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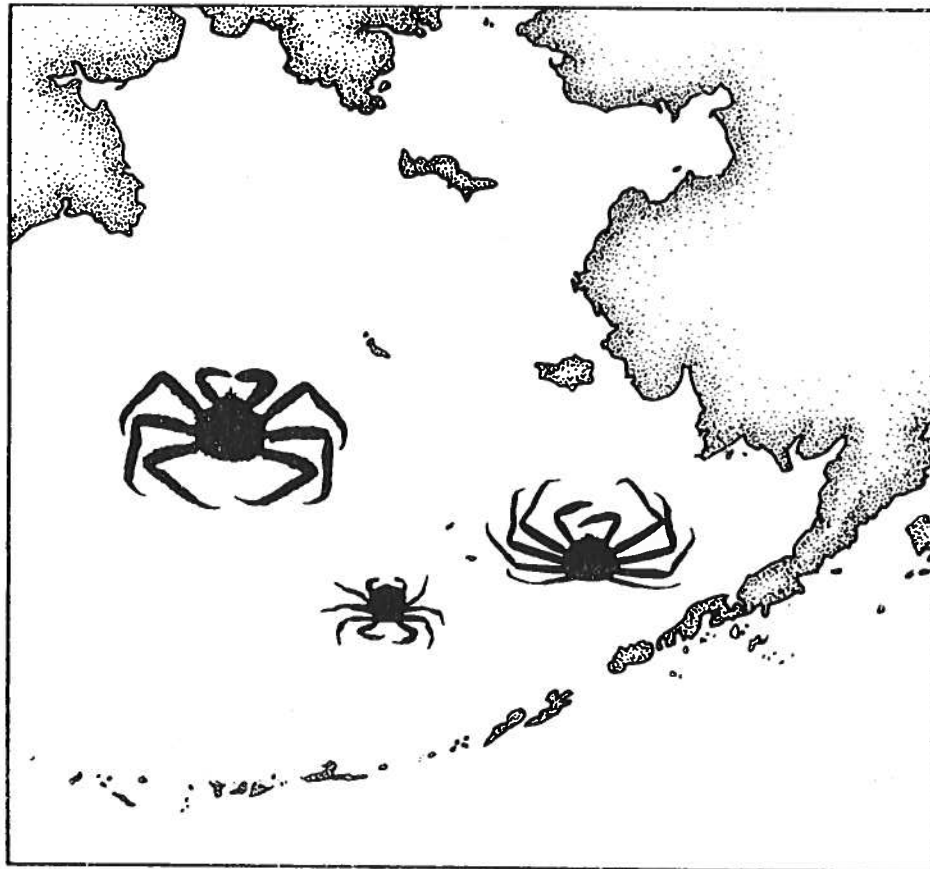
**National Marine  
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U S DEPARTMENT OF COMMERCE

