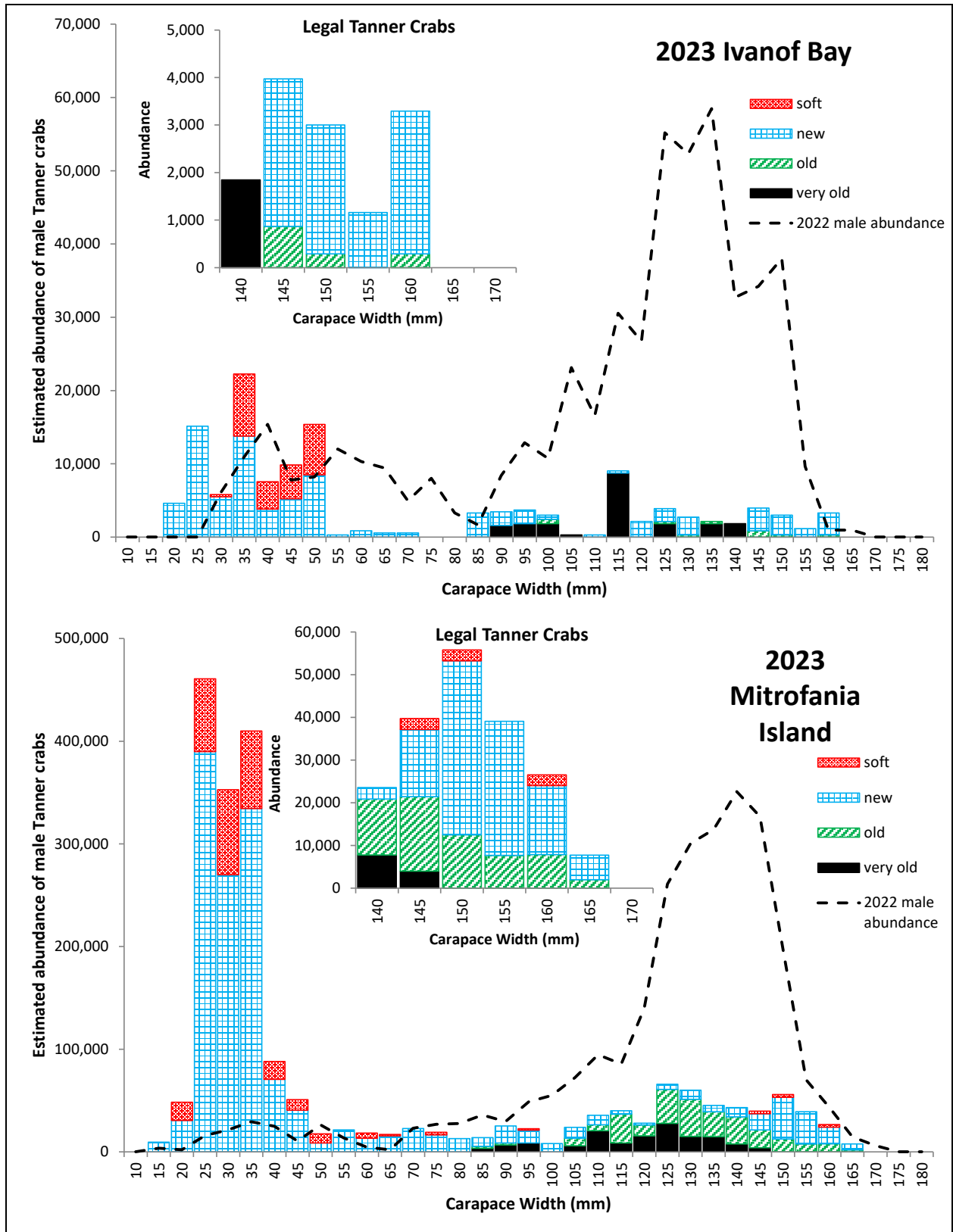


Figure 5.–Male Tanner crab abundance estimates by size and shell condition in Ivanof Bay and Mitrofanina Island in the Chignik District, with legal insets, 2023 trawl survey.

