
2019 Tanner crab *Chionoecetes bairdi* Bottom Trawl Survey results for the Eastern Aleutian District



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TABLE OF CONTENTS

Figure		Page
1.	Abundance estimates of mature male Tanner crab in the Eastern Aleutian District from the 2019 Eastern Aleutian trawl survey.	1
2.	Abundance estimates of legal-size male Tanner crab in the Eastern Aleutian District from the 2019 Eastern Aleutian trawl survey.	2
3.	Abundance estimates of juvenile Tanner crab in the Eastern Aleutian District from the 2019 Eastern Aleutian trawl survey.	3
4.	Male Tanner crab abundance estimates by size, 2010-2019 Eastern Aleutian District trawl surveys (legal crab lightly shaded).	4
5.	Estimated abundance of male Tanner crabs in the Akutan and Unalaska/Kalekta sections of the Eastern Aleutian District by size and shell condition, 2019 trawl survey.	5
6.	Estimated abundance of male Tanner crabs in the Makushin/Skan of the Eastern Aleutian District by size and shell condition, 2019 trawl survey.	6
7.	Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Akutan Bay, 2019.	7
8.	Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Unalaska and Makushin bays, 2019.	8

Table		Page
1.	Abundance estimates of Tanner crab in the Eastern Aleutian District by station, 2019.	9
2.	Fishing log from the Eastern Aleutian District trawl survey, 2019.	10

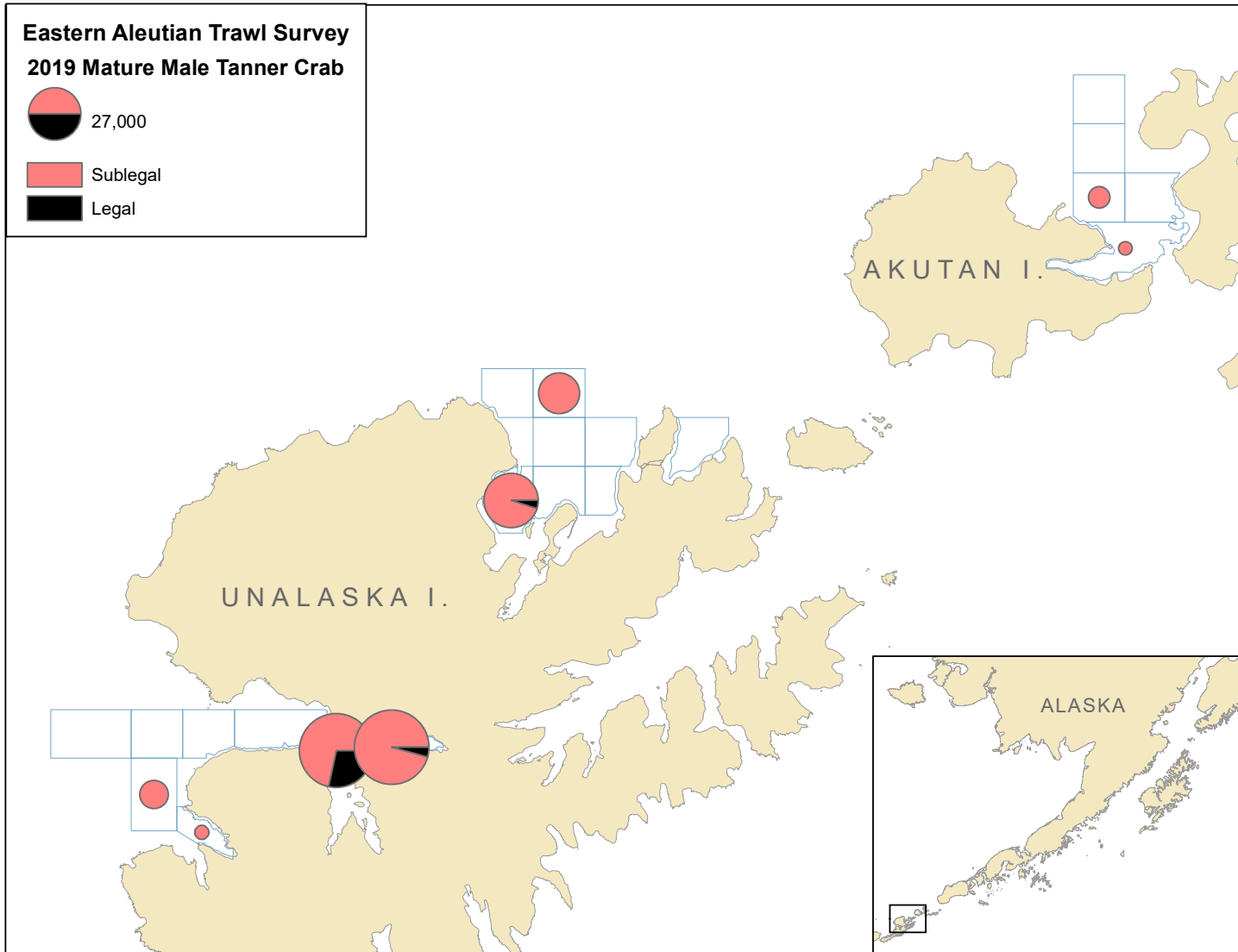


Figure 1.—Abundance estimates of mature male Tanner crab in the Eastern Aleutian District from the 2019 Eastern Aleutian trawl survey.