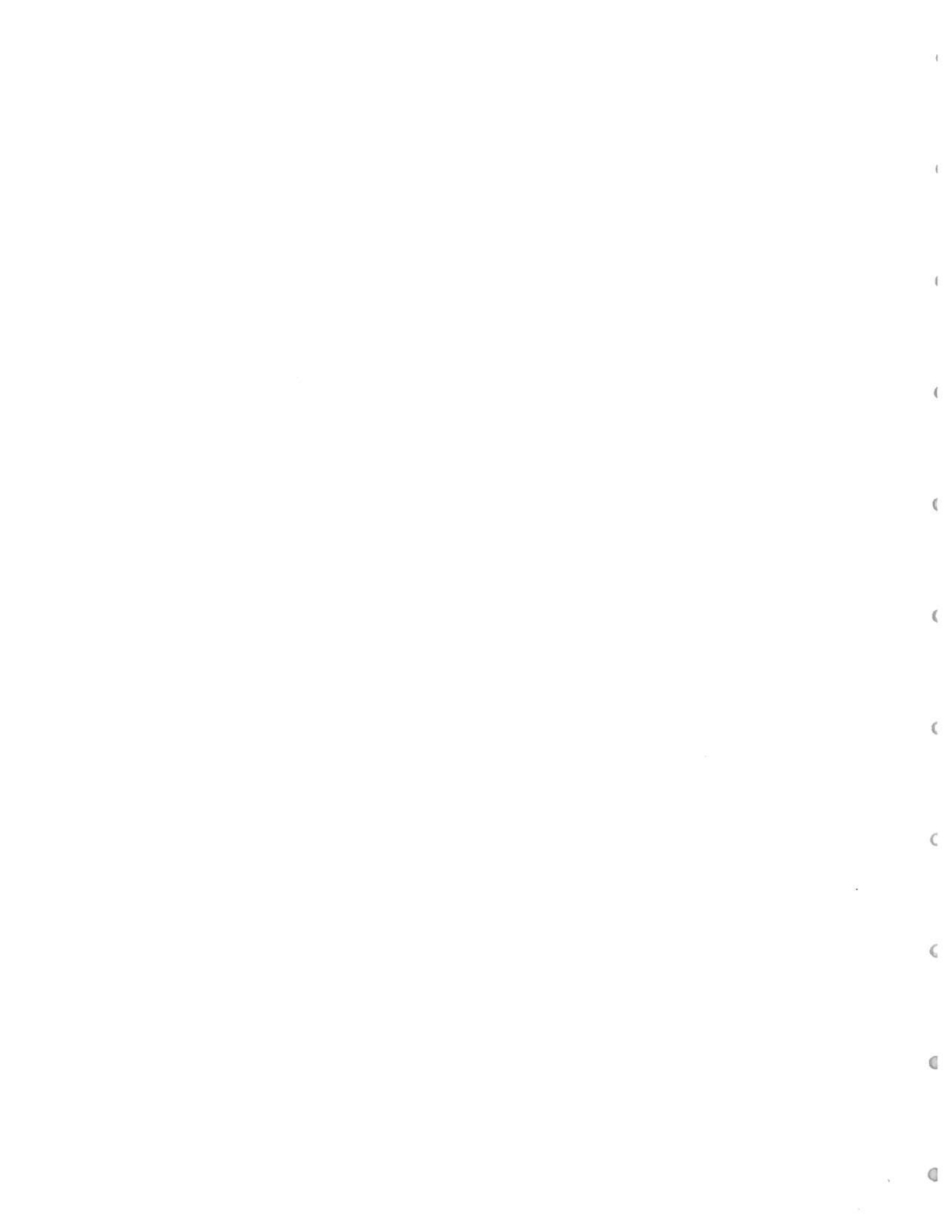
## **NWAFRC PROCESSED REPORT 82-13**

### **REPORT TO INDUSTRY ON THE 1982 EASTERN BERING SEA CRAB SURVEY**

**OCTOBER 1982**



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Northwest and Alaska Fisheries Center Processed Report 82-13

Report to Industry on the

1982

Eastern Bering Sea

Crab Survey

by

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## The 1982 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 is also used as part of the basis for management decisions. Red king crab (Paralithodes camtschatica), blue king crab (P. platypus), Korean hair crab (Erimacrus isenbeckii), and two species of tanner crabs (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 Montlake Laboratory (2725 Montlake Blvd. East, Seattle, Washington 98122).

### Survey Area and Methods

Areas covered by the 1981 and 1982 surveys are similar (Figure 1). This year's survey, however, included more of the area south of Nunivak Island to allow for a northerly shift in the distribution of red king crab, and also included some additional stations northwest of St. Matthew Island. Eleven stations at the extreme western portion of the 1981 area were missed due to loss of fishing gear. The survey was conducted by the NOAA R/V Chapman and the F/V Pat San Marie from May 29 to August 1. The two vessels successfully completed 349 tows and surveyed an area of 133,200 square nautical miles.

Both vessels fished an eastern otter trawl with an 83 foot headrope and a 112 foot footrope. Measured wing spread on this trawl ranged from 47 - 58 feet as compared to an average of 45 feet for the 400 eastern used in previous years. 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. In most cases all male 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.