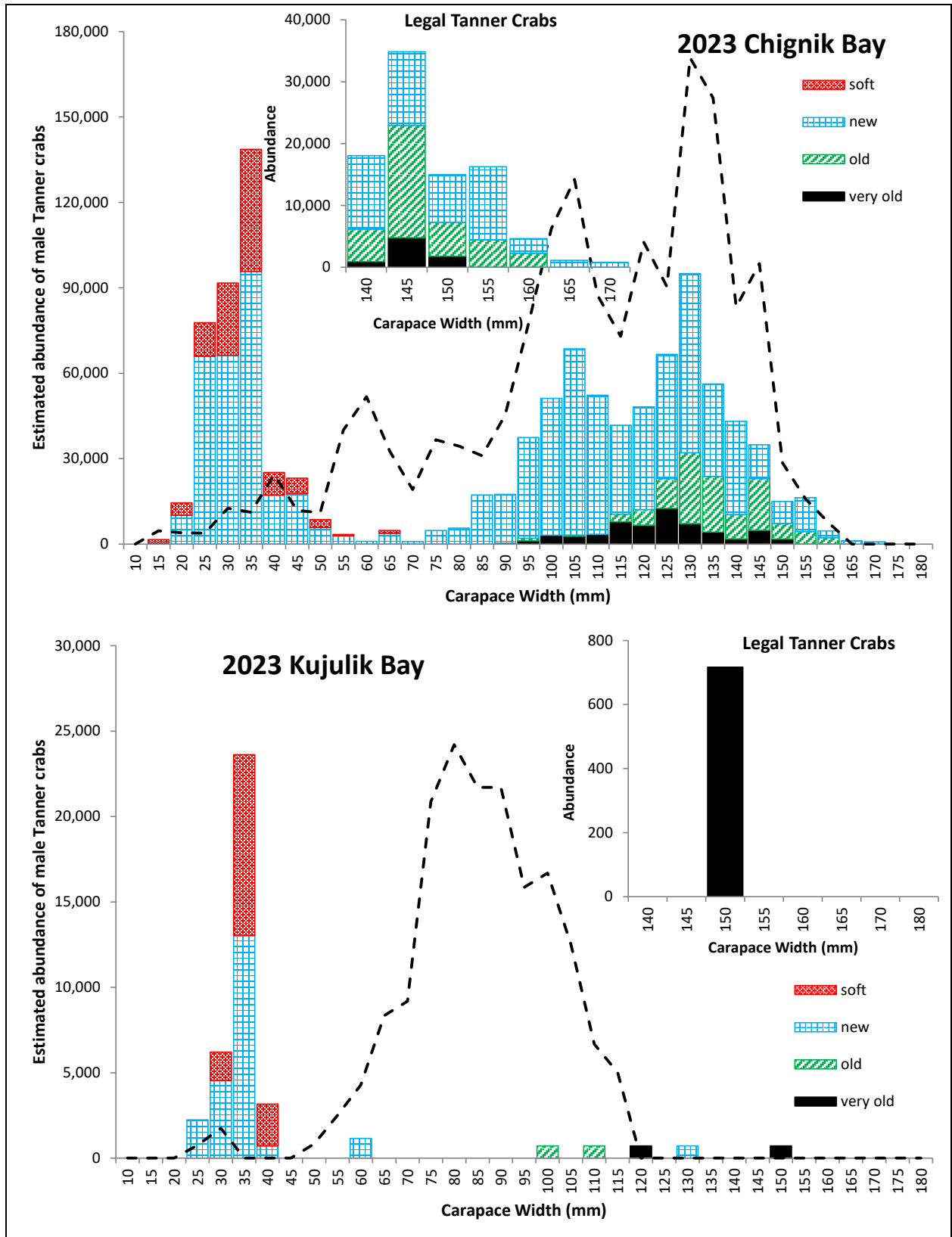


Figure 6.–Male Tanner crab abundance estimates by size and shell condition in Chignik and Kujulik Bays in the Chignik District, with legal insets, 2023 trawl survey.