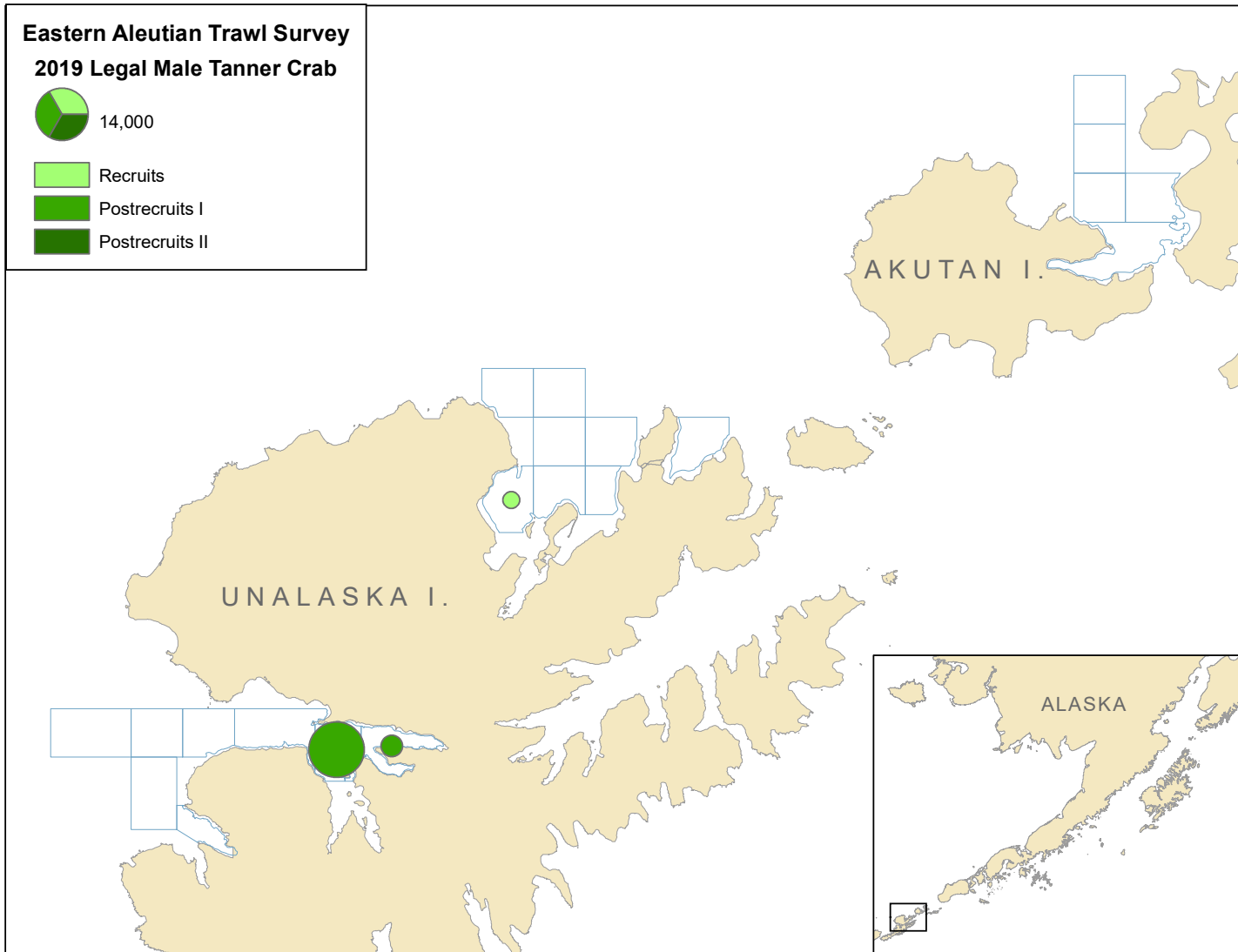


Figure 2.—Abundance estimates of legal-size male Tanner crab in the Eastern Aleutian District from the 2019 Eastern Aleutian trawl survey.

