Northwest and
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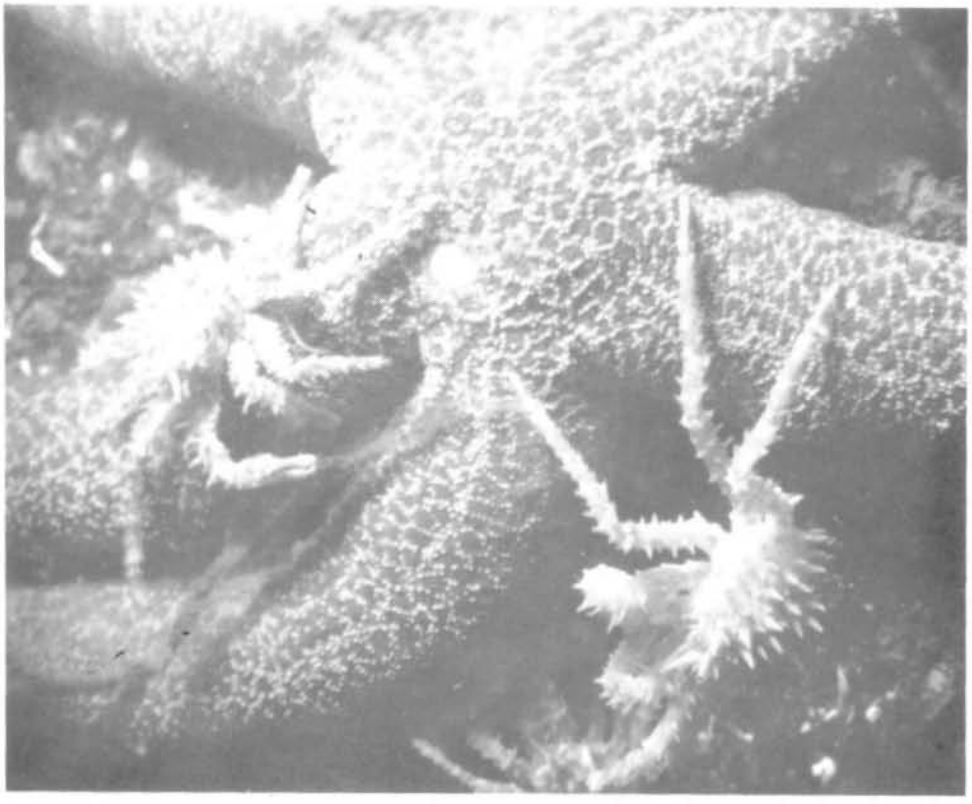
NWAFC PROCESSED REPORT 86-17

REPORT TO INDUSTRY ON THE 1986 EASTERN BERING SEA CRAB SURVEY

OCTOBER 1986



This report does not constitute a publication and is for information only.
All data herein are to be considered provisional.

The 1986 cover photo shows 2 juvenile red king crabs "hitch-hiking" on a sea star (*Evasterias trochelli*). NMFS divers have observed this association to be fairly common around Kodiak and there is some evidence that certain species of sea stars are preferred. The photograph was taken in Women's Bay by NMFS biologist Braxton Dew.

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Report to Industry on the 1986 Eastern Bering Sea Crab Survey

by

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October 1986

The 1986 Eastern Bering Sea Survey

An annual trawl survey is conducted in the eastern Bering Sea to determine the distribution and abundance of crab and groundfish resources. This report summarizes survey results for commercially important crabs. It is intended to aid fishermen and processors in locating productive grounds and judging overall availability of various species. Survey derived data are also used as part of the basis for management decisions. Red king crab (*Paralithodes camtschatica*), blue king crab (*P. platypus*), hair crab (*Erimacrus isenbeckii*), and two species of tanner crab (*Chionoecetes bairdi* and *C. opilio*), are of primary interest. Hybrid tanner crab are also discussed. Information on groundfish resources is available from the National Marine Fisheries Service's Seattle Laboratory (7600 Sand Point Way NE, BIN C15700, Seattle, Washington 98115).

Survey Area and Methods

The 1986 Eastern Bering Sea crab survey consisted of 383 successful trawl tows and covered an area of approximately 132,000 square nautical miles. The 1986 survey area was essentially identical to that of 1985 (Fig. 1) and covered the Bering Sea ranges of all commercially exploited crab stocks except for *Chionoecetes opilio*, which extend to the north and west of the survey area. Golden king crab were not surveyed.

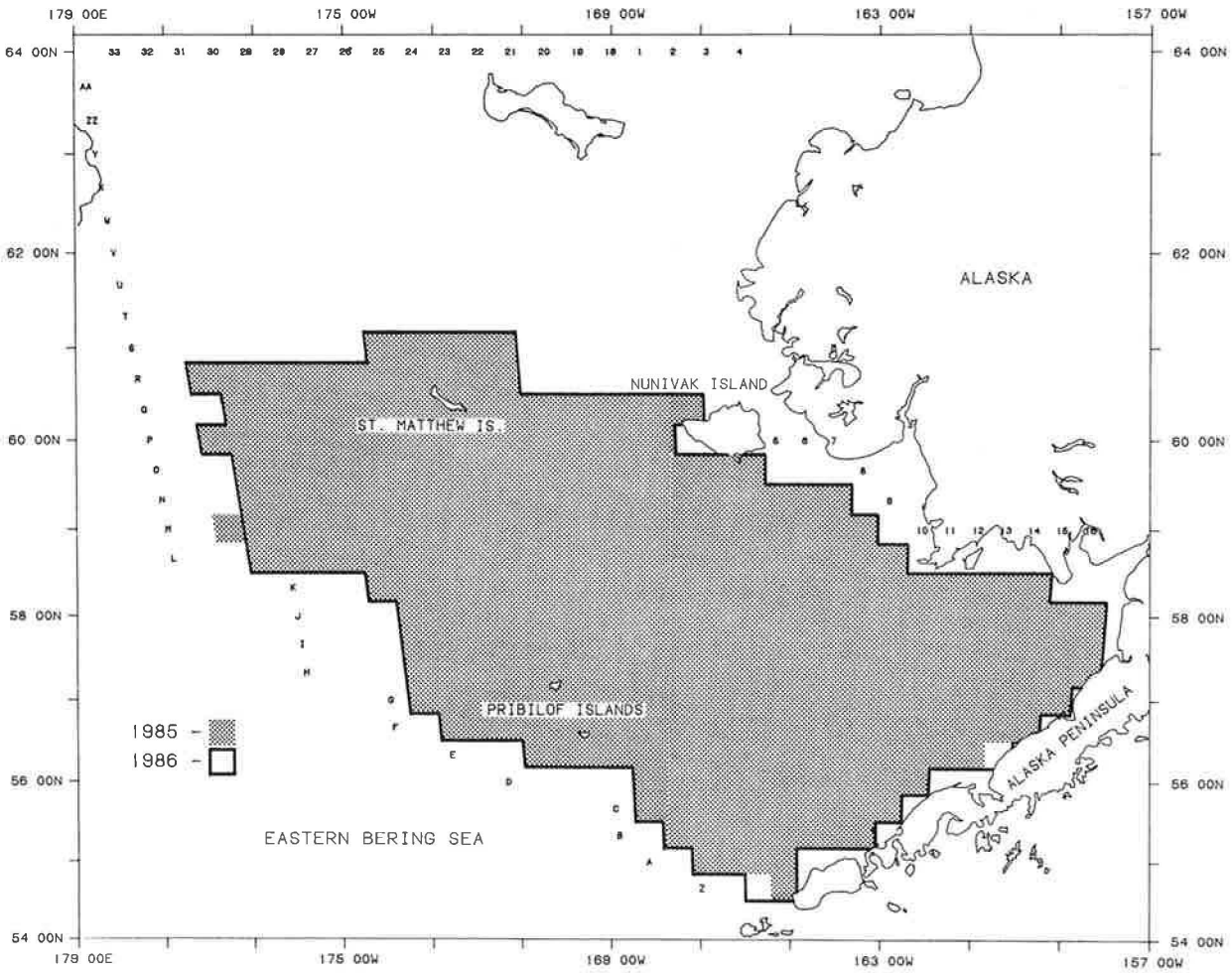


Figure 1. -- NMFS eastern Bering Sea crab survey area in 1985 and 1986.

The survey was conducted aboard two chartered vessels, the F/V Morning Star and the University of Washington's R/V Alaska between June 4 and August 6. Methodology was similar to that of previous surveys in that most tows were made at the centers of squares defined by a 20 x 20 nautical mile grid. Near St. Matthew Island and the Pribilofs, additional tows were made at the corners of squares. Because the trawls used were identical to those used in previous years, we assumed that they behaved similarly. Procedures for estimating abundance were identical to those of previous years.

Both vessels fished an eastern otter trawl with an 83 foot headrope and a 112 foot footrope. Measured wing spread on this trawl has ranged from 47 - 58 feet. An effective width of 50 feet was used. Each tow was of one-half hour duration and most tows were 1.4 to 1.8 nautical miles long. Catches were brought aboard, sorted by species and sex, and then a sample of crabs was measured (to the nearest millimeter) to provide a size frequency distribution. All red king crab were measured. A tracing of the bottom profile was made with a recording echo sounder during each tow. A tracing of the surface to bottom temperature profile was taken with an expendable bathythermograph (XBT) at as many stations as possible.

Following the regular survey, 23 additional stations were towed at 10-mile intervals in the region of greatest red king crab density to verify results obtained in June. These included 8 stations towed in June plus 15 stations not previously towed.

Population estimates (Tables 1-3) were derived from the trawl data using the "area-swept" technique. First, the density of crabs (crabs per square nautical mile) at each trawl station was computed. Average density was then calculated for several sub-regions, then population estimates were calculated by extrapolating the average density of a given size group over the area of the species' (or stock's) range.

Interpreting Tables and Charts

Because of differences in the length of tow from vessel to vessel and station to station, catches presented in accompanying charts and tables are standardized to the number of crab caught per square nautical mile (rounded to whole numbers on Charts). Note that charts published through 1984 presented crabs per mile towed, so are not directly comparable to this report. However, data presented in those reports can be converted to crabs per square mile (approximately) by multiplying by a factor of 124.

Charts are based on 20 by 20 nautical mile squares. In cases where more than one tow was made in a square (including corner tows), the average crab density is presented. It is advisable to cross-reference charts and tables to obtain more exact information. Charts and tables showing the percentage of legal crab should be carefully cross-referenced since high percentages of legal crab are often found in areas of low abundance.

Distribution and Abundance of King Crab Stocks

Red King Crab

Legal male crabs were sparsely distributed in Bristol Bay and their distribution also extended into the Northern District (North of 58°39', Chart 1, Table 4). In Bristol Bay, the 1986 distribution was similar to that of 1985. A few red king crabs were also found near the Pribilof Islands but their contribution to overall abundance in the eastern Bering Sea is negligible.

Legal male crabs were found between 14 and 51 fm (average 50 fm) and from 0.8 to 4.0°C (average 1.8°). The percentages of legal crab taken at each station (Chart 2) show that legal crab were occasionally found as solitary individuals at the periphery of the stock's distribution.

Commercial catches in Bristol Bay declined along with abundance estimates, from 130 million pounds in 1980 to 34 million in 1981 and 3 million in 1982. Due to low abundance of males and record low abundance of mature females, the Alaska Department of Fish and Game (ADF&G) issued an emergency order closing Bristol Bay to king crab fishing in 1983. The fishery was re-opened in 1984. In 1985, 4.2 million lbs were landed with an average catch-per-unit effort (CPUE) of 9 crabs per pot-lift. From 1985 to 1986, the abundance of legal males increased by 140%, largely due to growth of pre-recruits (Table 1). The 1986 fishery opened on September 25 with a guideline harvest of 6.0 to 13.0 million pounds compared to an estimated legal stock of 31.5 million pounds. The fishery closed October 7; final landings

exceeded 12 million lbs, but the statistics were not complete at this writing.

Figure 2 shows the relationship between catch rates in the fishery and estimates of abundance derived from annual trawl surveys. A catch rate of 5 to 10 crabs per pot-lift was expected in 1986, but preliminary information indicates that the fleet average was in the range of 10 to 14 crabs/pot-lift, indicating that the relationship between catch rates and abundance estimates is poorly defined.

Blue King Crab

This species is found in significant concentrations in the vicinity of the Pribilof Islands and St. Matthew Island (Charts 3 and 4 and Table 5). In the Pribilofs area, the area over which legal-sized crab occurred (Chart 3) was similar to last year. Most crab were found north and east of the islands, as usual. Legal crab occurred at temperatures between 0.8 and 4.0°C (average 2.0°C), and at depths between 25 and 46 fm (average 37). In both areas, the percentage of legal crab at each station (Chart 4) should be interpreted cautiously for reasons described above.

The abundance of legal-sized crab (Table 1) in the Pribilof District was stable from 1978 to 1981, but declined about 50% per year through 1985. The 1986 estimate of abundance of legal males increased slightly relative to 1985 and appears stable. The commercial fishery produced about 533,000 pounds in 1985. While

Table 1. -- Population estimates for eastern Bering Sea king crabs from NMFS surveys (millions of crab).

Bristol Bay and Pribilof Red King Crab		
Year	Pre-recruits[1]	Legals[1]
1969	20.3	9.8
1970[2]	8.4	5.3
1972	8.0	5.4
1973	25.9	10.8
1974	31.2	20.9
1975	31.7	21.0
1976	49.3	32.7
1977	63.9	37.6
1978	47.9	46.6
1979	37.2	43.9
1980	23.9	36.1
1981	18.4	11.3
1982	17.1	4.4
1983	10.4	1.5
1984	12.2	2.9
1985	10.1	2.5
1986[3]	12.4	6.0

	Pribilof Blue King Crab		St. Matthew Blue King Crab	
Year	Pre-recruits[1]	Legals[1]	Pre-recruits[4]	Legals[4]
1974	3.1	1.9		
1975	8.0	7.5		
1976	2.1	3.9		
1977	2.2	9.4		
1978	5.8	4.3	3.3	1.8
1979	1.5	4.6	3.0	2.2
1980	1.4	4.2	3.0	2.5
1981	1.4	4.2	2.2	3.1
1982	0.7	2.2	3.3	6.8
1983	0.8	1.3	1.9	3.5
1984	0.3	0.6	0.6	1.6
1985	0.16	0.3	0.4	1.1
1986[3]	0.02	0.4	0.4	0.4

[1] The size groups 110-134 mm carapace length, cl (5.2-6.4 in carapace width, cw) and ≥ 135 mm cl (6.5 in cw) have been used for pre-recruits and legals, respectively.
[2] Limited survey in 1971, not used for population estimates.
[3] Preliminary estimate subject to change upon further analysis.
[4] The size groups 105-119 mm cl (4.3-5.4 in cw) and ≥ 120 mm cl (5.5 in cw) have been used for pre-recruits and legals, respectively.

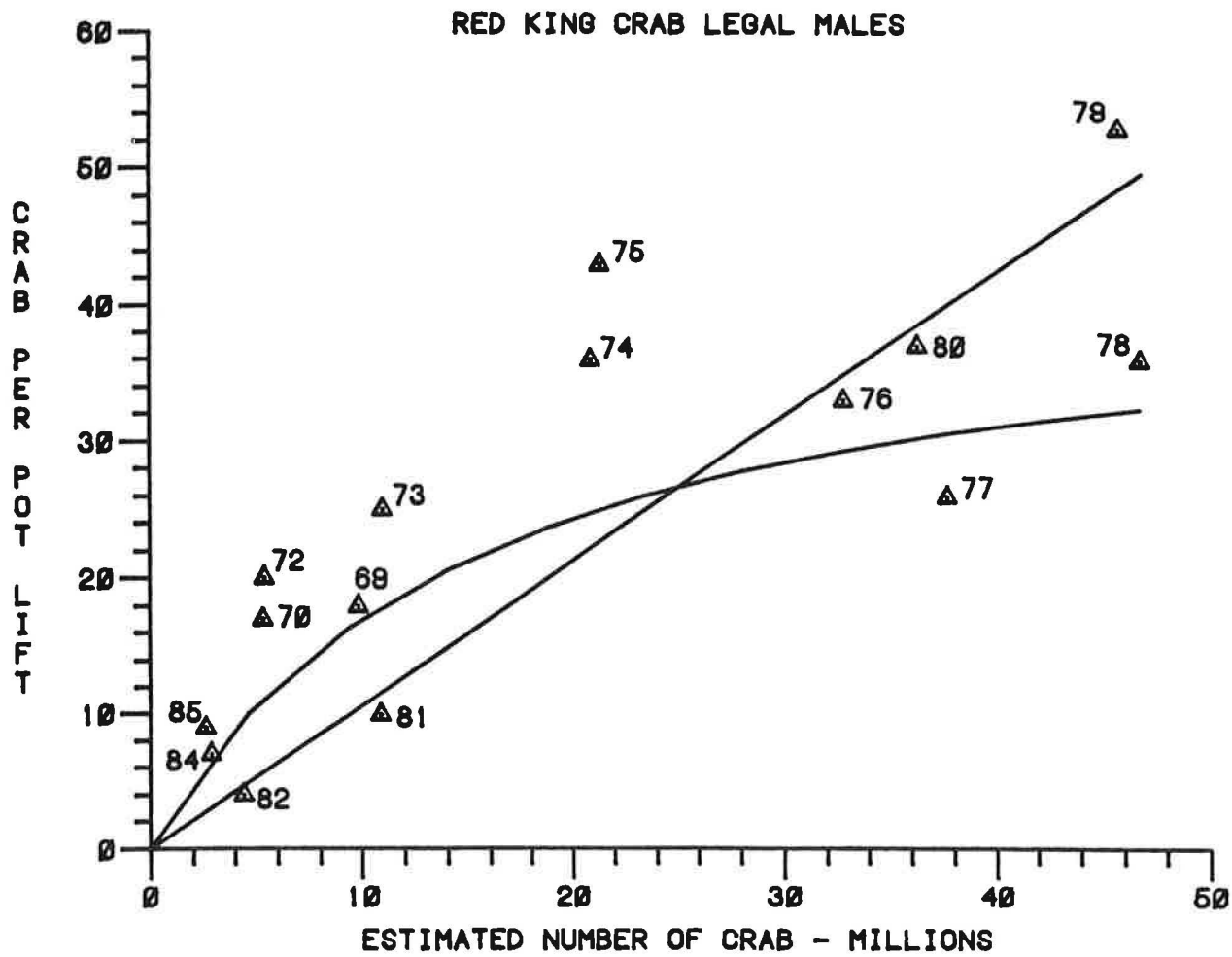


Figure 2. -- Relationship between the average number of red king crab (Paralithodes camtschatica) taken per pot in the U.S. fishery (year shown) and estimates of legal stock size from NMFS trawl surveys in the same year. No fishery occurred in 1983. The curved line assumes some limit to the number of crab a pot could catch.

there is not a clear relationship between the abundance of pre-recruits and later abundance of legals, declines in the abundance of pre-recruits over the past 3 years probably indicate low abundance of legal crab in 1987. The habitat of smaller males is rocky and untrawlable, so no long term forecast can be made.

The 1986 Pribilofs fishery opened September 25 with a guideline harvest of 0.3 to 0.8 million pounds as compared to an estimated 2.9 million pounds of legal stock. Catch and effort data are not yet available. Relationships between estimated abundance and catch rates suggest that the fleet average will be in the range of 2-4 crabs per pot-lift (Fig. 3), but it is often better than predicted.

The abundance of pre-recruit and legal crab in the St. Matthew Island area has been declining over the past four years (Table 1). Over the past year, abundance of legal crab declined by 64%, whereas pre-recruit abundance remained stable. Continued declines in the abundance of legal stock are expected in 1987. Legal males were found in depths from 31 to 59 fm (average 43) and temperatures from -0.6 to 1.1°C (average -0.2°C).

Relationships between estimated abundance and catch rates (Fig. 4) suggest that the fleet average would have been 1.5-4 crab per pot during the 1986 fishery (if the relationships were well-defined), but in fact, catch rates were better than predicted (see below).

The 1986 St. Matthew fishery opened on September 1 with a guideline harvest of 0.2-0.5 million pounds, and 37 vessels

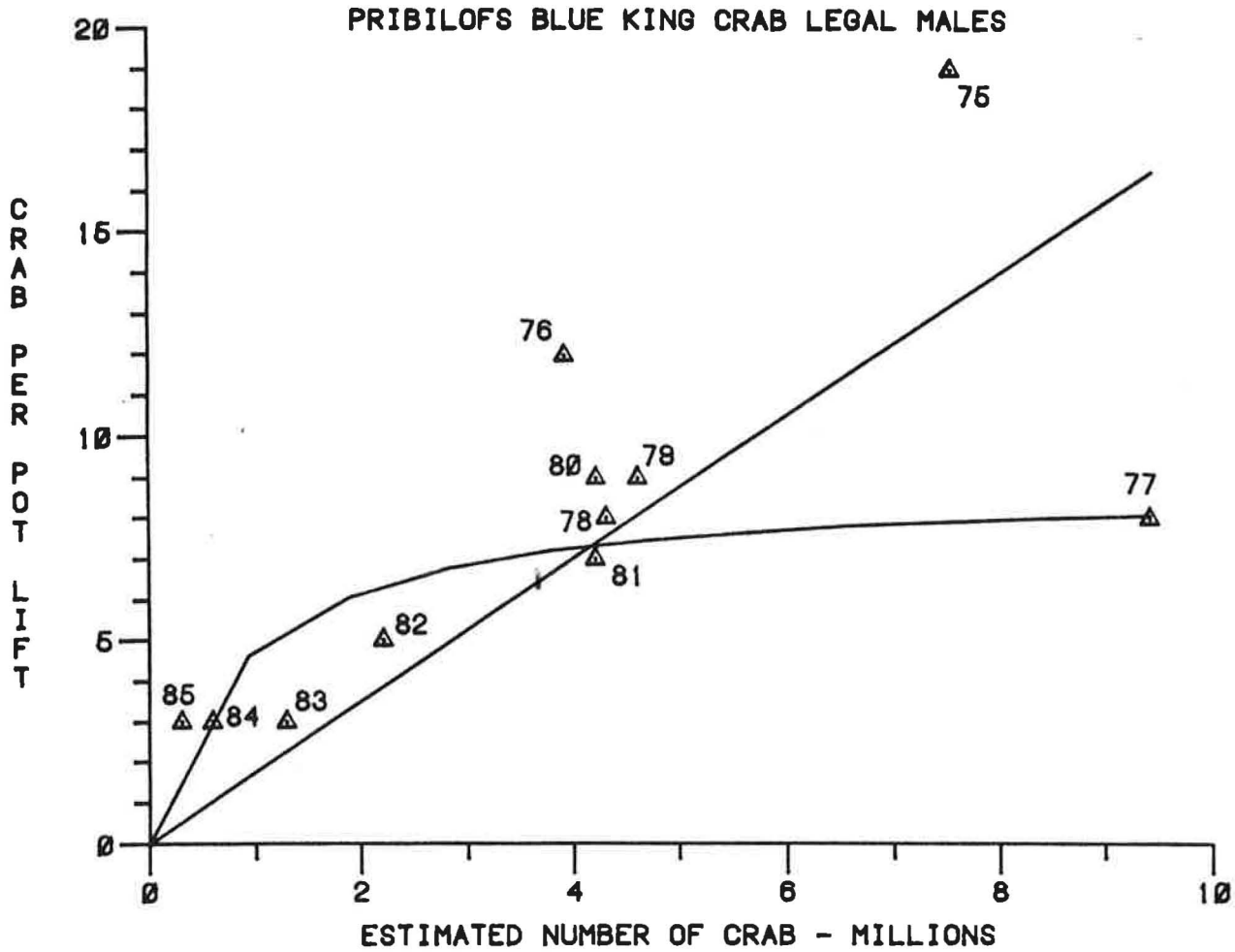


Figure 3. -- Relationship between the average number of Pribilof Island blue king crab (Paralithodes platypus) taken per pot in the U.S. fishery (year shown) and estimates of legal stock size from NMFS trawl surveys in the same year. The curved line assumes some limit to the number of crab a pot could catch.