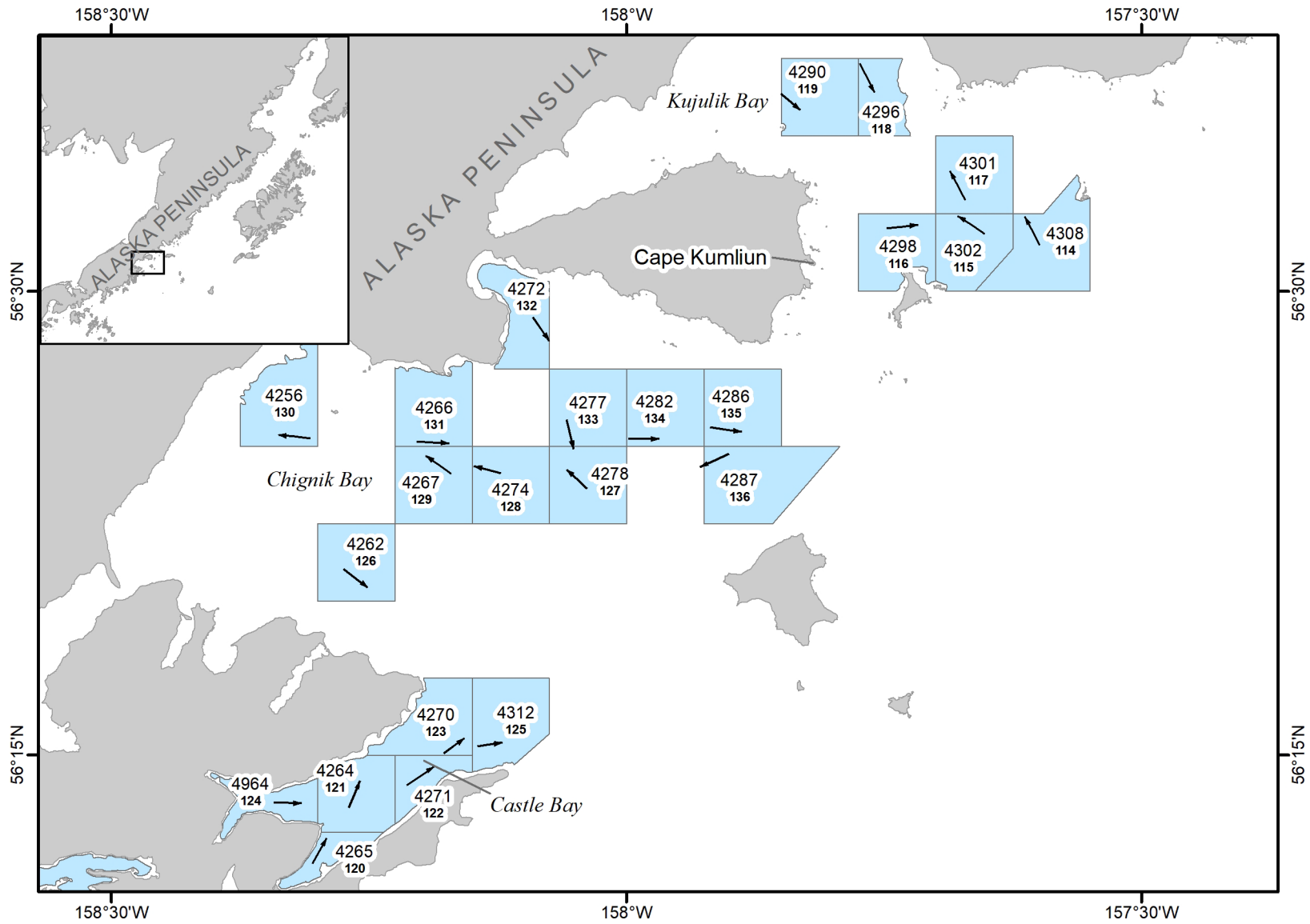


Figure 7.—Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Kujulik, Chignik, and Castle Bays, 2023.