Population estimates (Tables 1-3) were derived from the trawl data using the "area-swept" technique. First, the density of crabs at each trawl station was computed. Population estimates were then 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 as the number of crab caught per mile towed (rounded to whole numbers on charts). Charts are based on 20 by 20 nautical mile squares. In cases where more than one tow was made in a square, the average number of crab caught per mile towed is presented. It is advisable to cross-reference charts and Tables

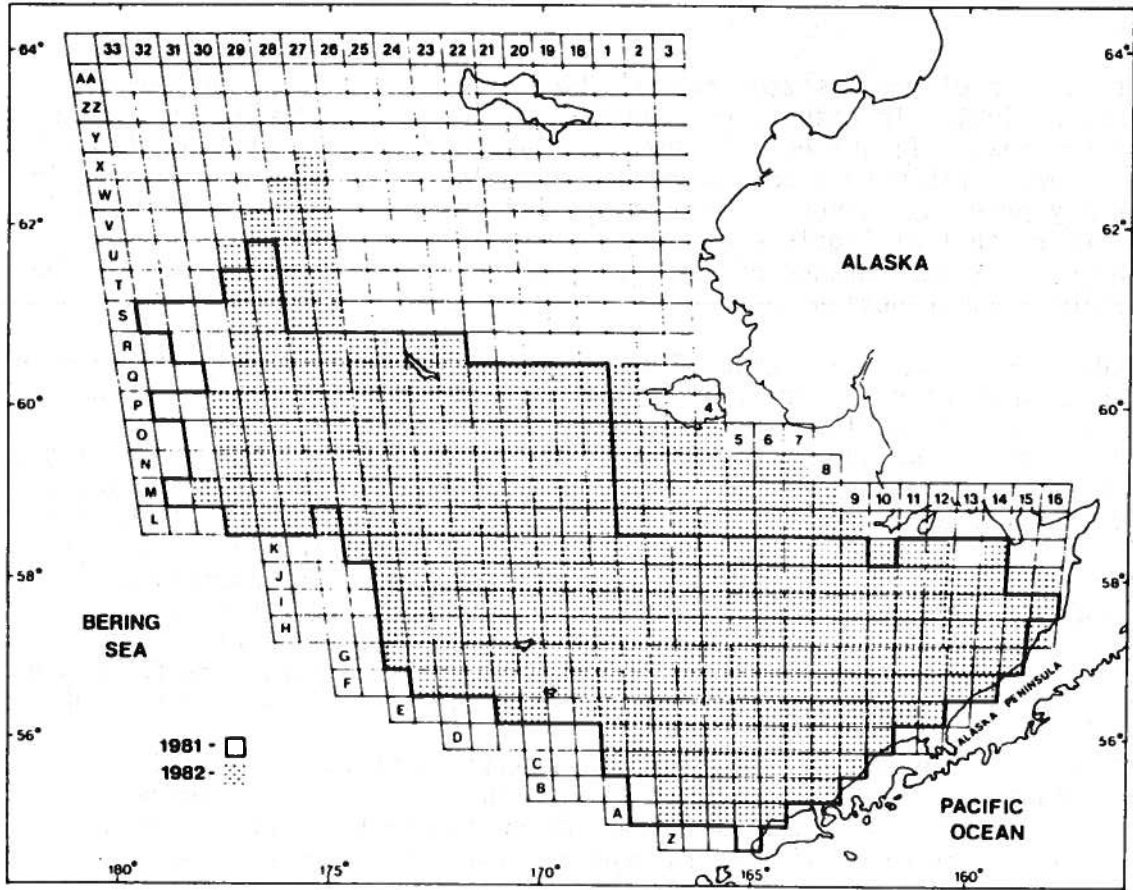


Figure 1. -- NMFS eastern Bering Sea crab survey areas in 1981 and 1982.

(4-8) 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 Crabs

### Red King Crab

The distribution of legal-sized crab in 1982 (Table 4, Chart 1) was very similar to that of 1981. In both years, the highest concentrations of legal crab were found north (rows H-I) and east (columns 9-11) of their usual grounds (rows E-G, columns 6-9). Fewer crab were found in waters off False Pass and Amak Island than were found in any previous survey. The distribution of pre-recruit crab (Chart 2) very nearly mirrors that of legal crabs except that they are more abundant. Chart 3 shows that the highest percentages of legal crab were taken along the seaward edge of the population's distribution in areas where legal crab were sparsely distributed.