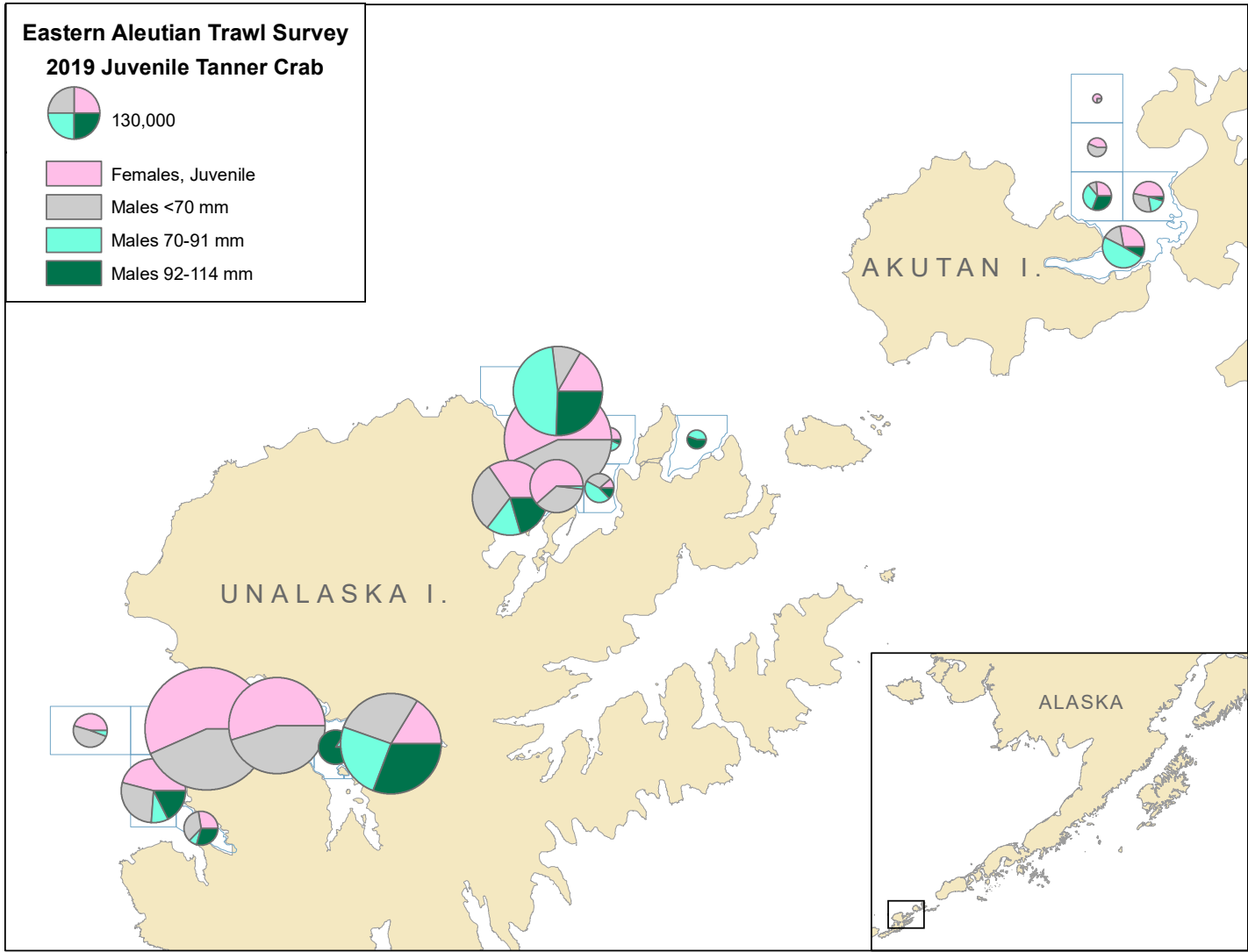


Figure 3.—Abundance estimates of juvenile Tanner crab in the Eastern Aleutian District from the 2019 Eastern Aleutian trawl survey.