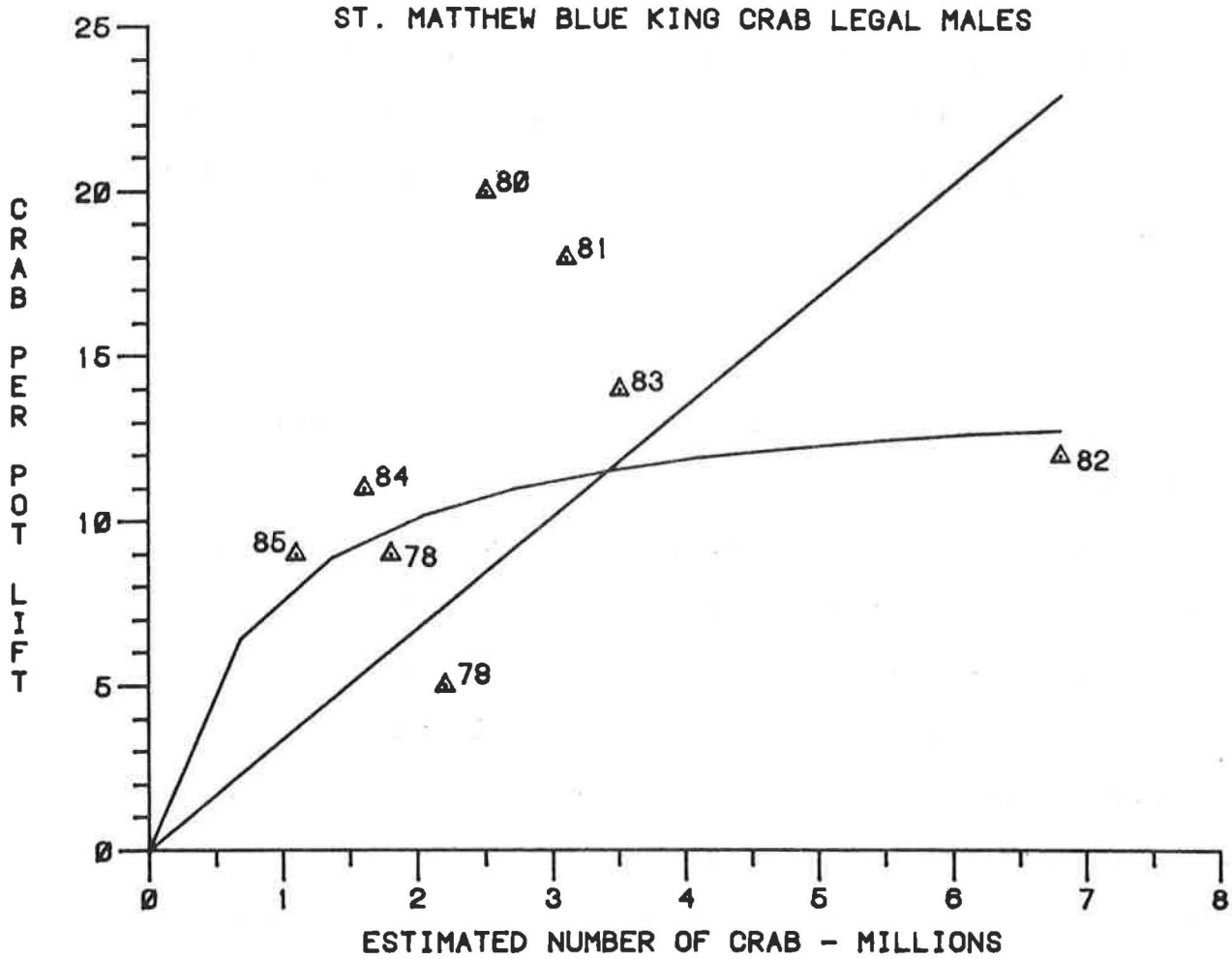


Figure 4. -- Relationship between the average number of St. Matthew Island (Northern District) blue king crab (Paralithodes platypus) taken per pot in the U.S. fishery (year shown) and estimates of legal stock size from NMFS trawl surveys in the same year. The curved line assumes some limit to the number of crab a pot could catch.

participated. Preliminary ADF&G statistics indicate that about 1.0 million pounds were landed in a one-week season with an average weight of about 4.4 pounds and an average CPUE of 11 crabs per pot-lift. The estimated exploitation rate was 59%, or about 228,000 crabs out of an estimated legal stock of 384,000 crabs. In comparison, during 1985, 79 vessels landed 2.4 million pounds or 485,000 crabs for an estimated exploitation rate of 47% and an average CPUE of 9 crabs per pot-lift.

Distribution and Abundance of Tanner Crabs

C. bairdi

The distribution of legal *C. bairdi* showed scattered areas of relatively high abundance along the north side of the Alaska Peninsula and along the continental shelf edge from Unimak Pass to the Pribilof Islands (Table 6, Charts 5 and 6). The highest concentrations of legal crab were found north of Port Moller, where percentages of legals were also highest. Most legal crab were found at 27 to 100 fm (average 51 fm) and at temperatures ranging from 0.8 to 4.4°C with an average temperature of 2.4°C.

The abundance of legal male *C. bairdi* has been generally declining from 1975 onward and is now at a new historic low of 3.1 million crab (7.3 million lbs) plus or minus 75% (Table 2). Over the past year the abundance of legal crab declined by 30% whereas pre-recruits increased by 33%. However, due to the imprecision of these estimates, it is not possible to predict whether the pre-recruits will recruit to the fishery in the

Table 2. -- Population estimates for eastern Bering Sea tanner crabs from NMFS surveys (millions of crab).

C. bairdi

Bristol Bay and Pribilof		
Year	Pre-recruits[3]	Legals[1]
1973	140.5	66.9
1974	255.0	130.5
1975	207.0	209.6
1976	136.6	109.5
1977	116.3	92.1
1978	81.2	45.6
1979	47.7	31.5
1980	65.0	31.0
1981	24.0	14.0
1982	46.9	10.1
1983	32.0	6.7
1984	21.2	5.8
1985	9.4	4.4
1986[2]	12.9	3.1

C. opilio

	Bristol Bay and Pribilof		Northern District	
Year	Small[3]	Large[3]	Small[3]	Large[3]
1973	38.7	84.7		
1974	169.2	246.7		
1975	247.4	274.8		
1976	190.4	181.6		
1977	196.6	137.3		
1978	171.6	78.4	8.2	10.5
1979	146.3	106.3	20.8	6.6
1980	99.1	53.6	30.4	4.2
1981	62.7	15.7	17.1	6.5
1982	63.8	10.8	70.4	10.9
1983	91.6	12.9	50.0	9.2
1984	104.1	54.0	66.3	20.0
1985	36.1	27.9	31.3	12.8
1986[2]	37.4	30.7	34.2	15.2

[1] A legal size limit of 5.5 in (140 mm) carapace width was imposed in 1976, but prior to this ≥ 5.0 in was used in the "Legal" column. In parallel, pre-recruit was 85-125 mm cw (3.3-5.0 in) prior to 1976 and 110-134 mm cw (4.3-5.5 in) since.

[2] Preliminary estimate subject to change upon further analysis.

[3] "Small" indicates a size range of 95-109 mm cw (3.7-4.3 in); "Large" indicates crab ≥ 110 mm cw (≥4.3 in).

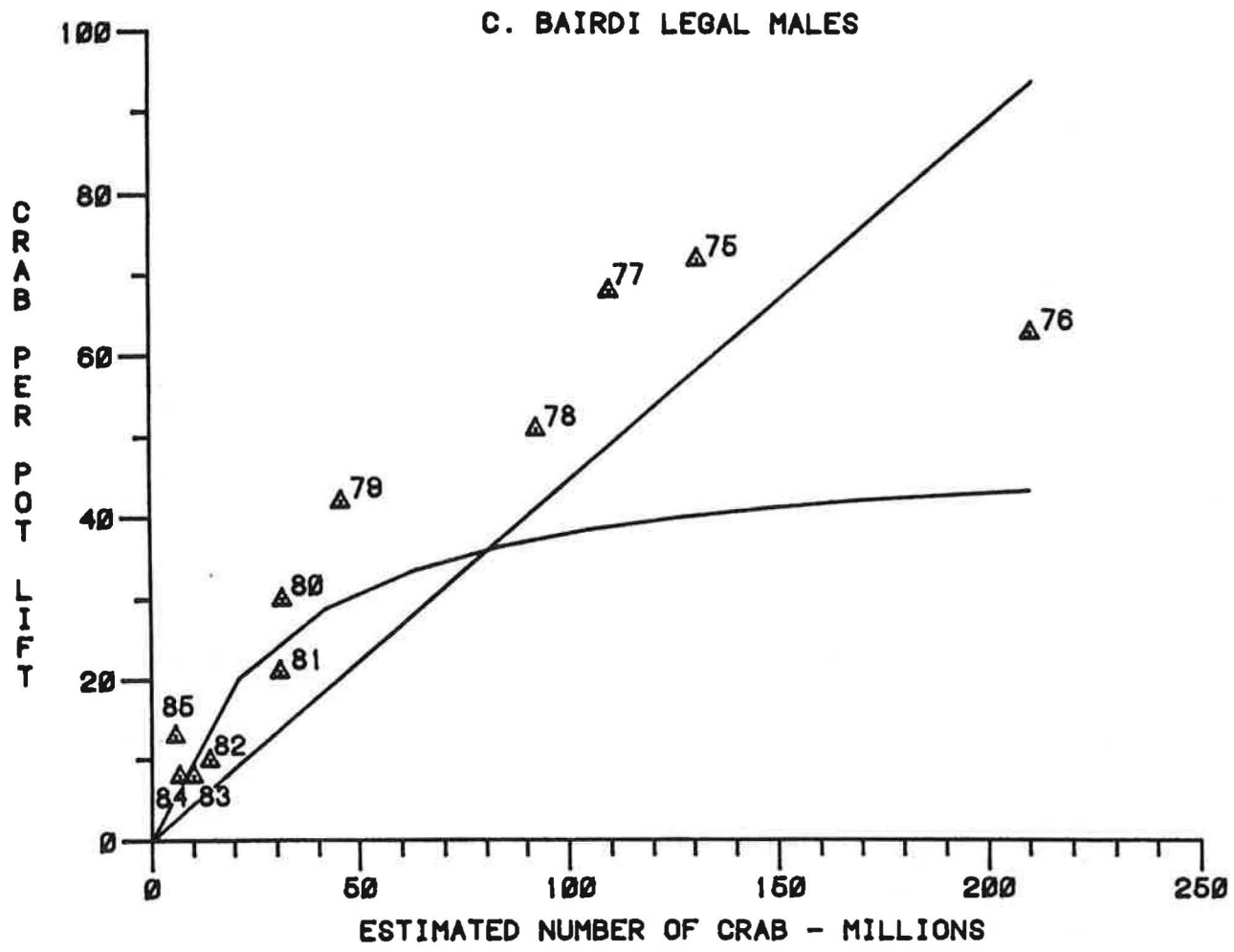


Figure 5. -- Relationship between the average number of tanner crab (Chionoecetes bairdi) taken per pot in the U.S. fishery (year shown) and estimates of legal stock size from NMFS trawl surveys in the preceding year. The curved line assumes some limit to the number of crab a pot could catch.

future. Recruitment trends and more detailed size-frequency data indicate that legal crab abundance will probably not improve in the next year.

Landings have fallen from 30 million pounds in 1981 to 1.2 million in 1984. The 1985 fishery produced 3.2 million pounds landed by 38 vessels with an average catch of 12 crabs per pot-lift. The low abundance of crab in 1985 prompted a closure of that fishery in 1986. Continued low abundance in 1986 led to another closure for 1987. Relationships between population estimates and catch rates are very poorly understood for this species (Fig. 5).

C. opilio and Hybrid Tanner Crab

Distribution data for *C. opilio* and hybrid tanner crab are combined in this report because the number of hybrids is small and most hybrids are landed as *C. opilio*. Until June 1982, there was no size limit for *C. opilio* but most of the catch was greater than 4.3 inches carapace width. A size limit of 3.1 inches was established but the size of crab landed has fluctuated with market conditions. Approximately 95% of the crab landed in 1985 were larger than 3.7 inches. The "small" and "large" size groups used in this report refer to size ranges of 3.7-4.3 inches, and ≥4.3 inches, respectively.

There has been considerable controversy over the landing of hybrids and confusion of hybrids with sub-legal *C. bairdi*. This

problem has been most prevalent near the Pribilof Islands. Most hybrids are found in areas where the distributions of *C. bairdi* and *C. opilio* overlap. While hybrids are usually more concentrated in the Pribilofs and in areas northwest of the Islands, they are also found in northern portions of Bristol Bay.

Since the majority of recently landed crab are in the "small" size range, the discussion and charts reflect the distribution of exploitable crab (small plus large crab, i.e., all crab over 3.7 inches). The distribution of small and large males showed an area of high concentration in a broad band north of the Pribilof Islands (Table 7, Charts 7 and 8). There were also areas of high abundance in the extreme northwestern portion of the survey area and there are probably some exploitable crab in unsurveyed areas. Crab larger than 3.7 inches were taken at depths from 20 to 100 fm (average 48), and temperatures from -1.4 to 5.4°C (average 1.0). Percentages of exploitable crab (Chart 8) are difficult to interpret because of the close association between the distributions of these and pre-recruit size groups.

Combining districts, the abundance of both small and large males remained stable relative to the 1985 survey (Table 2). More detailed size-frequency data indicate the presence of large numbers of juvenile crab (less than 3.7" width), but these crab are several years from reaching exploitable sizes and it is not possible to predict their availability so far in advance. Recruitment patterns in this stock are not entirely clear as recruitment evidently occurs both through localized production

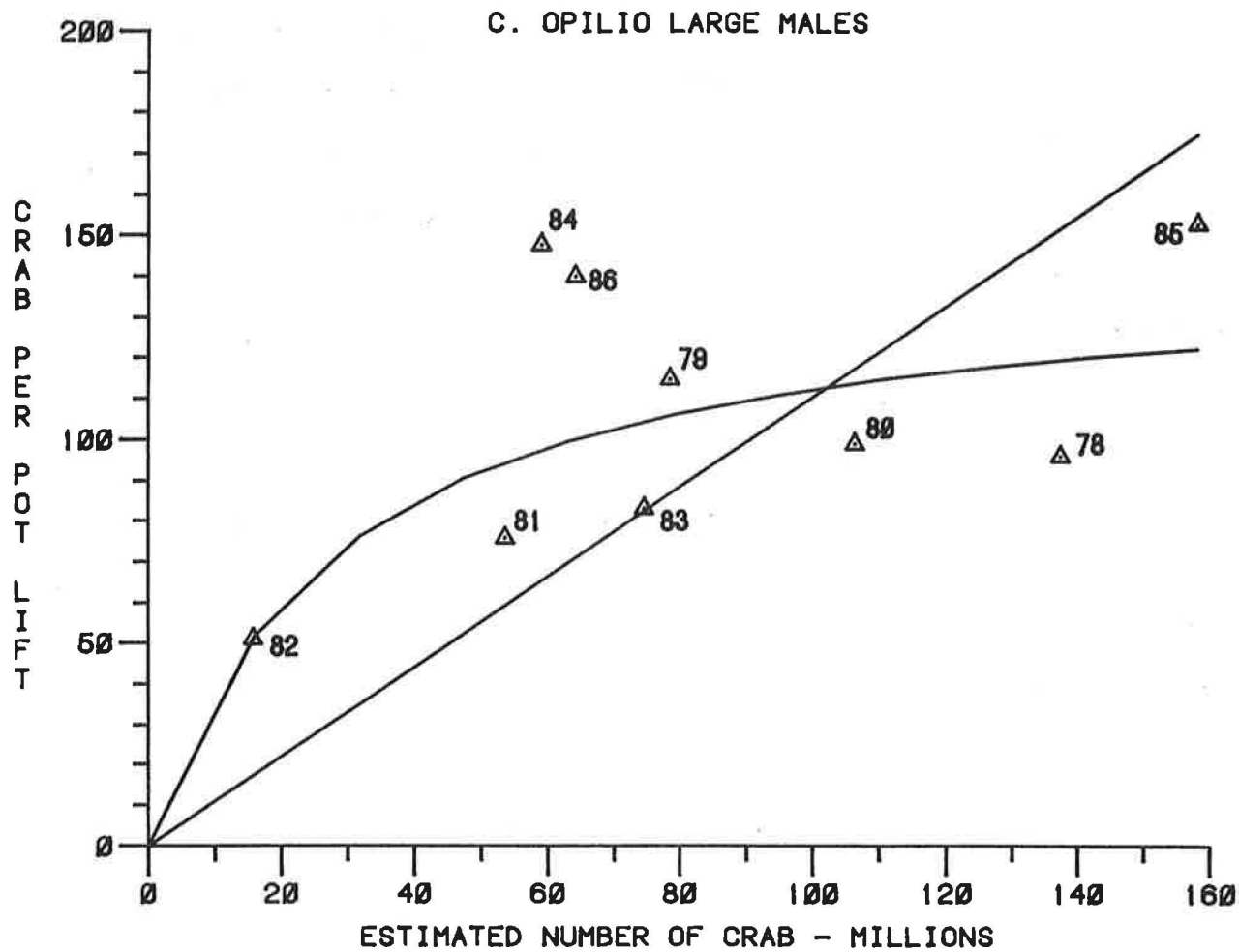


Figure 6. -- Relationship between the average number of tanner crab (Chionoecetes opilio) taken per pot in the U.S. fishery (year shown) and estimates of stock size from NMFS trawl surveys in the preceding year. "Large" is >109 mm (4.3 in) from 1978-1983, ≥95 mm (3.7 in) from 1984 to present, and generally corresponds to minimum harvested size. Data are limited to the Pribilof and Bristol Bay Districts only. The curved line assumes some limit to the number of crab a pot could catch.

and by immigration. Approximately 46% of male crabs ≥4.0" width were softshell during the survey period as opposed to only 2% at this time in 1985.

The 1986 fishery was extended in the Northern District to August 24. Preliminary ADF&G statistics show that 1986 landings were a record high of over 104 million pounds with an average catch rate of 140 crabs/pot-lift in the combined Bristol Bay and Pribilof Districts. In 1986 the fishery expanded to regions northwest of the survey area. Approximately 33% of the landings came from the Northern District. Comparative fishery statistics for 1985 were 75 vessels landing 66.0 million pounds with an average catch rate of 120 crabs per pot. Currently there is an estimated 140 (± 27.8) million pounds of exploitable stock (≥3.7 inches width) within the survey area. Relationships between catch rates and population estimates indicate the catch rates in 1987 could be in the range of 70-100 crab-per-pot (Fig. 6). Guideline harvests for 1986 have not yet been determined.

Distribution and Abundance of Hair Crab

Large hair crab (≥3.5 inches carapace length, no legal size) were found in major concentrations to the east and northeast of the Pribilof Islands and in low numbers in a band that extends along the southern edge of Bristol Bay (Chart 9 and 10, and Table 8). Isolated individuals were found almost as far north as the St. Matthew Is. area. Pre-recruit crab were found in the same areas as large crab but in much lower abundance. Large hair crab

were taken in 22 to 46 fm (average 34) and at temperatures of 0.0 to 4.0°C (average 2.4°C). Large males were 100% of the catch in many areas (Chart 10), however, in areas of high abundance they occurred with pre-recruits, small males and females. We have never found many female or small male crab during the survey and hence have little understanding of their distribution. There was little change in the distribution of pre-recruit and large hair crab from 1985 to 1986 and the vast majority of the resource remains concentrated in the Pribilof District.

The abundance of hair crab has been declining since 1981 (Table 3). Over the past year abundance of large crab declined by 34%, all districts combined. Size-frequency data provide little information on recruitment trends, but abundance will likely remain low in 1987.

The fishery is largely incidental to tanner crabbing although there is some directed effort. Preliminary ADF&G statistics as of September 15, 1986 showed only one delivery by one vessel. Past landings have been 508,000 pounds in 1984 and 30,000 lbs in 1985. Currently there are an estimated 1.5 million large crabs (≥3.5 inches wide) or 2.7 (± 1.3) million lbs on the grounds. There are no guideline harvest levels, closed seasons or size limits for hair crab. The fishery and markets have both been intermittent and probably will remain so during 1987.

Past landings have reflected market conditions rather than abundance. Currently, low abundance of pre-recruits and continued declines in the abundance of large crab indicate that abundance may soon limit production. However, there is still strong interest in these crab by Japanese buyers.

Table 3. -- Population estimates for eastern Bering Sea hair crab from NMFS surveys (millions of crab).

Year	Pre-recruits	Large[1]
1979	4.5	16.1
1980	5.1	13.7
1981	4.8	15.9
1982	1.2	7.7
1983	0.7	4.8
1984	0.6	2.9
1985	0.4	2.2
1986[2]	0.4	1.5

[1] "Large" is ≥90 mm cw (3.5 in) which is approximately the size at entry into the U. S. fishery; pre-recruit is 75-89 mm cw (3.0-3.4 in).
[2] Preliminary estimate subject to change upon further analysis.

Bottom Temperatures

The average bottom water temperature in 1986 was 1.8°C as compared to 2.3°C in 1985 and 2.5°C in 1984. The coldest waters were encountered around St. Matthew Island and extended considerably to the south (Chart 11). The warmest waters were found in Kuskokwim Bay and inner Bristol Bay. The area of cold water associated with St. Matthew Island was more extensive in 1986 than in 1985. Most year-to-year variation in temperature is associated with relatively shallow areas of the continental shelf and near shore. There is little year-to-year change in the Pribilof Islands and other shelf edge areas where temperatures are moderated by incursions of deep ocean water. The effect of water temperature on changes in the distribution and abundance of crabs in the eastern Bering Sea is poorly known.

A note on Tagging and Tag Returns

For the past 5 years, NMFS has tagged a number of crabs each year. These include red, blue and golden (brown) king crabs. In Bristol Bay, about 10,000 pot-caught red king crabs were tagged in 1985, and 290 trawl-caught crabs were tagged in 1986. The purpose of our tagging program is to gather information on growth, migrations, and the frequency of molting. For this reason, we need fairly complete information with returned tags. Tag returns are not used to monitor or close fisheries. All tagged crabs, regardless of size or sex, may be retained for the purpose of tag data recovery. The following information is requested:

1. Name and mailing address of person to receive reward
2. Tag number (one or both tags if present)
3. Length-width measurements (length - from rear of eye socket to middle of back of carapace; width - maximum width including spines)
4. Recovery date
5. Recovery location
6. Depth
7. Vessel ADF&G number

This information will be recorded on stamped data cards and if possible validated by ADF&G biologists before being mailed to the NMFS in Kodiak. The reward will be mailed to the address on the card. The crab will remain the property of the catcher vessel.