The abundance of legal-sized crab (Table 1) was at an all time high in 1978 and 1979 and has declined rapidly since 1980. A record catch of 130.0 million pounds from Bristol Bay in 1980 was followed by a catch of 33.6 million pounds in 1981. The 1982 estimate of 4.4 million legal crab (including 0.2 million in the Pribilofs) is about 40% of what was estimated in 1981. While a decline of 1-2 million legal crab was expected, survey results indicate that a decline of about 6 million crab occurred. The population of legal crab is the lowest recorded in the history of the survey and the 1982 catch will probably be similarly low. The abundance of pre-recruit crab has declined each year from 1978 onward but did not decline appreciably over the past year. Crab in the pre-recruit size class will be entering the fishery over the next one to two years. More detailed size-frequency data indicate that most of the pre-recruits will not enter the fishery until 1984.

The abundance of legal-sized crab per square mile is plotted by 0.5°C temperature increments for the years 1979-1982 in Figure 2. Although there are peaks in catch rates associated with some narrow temperature range in each year, there is no narrow range of temperatures consistently associated with high catch rates. This year, highest average concentrations were observed at the extremes of temperatures where red king crab were encountered.

Figure 3 shows the relationship between catch rates in the fishery and estimates of abundance derived from annual trawl surveys. In general, the curved line tends to fit the data better than the straight one. Catch rates in 1981, however, were lower than expected. Due to the sparse distribution and low abundance of legal-sized crab in 1982, we expect the catch rate to be five or less crab per pot.

### Blue King Crab

This species is found in significant concentrations in the vicinity of the Pribilof Islands and St. Matthew Island (Charts 4, 5, and 6, Table 5). In the Pribilof area, distribution of legal-sized crab (Chart 4) was very similar to that of last year. Most crab were found north and east of the islands. The distribution of pre-recruits (Chart 5) was also about the same as in 1981, and in both years was similar to that of legal-sized males. In the St. Matthew Island



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

Bristol Bay and Pribilof Red King Crabs		
Year	Pre-recruits <u>1/</u>	Legals <u>1/</u>
1969	19.5	9.8
1970 <u>2/</u>	8.4	5.3
1972	8.3	5.4
1973	25.9	10.9
1974	31.2	20.8
1975	29.6	21.2
1976	49.3	32.7
1977	63.9	37.6
1978	52.5	46.6
1979	38.8	45.5
1980	23.9	36.1
1981	18.9	10.8
1982 <u>3/</u>	17.1	4.4

Table 1. -- (CONTINUED)

## Pribilof Blue King Crabs

Year	Pre-recruits <u>1/</u>	Legals <u>1/</u>
1974	3.1	1.9
1975	8.0	7.5
1976	2.1	3.9
1977	2.2	9.4
1978	5.6	4.3
1979	1.5	4.6
1980	1.4	4.2
1981	1.4	4.1
1982 <u>3/</u>	0.7	2.2

## Saint Matthew Blue King Crabs

Year	Pre-recruits <u>4/</u>	Legals <u>4/</u>
1978	3.3	1.9
1979	3.0	2.1
1980	3.0	2.5
1981	2.2	3.1
1982 <u>3/</u>	3.3	6.8

1/ The size groups 5.2" - 6.4" and  $\geq$  6.5 have been used for pre-recruits and legals.

2/ Limited survey in 1971, not used for population estimates.

3/ Preliminary estimate subject to change upon further analysis.

4/ The size groups 4.3" - 5.4" and  $\geq$  5.5" have been used for pre-recruits and legals respectively.