Eastern Aleutian

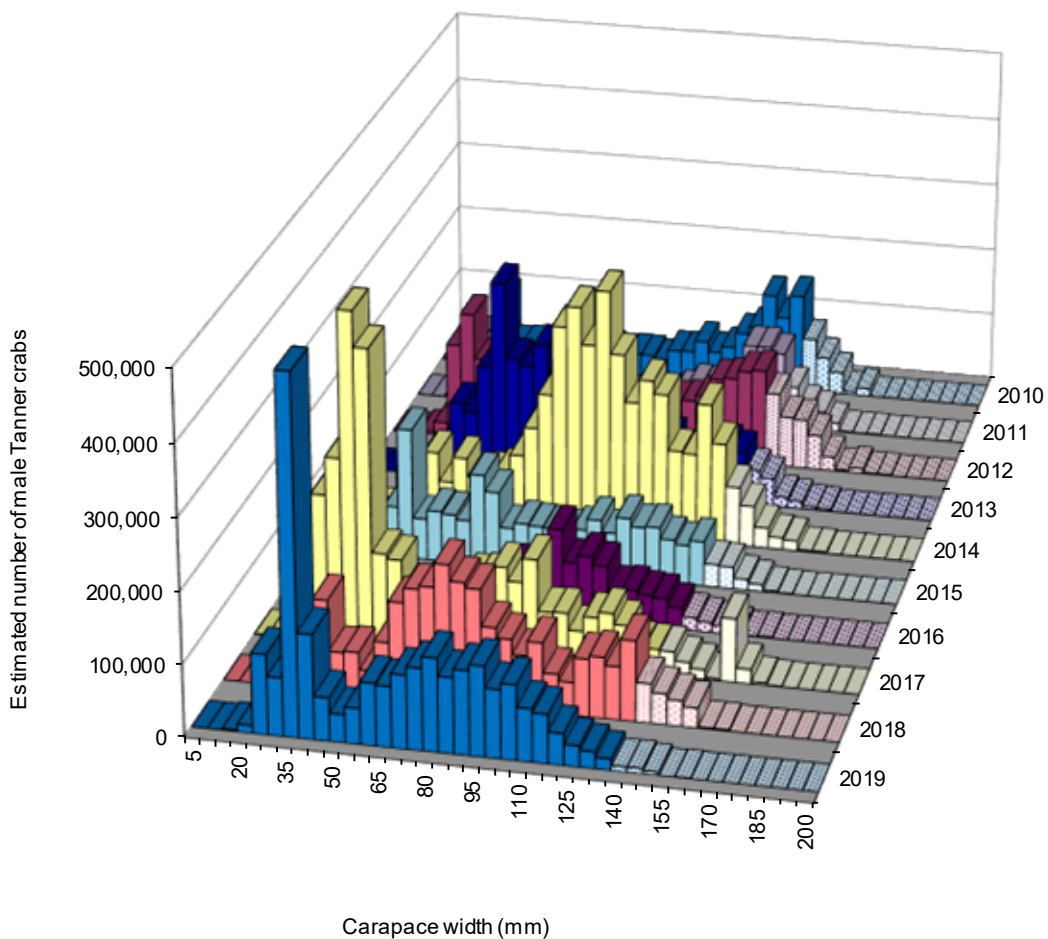


Figure 4.—Male Tanner crab abundance estimates by size, 2010-2019 Eastern Aleutian