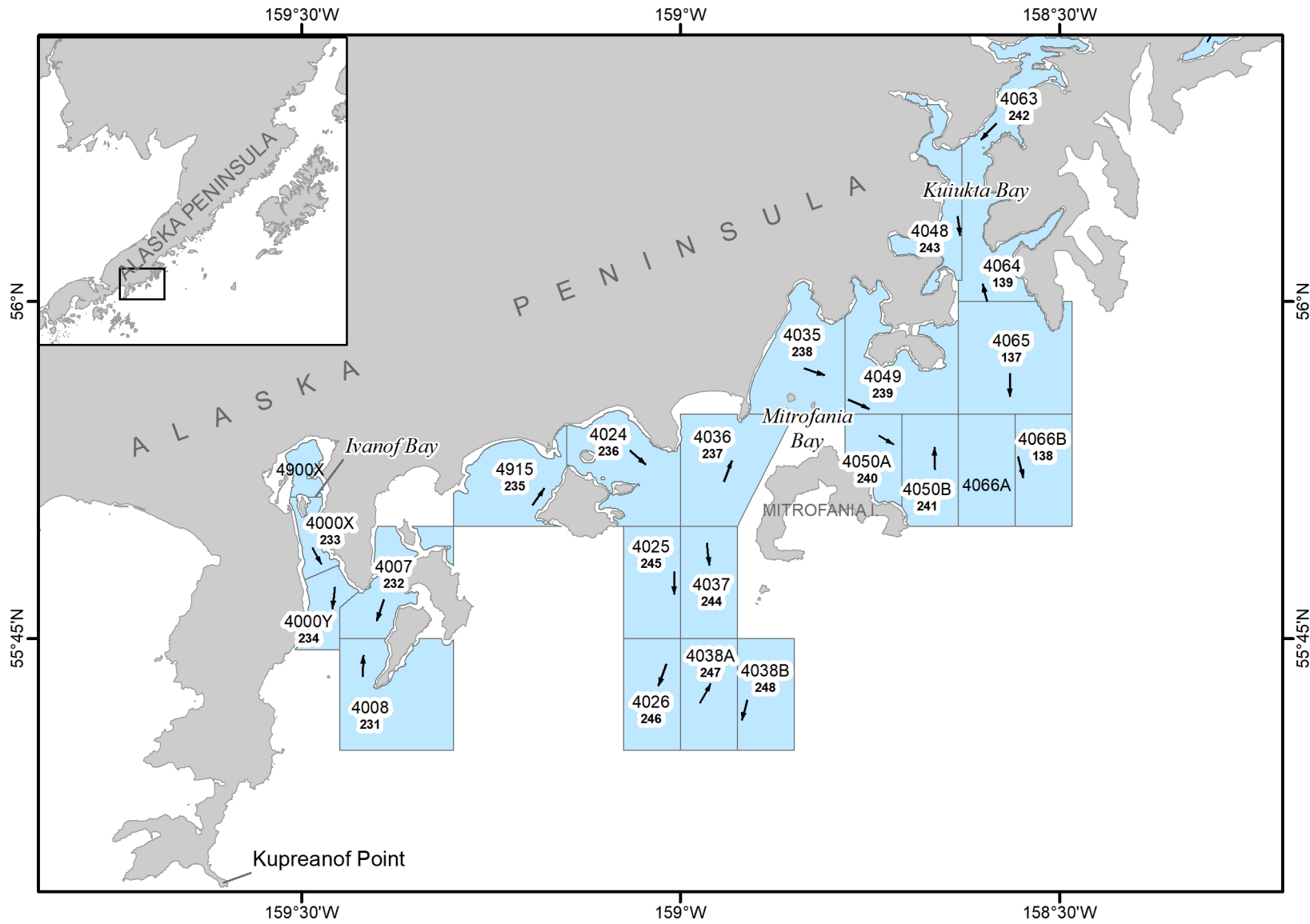


Figure 8.—Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Ivanof, and Kuiukta Bays, and Mitrofanina Island, 2023.