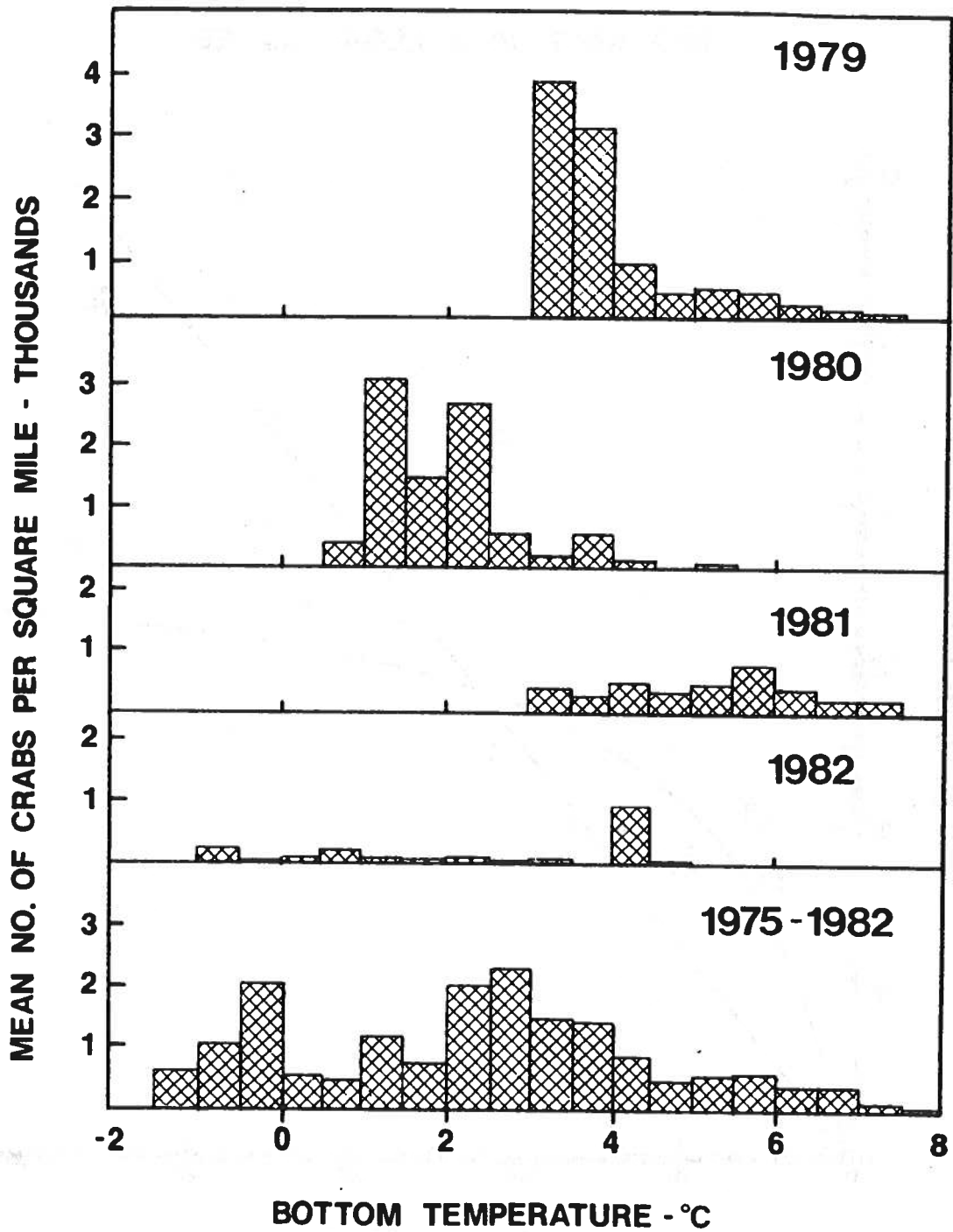


Figure 2. -- Average number of legal-sized male red king crab (*Paralithodes camtschatica*) per square mile found at various bottom temperatures in the 1975-1982 NMFS Bering Sea surveys. Data are summarized in 0.5 degree intervals.