District trawl surveys (legal crab lightly shaded).

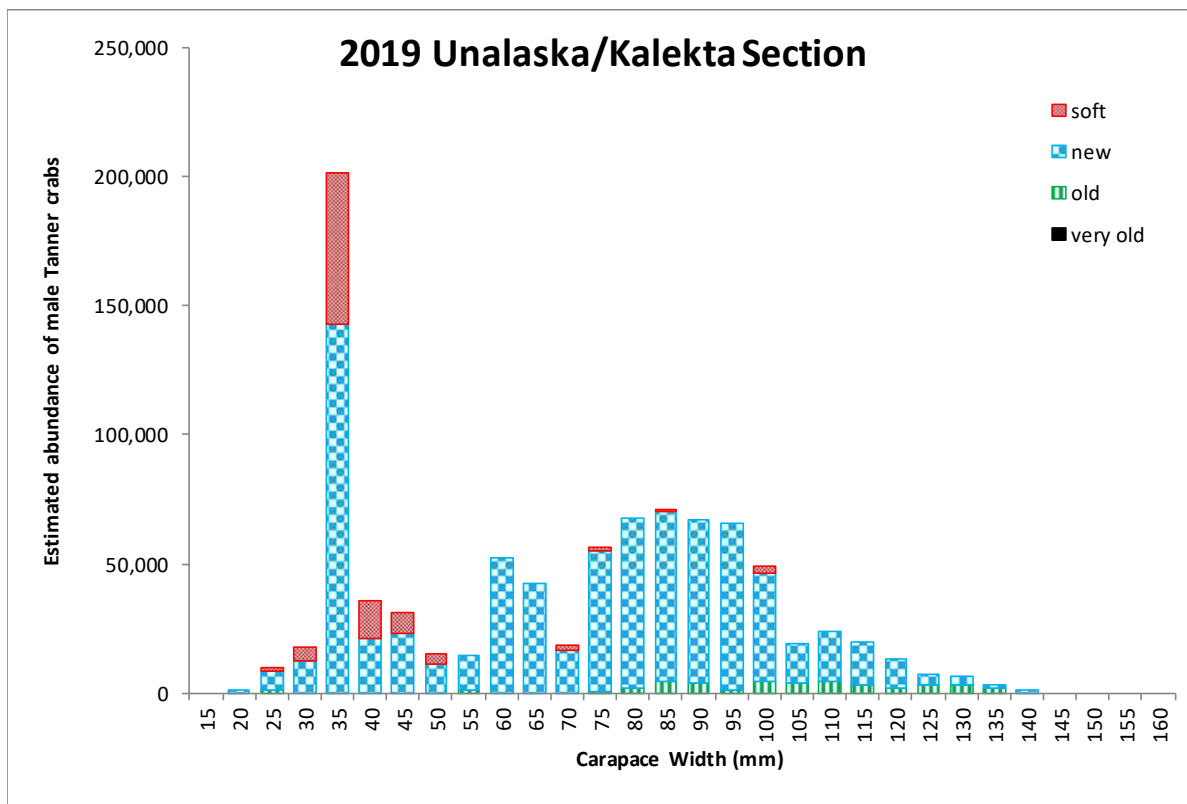
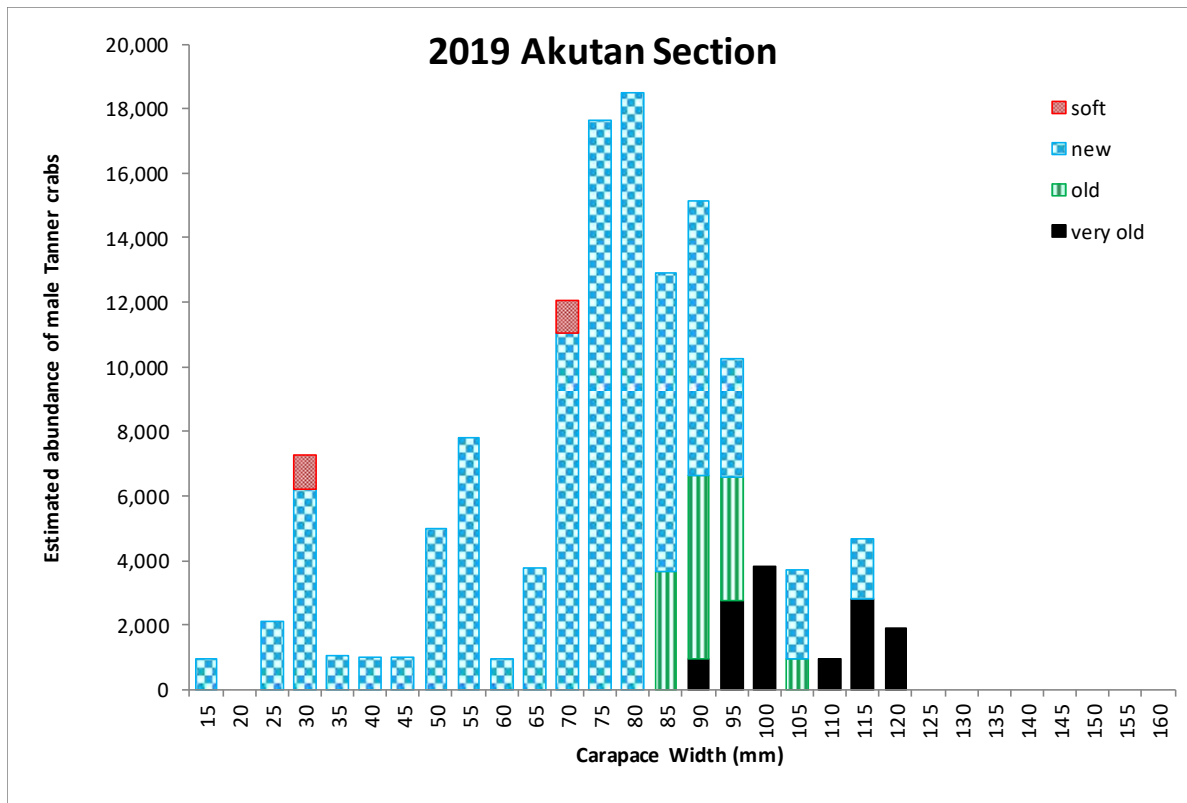