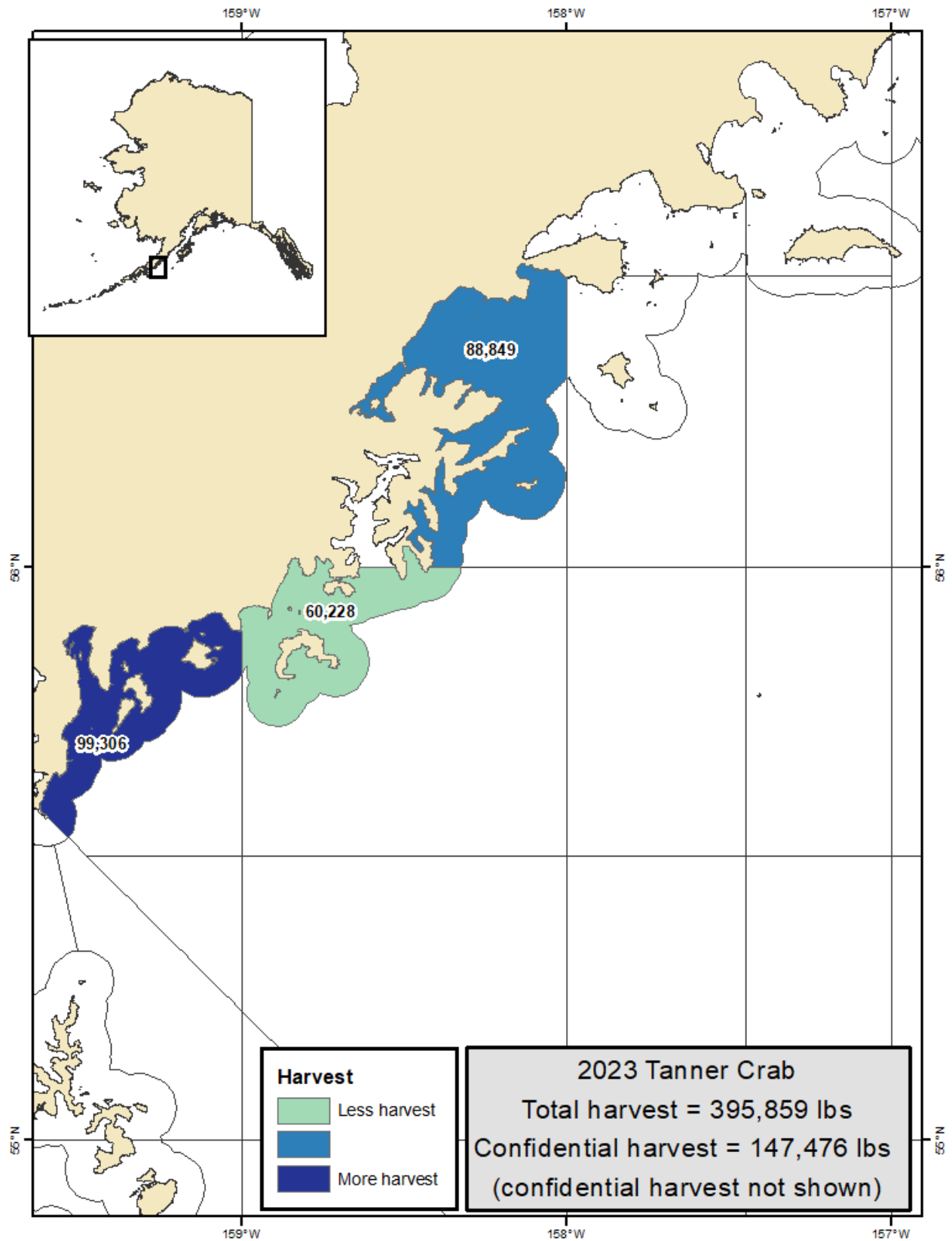


Figure 9.—Tanner crab harvest by statistical area from the 2023 Chignik District Tanner crab fishery.