### RED KING CRAB LEGAL MALES

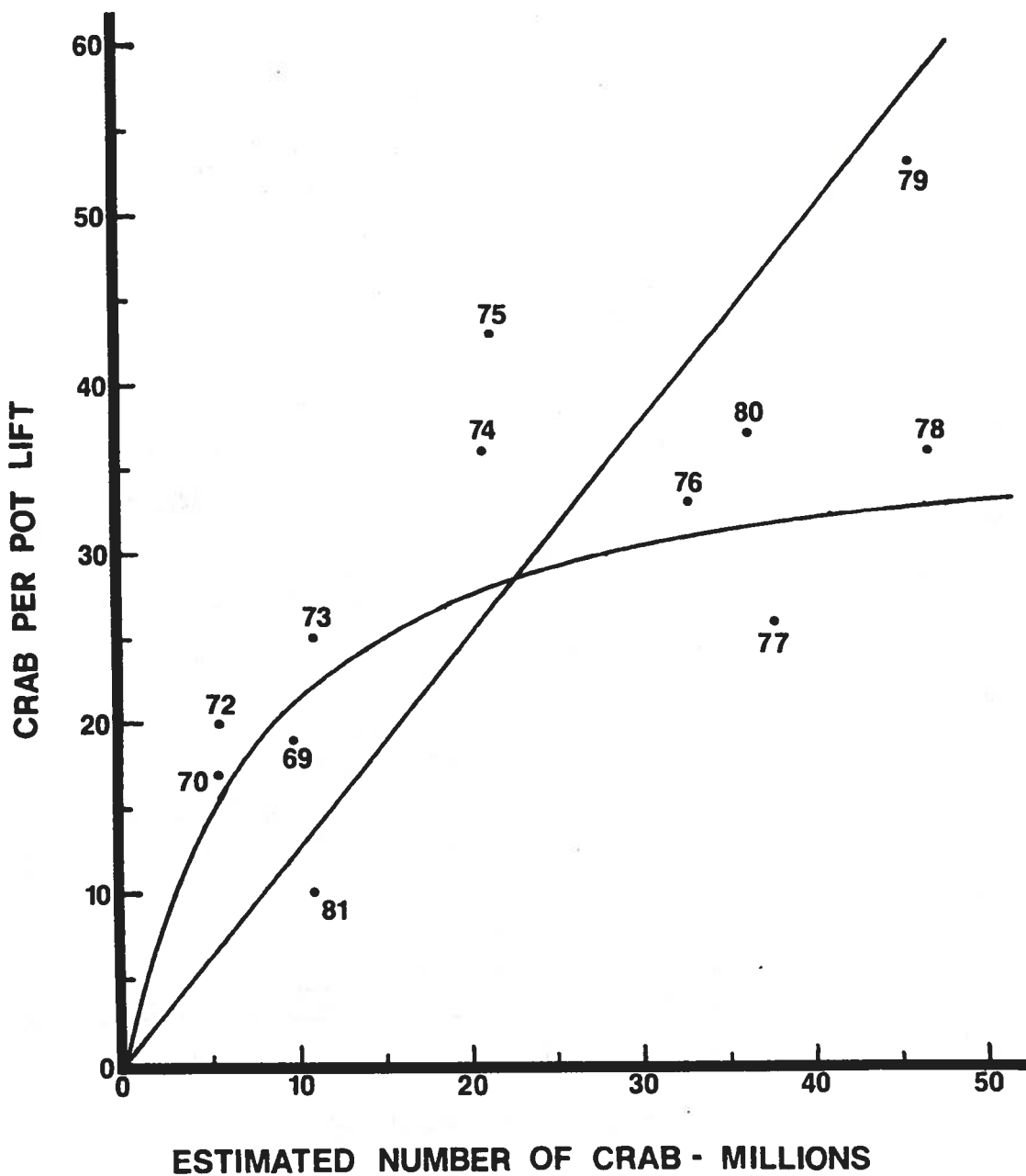


Figure 3. -- Relationship between the season average number of Red King Crab (*Paralithodes camtschatica*) taken per pot in the U.S. Fishery and estimates of stock size from NMFS trawl surveys in the preceding summer.

area, legal as well as pre-recruit crab were found further south and west of the island than they were last year. In both areas, the percentage of legal crab at each station (Chart 6) 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 has declined about 50% in 1982. The abundance of pre-recruit crab has also declined by about 50%. The commercial fishery produced 9 million pounds in 1981 and about 6 million pounds (preliminary) in 1982. While there is not a clear relationship between the abundance of pre-recruits and later abundance of legal, declines in the abundance of both size groups probably indicate low abundance of legal crab in 1983.