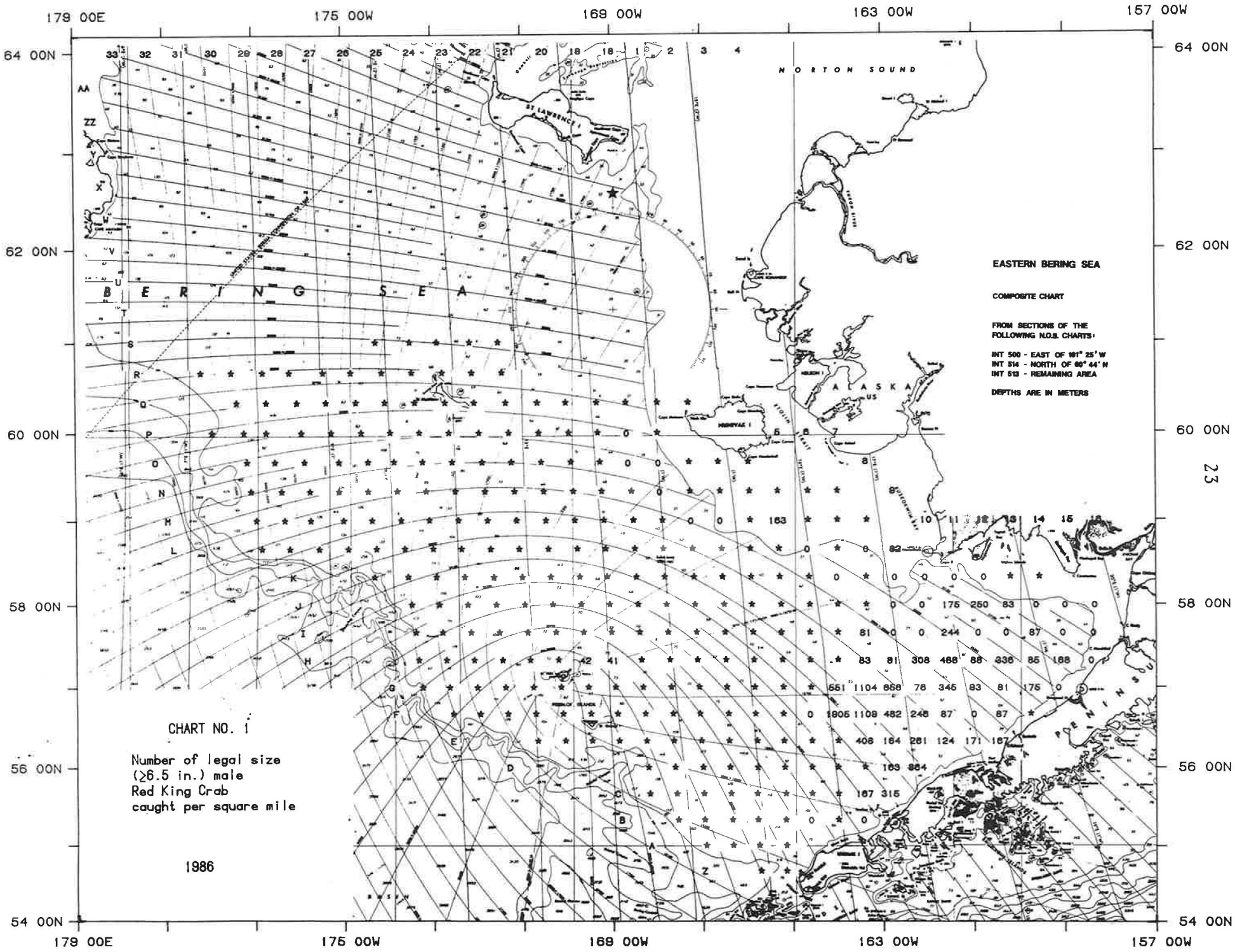
A reward of $10.00 will be paid for all tags returned with complete information with the exception of 70 predetermined numbers. Of these 70 tags, 40 will have a reward value of $25.00, 20 a reward value of $50.00 and 10 a reward value of $100.00. Tags returned without the above information will have a reward value of $1.00.

After the fishery is closed and all returns have been checked for completeness and accuracy, six of the returned numbers will be randomly selected by computer. Of these randomly selected numbers, three will have an additional reward value of $200.00 and three will have an additional reward value of $300.00. In each case, the returned tag must be accompanied by all of the above listed information to be eligible.

Cooperation is essential to the success of this program.

Acknowledgements

Successful completion of the annual eastern Bering Sea crab-groundfish survey is crucially dependent on the skipper and crews of the participating vessels. We extend special thanks to Dave Stanchfield (F/V Morning Star), Tom Oswald (R/V Alaska), and their crews.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INT 514 - NORTH OF 60° 44' N
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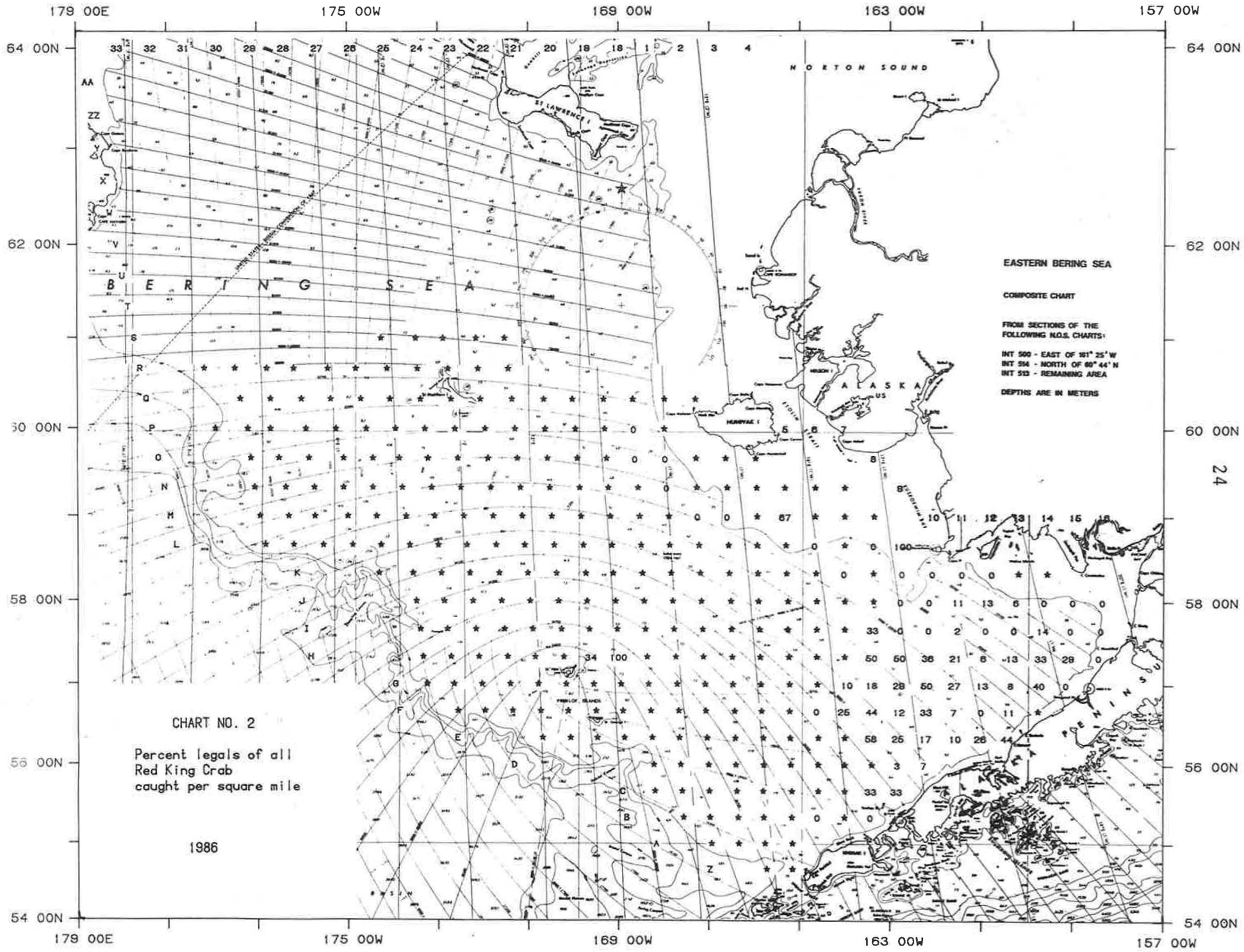
Number of legal size (≥6.5 in.) male Red King Crab caught per square mile
1986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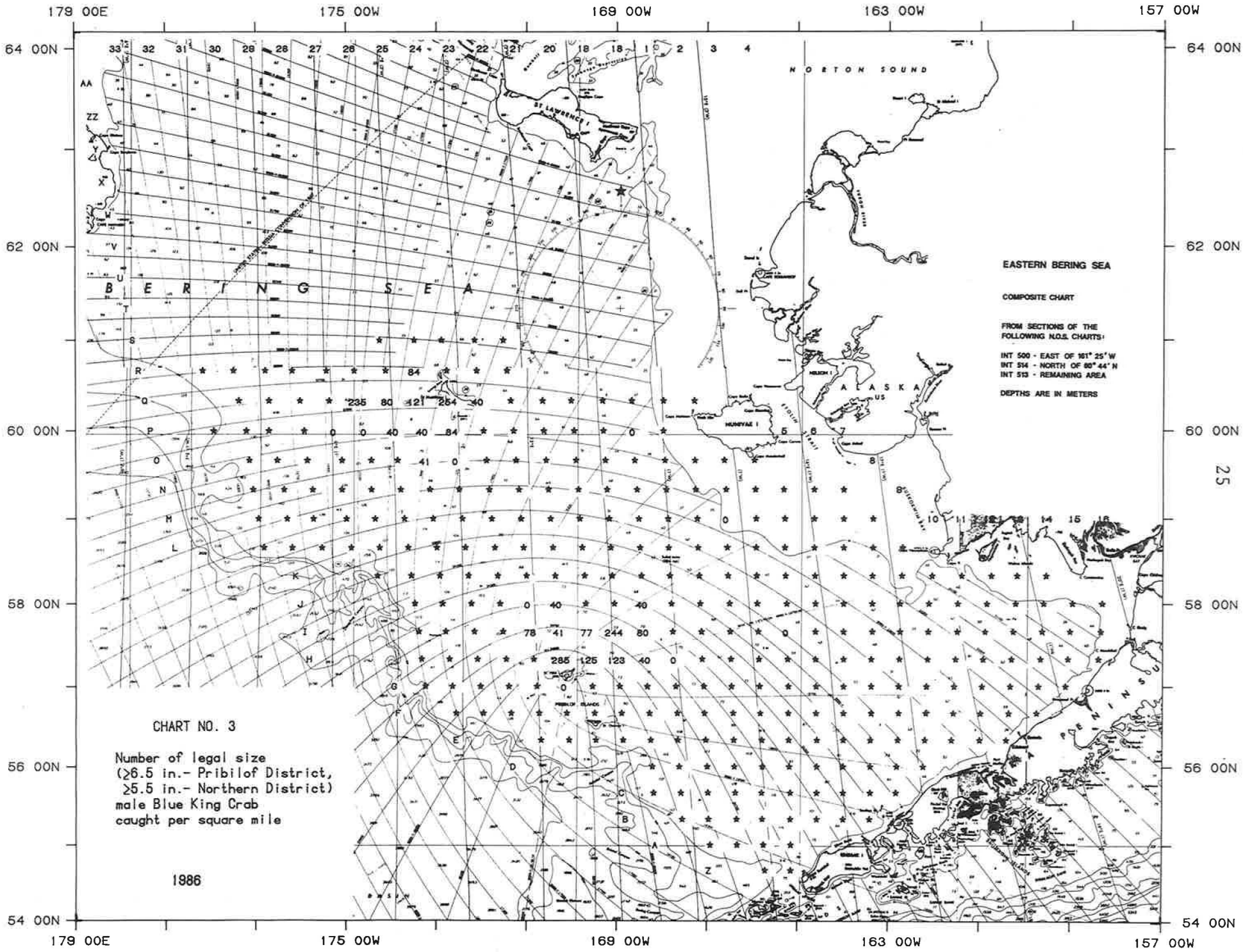
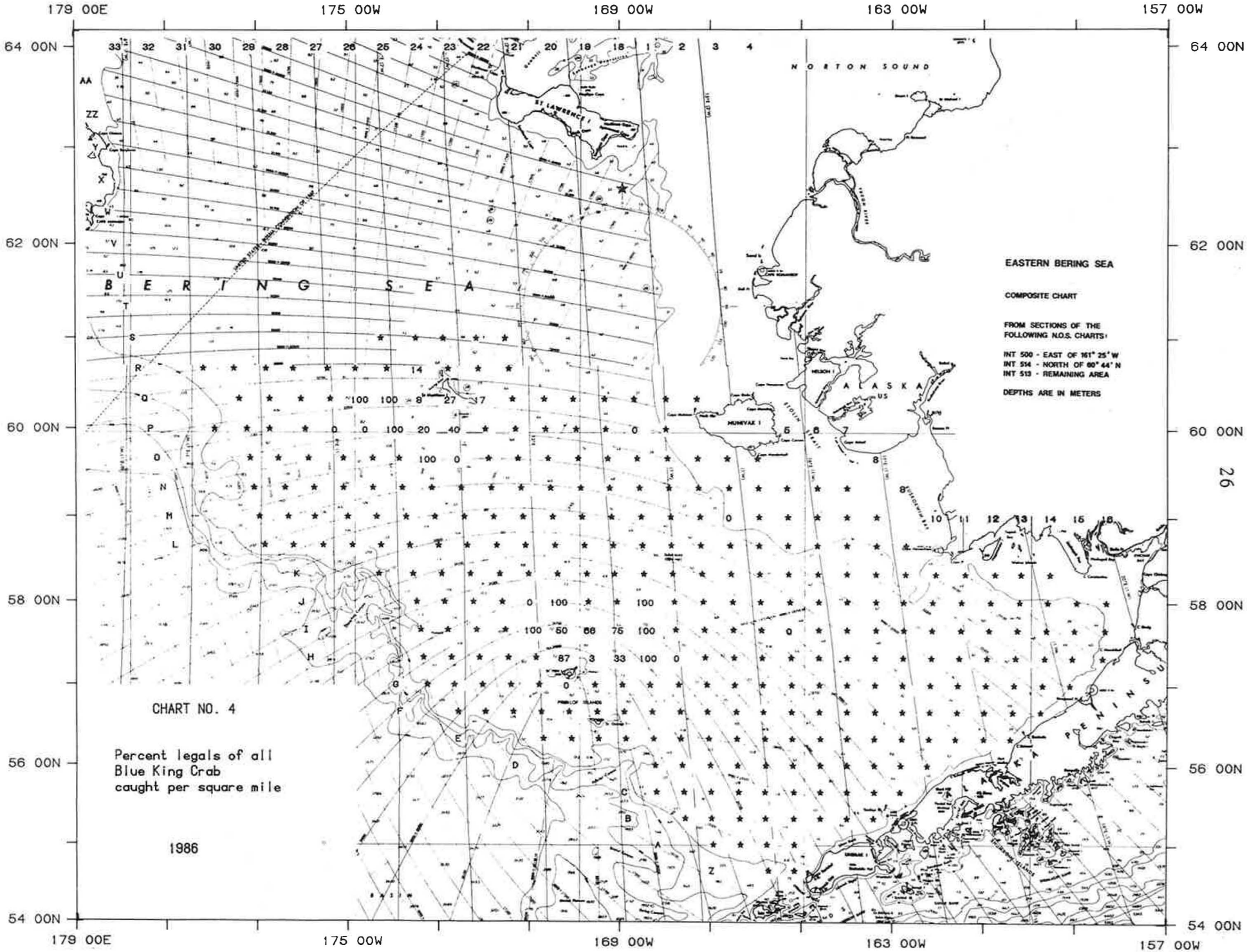
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 2
Percent legals of all Red King Crab caught per square mile
1986


179 00E
175 00W
169 00W
163 00W
157 00W
64 00N
62 00N
60 00N
58 00N
56 00N
54 00N
NORTON SOUND
ST LAWRENCE I
BERING SEA
ALASKA
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 3
Number of legal size
(≥6.5 in.- Pribilof District,
≥5.5 in.- Northern District)
male Blue King Crab
caught per square mile
1986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169 00W
163 00W
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62 00N
60 00N
58 00N
56 00N
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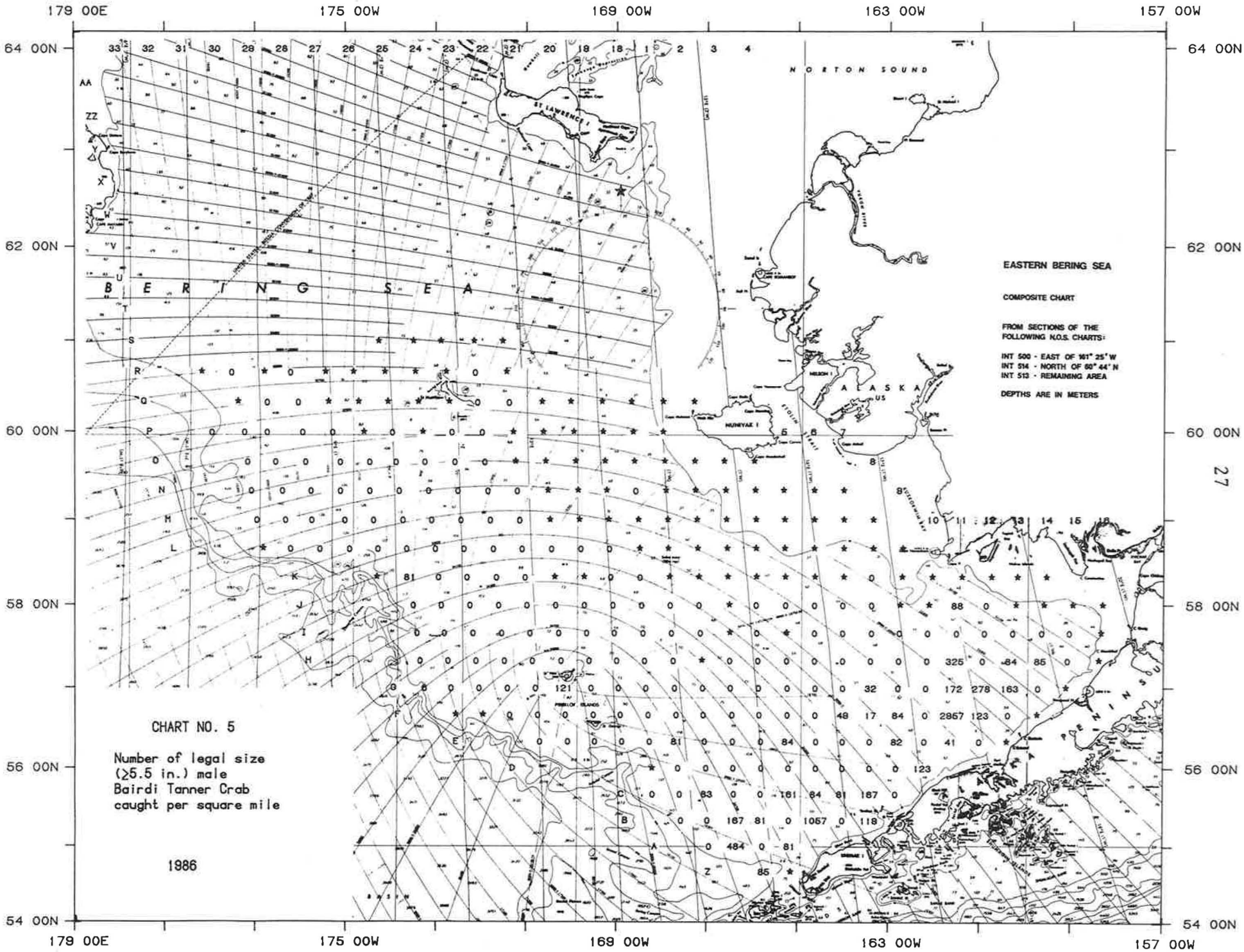
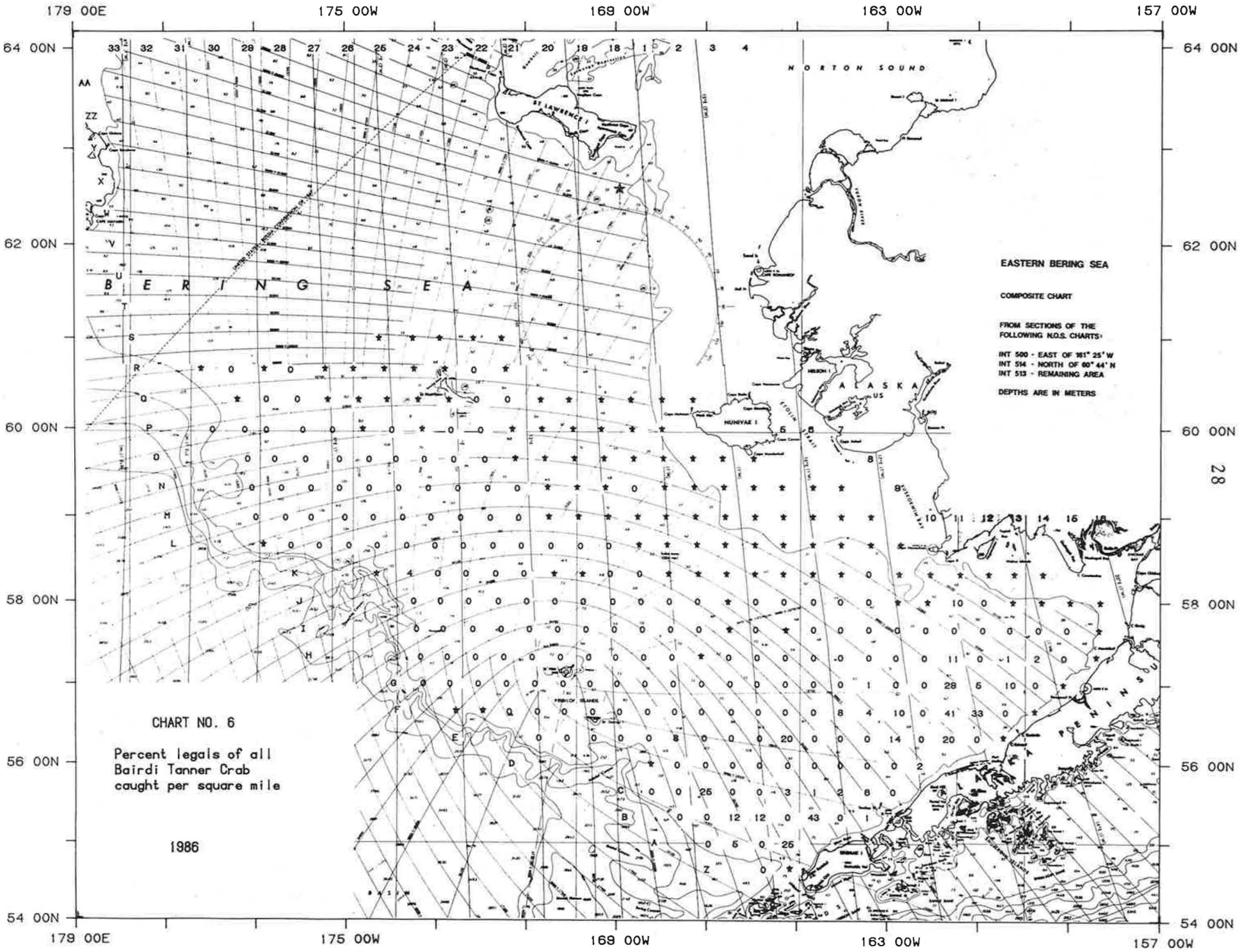
NORTON SOUND
ST LAWRENCE I
BERING SEA
ALASKA
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 4
Percent legals of all Blue King Crab caught per square mile
1986


179 00E
175 00W
169 00W
163 00W
157 00W
64 00N
62 00N
60 00N
58 00N
56 00N
54 00N
NORTON SOUND
ST LAWRENCE I
BERING SEA
ALASKA
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 5
Number of legal size (≥5.5 in.) male Bairdi Tanner Crab caught per square mile
1986