Table 1.—Tanner crab abundance estimates in the Chignik District by station, 2023.

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						
Ivanof Bay														
4007	232	25,625	1,602	27,227	24,024	1,602	1,602	1,602	0	0	1,602	0	28,829	56,056
4008	231	33,216	256,505	289,721	27,680	3,691	9,227	9,227	5,536	1,845	16,608	7,381	57,206	346,928
4915	235	0	0	0	9,226	0	0	0	0	0	0	0	9,226	9,226
4000X	233	3,474	290	3,764	5,790	2,027	1,737	3,764	3,764	1,448	8,976	5,211	18,528	22,292
4000Y	234	12,889	0	12,889	15,603	0	0	0	678	0	678	678	16,281	29,171
4900X		<i>station not towed</i>												
Total		75,204	258,397	333,601	82,323	7,320	12,566	14,593	9,978	3,293	27,864	13,270	130,070	463,673
Mitrofanina Island														
4024	236	71,807	0	71,807	89,140	0	0	0	0	0	0	0	89,140	160,948
4025	245	26,030	48,342	74,373	24,171	0	0	48,342	0	5,578	53,920	5,578	78,091	152,464
4026	246	178,917	3,689	182,606	171,539	0	1,845	1,845	0	0	1,845	0	175,228	357,833
4035	238	292,770	0	292,770	292,770	5,048	5,048	12,619	47,954	0	60,573	47,954	363,438	656,208
4036	237	341,440	0	341,440	352,279	0	2,710	0	0	0	0	0	354,989	696,429
4037	244	17,062	11,375	28,437	39,811	5,687	1,896	28,437	0	13,270	41,707	13,270	89,101	117,538
4048	243	11,011	847	11,858	6,776	1,694	2,541	9,317	7,623	847	17,787	8,470	28,798	40,656
4049	239	40,231	2,367	42,597	70,996	7,100	2,367	4,733	40,231	4,733	49,697	44,964	130,158	172,756
4063	242	42,314	5,836	48,151	39,396	48,151	32,101	5,836	0	0	5,836	0	125,484	173,635
4064	139	69,547	176,849	246,396	77,495	0	11,922	21,858	5,961	29,806	57,625	35,767	147,043	393,439
4065	137	13,500	57,376	70,877	13,500	10,125	20,250	60,751	6,750	3,375	70,876	10,125	114,752	185,629
4038A	247	127,824	5,810	133,634	106,520	1,937	3,873	15,494	1,937	3,873	21,304	5,810	133,634	267,268
4038B	248	46,951	11,738	58,689	37,169	0	7,825	9,781	0	1,956	11,737	1,956	56,732	115,421
4050A	240	107,938	2,698	110,637	122,780	0	1,349	0	1,349	0	1,349	1,349	125,478	236,115
4050B	241	40,230	16,458	56,688	42,059	1,829	1,829	16,458	7,315	1,829	25,602	9,143	71,317	128,005
4066B	138	27,559	13,780	41,339	15,748	3,937	3,937	13,780	0	7,874	21,654	7,874	45,276	86,614
4066A		<i>station not towed</i>												
Total		1,455,131	357,165	1,812,299	1,502,149	85,508	99,493	249,251	119,120	73,141	441,512	192,260	2,128,659	3,940,958

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Table 1.–Page 2 of 2.