Figure 5.—Estimated abundance of male Tanner crabs in the Akutan and Unalaska/Kalekta sections of the Eastern Aleutian District by size and shell condition, 2019 trawl survey.

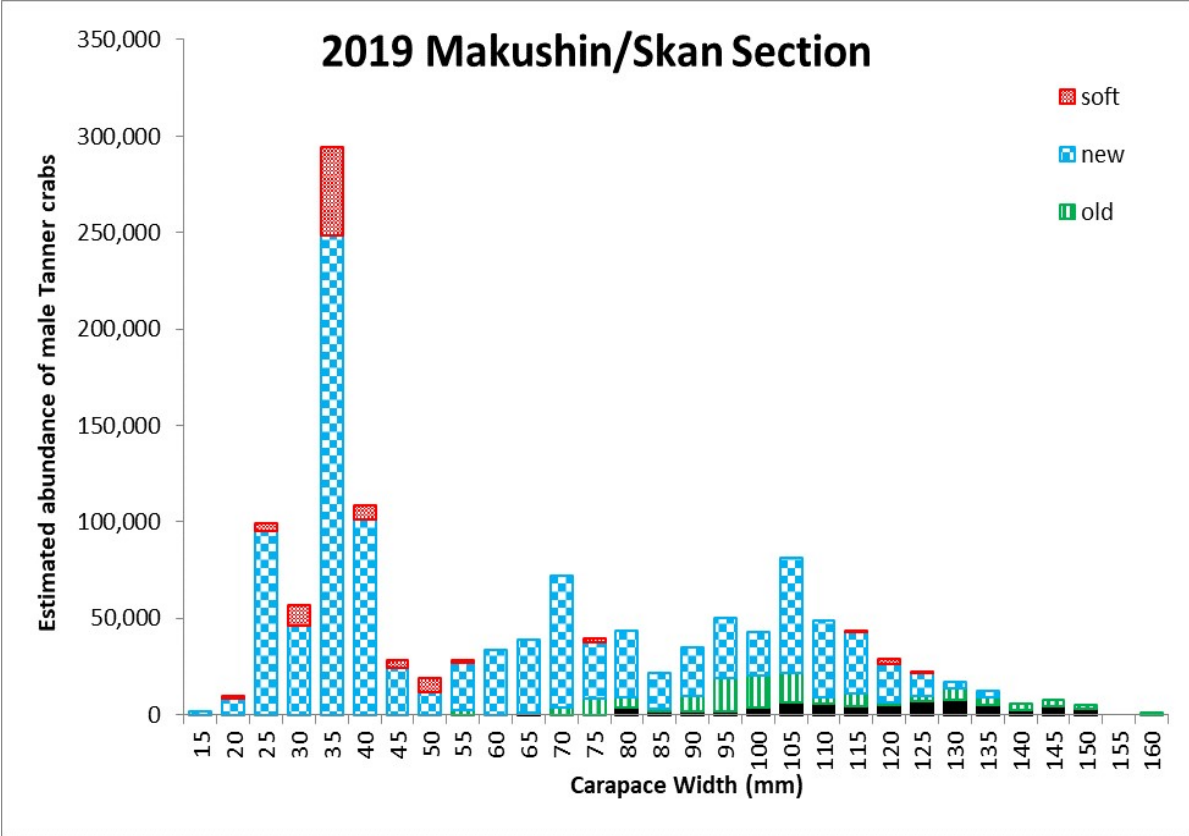


Figure 6.—Estimated abundance of male Tanner crabs in the Makushin/Skan of the Eastern Aleutian District by size and shell condition, 2019 trawl survey.

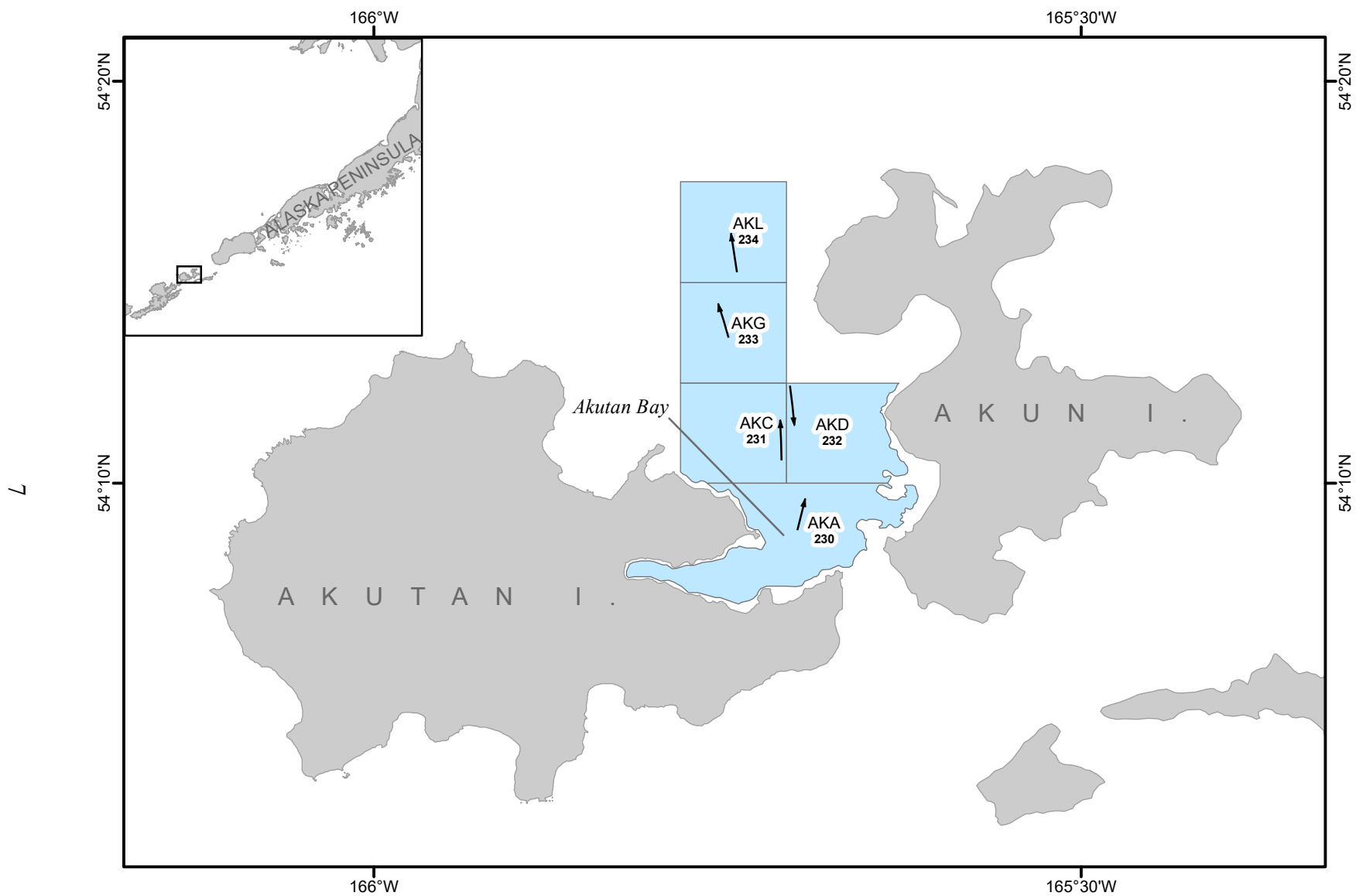


Figure 7.—Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Akutan Bay, 2019.