179 00E
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169 00W
163 00W
157 00W
64 00N
62 00N
60 00N
58 00N
56 00N
54 00N
NORTON SOUND
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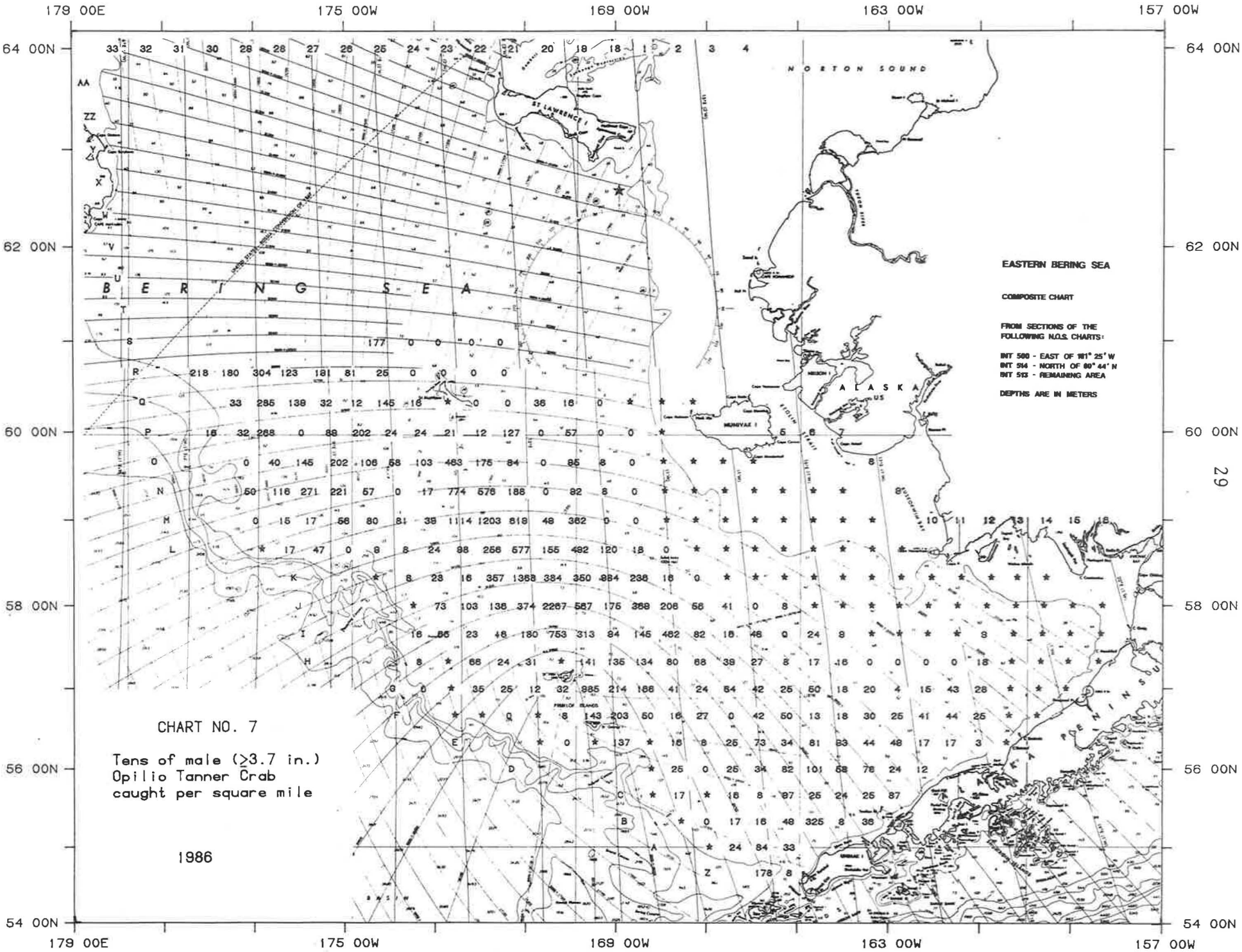
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 6
Percent legals of all Bairdi Tanner Crab caught per square mile
1986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163 00W
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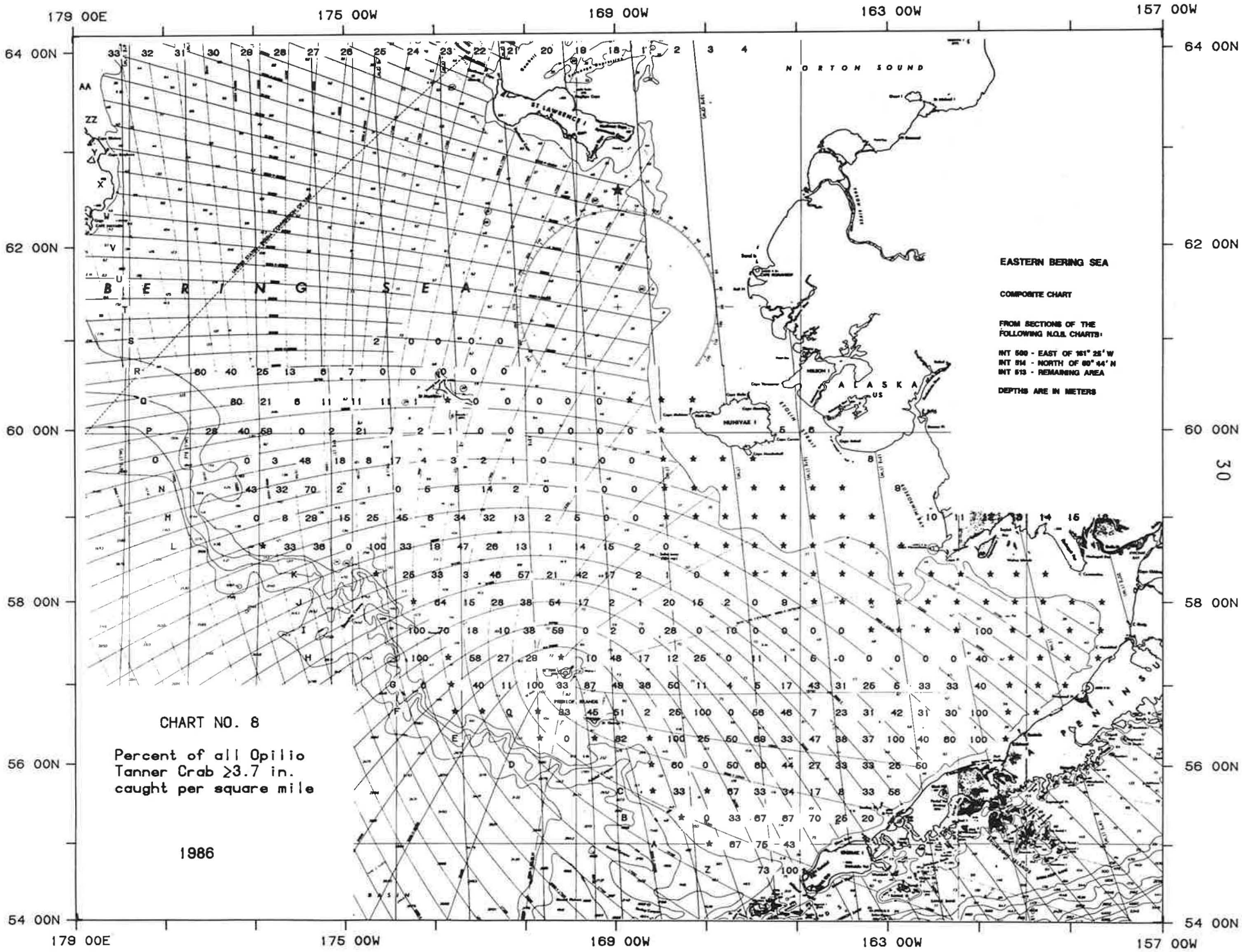
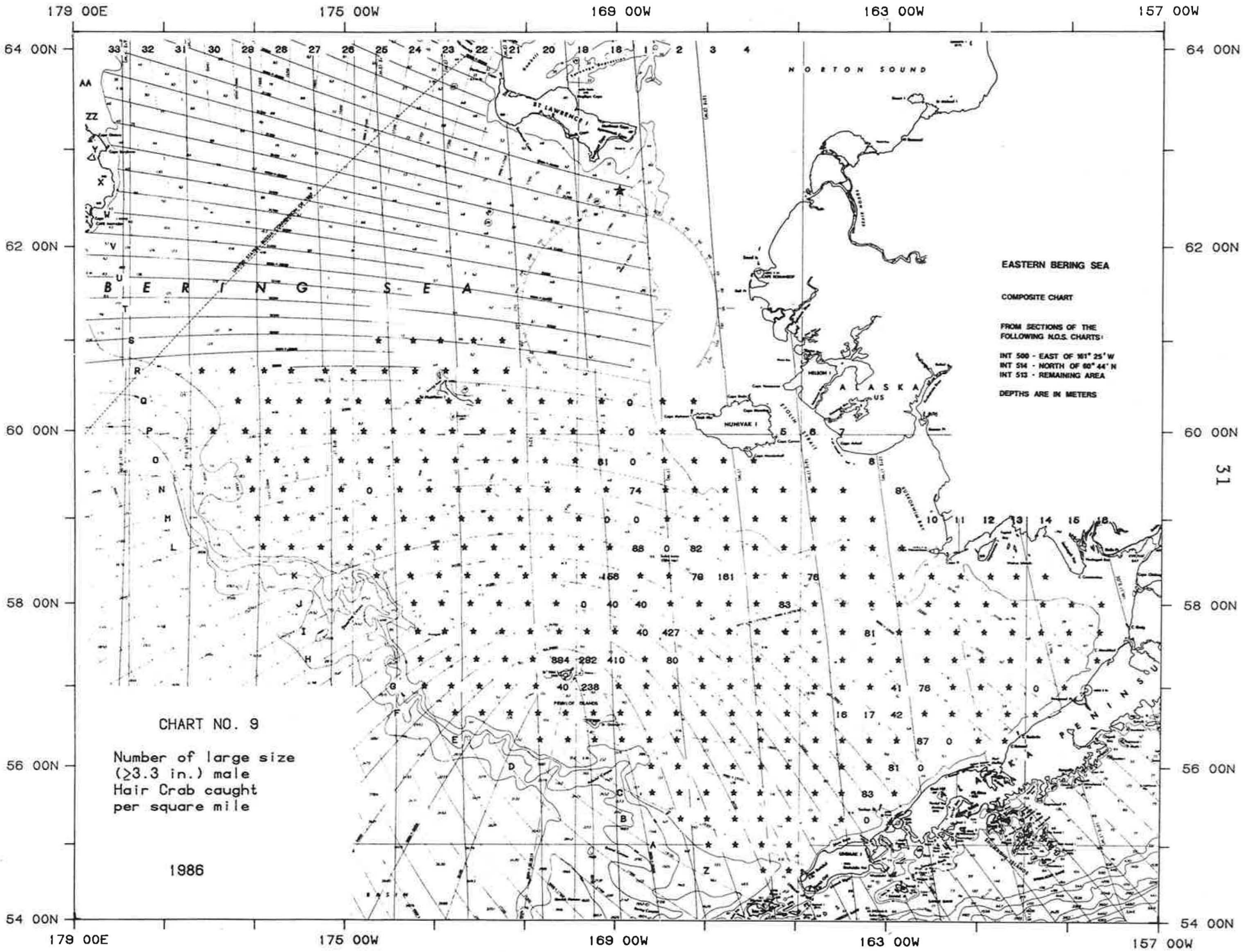
64 00N
62 00N
60 00N
58 00N
56 00N
54 00N
NORTON SOUND
ST LAWRENCE I
BERING SEA
ALASKA
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 7
Tens of male (≥3.7 in.) Opilio Tanner Crab caught per square mile
1986


179 00E
175 00W
169 00W
163 00W
157 00W
64 00N
62 00N
60 00N
58 00N
56 00N
54 00N
NORTON SOUND
ST LAWRENCE I
B E R I N G S E A
A L A S K A
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 8
Percent of all Opilio Tanner Crab ≥3.7 in. caught per square mile
1986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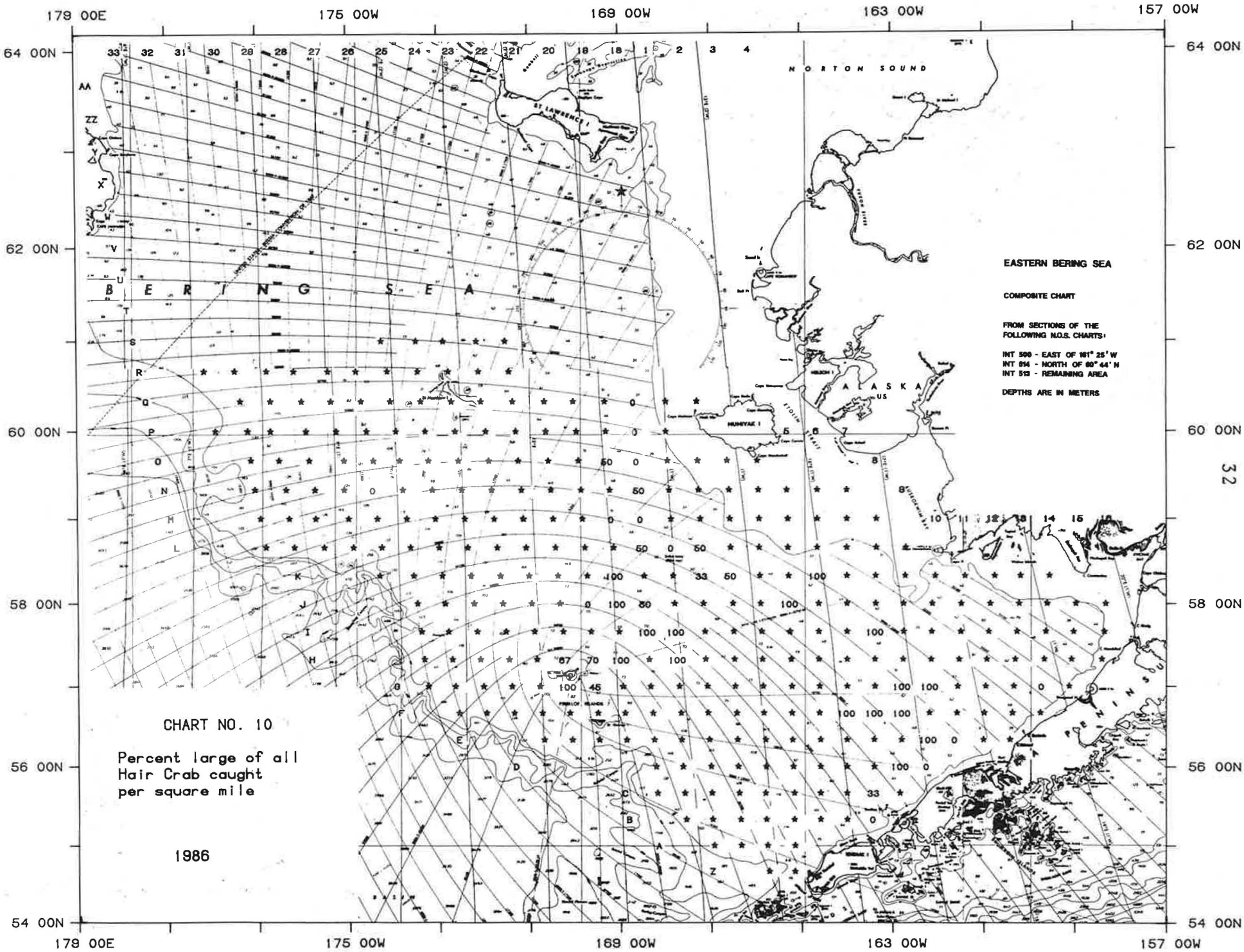
175 00W
169 00W
163 00W
157 00W
64 00N
62 00N
60 00N
58 00N
56 00N
54 00N
NORTON SOUND
ST LAWRENCE I
BERING SEA
ALASKA
NUNIVAK I
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 9
Number of large size (≥3.3 in.) male Hair Crab caught per square mile
1986


179 00E
175 00W
169 00W
163 00W
157 00W
64 00N
62 00N
60 00N
58 00N
56 00N
54 00N
NORTON SOUND
ST LAWRENCE I
BERING SEA
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EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 10
Percent large of all Hair Crab caught per square mile
1986

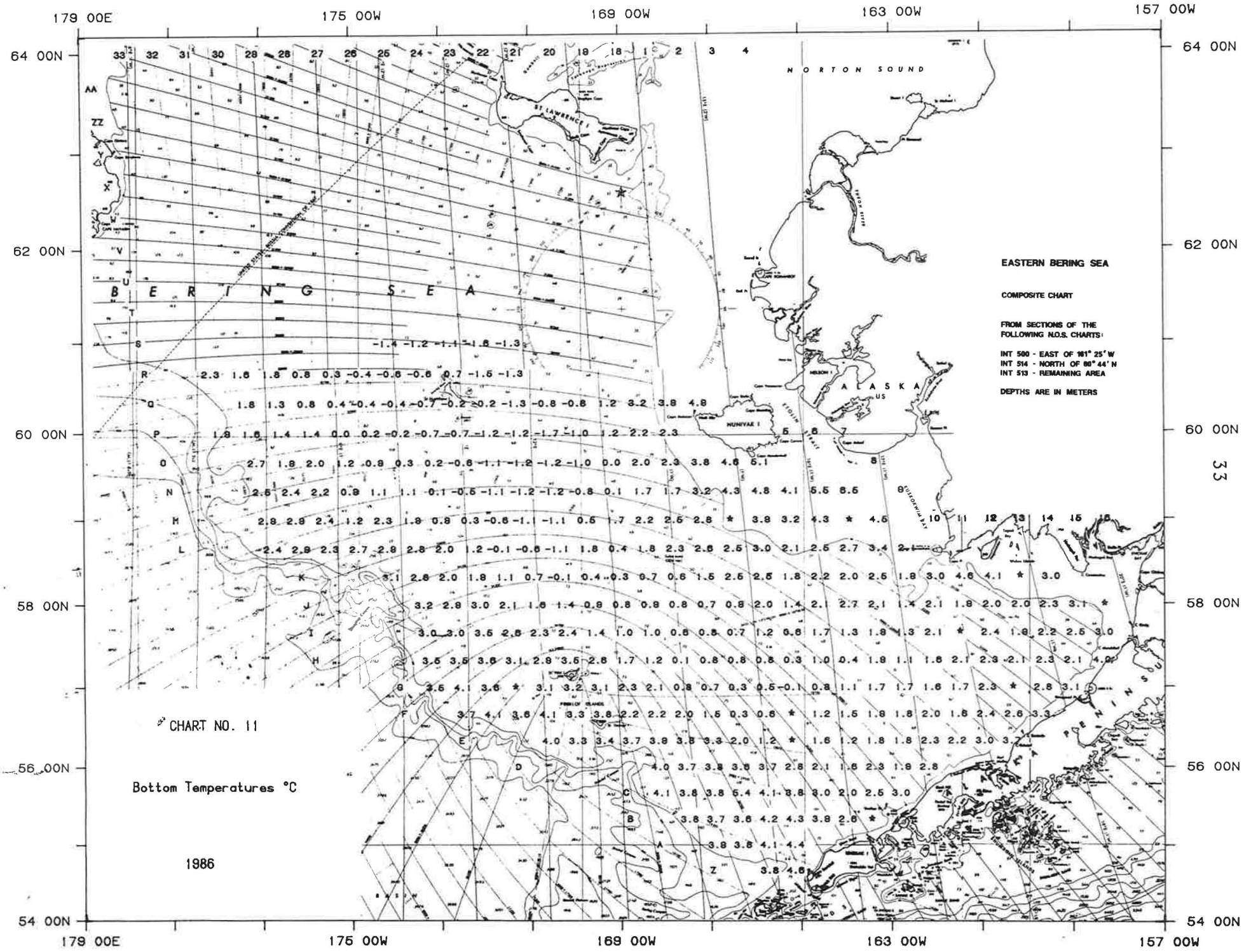
EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
DEPTHS ARE IN METERS
CHART NO. 11
Bottom Temperatures °C
1986
BERING SEA
NORTON SOUND
ALASKA
179 00E
175 00W
169 00W
163 00W
157 00W
64 00N
62 00N
60 00N
58 00N
56 00N
54 00N

TABLE 4 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
B06	6/17	55-20	164-34	Y34424 Z47867	55	3.9	0.0	0.0	81.0	0.0	81.0	0.0
B08	6/10	55-21	163-25	Y34240 Z47431	27	.	119.0	0.0	119.0	0.0	238.0	0.0
C08	6/10	55-40	163-24	Y34171 Z47431	43	2.5	0.0	83.0	250.0	167.0	500.0	33.4
C09	6/10	55-40	162-50	Y34084 Z47215	29	3.4	79.0	79.0	472.0	315.0	945.0	33.3
D09	6/10	56-00	162-49	Y33999 Z47208	45	2.3	1463.0	3089.0	1626.0	163.0	6341.0	2.6
D10	6/10	56-00	162-14	Y33912 Z46979	38	2.8	6790.0	2963.0	2469.0	864.0	13086.0	6.6
E08	6/11	56-21	163-23	Y34006 Z47437	40	1.8	0.0	0.0	579.0	413.0	992.0	41.6
E08	8/06	56-20	163-41	Y34058 Z47553	48	2.0	0.0	0.0	0.0	244.0	244.0	100.0
E08	8/06	56-21	163-23	Y34003 Z47432	48	2.5	0.0	0.0	323.0	565.0	887.0	63.7
E09	6/10	56-20	162-47	Y33911 Z47197	45	2.2	0.0	492.0	0.0	164.0	656.0	25.0
E10	6/10	56-20	162-11	Y33817 Z46958	41	2.3	1043.0	174.0	87.0	261.0	1565.0	16.7
E11	6/07	56-20	161-34	Y33721 Z46712	36	2.6	880.0	160.0	720.0	160.0	1920.0	8.3
E11	6/06	56-13	161-18	Y33712 Z46606	25	.	171.0	171.0	0.0	85.0	427.0	19.9
E12	6/05	56-11	161-05	Y33689 Z46518	20	.	85.0	0.0	0.0	85.0	170.0	50.0
E12	6/05	56-16	160-57	Y33649 Z46467	25	.	256.0	171.0	256.0	256.0	940.0	27.2
E12	6/07	56-19	160-59	Y33636 Z46479	28	3.0	172.0	172.0	345.0	172.0	862.0	20.0
E13	6/05	56-11	160-41	Y33629 Z46358	15	.	168.0	0.0	0.0	168.0	336.0	50.0
E13	6/05	56-28	160-24	Y33511 Z46239	21	.	167.0	0.0	83.0	167.0	417.0	40.0
F06	6/16	56-40	164-35	Y34120 Z47916	40	1.2	0.0	85.0	0.0	0.0	85.0	0.0
F07	8/06	56-29	164-00	Y34071 Z47683	47	2.0	0.0	0.0	407.0	1301.0	1707.0	76.2
F07	8/06	56-29	164-19	Y34124 Z47805	46	1.7	0.0	0.0	81.0	323.0	403.0	80.1
F07	6/11	56-39	163-59	Y34021 Z47676	43	1.7	0.0	6199.0	20824.0	6756.0	33779.0	20.0
F07	8/04	56-39	164-01	Y34025 Z47685	43	2.0	0.0	0.0	256.0	513.0	769.0	66.7
F07	8/04	56-39	164-18	Y34072 Z47800	42	.	0.0	0.0	82.0	410.0	492.0	83.3
F08	8/04	56-39	163-42	Y33973 Z47563	43	.	0.0	0.0	840.0	336.0	1176.0	28.6
F08	8/04	56-39	163-23	Y33918 Z47432	43	2.2	0.0	163.0	488.0	244.0	894.0	27.3
F08	8/06	56-29	163-42	Y34019 Z47560	46	2.3	0.0	0.0	744.0	1736.0	2479.0	70.0
F08	8/06	56-29	163-23	Y33966 Z47437	46	2.2	0.0	0.0	83.0	2000.0	2083.0	96.0
F08	6/11	56-39	163-22	Y34912 Z47425	40	1.9	83.0	1157.0	3388.0	1240.0	5868.0	21.1
F09	6/09	56-40	162-47	Y33814 Z47194	40	2.0	263.0	351.0	88.0	351.0	1052.0	33.4
F09	8/06	56-29	163-08	Y33922 Z47331	46	2.3	0.0	83.0	248.0	165.0	496.0	33.3
F09	8/04	56-39	163-06	Y33872 Z47318	42	.	413.0	6446.0	3471.0	744.0	11074.0	6.7
F09	8/04	56-39	162-48	Y33823 Z47199	41	.	83.0	331.0	1653.0	661.0	2728.0	24.2
F10	6/09	56-40	162-11	Y33719 Z46947	39	2.0	82.0	328.0	82.0	246.0	738.0	33.3
F11	6/07	56-40	161-34	Y33626 Z46704	51	2.0	348.0	87.0	696.0	87.0	1218.0	7.1
F12	6/07	56-39	160-59	Y33540 Z46467	36	2.4	123.0	0.0	123.0	0.0	246.0	0.0
F13	6/05	56-39	160-22	Y33453 Z46221	33	.	87.0	261.0	348.0	87.0	783.0	11.1
Q07	8/05	56-49	164-19	Y34025 Z47808	41	1.7	0.0	0.0	164.0	328.0	492.0	66.7
Q07	8/05	57-00	163-57	Y33903 Z47658	38	2.0	165.0	331.0	83.0	165.0	744.0	22.2
Q07	8/05	56-49	164-00	Y33968 Z47677	41	.	161.0	11613.0	7016.0	1694.0	20484.0	8.3
Q08	8/05	56-49	163-41	Y33916 Z47554	40	2.0	0.0	1475.0	5000.0	3197.0	9672.0	33.1
Q08	8/05	56-49	163-24	Y33866 Z47434	40	.	83.0	7438.0	6942.0	909.0	15372.0	5.9
Q08	8/05	57-00	163-39	Y33852 Z47533	37	.	81.0	244.0	163.0	244.0	731.0	33.4
Q08	8/05	56-59	163-22	Y33809 Z47417	37	3.0	82.0	410.0	2623.0	1066.0	4180.0	25.5
Q08	6/11	56-59	163-23	Y34809 Z47427	35	.8	0.0	0.0	156.0	156.0	313.0	49.8