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						
Chignik Bay														
4256	130	33,791	0	33,791	36,606	0	0	0	0	0	0	0	36,606	70,397
4262	126	31,969	2,906	34,875	33,906	969	6,781	15,500	0	0	15,500	0	57,156	92,031
4264	121	40,942	0	40,942	55,499	1,820	910	0	0	0	0	0	58,228	99,170
4265	120	2,138	0	2,138	305	305	0	0	0	0	0	0	611	2,748
4266	131	7,666	0	7,666	23,851	0	0	0	0	0	0	0	23,851	31,518
4267	129	8,216	0	8,216	16,431	0	913	0	913	0	913	913	18,257	26,473
4270	123	26,780	169,250	196,030	3,806	34,252	182,675	133,200	19,029	9,514	161,743	28,543	382,475	578,505
4271	122	10,046	0	10,046	12,055	0	1,607	15,672	7,635	804	24,111	8,439	37,773	47,820
4272	132	8,903	0	8,903	11,129	0	0	742	0	0	742	0	11,871	20,774
4274	128	15,479	7,224	22,702	28,894	0	1,032	1,032	0	0	1,032	0	30,958	53,660
4277	133	17,860	31,019	48,879	15,040	0	2,820	8,460	0	1,880	10,340	1,880	28,199	77,078
4278	127	1,978	8,900	10,878	989	989	1,978	9,889	0	989	10,878	989	14,834	25,712
4282	134	1,808	27,125	28,933	3,617	1,808	9,946	24,413	904	9,042	34,359	9,946	49,729	78,663
4286	135	72,333	5,425	77,758	90,417	0	904	2,713	0	0	2,713	0	94,033	171,792
4287	136	24,015	1,201	25,215	49,230	0	0	0	0	0	0	0	49,230	74,445
4312	125	6,852	36,542	43,393	0	1,142	12,561	111,909	18,271	21,697	151,877	39,968	165,580	208,973
4964	124	3,685	461	4,146	9,213	0	461	0	0	0	0	0	9,674	13,820
Total		314,461	290,053	604,511	390,988	41,285	222,588	323,530	46,752	43,926	414,208	90,678	1,069,065	1,673,579
Kujulik Bay														
4290	119	2,269	0	2,269	0	0	0	0	0	0	0	0	0	2,269
4296	118	3,472	0	3,472	3,906	0	0	0	0	0	0	0	3,906	7,378
4298	116	4,046	0	4,046	8,092	0	0	0	0	0	0	0	8,092	12,137
4301	117	3,611	0	3,611	9,027	0	0	0	0	0	0	0	9,027	12,638
4302	115	5,377	0	5,377	4,609	0	0	0	0	0	0	0	4,609	9,986
4308	114	5,732	3,583	9,315	10,748	0	1,433	1,433	0	717	2,150	717	14,330	23,645
Total		24,507	3,583	28,090	36,382	0	1,433	1,433	0	717	2,150	717	39,964	68,053
untowed station estimate		70,957	20,174	91,131	77,725	1,965	4,774	11,167	7,493	3,605	22,266	11,099	106,729	197,861
Chignik District Total		1,940,261	929,369	2,869,630	2,089,567	136,075	340,852	599,972	183,342	124,682	907,997	308,024	3,474,491	6,344,121

Table 2.—Fishing log from the Chignik District trawl survey, 2023.