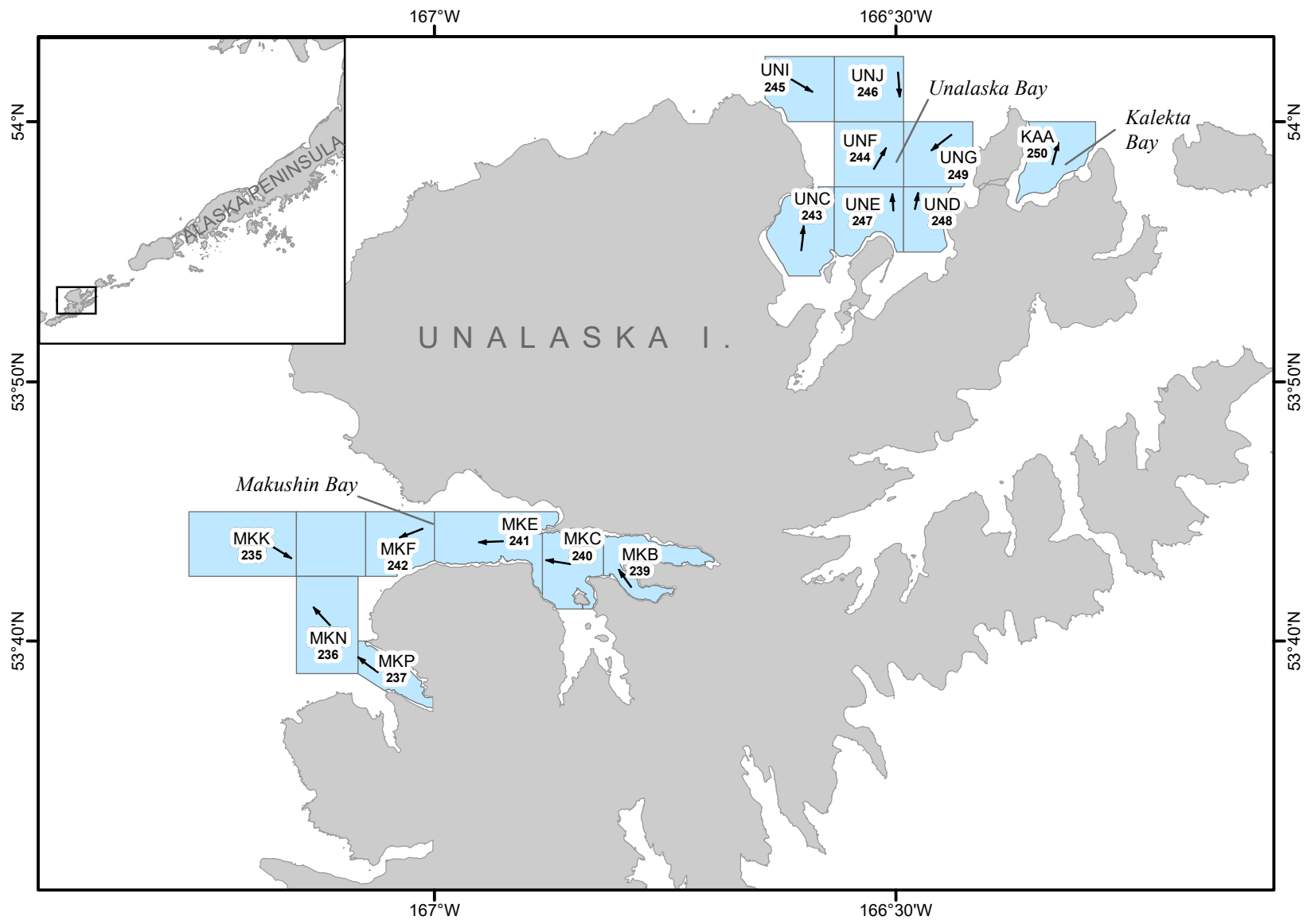


Figure 8.—Station boundaries with station designations, trawl haul numbers (bold) and locations (arrows), Unalaska and Makushin bays, 2019.

Table 1.—Abundance estimates of Tanner crab in the Eastern Aleutian District by station, 2019.