NOTE: PRE-RECRUIT = 5.2-6.4 IN. WIDTH; LEGAL = GREATER THAN 6.4 IN. WIDTH

TABLE 4 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
Q09	6/09	57-00	162-47	Y33705 Z47183	34	1.3	0.0	0.0	0.0	81.0	81.0	100.0
Q09	8/05	56-49	163-04	Y33813 Z47306	37	2.9	83.0	1240.0	1983.0	1240.0	4546.0	27.3
Q10	6/09	57-00	162-10	Y33611 Z46935	32	1.6	0.0	76.0	0.0	76.0	152.0	50.0
Q11	6/07	56-59	161-34	Y33526 Z46693	39	2.1	172.0	517.0	259.0	345.0	1293.0	26.7
Q12	6/07	56-59	160-57	Y33433 Z46445	33	2.3	556.0	93.0	0.0	93.0	741.0	12.6
Q13	6/04	57-00	160-19	Y33339 Z46196	35	.	569.0	325.0	0.0	81.0	976.0	8.3
Q14	6/05	56-59	159-44	Y33268 Z45957	29	2.8	175.0	0.0	88.0	175.0	438.0	40.0
Q15	6/03	57-00	159-07	Y33178 Z45710	19	.	84.0	0.0	84.0	0.0	168.0	0.0
H08	6/14	57-20	163-23	Y33690 Z47417	28	1.9	0.0	83.0	0.0	83.0	167.0	49.7
H09	6/09	57-20	162-46	Y33589 Z47166	28	1.5	0.0	0.0	81.0	81.0	163.0	49.7
H10	6/09	57-20	162-09	Y33495 Z46919	27	1.6	0.0	231.0	308.0	308.0	846.0	36.4
H11	6/07	57-20	161-32	Y33403 Z46677	31	2.5	325.0	1138.0	325.0	488.0	2276.0	21.4
H12	6/07	57-20	160-56	Y33318 Z46431	33	2.3	614.0	351.0	351.0	88.0	1403.0	6.3
H13	6/04	57-20	160-17	Y33228 Z46174	34	.	1176.0	168.0	924.0	336.0	2605.0	12.9
H14	6/05	57-20	159-40	Y33144 Z45923	29	2.3	169.0	85.0	0.0	85.0	338.0	25.1
H15	6/03	57-19	159-03	Y33069 Z45680	25	.	420.0	0.0	0.0	168.0	588.0	28.6
H16	6/04	57-21	158-25	Y32983 Z45422	16	4.0	0.0	82.0	82.0	0.0	164.0	0.0
H19	7/01	57-09	169-17	Y34910 Z49793	41	1.8	0.0	0.0	0.0	81.0	81.0	100.0
H20	7/03	57-11	169-53	Y35040 Z50033	25	4.0	175.0	0.0	0.0	88.0	263.0	33.5
I08	6/14	57-39	163-22	Y33565 Z47397	24	1.9	81.0	0.0	81.0	81.0	242.0	33.5
I09	6/09	57-40	162-45	Y33462 Z47150	25	1.7	0.0	85.0	0.0	0.0	85.0	0.0
I10	6/09	57-40	162-08	Y33368 Z46902	25	2.1	259.0	86.0	0.0	0.0	345.0	0.0
I11	6/07	57-40	161-29	Y33275 Z46647	30	.	10244.0	4797.0	407.0	244.0	15691.0	1.6
I12	6/08	57-39	160-53	Y33195 Z46406	30	2.4	1293.0	690.0	776.0	0.0	2759.0	0.0
I13	6/04	57-39	160-16	Y33112 Z46159	31	.	656.0	492.0	82.0	0.0	1230.0	0.0
I14	6/05	57-40	159-37	Y33025 Z45906	26	2.2	348.0	87.0	87.0	87.0	609.0	14.3
I15	6/03	57-39	159-01	Y32954 Z45662	25	.	88.0	0.0	88.0	0.0	176.0	0.0
I16	6/04	57-39	158-20	Y32875 Z45392	19	3.0	0.0	0.0	69.0	0.0	69.0	0.0
J09	6/09	57-59	162-46	Y33337 Z47142	24	1.8	83.0	0.0	165.0	0.0	248.0	0.0
J10	6/09	58-00	162-07	Y33237 Z46886	19	2.1	171.0	171.0	171.0	0.0	513.0	0.0
J11	6/08	57-59	161-30	Y33156 Z46644	32	2.3	877.0	614.0	0.0	175.0	1666.0	10.5
J12	6/08	57-59	160-51	Y33065 Z46388	24	2.0	500.0	917.0	333.0	250.0	2000.0	12.5
J13	6/04	58-00	160-12	Y16334 Z49386	29	.	496.0	579.0	248.0	83.0	1405.0	5.9
J14	6/05	58-01	159-36	Y32898 Z45896	22	2.3	0.0	81.0	0.0	0.0	81.0	0.0
J15	6/03	57-59	158-58	Y32834 Z45647	22	.	0.0	84.0	0.0	0.0	84.0	0.0
J16	6/04	57-59	158-18	Y32757 Z45388	17	.	0.0	76.0	0.0	0.0	76.0	0.0
K07	6/14	58-19	163-59	Y33378 Z47596	24	2.4	0.0	84.0	0.0	0.0	84.0	0.0
K09	6/08	58-20	162-43	Y33180 Z47103	18	2.3	0.0	0.0	82.0	0.0	82.0	0.0
K10	6/08	58-19	161-59	Y33087 Z46825	24	3.0	0.0	78.0	0.0	0.0	78.0	0.0
K11	6/08	58-20	161-23	Y32998 Z46593	19	5.0	77.0	77.0	0.0	0.0	154.0	0.0
K12	6/08	58-18	160-46	Y32929 Z46351	14	4.1	0.0	87.0	87.0	0.0	174.0	0.0
L06	6/15	58-40	164-38	Y33297 Z47803	18	2.5	87.0	0.0	0.0	0.0	87.0	0.0
L08	6/14	58-39	163-21	Y33123 Z47325	16	3.4	0.0	0.0	180.0	0.0	180.0	0.0
L09	6/08	58-39	162-42	Y33030 Z47080	14	2.5	0.0	0.0	0.0	82.0	82.0	100.0
M02	6/28	59-00	167-14	Y33483 Z48649	20	2.8	74.0	74.0	0.0	0.0	148.0	0.0

NOTE: PRE-RECRUIT = 5.2-6.4 IN. WIDTH; LEGAL = GREATER THAN 6.4 IN. WIDTH

TABLE 4 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
M03	6/28	58-59	166-34	Y33404 Z48437	20	.	0.0	0.0	83.0	0.0	83.0	0.0
M05	6/16	59-00	165-17	Y33212 Z47992	16	3.6	0.0	81.0	0.0	163.0	244.0	66.8
N01	6/30	59-21	167-55	Y33331 Z48763	22	1.7	0.0	82.0	0.0	0.0	82.0	0.0
O01	6/30	59-40	167-56	Y33104 Z48678	20	2.3	79.0	0.0	0.0	0.0	79.0	0.0
O18	6/30	59-39	168-37	Y33183 Z48860	20	2.0	78.0	0.0	0.0	0.0	78.0	0.0
P18	6/30	59-59	168-38	Y32944 Z48767	20	2.2	0.0	78.0	0.0	0.0	78.0	0.0

NOTE: PRE-RECRUIT = 5.2-6.4 IN. WIDTH; LEGAL = GREATER THAN 6.4 IN. WIDTH

TABLE 5 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE BLUE KING CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
Q21	7/07	56-59	170-10	X18689 Z50113	40	3.1	81.0	0.0	0.0	0.0	81.0	0.0
H01	6/21	57-20	167-44	Y34501 Z49159	42	.5	80.0	0.0	0.0	0.0	80.0	0.0
H18	6/27	57-09	168-37	Y34763 Z49527	43	1.6	0.0	0.0	0.0	81.0	81.0	100.0
H19	7/02	57-19	169-00	Y34782 Z49664	40	1.6	83.0	0.0	0.0	248.0	331.0	74.9
H19	7/01	57-09	169-17	Y34910 Z49793	41	1.8	407.0	0.0	0.0	0.0	407.0	0.0
H20	7/03	57-11	169-53	Y35040 Z50033	25	4.0	8333.0	0.0	88.0	88.0	8508.0	1.0
H20	7/03	57-20	169-37	Y34900 Z49897	33	1.2	79.0	0.0	0.0	159.0	238.0	66.8
H21	7/07	57-07	170-30	X18647 Y35105	33	3.6	0.0	81.0	0.0	81.0	161.0	50.3
H21	7/06	57-20	170-14	Y34994 Z50095	31	3.3	0.0	0.0	0.0	492.0	492.0	100.0
I05	6/16	57-40	165-15	Y33877 Z48141	35	1.0	0.0	83.0	0.0	0.0	83.0	0.0
I18	6/27	57-29	168-44	Y34642 Z49532	40	.9	0.0	0.0	0.0	164.0	164.0	100.0
I19	7/02	57-29	169-20	Y34765 Z49759	40	.8	81.0	0.0	0.0	244.0	325.0	75.1
I20	7/03	57-30	169-59	Y34853 Z49964	37	1.7	81.0	0.0	0.0	161.0	242.0	66.5
I21	7/06	57-39	170-17	Y34761 Z49971	41	1.9	83.0	0.0	0.0	83.0	166.0	50.0
I22	7/06	57-39	170-54	X18461 Y34751	46	2.3	0.0	0.0	0.0	78.0	78.0	100.0
J18	6/29	57-49	168-43	Y34452 Z49453	38	.9	0.0	0.0	0.0	77.0	77.0	100.0
J21	7/06	57-50	170-36	Y34636 Z49955	44	1.8	0.0	0.0	0.0	80.0	80.0	100.0
J22	7/07	57-59	170-57	X18380 Y34513	47	1.6	81.0	0.0	0.0	0.0	81.0	0.0
M03	6/28	58-59	166-34	Y33404 Z48437	20	.	0.0	83.0	0.0	0.0	83.0	0.0
Q24	7/10	59-40	172-34	X17715 Y33321	46	-.8	82.0	0.0	0.0	0.0	82.0	0.0
Q25	7/14	59-30	173-30	X17495 Y33406	59	.8	0.0	0.0	0.0	86.0	86.0	100.0
P18	6/30	59-59	168-38	Y32944 Z48767	20	2.2	0.0	78.0	0.0	0.0	78.0	0.0
P24	7/09	59-48	172-54	X17617 Y33223	44	-.8	167.0	0.0	83.0	0.0	250.0	0.0
P24	7/09	60-00	172-39	X17656 Y33092	35	-.6	0.0	0.0	0.0	169.0	169.0	100.0
P25	7/13	59-50	173-34	X17452 Y33191	54	-.4	0.0	0.0	0.0	80.0	80.0	100.0
P25	7/13	60-00	173-18	X17501 Y33087	42	-.9	78.0	156.0	78.0	0.0	312.0	0.0
P26	7/16	59-59	173-57	X17343 Y33085	55	-.4	0.0	0.0	0.0	82.0	82.0	100.0
P27	7/26	59-58	174-35	X17181 Y33079	61	.6	0.0	119.0	0.0	0.0	119.0	0.0
P28	7/28	60-00	175-16	X16998 Y33040	66	.4	0.0	0.0	81.0	0.0	81.0	0.0
Q23	7/11	60-20	172-03	X17742 Y32860	34	-1.5	0.0	161.0	0.0	0.0	161.0	0.0
Q23	7/11	60-08	172-17	X17720 Y32995	33	1.1	79.0	157.0	0.0	79.0	315.0	25.1
Q24	7/09	60-10	173-00	X17555 Y32998	31	-.2	169.0	508.0	0.0	254.0	932.0	27.3
Q25	7/12	60-19	173-20	X17463 Y32879	35	-.6	560.0	720.0	1280.0	240.0	2800.0	8.6
Q26	7/16	60-10	174-20	X17236 Y32968	57	-.2	0.0	0.0	0.0	160.0	160.0	100.0
Q27	7/26	60-18	174-42	X17138 Y32879	58	.0	0.0	0.0	0.0	235.0	235.0	100.0
R25	7/12	60-40	173-28	X17404 Y32652	38	-.6	84.0	168.0	252.0	84.0	588.0	14.3

NOTE: PRE-RECRUIT = 5.2-6.4 IN. WIDTH; LEGAL = GREATER THAN 6.4 IN. WIDTH FOR AREA S. OF 58:39N
PRE-RECRUIT = 4.3-5.4 IN. WIDTH; LEGAL = GREATER THAN 5.4 IN. WIDTH FOR AREA N. OF 58:39N

TABLE 6 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

								NUMBER PER SQUARE MILE					
									MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C		DEPTH FTHS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
A02	6/21	55-01	166-56	Y34823	Z48682	85	3.9	547.0	313.0	78.0	0.0	938.0	0.0
A03	6/19	54-59	166-20	Y34741	Z48472	81	4.2	1613.0	6452.0	1290.0	484.0	9839.0	4.9
A04	6/18	54-59	165-44	Y34654	Z48268	70	4.1	2529.0	1379.0	0.0	0.0	3908.0	0.0
A05	6/18	55-00	165-09	Y34564	Z48059	63	4.8	81.0	81.0	81.0	81.0	325.0	24.9
B01	6/22	55-20	167-32	Y34879	Z48933	84	4.2	0.0	313.0	0.0	0.0	313.0	0.0
B02	6/21	55-20	166-58	Y34797	Z48736	76	3.7	147.0	74.0	147.0	0.0	368.0	0.0
B03	6/19	55-19	166-21	Y34706	Z48518	75	4.0	250.0	667.0	333.0	167.0	1417.0	11.8
B04	6/18	55-18	165-46	Y34617	Z48310	65	4.2	323.0	81.0	161.0	81.0	646.0	12.5
B05	6/18	55-20	165-10	Y34518	Z48090	62	4.7	81.0	488.0	81.0	0.0	650.0	0.0
B06	6/17	55-20	164-34	Y34424	Z47867	55	3.9	81.0	244.0	1057.0	1057.0	2439.0	43.3
B07	6/10	55-20	163-59	Y34330	Z47646	42	3.0	248.0	248.0	165.0	0.0	661.0	0.0
B08	6/10	55-21	163-25	Y34240	Z47431	27	.	941.0	6588.0	2471.0	118.0	10117.0	1.2
C01	6/22	55-41	167-34	Y34852	Z48997	77	4.2	248.0	248.0	0.0	0.0	496.0	0.0
C02	6/21	55-40	166-58	Y34760	Z48785	74	3.8	0.0	82.0	164.0	82.0	328.0	25.0
C03	6/19	55-39	166-23	Y34665	Z48569	71	5.8	0.0	323.0	161.0	0.0	484.0	0.0
C04	6/18	55-39	165-47	Y34568	Z48348	64	4.1	82.0	0.0	82.0	0.0	164.0	0.0
C05	6/18	55-40	165-10	Y34462	Z48115	61	4.2	1935.0	3790.0	0.0	161.0	5887.0	2.7
C06	6/17	55-39	164-34	Y34364	Z47881	52	3.0	3984.0	2846.0	0.0	81.0	6911.0	1.2
C07	6/11	55-40	164-00	Y34268	Z47669	54	2.4	2195.0	2276.0	163.0	81.0	4715.0	1.7
C08	6/10	55-40	163-24	Y34171	Z47431	43	2.5	1356.0	932.0	593.0	169.0	3051.0	5.5
C09	6/10	55-40	162-50	Y34084	Z47215	29	3.4	79.0	1654.0	551.0	0.0	2284.0	0.0
C18	6/25	55-39	168-10	X18351	Z49194	74	4.1	0.0	81.0	0.0	0.0	81.0	0.0
D01	6/22	55-59	167-36	Y34819	Z49051	76	4.1	164.0	656.0	246.0	0.0	1066.0	0.0
D02	6/20	56-00	166-59	Y34713	Z48829	74	3.8	82.0	0.0	82.0	0.0	164.0	0.0
D03	6/19	56-00	166-23	Y34607	Z48597	70	4.0	1271.0	847.0	85.0	0.0	2203.0	0.0
D04	6/19	56-00	165-47	Y34500	Z48369	58	3.7	169.0	85.0	0.0	0.0	254.0	0.0
D05	6/17	56-00	165-11	Y34397	Z48138	55	3.2	0.0	246.0	0.0	0.0	246.0	0.0
D06	6/17	55-59	164-29	Y34282	Z47868	50	2.1	8728.0	12343.0	0.0	0.0	21071.0	0.0
D07	6/11	55-58	163-59	Y34200	Z47671	52	2.0	826.0	826.0	83.0	0.0	1735.0	0.0
D08	6/11	56-00	163-23	Y34093	Z47431	48	2.3	870.0	783.0	87.0	0.0	1740.0	0.0
D09	6/10	56-00	162-49	Y33999	Z47208	45	2.3	325.0	325.0	0.0	0.0	650.0	0.0
D10	6/10	56-00	162-14	Y33912	Z46979	38	2.8	732.0	2195.0	3415.0	122.0	6464.0	1.9
E01	6/21	56-18	167-37	Y34711	Z49139	73	4.2	726.0	242.0	0.0	81.0	1049.0	7.7
E02	6/20	56-20	167-02	Y34659	Z48873	62	3.3	427.0	513.0	85.0	0.0	1025.0	0.0
E03	6/19	56-19	166-24	Y34546	Z48629	60	2.4	1864.0	2373.0	169.0	0.0	4406.0	0.0
E04	6/19	56-19	165-48	Y34432	Z48392	49	1.2	13563.0	13051.0	0.0	0.0	26614.0	0.0
E05	6/17	56-20	165-12	Y34322	Z48154	50	.	0.0	336.0	0.0	84.0	420.0	20.0
E06	6/16	56-20	164-34	Y34210	Z47908	47	1.6	2791.0	3140.0	116.0	0.0	6047.0	0.0
E07	6/11	56-20	163-58	Y34107	Z47668	49	1.5	2273.0	1818.0	76.0	0.0	4167.0	0.0
E07	8/06	56-20	163-58	Y34105	Z47664	49	1.6	0.0	160.0	80.0	0.0	240.0	0.0
E08	8/06	56-20	163-41	Y34058	Z47553	48	2.0	163.0	81.0	81.0	0.0	326.0	0.0
E08	8/06	56-21	163-23	Y34003	Z47432	48	2.5	81.0	81.0	81.0	0.0	242.0	0.0
E08	6/11	56-21	163-23	Y34006	Z47437	40	1.8	984.0	820.0	164.0	0.0	1968.0	0.0
E09	6/10	56-20	162-47	Y33911	Z47197	45	2.2	410.0	82.0	0.0	82.0	574.0	14.3
E10	6/10	56-20	162-11	Y33817	Z46958	41	2.3	732.0	163.0	244.0	0.0	1139.0	0.0

NOTE: PRE-RECRUIT = 4.3-5.4 IN. WIDTH; LEGAL = GREATER THAN 5.4 IN. WIDTH

TABLE 6 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
E11	6/07	56-20	161-34	Y33721 Z46712	36	2.6	320.0	0.0	0.0	80.0	400.0	20.0
E12	6/05	56-16	160-57	Y33649 Z46467	25	.	0.0	171.0	0.0	0.0	171.0	0.0
E12	6/07	56-19	160-59	Y33636 Z46479	28	3.0	0.0	348.0	0.0	0.0	348.0	0.0
E18	6/25	56-19	168-15	X18562 Z49331	83	3.9	345.0	345.0	86.0	0.0	776.0	0.0
E19	7/01	56-21	168-52	Y34986 Z49553	71	3.7	342.0	256.0	598.0	0.0	1197.0	0.0
E20	7/05	56-21	169-28	X18496 Z49752	71	3.4	0.0	78.0	78.0	0.0	155.0	0.0
E21	7/08	56-20	170-04	X18399 Z49899	62	3.3	236.0	630.0	79.0	0.0	945.0	0.0
E22	7/06	56-19	170-41	X18262 Z50009	66	4.0	244.0	244.0	0.0	0.0	488.0	0.0
F01	6/21	56-40	167-40	Y34705 Z49142	59	2.4	325.0	163.0	0.0	0.0	488.0	0.0
F02	6/20	56-40	167-04	Y34587 Z48906	51	1.5	261.0	435.0	0.0	0.0	696.0	0.0
F03	6/20	56-38	166-25	Y34467 Z48645	49	.7	1261.0	1429.0	0.0	0.0	2690.0	0.0
F04	6/19	56-39	165-49	Y34351 Z48411	42	.6	3306.0	3629.0	81.0	0.0	7016.0	0.0
F05	6/17	56-40	165-13	Y34234 Z48167	43	.	1157.0	1901.0	83.0	0.0	3140.0	0.0
F06	6/16	56-40	164-35	Y34120 Z47916	40	1.2	1282.0	1368.0	0.0	0.0	2650.0	0.0
F06	8/04	56-39	164-36	Y34129 Z47924	43	1.5	168.0	252.0	84.0	0.0	504.0	0.0
F07	8/04	56-39	164-18	Y34072 Z47800	42	.	82.0	246.0	82.0	0.0	410.0	0.0
F07	8/04	56-39	164-01	Y34025 Z47685	43	2.0	171.0	0.0	0.0	0.0	171.0	0.0
F07	8/06	56-29	164-00	Y34071 Z47683	47	2.0	81.0	81.0	81.0	81.0	325.0	24.9
F07	8/06	56-29	164-19	Y34124 Z47805	46	1.7	323.0	242.0	81.0	161.0	807.0	20.0
F07	6/11	56-39	163-59	Y34021 Z47676	43	1.7	1181.0	236.0	79.0	0.0	1496.0	0.0
F08	6/11	56-39	163-22	Y34912 Z47425	40	1.9	661.0	826.0	0.0	0.0	1487.0	0.0
F08	8/06	56-29	163-23	Y33966 Z47437	46	2.2	0.0	83.0	83.0	83.0	250.0	33.2
F08	8/06	56-29	163-42	Y34019 Z47560	46	2.3	165.0	83.0	0.0	0.0	248.0	0.0
F08	8/04	56-39	163-42	Y33973 Z47563	43	.	84.0	0.0	0.0	0.0	84.0	0.0
F08	8/04	56-39	163-23	Y33918 Z47432	43	2.2	0.0	0.0	81.0	0.0	81.0	0.0
F09	8/04	56-39	163-06	Y33872 Z47318	42	.	0.0	83.0	83.0	83.0	248.0	33.5
F09	8/04	56-39	162-48	Y33823 Z47199	41	.	83.0	0.0	83.0	0.0	166.0	0.0
F09	8/06	56-29	163-08	Y33922 Z47331	46	2.3	0.0	0.0	83.0	248.0	331.0	74.9
F09	6/09	56-40	162-47	Y33814 Z47194	40	2.0	877.0	1491.0	351.0	0.0	2719.0	0.0
F10	6/09	56-40	162-11	Y33719 Z46947	39	2.0	732.0	325.0	325.0	0.0	1382.0	0.0
F11	6/07	56-40	161-34	Y33626 Z46704	51	2.0	3826.0	0.0	435.0	2957.0	7217.0	41.0
F12	6/07	56-39	160-59	Y33540 Z46467	36	2.4	0.0	244.0	0.0	122.0	366.0	33.3
F13	6/05	56-39	160-22	Y33453 Z46221	33	.	174.0	174.0	348.0	0.0	696.0	0.0
F18	6/25	56-39	168-17	X18650 Z49384	57	2.2	0.0	167.0	167.0	0.0	333.0	0.0
F19	7/01	56-39	168-54	Y34952 Z49614	57	2.2	0.0	244.0	81.0	0.0	325.0	0.0
F20	7/05	56-39	169-30	X18611 Z49830	42	3.8	0.0	317.0	159.0	0.0	476.0	0.0
F21	7/08	56-40	170-06	X18545 Z50004	55	3.3	1311.0	1066.0	164.0	0.0	2541.0	0.0
F22	7/06	56-39	170-44	X18392 Z50102	62	4.1	244.0	163.0	163.0	0.0	569.0	0.0
F23	7/08	56-39	171-20	X18198 Z50146	67	3.6	565.0	242.0	81.0	0.0	888.0	0.0
G01	6/21	57-00	167-43	Y34623 Z49167	44	1.2	1626.0	813.0	0.0	0.0	2439.0	0.0
G02	6/20	57-00	167-05	Y34492 Z48916	40	.7	3780.0	5906.0	79.0	0.0	9764.0	0.0
G03	6/20	56-59	166-27	Y34372 Z48662	42	.7	1587.0	1746.0	0.0	0.0	3333.0	0.0
G04	6/19	56-59	165-50	Y34247 Z48412	39	.5	246.0	574.0	82.0	0.0	902.0	0.0
G05	6/17	57-00	165-13	Y34128 Z48167	40	.3	167.0	833.0	250.0	0.0	1250.0	0.0
G06	6/16	57-00	164-36	Y34016 Z47916	37	.8	122.0	122.0	0.0	0.0	244.0	0.0