Haul	114	115	116	117	118	119	120	121	122	123	124	125	126	
Location	Kujulik	Kujulik	Kujulik	Kujulik	Kujulik	Kujulik	Castle	Castle	Castle	Castle	Castle	Castle	Chignik	
Month/Day/Year	08-04-23	08-04-23	08-04-23	08-04-23	08-04-23	08-04-23	08-05-23	08-05-23	08-05-23	08-05-23	08-05-23	08-06-23	08-06-23	
Station	4308	4302	4298	4301	4296	4290	4265	4264	4271	4270	4964	4312	4262	
Longitude Start (W)	157°35.92'	157°39.13'	157°44.85'	157°40.27'	157°46.41'	157°51.03'	158°18.31'	158°16.19'	158°12.82'	158°10.68'	158°20.57'	158°08.68'	158°16.49'	
Latitude Start (N)	56°31.50'	56°31.86'	56°32.04'	56°32.95'	56°37.34'	56°36.37'	56°11.49'	56°13.29'	56°14.03'	56°15.06'	56°13.47'	56°15.30'	56°21.04'	
Heading, Degrees	324	313	73	317	142	120	20	11	46	42	69	67	116	
Average Depth (m)	128	98.75	93.26	89.6	67.66	27.43	56.69	76.8	96.92	100.5	71.31	118.8	76.8	
Distance Fished (km)	1.963	1.944	1.926	1.944	1.944	1.537	1.777	1.777	2.037	1.611	1.703	1.574	1.814	
Haul	127	128	129	130	131	132	133	134	135	136	137	138	139	
Location	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Chignik	Mitro.	Mitro.	Kuiukta	
Month/Day/Year	08-06-23	08-06-23	08-06-23	08-06-23	08-07-23	08-07-23	08-07-23	08-07-23	08-07-23	08-07-23	08-08-23	08-08-23	08-08-23	
Station	4278	4274	4267	4256	4266	4272	4277	4282	4286	4287	4065	4066B	4064	
Longitude Start (W)	158°02.29'	158°07.31'	158°10.22'	158°18.44'	158°12.24'	158°05.48'	158°03.51'	157°59.92'	157°55.14'	157°54.03'	158°33.93'	158°33.25'	158°35.69'	
Latitude Start (N)	56°23.64'	56°24.14'	56°24.12'	56°25.26'	56°25.17'	56°29.18'	56°25.87'	56°25.25'	56°25.62'	56°24.76'	55°56.83'	55°53.13'	56°00.00'	
Heading, Degrees	299	275	294	266	80	135	152	80	89	230	168	156	334	
Average Depth (m)	190.1	160.9	118.8	95.09	155.4	115.2	173.7	192	164.5	192	106	120.6	159	
Distance Fished (km)	1.777	1.703	1.926	1.963	1.889	1.759	1.87	1.944	1.944	1.944	1.944	1.814	1.592	
Haul	231	232	233	234	235	236	237	238	239	240	241	242	243	
Location	Ivanof	Ivanof	Ivanof	Ivanof	Ivanof	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.	Kuiukta	Kuiukta
Month/Day/Year	09-02-23	09-02-23	09-02-23	09-02-23	09-02-23	09-02-23	09-03-23	09-03-23	09-03-23	09-03-23	09-03-23	09-03-23	09-03-23	09-03-23
Station	4008	4007	4000X	4000Y	4915	4024	4036	4035	4049	4050A	4050B	4063	4048	
Longitude Start (W)	159°25.17'	159°23.46'	159°29.16'	159°27.36'	159°11.72'	159°04.02'	158°56.55'	158°50.25'	158°46.76'	158°44.32'	158°39.85'	158°34.99'	158°38.04'	
Latitude Start (N)	55°43.28'	55°46.76'	55°49.06'	55°47.32'	55°50.94'	55°53.42'	55°51.99'	55°57.05'	55°55.66'	55°54.08'	55°52.51'	56°07.92'	56°03.80'	
Heading, Degrees	350	189	147	175	23	130	14	100	104	114	342	210	163	
Average Depth (m)	104.2	87.77	71.31	82.29	65.83	102.4	128	142.6	142.6	138.9	118.8	160.9	177.3	
Distance Fished (km)	1.87	1.907	1.574	1.907	1.814	1.907	1.963	1.926	1.981	1.574	1.926	1.926	1.703	
Haul	244	245	246	247	248									
Location	Mitro.	Mitro.	Mitro.	Mitro.	Mitro.									
Month/Day/Year	09-04-23	09-04-23	09-04-23	09-04-23	09-04-23									
Station	4037	4025	4026	4038A	4038B									
Longitude Start (W)	158°57.92'	159°00.50'	159°01.11'	158°58.46'	158°54.71'									
Latitude Start (N)	55°49.27'	55°47.99'	55°43.87'	55°42.11'	55°42.28'									
Heading, Degrees	165	170	190	21	184									
Average Depth (m)	129.8	122.5	140.8	146.2	148.1									
Distance Fished (km)	1.889	1.926	1.944	1.852	1.833									