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	230	23,869	7,344	31,214	12,853	42,230	7,344	1,836	0	0	0	0	64,263	95,477
AKC	231	10,425	197,037	207,462	3,755	13,142	12,204	4,694	0	0	0	0	33,795	241,257
AKD	232	20,894	10,944	31,838	13,929	7,960	1,990	0	0	0	0	0	23,879	55,717
AKG	233	7,384	0	7,384	9,494	0	0	0	0	0	0	0	9,494	16,878
AKL	234	2,848	0	2,848	949	0	0	0	0	0	0	0	949	3,798
Abundance Estimate		65,420	215,325	280,746	40,980	63,332	21,538	6,530	0	0	0	0	132,380	413,127
UNALASKA/KALEKTA BAY SECTION														
UNC	243	93,560	107,645	201,205	82,152	41,076	55,240	28,328	1,416	0	0	1,416	208,212	409,418
UND	248	4,427	2,951	7,378	12,543	18,445	5,165	0	0	0	0	0	36,152	43,530
UNE	247	82,690	5,664	88,354	49,841	2,265	1,133	0	0	0	0	0	53,239	141,593
UNF	244	316,142	0	316,142	237,506	3,635	0	0	0	0	0	0	241,141	557,283
UNG	249	12,342	0	12,342	7,595	5,696	1,899	0	0	0	0	0	15,190	27,532
UNI	245	0	0	0	0	0	0	0	0	0	0	0	0	0
UNJ	246	64,359	654,318	718,677	40,269	182,886	98,993	16,779	0	0	0	0	338,927	1,057,604
KAA	250	0	959	959	0	7,669	9,587	0	0	0	0	0	17,256	18,214
Abundance Estimate		573,520	771,537	1,345,057	429,906	261,672	172,017	45,107	1,416	0	0	1,416	910,117	2,255,174
MAKUSHIN BAY SECTION														
MKB	239	80,148	350,122	430,270	139,587	120,976	151,220	53,508	0	2,326	0	2,326	467,617	897,888
MKC	240	0	473,232	473,232	1,637	7,369	48,306	39,300	0	15,556	0	15,556	112,168	585,400
MKE	241	244,741	0	244,741	200,945	1,288	2,576	0	0	0	0	0	204,810	449,551
MKF	242	411,583	11,174	422,757	315,014	6,269	1,567	0	0	0	0	0	322,850	745,607
MKK	235	25,300	1,581	26,882	26,882	3,163	0	0	0	0	0	0	30,044	56,926
MKN	236	91,561	33,611	125,172	55,632	17,385	34,770	8,113	0	0	0	0	115,900	241,071
MKP	237	15,257	88,588	103,845	19,686	4,429	16,241	1,969	0	0	0	0	42,325	146,170
Abundance Estimate		868,590	958,308	1,826,899	759,383	160,879	254,680	102,890	0	17,882	0	17,882	1,295,714	3,122,613
Eastern Aleutian District Total		1,507,530	1,945,170	3,452,702	1,230,269	485,883	448,235	154,527	1,416	17,882	0	19,298	2,338,211	5,790,914

Table 2.—Fishing log from the Eastern Aleutian District trawl survey, 2019.

Haul	230	231	232	233	234	235	236	237	239	240	241	242	243
Location	Akutan	Akutan	Akutan	Akutan	Akutan	Makush.	Makush.	Makush.	Makush.	Makush.	Makush.	Makush.	Unalaska
Month/Day/Year	8/3/2019	8/3/2019	8/3/2019	8/3/2019	8/3/2019	8/4/2019	8/4/2019	8/4/2019	8/5/2019	8/5/2019	8/5/2019	8/5/2019	8/6/2019
Station	AKA	AKC	AKD	AKG	AKL	MKK	MKN	MKP	MKB	MKC	MKE	MKF	UNC
Longitude Start (W)	165°42.042'	165°42.71'	165°42.35'	165°44.95'	165°44.60'	167°10.70'	167°06.77'	167°03.67'	166°47.20'	166°51.15'	166°55.51'	167°00.73'	166°36.16'
Latitude Start (N)	54°08.84'	54°10.58'	54°12.43'	54°13.63'	54°15.26'	53°43.71'	53°40.60'	53°38.79'	53°42.07'	53°42.97'	53°43.86'	53°44.36'	53°55.03'
Heading, Degrees	16	355	177	340	347	136	311	312	315	282	273	257	354
Average Depth (m)	71.31	87.77	84.12	96.92	98.75	115.2	131.6	138.9	96.92	177.3	192	195.6	138.9
Distance Fished (km)	1.481	1.852	1.852	1.666	1.852	1.852	1.852	1.852	1.666	1.852	1.852	1.852	1.852
Haul	244	245	246	247	248	249	250						
Location	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska	Unalaska						
Month/Day/Year	8/6/2019	8/6/2019	8/6/2019	8/7/2019	8/7/2019	8/7/2019	8/7/2019						
Station	UNF	UNI	UNJ	UNE	UND	UNG	KAA						
Longitude Start (W)	166°31.44'	166°36.84'	166°29.86'	166°30.17'	166°28.76'	166°26.36'	166°19.81'						
Latitude Start (N)	53°58.16'	54°01.63'	54°01.92'	53°56.56'	53°56.61'	53°59.50'	53°58.34'						
Heading, Degrees	35	127	176	350	9	240	25						
Average Depth (m)	151.7	95.09	166.4	102.4	78.63	87.77	76.8						
Distance Fished (km)	1.852	1.852	1.852	1.296	1.296	1.852	1.666						