NOTE: PRE-RECRUIT = 4.3-5.4 IN. WIDTH; LEGAL = GREATER THAN 5.4 IN. WIDTH

TABLE 6 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
Q07	6/14	56-59	163-58	Y33912 Z47665	39	.8	325.0	81.0	0.0	0.0	406.0	0.0
Q07	8/05	56-49	164-19	Y34025 Z47808	41	1.7	82.0	492.0	0.0	0.0	574.0	0.0
Q07	8/05	56-49	164-00	Y33968 Z47677	41	.	81.0	242.0	0.0	0.0	323.0	0.0
Q08	8/05	56-49	163-41	Y33916 Z47554	40	2.0	164.0	82.0	164.0	82.0	492.0	16.7
Q08	8/05	56-49	163-24	Y33866 Z47434	40	.	0.0	0.0	83.0	0.0	83.0	0.0
Q08	8/05	57-00	163-39	Y33852 Z47533	37	.	325.0	732.0	81.0	0.0	1138.0	0.0
Q08	8/05	56-59	163-22	Y33809 Z47417	37	3.0	0.0	492.0	0.0	0.0	492.0	0.0
Q08	6/11	56-59	163-23	Y34809 Z47427	35	.8	4688.0	4453.0	78.0	78.0	9297.0	0.8
Q09	6/09	57-00	162-47	Y33705 Z47183	34	1.3	6585.0	4797.0	81.0	0.0	11463.0	0.0
Q09	8/05	56-49	163-04	Y33813 Z47306	37	2.9	0.0	165.0	83.0	0.0	248.0	0.0
Q10	6/09	57-00	162-10	Y33611 Z46935	32	1.6	6016.0	3740.0	244.0	0.0	10000.0	0.0
Q11	6/07	56-59	161-34	Y33526 Z46693	39	2.1	431.0	0.0	0.0	172.0	603.0	28.5
Q12	6/07	56-59	160-57	Y33433 Z46445	33	2.3	3364.0	841.0	654.0	280.0	5140.0	5.4
Q13	6/04	57-00	160-19	Y33339 Z46196	35	.	1057.0	244.0	244.0	163.0	1707.0	9.5
Q14	6/05	56-59	159-44	Y33268 Z45957	29	2.8	348.0	261.0	261.0	0.0	870.0	0.0
Q18	6/27	56-59	168-21	Y34762 Z49421	46	2.4	244.0	81.0	0.0	0.0	325.0	0.0
Q18	6/27	56-49	168-36	Y34864 Z49519	55	1.7	242.0	887.0	0.0	0.0	1129.0	0.0
Q19	7/01	56-49	169-17	Y34999 Z49777	46	2.2	488.0	407.0	81.0	0.0	976.0	0.0
Q19	7/01	57-00	168-56	Y34886 Z49660	45	2.4	80.0	80.0	0.0	0.0	160.0	0.0
Q20	7/04	56-50	169-53	Y35102 Z49990	38	3.6	538.0	1923.0	77.0	0.0	2538.0	0.0
Q20	7/04	57-01	169-32	Y35013 Z49895	33	2.6	218.0	218.0	218.0	0.0	654.0	0.0
Q21	7/07	56-51	170-28	X18554 Z50123	57	3.3	5203.0	5285.0	650.0	0.0	11138.0	0.0
Q21	7/07	56-59	170-10	X18689 Z50113	40	3.1	10341.0	38468.0	4113.0	242.0	53164.0	0.5
Q22	7/06	56-59	170-47	X18502 Y35092	51	3.1	2169.0	1205.0	0.0	0.0	3374.0	0.0
Q23	7/08	56-56	171-23	X18262 Z50179	63	.	410.0	246.0	82.0	0.0	738.0	0.0
Q24	7/11	56-59	172-01	X18025 Y34909	63	3.6	0.0	0.0	230.0	0.0	230.0	0.0
Q25	7/23	56-58	172-39	X17779 Y34821	69	4.5	160.0	80.0	80.0	0.0	320.0	0.0
Q26	7/23	56-59	173-14	X17552 Y34730	79	3.9	78.0	0.0	78.0	0.0	156.0	0.0
H01	6/21	57-20	167-44	Y34501 Z49159	42	.5	880.0	720.0	0.0	0.0	1600.0	0.0
H03	6/20	57-19	166-29	Y34254 Z48658	40	1.2	236.0	1417.0	0.0	0.0	1653.0	0.0
H04	6/19	57-19	165-51	Y34132 Z48406	37	.8	0.0	263.0	0.0	0.0	263.0	0.0
H05	6/17	57-20	165-14	Y34012 Z48156	38	.7	84.0	0.0	0.0	0.0	84.0	0.0
H06	6/16	57-19	164-37	Y33906 Z47912	35	1.0	163.0	163.0	0.0	0.0	326.0	0.0
H07	6/14	57-19	163-59	Y33798 Z47658	36	.8	320.0	960.0	80.0	0.0	1360.0	0.0
H08	6/14	57-20	163-23	Y33690 Z47417	28	1.9	8780.0	9919.0	0.0	0.0	18699.0	0.0
H09	6/09	57-20	162-46	Y33589 Z47166	28	1.5	3659.0	3496.0	0.0	0.0	7155.0	0.0
H10	6/09	57-20	162-09	Y33495 Z46919	27	1.6	1463.0	1220.0	0.0	0.0	2683.0	0.0
H11	6/07	57-20	161-32	Y33403 Z46677	31	2.5	1220.0	732.0	650.0	325.0	2927.0	11.1
H12	6/07	57-20	160-56	Y33318 Z46431	33	2.3	2609.0	1304.0	348.0	0.0	4261.0	0.0
H13	6/04	57-20	160-17	Y33228 Z46174	34	.	6218.0	5966.0	756.0	84.0	13025.0	0.6
H14	6/05	57-20	159-40	Y33144 Z45923	29	2.3	1626.0	2520.0	325.0	81.0	4553.0	1.8
H15	6/03	57-19	159-03	Y33069 Z45680	25	.	252.0	672.0	0.0	0.0	924.0	0.0
H18	6/27	57-19	168-23	Y34649 Z49420	43	.8	565.0	161.0	0.0	0.0	726.0	0.0
H18	6/27	57-09	168-37	Y34763 Z49527	43	1.6	81.0	0.0	0.0	0.0	81.0	0.0
H19	7/01	57-09	169-17	Y34910 Z49793	41	1.8	0.0	81.0	0.0	0.0	81.0	0.0

NOTE: PRE-RECRUIT = 4.3-5.4 IN. WIDTH; LEGAL = GREATER THAN 5.4 IN. WIDTH

TABLE 6 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
H19	7/02	57-19	169-00	Y34782 Z49664	40	1.6	0.0	83.0	0.0	0.0	83.0	0.0
H20	7/03	57-11	169-53	Y35040 Z50033	25	4.0	0.0	439.0	0.0	0.0	439.0	0.0
H20	7/03	57-20	169-37	Y34900 Z49897	33	1.2	8435.0	47653.0	5714.0	0.0	61802.0	0.0
H21	7/07	57-07	170-30	X18647 Y35105	33	3.6	81.0	645.0	0.0	0.0	726.0	0.0
H22	7/06	57-19	170-50	X18519 Y34958	44	2.9	625.0	547.0	78.0	0.0	1250.0	0.0
H23	7/09	57-19	171-27	X18287 Y34870	57	3.1	161.0	645.0	0.0	0.0	806.0	0.0
H24	7/11	57-20	172-05	X18044 Y34772	58	3.6	413.0	331.0	83.0	0.0	826.0	0.0
H25	7/24	57-20	172-46	X17783 Y34674	66	3.9	630.0	866.0	315.0	0.0	1811.0	0.0
H26	7/23	57-19	173-19	X17569 Y34605	68	3.9	569.0	163.0	244.0	0.0	976.0	0.0
I01	6/21	57-39	167-43	Y34359 Z49116	40	1.0	769.0	1624.0	0.0	0.0	2393.0	0.0
I02	6/28	57-40	167-08	Y34230 Z48882	36	.8	0.0	148.0	0.0	0.0	148.0	0.0
I04	6/26	57-39	165-52	Y33998 Z48388	34	1.2	0.0	77.0	0.0	0.0	77.0	0.0
I06	6/16	57-40	164-36	Y33767 Z47886	28	1.7	3256.0	3876.0	0.0	0.0	7132.0	0.0
I07	6/14	57-39	164-00	Y33671 Z47650	30	1.7	5424.0	7627.0	0.0	0.0	13051.0	0.0
I08	6/14	57-39	163-22	Y33565 Z47397	24	1.9	2521.0	3529.0	84.0	0.0	6134.0	0.0
I09	6/09	57-40	162-45	Y33462 Z47150	25	1.7	85.0	0.0	0.0	0.0	85.0	0.0
I10	6/09	57-40	162-08	Y33368 Z46902	25	2.1	81.0	163.0	0.0	0.0	244.0	0.0
I11	6/07	57-40	161-29	Y33275 Z46647	30	.	325.0	488.0	325.0	0.0	1138.0	0.0
I12	6/08	57-39	160-53	Y33195 Z46406	30	2.4	517.0	1379.0	431.0	0.0	2327.0	0.0
I13	6/04	57-39	160-16	Y33112 Z46159	31	.	1721.0	3197.0	410.0	0.0	5328.0	0.0
I14	6/05	57-40	159-37	Y33025 Z45906	26	2.2	0.0	261.0	0.0	0.0	261.0	0.0
I15	6/03	57-39	159-01	Y32954 Z45662	25	.	0.0	88.0	0.0	0.0	88.0	0.0
I18	6/29	57-39	168-23	Y34481 Z49365	38	1.0	620.0	3984.0	0.0	0.0	4604.0	0.0
I18	6/27	57-29	168-44	Y34642 Z49532	40	.9	492.0	82.0	0.0	0.0	574.0	0.0
I19	7/02	57-29	169-20	Y34765 Z49759	40	.8	325.0	407.0	325.0	0.0	1057.0	0.0
I19	7/02	57-38	169-04	Y34620 Z49620	39	1.1	732.0	894.0	0.0	0.0	1626.0	0.0
I20	7/03	57-30	169-59	Y34853 Z49964	37	1.7	25641.0	17363.0	161.0	0.0	43165.0	0.0
I20	7/03	57-40	169-39	Y34700 Z49808	38	1.1	0.0	296.0	74.0	0.0	370.0	0.0
I21	7/06	57-29	170-35	Y34878 Z50084	42	2.8	574.0	410.0	0.0	0.0	984.0	0.0
I21	7/06	57-39	170-17	Y34761 Z49971	41	1.9	331.0	826.0	0.0	0.0	1157.0	0.0
I22	7/06	57-39	170-54	X18461 Y34751	46	2.3	78.0	78.0	0.0	0.0	156.0	0.0
I23	7/09	57-39	171-32	X18252 Y34687	56	2.6	397.0	238.0	0.0	0.0	635.0	0.0
I24	7/11	57-40	172-10	X18027 Y34603	59	3.5	581.0	581.0	0.0	0.0	1162.0	0.0
I25	7/24	57-39	172-42	X17830 Y34542	66	3.4	492.0	246.0	410.0	0.0	1148.0	0.0
I26	7/24	57-40	173-22	X17583 Y34453	82	3.4	403.0	242.0	81.0	0.0	726.0	0.0
J01	6/29	58-00	167-48	Y34188 Z49083	36	.8	79.0	476.0	0.0	0.0	555.0	0.0
J02	6/28	58-00	167-10	Y34069 Z48844	34	.7	0.0	240.0	0.0	0.0	240.0	0.0
J04	6/26	57-59	165-54	Y33848 Z48363	29	2.0	0.0	301.0	0.0	0.0	301.0	0.0
J05	6/16	58-01	165-15	Y33724 Z48111	29	1.8	83.0	83.0	0.0	0.0	166.0	0.0
J06	6/15	58-00	164-36	Y33621 Z47860	23	2.1	308.0	231.0	0.0	0.0	539.0	0.0
J07	6/14	57-59	163-58	Y33526 Z47616	27	1.9	732.0	813.0	0.0	0.0	1545.0	0.0
J08	6/14	57-59	163-22	Y33429 Z47376	23	2.1	339.0	169.0	0.0	0.0	508.0	0.0
J11	6/08	57-59	161-30	Y33156 Z46644	32	2.3	175.0	614.0	0.0	88.0	877.0	10.0
J12	6/08	57-59	160-51	Y33065 Z46388	24	2.0	83.0	0.0	0.0	0.0	83.0	0.0
J18	6/29	57-59	168-26	Y34303 Z49311	37	.8	164.0	492.0	0.0	0.0	656.0	0.0

NOTE: PRE-RECRUIT = 4.3-5.4 IN. WIDTH; LEGAL = GREATER THAN 5.4 IN. WIDTH

TABLE 6 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
J18	6/29	57-49	168-43	Y34452 Z49453	38	.9	3774.0	18333.0	0.0	0.0	22107.0	0.0
J19	7/02	57-49	169-21	Y34558 Z49668	37	.8	78.0	156.0	78.0	0.0	312.0	0.0
J19	7/02	57-59	169-03	Y34396 Z49513	40	.8	1463.0	1301.0	0.0	0.0	2764.0	0.0
J20	7/03	57-50	169-58	Y34616 Z49833	39	1.0	1138.0	244.0	0.0	0.0	1382.0	0.0
J20	7/02	58-00	169-42	Y34470 Z49699	38	.7	82.0	0.0	0.0	0.0	82.0	0.0
J21	7/06	57-50	170-36	Y34636 Z49955	44	1.8	160.0	160.0	0.0	0.0	320.0	0.0
J21	7/06	58-00	170-19	Y34510 Z49840	42	.9	0.0	164.0	0.0	0.0	164.0	0.0
J22	7/07	57-59	170-57	X18380 Y34513	47	1.6	81.0	81.0	81.0	0.0	244.0	0.0
J23	7/09	58-01	171-35	X18195 Y34463	55	2.1	80.0	80.0	160.0	0.0	320.0	0.0
J24	7/11	58-00	172-14	X17990 Y34413	57	3.0	920.0	1494.0	0.0	0.0	2414.0	0.0
J25	7/24	58-00	172-54	X17762 Y34346	61	3.3	1789.0	81.0	0.0	0.0	1870.0	0.0
J26	7/24	57-58	173-28	X17560 Y34299	66	3.6	1098.0	1220.0	366.0	0.0	2683.0	0.0
K08	6/14	58-19	163-22	Y33280 Z47356	19	2.5	82.0	0.0	0.0	0.0	82.0	0.0
K18	6/29	58-19	168-27	Y34091 Z49221	35	.7	0.0	79.0	0.0	0.0	79.0	0.0
K19	7/03	58-18	169-07	Y34193 Z49430	39	.3	0.0	234.0	0.0	0.0	234.0	0.0
K22	7/07	58-19	171-00	X18306 Y34282	45	.7	0.0	80.0	0.0	0.0	80.0	0.0
K23	7/09	58-19	171-39	X18137 Y34262	54	1.1	79.0	317.0	0.0	0.0	396.0	0.0
K24	7/11	58-20	172-18	X17941 Y34207	56	1.9	3659.0	2927.0	81.0	0.0	6667.0	0.0
K25	7/25	58-19	172-54	X17748 Y34161	62	2.4	899.0	562.0	0.0	0.0	1461.0	0.0
K26	7/25	58-20	173-31	X17548 Y34103	65	3.0	1545.0	488.0	163.0	81.0	2277.0	3.6
L19	7/03	58-38	169-08	Y33961 Z49323	36	.4	0.0	80.0	0.0	0.0	80.0	0.0
L20	7/02	58-40	169-47	Y33993 Z49472	36	1.8	0.0	238.0	0.0	0.0	238.0	0.0
L21	7/05	58-41	170-26	Y34016 Z49600	42	-1.1	0.0	244.0	0.0	0.0	244.0	0.0
L22	7/07	58-39	171-04	X18224 Y34040	45	-.6	81.0	81.0	0.0	0.0	162.0	0.0
L23	7/09	58-39	171-42	X18069 Y34029	53	-.1	0.0	80.0	0.0	0.0	80.0	0.0
L24	7/10	58-40	172-22	X17884 Y33986	55	1.2	123.0	246.0	123.0	0.0	492.0	0.0
L25	7/15	58-41	172-59	X17702 Y33940	63	2.0	159.0	159.0	79.0	0.0	397.0	0.0
L26	7/15	58-39	173-35	X17516 Y33913	71	2.8	83.0	83.0	0.0	0.0	166.0	0.0
L27	7/17	58-40	174-17	X17297 Y33854	89	2.9	85.0	85.0	0.0	0.0	170.0	0.0
L28	7/25	58-39	174-52	X17106 Y33810	126	3.1	315.0	394.0	0.0	0.0	709.0	0.0
L29	7/29	58-39	175-33	X16884 Y33752	76	2.7	2969.0	5156.0	2266.0	0.0	10391.0	0.0
L30	7/29	58-40	176-08	X16692 Y33701	78	3.3	1176.0	1176.0	168.0	0.0	2521.0	0.0
M22	7/07	58-59	171-07	X18152 Y33805	42	-1.1	0.0	79.0	0.0	0.0	79.0	0.0
M23	7/10	58-59	171-46	X18002 Y33800	50	-.6	244.0	163.0	81.0	0.0	488.0	0.0
M24	7/10	59-00	172-26	X17827 Y33764	53	.3	380.0	253.0	0.0	0.0	633.0	0.0
M25	7/15	58-59	173-02	X17662 Y33750	61	.9	709.0	1654.0	79.0	0.0	2441.0	0.0
M26	7/15	58-59	173-42	X17466 Y33711	67	1.9	161.0	81.0	0.0	0.0	242.0	0.0
M27	7/17	58-59	174-22	X17265 Y33665	72	2.3	80.0	80.0	0.0	0.0	160.0	0.0
M28	7/25	58-59	174-59	X17075 Y33631	73	1.6	2240.0	1840.0	80.0	0.0	4160.0	0.0
M29	7/29	59-00	175-44	X16846 Y33565	75	2.8	339.0	254.0	0.0	0.0	593.0	0.0
M30	7/29	58-58	176-17	X16667 Y33543	76	3.3	227.0	152.0	0.0	0.0	379.0	0.0
M31	8/01	59-01	176-58	X16460 Y33469	79	3.3	246.0	328.0	0.0	0.0	574.0	0.0
N18	6/30	59-19	168-34	Y33419 Z48952	22	1.7	0.0	74.0	0.0	0.0	74.0	0.0
N22	7/07	59-19	171-10	X18081 Y33563	40	-1.2	0.0	75.0	0.0	0.0	75.0	0.0
N23	7/10	59-19	171-49	X17937 Y33564	46	-1.1	80.0	240.0	0.0	0.0	320.0	0.0

NOTE: PRE-RECRUIT = 4.3-5.4 IN. WIDTH; LEGAL = GREATER THAN 5.4 IN. WIDTH

TABLE 6 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
N24	7/10	59-20	172-30	X17768 Y33542	48	-.5	323.0	565.0	0.0	0.0	888.0	0.0
N25	7/14	59-20	173-09	X17598 Y33518	57	.1	169.0	85.0	0.0	0.0	254.0	0.0
N26	7/15	59-19	173-47	X17426 Y33512	63	1.1	403.0	161.0	0.0	0.0	564.0	0.0
N27	7/17	59-19	174-26	X17242 Y33471	68	1.1	484.0	645.0	81.0	0.0	1210.0	0.0
N28	7/26	59-19	175-06	X17048 Y33441	75	1.3	157.0	157.0	79.0	0.0	393.0	0.0
N29	7/29	59-20	175-44	X16857 Y33392	77	2.6	424.0	1695.0	0.0	0.0	2119.0	0.0
N30	7/30	59-19	176-22	X16669 Y33367	76	2.8	661.0	1570.0	0.0	0.0	2231.0	0.0
N31	8/01	59-19	177-03	X16462 Y33320	85	2.9	248.0	248.0	0.0	0.0	496.0	0.0
O23	7/10	59-39	171-53	X17872 Y33333	47	-1.1	0.0	83.0	0.0	0.0	83.0	0.0
O24	7/10	59-30	172-52	X17658 Y33423	51	-.3	715.0	1102.0	0.0	0.0	1817.0	0.0
O24	7/10	59-40	172-34	X17715 Y33321	46	-.8	0.0	984.0	0.0	0.0	984.0	0.0
O25	7/14	59-30	173-30	X17495 Y33406	59	.8	0.0	172.0	0.0	0.0	172.0	0.0
O25	7/13	59-40	173-13	X17552 Y33307	54	-.4	0.0	79.0	0.0	0.0	79.0	0.0
O26	7/16	59-40	173-52	X17384 Y33292	59	.3	250.0	250.0	0.0	0.0	500.0	0.0
O27	7/26	59-40	174-29	X17217 Y33270	66	1.3	163.0	81.0	0.0	0.0	244.0	0.0
O28	7/26	59-38	175-06	X17047 Y33257	71	1.6	233.0	233.0	78.0	0.0	543.0	0.0
O29	7/28	59-40	175-51	X16835 Y33209	78	2.4	0.0	242.0	0.0	0.0	242.0	0.0
O30	7/30	59-38	176-31	X16641 Y33191	76	2.3	556.0	952.0	0.0	0.0	1508.0	0.0
O31	8/01	59-40	177-08	X16466 Y33149	100	3.1	476.0	635.0	0.0	0.0	1111.0	0.0
P23	7/10	59-59	172-00	X17800 Y33105	38	-1.2	82.0	82.0	0.0	0.0	164.0	0.0
P24	7/09	60-00	172-39	X17656 Y33092	35	-.6	339.0	2034.0	0.0	0.0	2373.0	0.0
P26	7/16	59-50	174-13	X17281 Y33179	60	.1	0.0	159.0	0.0	0.0	159.0	0.0
P28	7/28	60-00	175-16	X16998 Y33040	66	.4	0.0	325.0	0.0	0.0	325.0	0.0
P29	7/28	60-00	175-54	X16829 Y33027	73	1.8	83.0	750.0	583.0	0.0	1416.0	0.0
P30	7/30	59-58	176-42	X16610 Y33011	80	1.8	81.0	650.0	0.0	0.0	731.0	0.0
P31	7/31	60-01	177-13	X16469 Y32966	77	2.0	0.0	160.0	0.0	0.0	160.0	0.0
P32	7/31	60-00	177-53	X16286 Y32953	80	2.3	0.0	323.0	0.0	0.0	323.0	0.0
Q22	7/08	60-19	171-21	X17880 Y32853	35	-1.3	0.0	85.0	0.0	0.0	85.0	0.0
Q23	7/11	60-20	172-03	X17742 Y32860	34	-1.5	0.0	81.0	0.0	0.0	81.0	0.0
Q29	7/28	60-20	176-02	X16797 Y32837	69	1.2	0.0	82.0	0.0	0.0	82.0	0.0
Q30	7/30	60-20	176-42	X16625 Y32822	77	1.7	81.0	81.0	0.0	0.0	162.0	0.0
R23	7/11	60-39	172-06	X17687 Y32634	35	-1.5	0.0	83.0	0.0	0.0	83.0	0.0
R29	7/27	60-39	176-07	X16779 Y32655	67	1.2	82.0	0.0	0.0	0.0	82.0	0.0
R31	7/31	60-39	177-31	X16436 Y32631	84	2.0	0.0	156.0	0.0	0.0	156.0	0.0
Z04	6/18	54-47	165-41	Y34669 Z48227	100	3.8	21405.0	17083.0	1000.0	83.0	39572.0	0.2

NOTE: PRE-RECRUIT = 4.3-5.4 IN. WIDTH; LEGAL = GREATER THAN 5.4 IN. WIDTH

TABLE 7 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
A03	6/19	54-59	166-20	Y34741 Z48472	81	4.2	0.0	0.0	81.0	161.0	242.0	66.5
A04	6/18	54-59	165-44	Y34654 Z48268	70	4.1	0.0	120.0	120.0	723.0	964.0	75.0
A05	6/18	55-00	165-09	Y34564 Z48059	63	4.8	0.0	81.0	244.0	244.0	569.0	42.9
B02	6/21	55-20	166-58	Y34797 Z48736	76	3.7	0.0	0.0	76.0	0.0	76.0	0.0
B03	6/19	55-19	166-21	Y34706 Z48518	75	4.0	0.0	83.0	83.0	83.0	250.0	33.2
B04	6/18	55-18	165-46	Y34617 Z48310	65	4.2	0.0	81.0	0.0	163.0	244.0	66.8
B05	6/18	55-20	165-10	Y34518 Z48090	62	4.7	0.0	81.0	163.0	488.0	732.0	66.7
B06	6/17	55-20	164-34	Y34424 Z47867	55	3.9	0.0	163.0	976.0	2683.0	3821.0	70.2
B07	6/10	55-20	163-59	Y34330 Z47646	42	3.0	0.0	83.0	165.0	83.0	331.0	25.1
B08	6/10	55-21	163-25	Y34240 Z47431	27	.	0.0	476.0	476.0	238.0	1190.0	20.0
C01	6/22	55-41	167-34	Y34852 Z48997	77	4.2	0.0	0.0	165.0	83.0	248.0	33.5
C03	6/19	55-39	166-23	Y34665 Z48569	71	5.8	0.0	81.0	0.0	161.0	242.0	66.5
C04	6/18	55-39	165-47	Y34568 Z48348	64	4.1	0.0	82.0	82.0	82.0	246.0	33.3
C05	6/18	55-40	165-10	Y34462 Z48115	61	4.2	0.0	806.0	726.0	806.0	2339.0	34.5
C06	6/17	55-39	164-34	Y34364 Z47881	52	3.0	0.0	588.0	252.0	168.0	1008.0	16.7
C07	6/11	55-40	164-00	Y34268 Z47669	54	2.4	0.0	488.0	407.0	81.0	976.0	8.3
C08	6/10	55-40	163-24	Y34171 Z47431	43	2.5	0.0	333.0	167.0	250.0	750.0	33.3
C09	6/10	55-40	162-50	Y34084 Z47215	29	3.4	0.0	236.0	315.0	709.0	1260.0	56.3
D01	6/22	55-59	167-36	Y34819 Z49051	76	4.1	164.0	0.0	0.0	246.0	410.0	60.0
D02	6/20	56-00	166-59	Y34713 Z48829	74	3.8	0.0	0.0	85.0	0.0	85.0	0.0
D03	6/19	56-00	166-23	Y34607 Z48597	70	4.0	0.0	169.0	85.0	254.0	508.0	50.0
D04	6/19	56-00	165-47	Y34500 Z48369	58	3.7	0.0	85.0	85.0	254.0	424.0	59.9
D05	6/17	56-00	165-11	Y34397 Z48138	55	3.2	0.0	328.0	492.0	656.0	1475.0	44.5
D06	6/17	55-59	164-29	Y34282 Z47868	50	2.1	0.0	1008.0	1008.0	756.0	2773.0	27.3
D07	6/11	55-58	163-59	Y34200 Z47671	52	2.0	0.0	331.0	496.0	413.0	1240.0	33.3
D08	6/11	56-00	163-23	Y34093 Z47431	48	2.3	0.0	678.0	678.0	678.0	2034.0	33.3
D09	6/10	56-00	162-49	Y33999 Z47208	45	2.3	0.0	325.0	163.0	163.0	650.0	25.1
D10	6/10	56-00	162-14	Y33912 Z46979	38	2.8	0.0	123.0	0.0	123.0	247.0	49.8
E01	6/21	56-18	167-37	Y34711 Z49139	73	4.2	0.0	0.0	0.0	161.0	161.0	100.0
E02	6/20	56-20	167-02	Y34659 Z48873	62	3.3	0.0	163.0	81.0	81.0	325.0	24.9
E03	6/19	56-19	166-24	Y34546 Z48629	60	2.4	0.0	254.0	0.0	254.0	508.0	50.0
E04	6/19	56-19	165-48	Y34432 Z48392	49	1.2	0.0	325.0	0.0	732.0	1057.0	69.3
E05	6/17	56-20	165-12	Y34322 Z48154	50	.	84.0	336.0	252.0	336.0	1008.0	33.3
E06	6/16	56-20	164-34	Y34210 Z47908	47	1.6	0.0	698.0	233.0	814.0	1744.0	46.7
E07	8/06	56-20	163-58	Y34105 Z47664	49	1.6	0.0	0.0	80.0	240.0	320.0	75.0
E07	6/11	56-20	163-58	Y34107 Z47668	49	1.5	0.0	1061.0	1212.0	1212.0	3485.0	34.8
E08	8/06	56-20	163-41	Y34058 Z47553	48	2.0	0.0	163.0	81.0	0.0	244.0	0.0
E08	8/06	56-21	163-23	Y34003 Z47432	48	2.5	0.0	0.0	0.0	161.0	161.0	100.0
E08	6/11	56-21	163-23	Y34006 Z47437	40	1.8	0.0	744.0	826.0	909.0	2479.0	36.7
E09	6/10	56-20	162-47	Y33911 Z47197	45	2.2	0.0	0.0	0.0	492.0	492.0	100.0
E10	6/10	56-20	162-11	Y33817 Z46958	41	2.3	0.0	174.0	87.0	174.0	435.0	40.0
E11	6/07	56-20	161-34	Y33721 Z46712	36	2.6	0.0	0.0	160.0	240.0	400.0	60.0
E12	6/05	56-11	161-05	Y33689 Z46518	20	.	0.0	0.0	0.0	85.0	85.0	100.0
E19	7/01	56-21	168-52	Y34986 Z49553	71	3.7	0.0	85.0	171.0	1197.0	1453.0	82.4
E21	7/08	56-20	170-04	X18399 Z49899	62	3.3	0.0	236.0	0.0	0.0	236.0	0.0

NOTE: PRE-RECRUIT = 3.7-4.2 IN. WIDTH; LARGE = GREATER THAN 4.2 IN. WIDTH

TABLE 7 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
F01	6/21	56-40	167-40	Y34705 Z49142	59	2.4	0.0	0.0	244.0	81.0	325.0	24.9
F02	6/20	56-40	167-04	Y34587 Z48906	51	1.5	0.0	0.0	0.0	265.0	265.0	100.0
F03	6/20	56-38	166-25	Y34467 Z48645	49	.7	84.0	756.0	84.0	0.0	924.0	0.0
F04	6/19	56-39	165-49	Y34351 Z48411	42	.6	83.0	167.0	83.0	417.0	750.0	55.6
F05	6/17	56-40	165-13	Y34234 Z48167	43	.	0.0	579.0	0.0	496.0	1074.0	46.2
F06	6/16	56-40	164-35	Y34120 Z47916	40	1.2	0.0	508.0	254.0	85.0	847.0	10.0
F06	8/04	56-39	164-36	Y34129 Z47924	43	1.5	0.0	168.0	252.0	0.0	420.0	0.0
F07	8/04	56-39	164-18	Y34072 Z47800	42	.	0.0	246.0	82.0	328.0	656.0	50.0
F07	8/04	56-39	164-01	Y34025 Z47685	43	2.0	0.0	0.0	85.0	85.0	171.0	49.7
F07	8/06	56-29	164-00	Y34071 Z47683	47	2.0	81.0	81.0	163.0	81.0	406.0	20.0
F07	8/06	56-29	164-19	Y34124 Z47805	46	1.7	0.0	0.0	81.0	0.0	81.0	0.0
F07	6/11	56-39	163-59	Y34021 Z47676	43	1.7	0.0	1143.0	735.0	327.0	2205.0	14.8
F08	8/06	56-29	163-42	Y34019 Z47560	46	2.3	0.0	248.0	248.0	0.0	496.0	0.0
F08	8/06	56-29	163-23	Y33966 Z47437	46	2.2	0.0	0.0	0.0	167.0	167.0	100.0
F08	6/11	56-39	163-22	Y34912 Z47425	40	1.9	83.0	1074.0	1074.0	1074.0	3306.0	32.5
F09	8/06	56-29	163-08	Y33922 Z47331	46	2.3	0.0	0.0	0.0	248.0	248.0	100.0
F09	8/04	56-39	163-06	Y33872 Z47318	42	.	0.0	0.0	165.0	83.0	248.0	33.5
F09	8/04	56-39	162-48	Y33823 Z47199	41	.	0.0	0.0	83.0	83.0	165.0	50.3
F09	6/09	56-40	162-47	Y33814 Z47194	40	2.0	0.0	789.0	175.0	439.0	1404.0	31.3
F10	6/09	56-40	162-11	Y33719 Z46947	39	2.0	0.0	246.0	492.0	328.0	1066.0	30.8
F11	6/07	56-40	161-34	Y33626 Z46704	51	2.0	0.0	0.0	609.0	261.0	870.0	30.0
F12	6/07	56-39	160-59	Y33540 Z46467	36	2.4	0.0	0.0	0.0	247.0	247.0	100.0
F18	6/25	56-39	168-17	X18650 Z49384	57	2.2	9000.0	167.0	500.0	167.0	9833.0	1.7
F19	7/01	56-39	168-54	Y34952 Z49614	57	2.2	163.0	488.0	1057.0	1789.0	3496.0	51.2
F20	7/05	56-39	169-30	X18611 Z49830	42	3.8	0.0	159.0	794.0	794.0	1746.0	45.5
F21	7/08	56-40	170-06	X18545 Z50004	55	3.3	0.0	82.0	82.0	82.0	246.0	33.3
F23	7/08	56-39	171-20	X18198 Z50146	67	3.6	0.0	0.0	81.0	0.0	81.0	0.0
Q01	6/21	57-00	167-43	Y34623 Z49167	44	1.2	0.0	81.0	325.0	407.0	813.0	50.1
Q02	6/20	57-00	167-05	Y34492 Z48916	40	.7	565.0	403.0	403.0	161.0	1533.0	10.5
Q03	6/20	56-59	166-27	Y34372 Z48662	42	.7	6905.0	5476.0	714.0	476.0	13572.0	3.5
Q04	6/19	56-59	165-50	Y34247 Z48412	39	.5	4250.0	1750.0	250.0	333.0	6583.0	5.1
Q05	6/17	57-00	165-13	Y34128 Z48167	40	.3	167.0	833.0	250.0	250.0	1500.0	16.7
Q06	6/16	57-00	164-36	Y34016 Z47916	37	.8	0.0	250.0	250.0	375.0	875.0	42.9
Q07	8/05	56-49	164-00	Y33968 Z47677	41	.	0.0	161.0	81.0	0.0	242.0	0.0
Q07	8/05	57-00	163-57	Y33903 Z47658	38	2.0	0.0	83.0	165.0	0.0	248.0	0.0
Q07	6/14	56-59	163-58	Y33912 Z47665	39	.8	0.0	488.0	488.0	650.0	1626.0	40.0
Q08	8/05	57-00	163-39	Y33852 Z47533	37	.	81.0	0.0	163.0	0.0	244.0	0.0
Q08	8/05	56-49	163-24	Y33866 Z47434	40	.	0.0	83.0	248.0	165.0	496.0	33.3
Q08	8/05	56-49	163-41	Y33916 Z47554	40	2.0	0.0	82.0	82.0	0.0	164.0	0.0
Q08	6/11	56-59	163-23	Y34809 Z47427	35	.8	0.0	469.0	703.0	469.0	1641.0	28.6
Q09	8/05	56-49	163-04	Y33813 Z47306	37	2.9	0.0	83.0	165.0	0.0	248.0	0.0
Q09	6/09	57-00	162-47	Y33705 Z47183	34	1.3	0.0	407.0	813.0	81.0	1301.0	6.2
Q10	6/09	57-00	162-10	Y33611 Z46935	32	1.6	0.0	76.0	227.0	152.0	455.0	33.4
Q11	6/07	56-59	161-34	Y33526 Z46693	39	2.1	0.0	86.0	431.0	259.0	776.0	33.4
Q12	6/07	56-59	160-57	Y33433 Z46445	33	2.3	0.0	93.0	185.0	185.0	463.0	40.0

NOTE: PRE-RECRUIT = 3.7-4.2 IN. WIDTH; LARGE = GREATER THAN 4.2 IN. WIDTH

TABLE 7 DATA FROM THE 1986 EARTERN BERING SEA TRAWL SURVEY WHERE OPILIO TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
Q18	6/27	56-59	168-21	Y34762 Z49421	46	2.4	0.0	1138.0	488.0	1220.0	2846.0	42.9
Q18	6/27	56-49	168-36	Y34864 Z49519	55	1.7	161.0	887.0	1452.0	1129.0	3629.0	31.1
Q19	7/01	57-00	168-56	Y34886 Z49660	45	2.4	80.0	480.0	640.0	1200.0	2400.0	50.0
Q19	7/01	56-49	169-17	Y34999 Z49777	46	2.2	0.0	976.0	1545.0	2358.0	4878.0	48.3
Q20	7/04	56-50	169-53	Y35102 Z49990	38	3.6	0.0	0.0	385.0	769.0	1154.0	66.6
Q20	7/04	57-01	169-32	Y35013 Z49895	33	2.6	0.0	0.0	2615.0	19397.0	22012.0	88.1
Q21	7/07	56-51	170-28	X18554 Z50123	57	3.3	81.0	81.0	569.0	325.0	1057.0	30.7
Q21	7/07	56-59	170-10	X18689 Z50113	40	3.1	0.0	81.0	0.0	81.0	161.0	50.3
Q22	7/06	56-59	170-47	X18502 Y35092	51	3.1	0.0	0.0	0.0	120.0	120.0	100.0
Q23	7/08	56-56	171-23	X18262 Z50179	63	.	820.0	82.0	410.0	164.0	1476.0	11.1
Q24	7/11	56-59	172-01	X18025 Y34909	63	3.6	0.0	115.0	230.0	230.0	575.0	40.0
Q26	7/23	56-59	173-14	X17552 Y34730	79	3.9	0.0	0.0	78.0	0.0	78.0	0.0
H01	6/21	57-20	167-44	Y34501 Z49159	42	.5	400.0	1600.0	1040.0	400.0	3440.0	11.6
H02	6/20	57-19	167-06	Y34375 Z48906	38	.8	85.0	342.0	855.0	427.0	1709.0	25.0
H03	6/20	57-19	166-29	Y34254 Z48658	40	1.2	63785.0	25669.0	709.0	315.0	90478.0	0.3
H04	6/19	57-19	165-51	Y34132 Z48406	37	.8	354.0	1062.0	88.0	177.0	1681.0	10.5
H05	6/17	57-20	165-14	Y34012 Z48156	38	.7	4454.0	9664.0	1008.0	84.0	15210.0	0.6
H06	6/16	57-19	164-37	Y33906 Z47912	35	1.0	417.0	1000.0	250.0	83.0	1750.0	4.7
H07	6/14	57-19	163-59	Y33798 Z47658	36	.8	80.0	2080.0	880.0	0.0	3040.0	0.0
H08	6/14	57-20	163-23	Y33690 Z47417	28	1.9	167.0	1083.0	250.0	0.0	1500.0	0.0
H09	6/09	57-20	162-46	Y33589 Z47166	28	1.5	0.0	81.0	0.0	0.0	81.0	0.0
H10	6/09	57-20	162-09	Y33495 Z46919	27	1.6	0.0	0.0	77.0	0.0	77.0	0.0
H11	6/07	57-20	161-32	Y33403 Z46677	31	2.5	0.0	0.0	81.0	0.0	81.0	0.0
H12	6/07	57-20	160-56	Y33318 Z46431	33	2.3	0.0	88.0	175.0	175.0	439.0	39.9
H18	6/27	57-19	168-23	Y34649 Z49420	43	.8	1048.0	1855.0	1129.0	161.0	4193.0	3.8
H18	6/27	57-09	168-37	Y34763 Z49527	43	1.6	163.0	1951.0	1951.0	1545.0	5610.0	27.5
H19	7/02	57-19	169-00	Y34782 Z49664	40	1.6	0.0	248.0	413.0	165.0	826.0	20.0
H19	7/01	57-09	169-17	Y34910 Z49793	41	1.8	0.0	244.0	1301.0	1870.0	3415.0	54.8
H20	7/03	57-11	169-53	Y35040 Z50033	25	4.0	175.0	88.0	0.0	175.0	438.0	40.0
H20	7/03	57-20	169-37	Y34900 Z49897	33	1.2	15222.0	4284.0	1325.0	2288.0	23119.0	9.9
H22	7/06	57-19	170-50	X18519 Y34958	44	2.9	234.0	0.0	156.0	156.0	547.0	28.5
H23	7/09	57-19	171-27	X18287 Y34870	57	3.1	0.0	161.0	484.0	242.0	887.0	27.3
H24	7/11	57-20	172-05	X18044 Y34772	58	3.6	0.0	83.0	331.0	579.0	992.0	58.4
H26	7/23	57-19	173-19	X17569 Y34605	68	3.9	0.0	0.0	0.0	81.0	81.0	100.0
I01	6/21	57-39	167-43	Y34359 Z49116	40	1.0	1368.0	5385.0	3333.0	3846.0	13932.0	27.6
I02	6/28	57-40	167-08	Y34230 Z48882	36	.8	191884.0	264328.0	963.0	519.0	457694.0	0.1
I03	6/20	57-38	166-30	Y34123 Z48640	38	1.1	394.0	787.0	315.0	157.0	1654.0	9.5
I04	6/26	57-39	165-52	Y33998 Z48388	34	1.2	54615.0	57846.0	1231.0	462.0	114153.0	0.4
I05	6/16	57-40	165-15	Y33877 Z48141	35	1.0	150960.0	333517.0	0.0	0.0	484477.0	0.0
I06	6/16	57-40	164-36	Y33767 Z47886	28	1.7	6722.0	9843.0	551.0	79.0	17194.0	0.5
I07	6/14	57-39	164-00	Y33671 Z47650	30	1.7	508.0	2881.0	169.0	0.0	3559.0	0.0
I12	6/08	57-39	160-53	Y33195 Z46406	30	2.4	0.0	0.0	0.0	86.0	86.0	100.0
I18	6/29	57-39	168-23	Y34481 Z49365	38	1.0	400093.0	146202.0	2636.0	1163.0	550093.0	0.2
I18	6/27	57-29	168-44	Y34642 Z49532	40	.9	238390.0	37465.0	2526.0	842.0	279223.0	0.3
I19	7/02	57-38	169-04	Y34620 Z49620	39	1.1	32049.0	4553.0	2033.0	732.0	39366.0	1.9

NOTE: PRE-RECRUIT = 3.7-4.2 IN. WIDTH; LARGE = GREATER THAN 4.2 IN. WIDTH

TABLE 7 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
I19	7/02	57-29	169-20	Y34765 Z49759	40	.8	9631.0	5447.0	2276.0	407.0	17761.0	2.3
I20	7/03	57-30	169-59	Y34853 Z49964	37	1.7	979290.0	96113.0	9355.0	2581.0	1087338.0	0.2
I20	7/03	57-40	169-39	Y34700 Z49808	38	1.1	519.0	1037.0	2000.0	1111.0	4667.0	23.8
I21	7/06	57-29	170-35	Y34878 Z50084	42	2.8	82.0	328.0	574.0	492.0	1475.0	33.4
I21	7/06	57-39	170-17	Y34761 Z49971	41	1.9	413.0	992.0	5785.0	11240.0	18430.0	61.0
I22	7/06	57-39	170-54	X18461 Y34751	46	2.3	313.0	469.0	1406.0	1328.0	3516.0	37.8
I23	7/09	57-39	171-32	X18252 Y34687	56	2.6	79.0	238.0	1111.0	159.0	1587.0	10.0
I24	7/11	57-40	172-10	X18027 Y34603	59	3.5	233.0	698.0	116.0	233.0	1280.0	18.2
I25	7/24	57-39	172-42	X17830 Y34542	66	3.4	0.0	0.0	246.0	574.0	820.0	70.0
I26	7/24	57-40	173-22	X17583 Y34453	82	3.4	0.0	0.0	0.0	161.0	161.0	100.0
J01	6/29	58-00	167-48	Y34188 Z49083	36	.8	1429.0	5556.0	714.0	1905.0	9604.0	19.8
J02	6/28	58-00	167-10	Y34069 Z48844	34	.7	240.0	2240.0	320.0	480.0	3280.0	14.6
J03	6/28	57-59	166-30	Y33959 Z48597	35	.9	2439.0	10488.0	488.0	325.0	13740.0	2.4
J04	6/26	57-59	165-54	Y33848 Z48363	29	2.0	3684.0	6842.0	0.0	0.0	10526.0	0.0
J05	6/16	58-01	165-15	Y33724 Z48111	29	1.8	167.0	667.0	0.0	83.0	917.0	9.1
J18	6/29	57-59	168-26	Y34303 Z49311	37	.8	4262.0	6393.0	1803.0	3525.0	15983.0	22.1
J18	6/29	57-49	168-43	Y34452 Z49453	38	.9	183733.0	190395.0	3615.0	2538.0	380281.0	0.7
J19	7/02	57-59	169-03	Y34396 Z49513	40	.8	52317.0	46399.0	8002.0	1789.0	108507.0	1.6
J19	7/02	57-49	169-21	Y34558 Z49668	37	.8	156.0	1094.0	1094.0	234.0	2578.0	9.1
J20	7/03	57-50	169-58	Y34616 Z49833	39	1.0	32016.0	6481.0	2276.0	5935.0	46708.0	12.7
J20	7/02	58-00	169-42	Y34470 Z49699	38	.7	328.0	492.0	2623.0	3197.0	6639.0	48.2
J21	7/06	57-50	170-36	Y34636 Z49955	44	1.8	1440.0	960.0	13440.0	19440.0	35280.0	55.1
J21	7/06	58-00	170-19	Y34510 Z49840	42	.9	164.0	1967.0	10656.0	14590.0	27377.0	53.3
J22	7/07	57-59	170-57	X18380 Y34513	47	1.6	732.0	1382.0	2764.0	3008.0	7886.0	38.1
J23	7/09	58-01	171-35	X18195 Y34463	55	2.1	160.0	320.0	1360.0	720.0	2560.0	28.1
J24	7/11	58-00	172-14	X17990 Y34413	57	3.0	1609.0	1379.0	805.0	690.0	4483.0	15.4
J25	7/24	58-00	172-54	X17762 Y34346	61	3.3	0.0	81.0	244.0	569.0	894.0	63.6
K01	6/30	58-21	167-50	Y33983 Z49012	34	.6	1855.0	4194.0	161.0	81.0	6290.0	1.3
K02	6/28	58-20	167-10	Y33883 Z48779	28	1.5	79.0	551.0	0.0	0.0	630.0	0.0
K18	6/29	58-19	168-27	Y34091 Z49221	35	.7	25181.0	91669.0	1890.0	2047.0	120787.0	1.7
K19	7/03	58-18	169-07	Y34193 Z49430	39	.3	18769.0	10332.0	7188.0	7344.0	43632.0	16.8
K20	7/02	58-20	169-44	Y34231 Z49582	37	.4	488.0	976.0	2195.0	2683.0	6342.0	42.3
K21	7/05	58-20	170-22	Y34269 Z49720	43	-.1	1760.0	2160.0	5760.0	2640.0	12320.0	21.4
K22	7/07	58-19	171-00	X18306 Y34282	45	.7	480.0	1440.0	6400.0	11040.0	19360.0	57.0
K23	7/09	58-19	171-39	X18137 Y34262	54	1.1	476.0	476.0	1984.0	2460.0	5397.0	45.6
K24	7/11	58-20	172-18	X17941 Y34207	56	1.9	2602.0	1951.0	650.0	163.0	5366.0	3.0
K25	7/25	58-19	172-54	X17748 Y34161	62	2.4	0.0	0.0	225.0	112.0	337.0	33.2
K26	7/25	58-20	173-31	X17548 Y34103	65	3.0	0.0	81.0	163.0	81.0	325.0	24.9
L01	6/30	58-41	167-52	Y33777 Z48933	26	2.3	0.0	163.0	0.0	0.0	163.0	0.0
L18	6/30	58-39	168-30	Y33878 Z49138	28	1.8	1404.0	4211.0	88.0	88.0	5790.0	1.5
L19	7/03	58-38	169-08	Y33961 Z49323	36	.4	480.0	1520.0	2080.0	720.0	4800.0	15.0
L20	7/02	58-40	169-47	Y33993 Z49472	36	1.8	2857.0	3016.0	8968.0	2381.0	17222.0	13.8
L21	7/05	58-41	170-26	Y34016 Z49600	42	-1.1	45732.0	17534.0	4390.0	894.0	68550.0	1.3
L22	7/07	58-39	171-04	X18224 Y34040	45	-.6	3659.0	3496.0	13252.0	3171.0	23578.0	13.4
L23	7/09	58-39	171-42	X18069 Y34029	53	-.1	640.0	960.0	3120.0	1680.0	6400.0	26.3

NOTE: PRE-RECRUIT = 3.7-4.2 IN. WIDTH; LARGE = GREATER THAN 4.2 IN. WIDTH

TABLE 7 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
L24	7/10	58-40	172-22	X17884 Y33986	55	1.2	246.0	123.0	615.0	861.0	1845.0	46.7
L25	7/15	58-41	172-59	X17702 Y33940	63	2.0	556.0	238.0	238.0	238.0	1270.0	18.7
L26	7/15	58-39	173-35	X17516 Y33913	71	2.8	83.0	0.0	83.0	83.0	248.0	33.5
L27	7/17	58-40	174-17	X17297 Y33854	89	2.9	0.0	0.0	0.0	85.0	85.0	100.0
L28	7/25	58-39	174-52	X17106 Y33810	126	3.1	157.0	0.0	0.0	0.0	157.0	0.0
L29	7/29	58-39	175-33	X16884 Y33752	76	2.7	0.0	78.0	469.0	313.0	859.0	36.4
L30	7/29	58-40	176-08	X16692 Y33701	78	3.3	252.0	84.0	0.0	168.0	504.0	33.3
M18	6/30	59-01	168-33	Y33628 Z49039	24	2.2	78.0	155.0	0.0	0.0	233.0	0.0
M19	7/03	58-58	169-11	Y33726 Z49221	31	1.7	1875.0	7734.0	156.0	0.0	9766.0	0.0
M20	7/02	59-00	169-50	Y33750 Z49362	33	.5	157.0	5354.0	19843.0	1260.0	26614.0	4.7
M21	7/05	59-00	170-29	Y33774 Z49485	40	-1.1	3852.0	2869.0	5738.0	246.0	12704.0	1.9
M22	7/07	58-59	171-07	X18152 Y33805	42	-1.1	10159.0	3175.0	12937.0	3889.0	30159.0	12.9
M23	7/10	58-59	171-46	X18002 Y33800	50	-.6	1301.0	1789.0	13659.0	7967.0	24716.0	32.2
M24	7/10	59-00	172-26	X17827 Y33764	53	.3	5823.0	5570.0	5443.0	8608.0	25443.0	33.8
M25	7/15	58-59	173-02	X17662 Y33750	61	.9	1890.0	1339.0	787.0	236.0	4252.0	5.6
M26	7/15	58-59	173-42	X17466 Y33711	67	1.9	645.0	161.0	161.0	806.0	1774.0	45.4
M27	7/17	58-59	174-22	X17265 Y33665	72	2.3	1040.0	320.0	560.0	640.0	2560.0	25.0
M28	7/25	58-59	174-59	X17075 Y33631	73	1.6	2080.0	480.0	80.0	480.0	3120.0	15.4
M29	7/29	59-00	175-44	X16846 Y33565	75	2.8	254.0	0.0	169.0	169.0	593.0	28.5
M30	7/29	58-58	176-17	X16667 Y33543	76	3.3	455.0	303.0	76.0	76.0	910.0	8.4
M31	8/01	59-01	176-58	X16460 Y33469	79	3.3	164.0	82.0	0.0	0.0	246.0	0.0
N18	6/30	59-19	168-34	Y33419 Z48952	22	1.7	147.0	662.0	0.0	0.0	809.0	0.0
N19	7/03	59-18	169-14	Y33484 Z49122	29	.1	82.0	656.0	902.0	0.0	1639.0	0.0
N20	7/02	59-19	169-52	Y33515 Z49255	33	-.8	4615.0	15000.0	15923.0	231.0	35769.0	0.6
N21	7/05	59-20	170-32	Y33535 Z49378	39	-1.2	5666.0	5000.0	1475.0	0.0	12141.0	0.0
N22	7/07	59-19	171-10	X18081 Y33563	40	-1.2	15789.0	14361.0	12632.0	677.0	43458.0	1.6
N23	7/10	59-19	171-49	X17937 Y33564	46	-1.1	4640.0	3840.0	11520.0	3200.0	23200.0	13.8
N24	7/10	59-20	172-30	X17768 Y33542	48	-.5	25161.0	15645.0	10484.0	4355.0	55645.0	7.8
N25	7/14	59-20	173-09	X17598 Y33518	57	.1	2373.0	593.0	508.0	169.0	3644.0	4.6
N26	7/15	59-19	173-47	X17426 Y33512	63	1.1	1048.0	81.0	0.0	0.0	1129.0	0.0
N27	7/17	59-19	174-26	X17242 Y33471	68	1.1	16323.0	2419.0	968.0	242.0	19952.0	1.2
N28	7/26	59-19	175-06	X17048 Y33441	75	1.3	94365.0	236.0	1260.0	1811.0	97672.0	1.9
N29	7/29	59-20	175-44	X16857 Y33392	77	2.6	85.0	85.0	847.0	2373.0	3390.0	70.0
N30	7/30	59-19	176-22	X16669 Y33367	76	2.8	1074.0	826.0	413.0	1074.0	3388.0	31.7
N31	8/01	59-19	177-03	X16462 Y33320	85	2.9	413.0	248.0	0.0	496.0	1157.0	42.9
O18	6/30	59-39	168-37	Y33183 Z48860	20	2.0	78.0	0.0	0.0	0.0	78.0	0.0
O19	7/03	59-39	169-16	Y33241 Z49018	27	.0	0.0	0.0	325.0	0.0	325.0	0.0
O20	7/01	59-40	169-55	Y33263 Z49149	30	-1.0	29387.0	30776.0	6142.0	630.0	66935.0	0.9
O21	7/05	59-41	170-37	Y33282 Z49273	38	-1.2	6573.0	15626.0	4341.0	0.0	26540.0	0.0
O22	7/08	59-39	171-14	X18010 Y33324	39	-1.2	13866.0	22689.0	9748.0	504.0	46807.0	1.1
O23	7/10	59-39	171-53	X17872 Y33333	47	-1.1	13300.0	9417.0	4000.0	583.0	27300.0	2.1
O24	7/10	59-30	172-52	X17658 Y33423	51	-.3	62341.0	39490.0	5574.0	4918.0	112323.0	4.4
O24	7/10	59-40	172-34	X17715 Y33321	46	-.8	57787.0	45492.0	5656.0	1639.0	110574.0	1.5
O25	7/14	59-30	173-30	X17495 Y33406	59	.8	25916.0	1810.0	1983.0	690.0	30399.0	2.3
O25	7/13	59-40	173-13	X17552 Y33307	54	-.4	1339.0	2283.0	787.0	630.0	5040.0	12.5

NOTE: PRE-RECRUIT = 3.7-4.2 IN. WIDTH; LARGE = GREATER THAN 4.2 IN. WIDTH

TABLE 7 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
O26	7/16	59-40	173-52	X17384 Y33292	59	.3	333.0	417.0	917.0	333.0	2000.0	16.7
O27	7/26	59-40	174-29	X17217 Y33270	66	1.3	5366.0	650.0	1626.0	650.0	8293.0	7.8
O28	7/26	59-38	175-06	X17047 Y33257	71	1.6	3721.0	853.0	1628.0	1318.0	7519.0	17.5
O29	7/28	59-40	175-51	X16835 Y33209	78	2.4	806.0	81.0	484.0	1290.0	2661.0	48.5
O30	7/30	59-38	176-31	X16641 Y33191	76	2.3	714.0	1111.0	635.0	79.0	2539.0	3.1
O31	8/01	59-40	177-08	X16466 Y33149	100	3.1	159.0	238.0	79.0	0.0	476.0	0.0
P18	6/30	59-59	168-38	Y32944 Z48767	20	2.2	0.0	78.0	0.0	0.0	78.0	0.0
P19	7/04	59-59	169-18	Y32995 Z48920	26	1.2	79.0	238.0	0.0	0.0	317.0	0.0
P20	7/01	60-00	169-58	Y33023 Z49052	29	-1.0	20154.0	26220.0	2276.0	0.0	48650.0	0.0
P21	7/04	60-01	170-38	Y33043 Z49168	37	-1.7	2083.0	2583.0	750.0	0.0	5416.0	0.0
P22	7/08	59-59	171-17	X17944 Y33085	37	-1.2	39433.0	72063.0	17143.0	317.0	128957.0	0.2
P23	7/10	59-59	172-00	X17800 Y33105	38	-1.2	1639.0	3934.0	328.0	0.0	5901.0	0.0
P23	7/10	59-49	172-13	X17774 Y33215	43	-1.2	26000.0	31693.0	2047.0	79.0	59819.0	0.1
P24	7/09	59-48	172-54	X17617 Y33223	44	-.8	4333.0	4500.0	583.0	250.0	9666.0	2.6
P24	7/09	60-00	172-39	X17656 Y33092	35	-.6	763.0	7627.0	424.0	0.0	8814.0	0.0
P25	7/13	59-50	173-34	X17452 Y33191	54	-.4	240.0	560.0	800.0	240.0	1840.0	13.0
P25	7/13	60-00	173-18	X17501 Y33087	42	-.9	3906.0	3516.0	1406.0	0.0	8828.0	0.0
P26	7/16	59-50	174-13	X17281 Y33179	60	.1	714.0	317.0	794.0	79.0	1904.0	4.1
P26	7/16	59-59	173-57	X17343 Y33085	55	-.4	246.0	574.0	410.0	164.0	1394.0	11.8
P27	7/26	59-58	174-35	X17181 Y33079	61	.6	1905.0	1071.0	2976.0	1548.0	7500.0	20.6
P28	7/28	60-00	175-16	X16998 Y33040	66	.4	21911.0	976.0	1138.0	488.0	24513.0	2.0
P29	7/28	60-00	175-54	X16829 Y33027	73	1.8	35810.0	0.0	0.0	0.0	35810.0	0.0
P30	7/30	59-58	176-42	X16610 Y33011	80	1.8	650.0	163.0	813.0	2358.0	3983.0	59.2
P31	7/31	60-01	177-13	X16469 Y32966	77	2.0	80.0	0.0	160.0	160.0	400.0	40.0
P32	7/31	60-00	177-53	X16286 Y32953	80	2.3	81.0	323.0	0.0	161.0	565.0	28.5
Q19	7/04	60-19	169-18	Y32752 Z48819	25	1.2	81.0	0.0	81.0	0.0	162.0	0.0
Q20	7/01	60-19	170-01	Y32790 Z48959	27	-.8	33922.0	36113.0	547.0	0.0	70582.0	0.0
Q21	7/04	60-20	170-36	Y32811 Z49061	35	-.8	34960.0	47868.0	7092.0	0.0	89920.0	0.0
Q22	7/08	60-19	171-21	X17880 Y32853	35	-1.3	35408.0	52137.0	3248.0	0.0	90793.0	0.0
Q23	7/11	60-20	172-03	X17742 Y32860	34	-1.5	0.0	2258.0	484.0	0.0	2742.0	0.0
Q23	7/11	60-08	172-17	X17720 Y32995	33	1.1	315.0	315.0	0.0	0.0	630.0	0.0
Q25	7/13	60-07	173-44	X17387 Y33012	50	-.7	1626.0	6341.0	1870.0	163.0	10000.0	1.6
Q25	7/12	60-19	173-20	X17463 Y32879	35	-.6	1280.0	17095.0	625.0	0.0	19000.0	0.0
Q26	7/16	60-10	174-20	X17236 Y32968	57	-.2	6418.0	1680.0	2080.0	2000.0	12178.0	16.4
Q26	7/16	60-19	174-05	X17289 Y32876	52	-.6	968.0	4032.0	2177.0	161.0	7339.0	2.2
Q27	7/26	60-18	174-42	X17138 Y32879	58	.0	588.0	118.0	235.0	118.0	1059.0	11.1
Q28	7/28	60-19	175-23	X16964 Y32854	63	.8	945.0	551.0	1024.0	315.0	2835.0	11.1
Q29	7/28	60-20	176-02	X16797 Y32837	69	1.2	19022.0	1066.0	820.0	1311.0	22219.0	5.9
Q30	7/30	60-20	176-42	X16625 Y32822	77	1.7	7628.0	813.0	1057.0	2520.0	12018.0	21.0
Q31	7/31	60-20	177-24	X16444 Y32802	82	2.2	0.0	0.0	81.0	325.0	407.0	79.9
R22	7/08	60-39	171-25	X17817 Y32620	33	-1.3	21220.0	30732.0	4390.0	0.0	56342.0	0.0
R23	7/11	60-39	172-06	X17687 Y32634	35	-1.5	28688.0	44165.0	667.0	0.0	73520.0	0.0
R24	7/09	60-42	172-47	X17546 Y32625	24	.7	46725.0	94284.0	4172.0	0.0	145180.0	0.0
R25	7/12	60-40	173-28	X17404 Y32652	38	-.6	72157.0	90341.0	0.0	0.0	162498.0	0.0
R26	7/16	60-38	174-06	X17265 Y32675	50	-.6	6337.0	24094.0	3014.0	0.0	33445.0	0.0

NOTE: PRE-RECRUIT = 3.7-4.2 IN. WIDTH; LARGE = GREATER THAN 4.2 IN. WIDTH

TABLE 7 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO TANNER CRAB WERE TAKEN (CONTINUED)

							NUMBER PER SQUARE MILE					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
R27	7/27	60-40	174-49	X17096 Y32658	55	.0	1870.0	4959.0	2439.0	650.0	9919.0	6.6
R28	7/27	60-40	175-25	X16950 Y32657	61	.7	5476.0	3690.0	4762.0	952.0	14881.0	6.4
R29	7/27	60-39	176-07	X16779 Y32655	67	1.2	5246.0	1230.0	1311.0	1148.0	8935.0	12.8
R30	7/30	60-38	176-47	X16615 Y32654	74	2.2	1200.0	480.0	5360.0	2320.0	9360.0	24.8
R31	7/31	60-39	177-31	X16436 Y32631	84	2.0	703.0	781.0	781.0	1484.0	3750.0	39.6
R32	7/31	60-40	178-09	X16276 Y32616	90	2.7	806.0	323.0	242.0	2016.0	3387.0	59.5
S22	7/08	60-59	171-28	X17760 Y32383	32	-1.3	76485.0	109382.0	4935.0	0.0	190802.0	0.0
S23	7/11	60-39	172-09	X17639 Y32414	37	-1.6	30984.0	52377.0	492.0	0.0	83853.0	0.0
S24	7/09	61-00	172-46	X17515 Y32414	36	-1.1	202557.0	462358.0	0.0	0.0	664915.0	0.0
S25	7/12	61-00	173-29	X17372 Y32435	43	-1.2	83922.0	96010.0	1870.0	0.0	181802.0	0.0
S26	7/27	60-59	174-12	X17218 Y32456	48	-1.0	25161.0	22903.0	4597.0	968.0	53629.0	1.8
Z04	6/18	54-47	165-41	Y34669 Z48227	100	3.8	169.0	85.0	339.0	1610.0	2203.0	73.1
Z05	6/18	54-41	165-07	Y34600 Z48022	46	5.0	0.0	0.0	0.0	81.0	81.0	100.0

NOTE: PRE-RECRUIT = 3.7-4.2 IN. WIDTH; LARGE = GREATER THAN 4.2 IN. WIDTH

TABLE 8 DATA FROM THE 1986 EASTERN BERING SEA TRAWL SURVEY WHERE KOREAN HAIR CRAB WERE TAKEN (CONTINUED)

								NUMBER PER SQUARE MILE					
									MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C		DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
B08	6/10	55-21	163-25	Y34240	Z47431	27	.	119.0	0.0	0.0	0.0	119.0	0.0
C08	6/10	55-40	163-24	Y34171	Z47431	43	2.5	0.0	0.0	167.0	83.0	250.0	33.2
D09	6/10	56-00	162-49	Y33999	Z47208	45	2.3	0.0	0.0	0.0	81.0	81.0	100.0
D10	6/10	56-00	162-14	Y33912	Z46979	38	2.8	0.0	0.0	123.0	0.0	123.0	0.0
E10	6/10	56-20	162-11	Y33817	Z46958	41	2.3	0.0	0.0	0.0	87.0	87.0	100.0
E11	6/07	56-20	161-34	Y33721	Z46712	36	2.6	0.0	0.0	160.0	0.0	160.0	0.0
F07	8/06	56-29	164-19	Y34124	Z47805	46	1.7	0.0	0.0	0.0	81.0	81.0	100.0
F08	8/04	56-39	163-23	Y33918	Z47432	43	2.2	0.0	0.0	0.0	81.0	81.0	100.0
F09	8/04	56-39	162-48	Y33823	Z47199	41	.	0.0	0.0	0.0	165.0	165.0	100.0
G09	6/09	57-00	162-47	Y33705	Z47183	34	1.3	0.0	0.0	0.0	81.0	81.0	100.0
G10	6/09	57-00	162-10	Y33611	Z46935	32	1.6	0.0	0.0	0.0	76.0	76.0	100.0
G14	6/05	56-59	159-44	Y33268	Z45957	29	2.8	0.0	88.0	0.0	0.0	88.0	0.0
G20	7/04	56-50	169-53	Y35102	Z49990	38	3.6	0.0	0.0	0.0	77.0	77.0	100.0
G20	7/04	57-01	169-32	Y35013	Z49895	33	2.6	436.0	218.0	0.0	436.0	1090.0	40.0
G21	7/07	56-59	170-10	X18689	Z50113	40	3.1	0.0	0.0	0.0	81.0	81.0	100.0
H01	6/21	57-20	167-44	Y34501	Z49159	42	.5	0.0	0.0	0.0	80.0	80.0	100.0
H19	7/02	57-19	169-00	Y34782	Z49664	40	1.6	0.0	0.0	0.0	826.0	826.0	100.0
H20	7/03	57-11	169-53	Y35040	Z50033	25	4.0	88.0	88.0	88.0	526.0	790.0	66.6
H20	7/03	57-20	169-37	Y34900	Z49897	33	1.2	0.0	0.0	0.0	79.0	79.0	100.0
H21	7/07	57-07	170-30	X18647	Y35105	33	3.6	323.0	161.0	403.0	1532.0	2420.0	63.3
H21	7/06	57-20	170-14	Y34994	Z50095	31	3.3	0.0	0.0	0.0	246.0	246.0	100.0
I01	6/21	57-39	167-43	Y34359	Z49116	40	1.0	0.0	0.0	0.0	427.0	427.0	100.0
I08	6/14	57-39	163-22	Y33565	Z47397	24	1.9	0.0	0.0	0.0	81.0	81.0	100.0
I18	6/29	57-39	168-23	Y34481	Z49365	38	1.0	0.0	0.0	0.0	78.0	78.0	100.0
J05	6/16	58-01	165-15	Y33724	Z48111	29	1.8	0.0	0.0	0.0	83.0	83.0	100.0
J18	6/29	57-49	168-43	Y34452	Z49453	38	.9	0.0	0.0	0.0	77.0	77.0	100.0
J18	6/29	57-59	168-26	Y34303	Z49311	37	.8	0.0	0.0	82.0	0.0	82.0	0.0
J19	7/02	57-49	169-21	Y34558	Z49668	37	.8	0.0	0.0	0.0	78.0	78.0	100.0
J20	7/03	57-50	169-58	Y34616	Z49833	39	1.0	81.0	0.0	0.0	0.0	81.0	0.0
K02	6/28	58-20	167-10	Y33883	Z48779	28	1.5	157.0	0.0	0.0	79.0	236.0	33.5
K03	6/28	58-18	166-33	Y33796	Z48563	27	2.5	0.0	81.0	81.0	161.0	323.0	49.8
K06	6/15	58-20	164-37	Y33465	Z47832	23	2.2	0.0	0.0	0.0	76.0	76.0	100.0
K19	7/03	58-18	169-07	Y34193	Z49430	39	.3	0.0	0.0	0.0	156.0	156.0	100.0
L01	6/30	58-41	167-52	Y33777	Z48933	26	2.3	0.0	81.0	0.0	0.0	81.0	0.0
L02	6/28	58-40	167-13	Y33689	Z48724	23	2.6	0.0	82.0	0.0	82.0	164.0	50.0
L18	6/30	58-39	168-30	Y33878	Z49138	28	1.8	88.0	0.0	0.0	88.0	176.0	50.0
M18	6/30	59-01	168-33	Y33628	Z49039	24	2.2	0.0	155.0	310.0	0.0	465.0	0.0
M19	7/03	58-58	169-11	Y33726	Z49221	31	1.7	0.0	78.0	0.0	0.0	78.0	0.0
N18	6/30	59-19	168-34	Y33419	Z48952	22	1.7	0.0	0.0	74.0	74.0	147.0	50.3
N27	7/17	59-19	174-26	X17242	Y33471	68	1.1	81.0	0.0	0.0	0.0	81.0	0.0
O18	6/30	59-39	168-37	Y33183	Z48860	20	2.0	0.0	78.0	78.0	0.0	156.0	0.0
O19	7/03	59-39	169-16	Y33241	Z49018	27	.0	81.0	0.0	0.0	81.0	162.0	50.0
P18	6/30	59-59	168-38	Y32944	Z48767	20	2.2	0.0	0.0	156.0	0.0	156.0	0.0
Q18	7/01	60-19	168-38	Y32702	Z48671	19	3.2	79.0	0.0	0.0	0.0	79.0	0.0

NOTE: PRE-RECRUIT = 3.0-3.5 IN. WIDTH; LARGE = GREATER THAN 3.5 IN. WIDTH