Estimated abundance of legal-sized crab in the St. Matthew Island district more than doubled over the past year. The commercial catch increased from 4.6 million pounds in 1981 to approximately 9.0 million pounds in 1982. The abundance of pre-recruit crab also increased slightly. Since the 1982 catch was about 2.0 million crab, there should be a substantial carry-over of legal crab as well as above average recruitment. By consequence, the abundance of legal-sized crab is expected to remain high into 1983.

It is interesting to note that every annual survey has shown a well defined geographic separation of the Pribilof and St. Matthew Island populations. There is probably little, if any, migration between the two areas.

#### Distribution and Abundance of Tanner Crabs

##### C. bairdi

The distribution of legal-sized C. bairdi is similar to that of last year (Chart 7, Table 6). Areas surrounding the Pribilof Islands, and north of the Alaska Peninsula from False Pass to Port Heiden, had relatively high concentrations of crab. A small area of high abundance was also found northwest of Unimak Island. The distribution of pre-recruit crab more or less mirrors that of legal except that high concentrations of pre-recruits are also found along the shelf edge (Chart 8). Percentages of legal crab were highest in the area north and northwest of Port Heiden (Chart 9).

The abundance of legal-sized crab is down by about 30% relative to last year (Table 2). Landings fell from 30 million pounds in 1981 to 11 million pounds this year. The abundance of pre-recruits, however, is almost twice that of last year. Populations of legal-sized C. bairdi have been declining since 1975. While fishing will likely remain poor in 1983, it appears that the abundance of legal-sized crab will be increasing over the next several years.

The relationship between the average number of legal bairdi tanner crab per square mile and bottom temperature during the past four years is shown in Figure 4. The lower temperatures at which C. bairdi were found this year simply reflect lower temperatures in the habitat area. As with other eastern Bering Sea crab species, there does not appear to be a narrow temperature range in which the highest catch rates consistently occur.

Figure 5 shows the relationship between catch rates in the fishery and estimates of abundance from the survey in the preceding summer. Both lines fit the data fairly well and 1983 catch rates will probably be less than 10 crab per pot.

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

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Bristol Bay and Pribilof C. bairdi

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Year	Pre-recruits <u>1/</u>	Legals <u>1/</u>
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 <u>2/</u>	46.9	10.1

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Bristol Bay and Pribilof C. opilio

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Year	Pre-recruits <u>3/</u>	Large <u>3/</u>
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
1979	146.3	106.3
1980	99.1	53.6
1981	62.7	15.7
1982 <u>2/</u>	63.8	10.8

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Table 2. -- (CONTINUED)

## Bristol Bay and Pribilof Hybrid Tanner Crab

Year	Pre-recruits <u>3/</u>	Large <u>3/</u>
1975	13.2	33.8
1976	4.0	16.5
1977	9.6	15.4
1978	2.0	5.6
1979	3.0	5.1
1980	0.8	1.7
1981	0.5	0.8
1982 <u>2/</u>	0.6	0.5

Northern District C. opilio

Year	Pre-recruits <u>3/</u>	Large <u>3/</u>
1978	8.2	10.5
1979	20.8	6.6
1980	30.4	4.2
1981	17.1	6.5
1982 <u>2/</u>	70.4	10.9

1/ A legal size limit of 5.5 inches carapace width was imposed in 1976, prior to this greater than 5.0 inches was used in the "Legal" column. In parallel, pre-recruit was 3.3 - 5.0 inches prior to 1976 and 4.3 to 5.5 since.

2/ Preliminary estimate subject to change upon further analysis.

3/ Large is greater than 4.3 inches as this has been the size of interest to U.S. industry; pre-recruit is 3.7 to 4.3 inches.

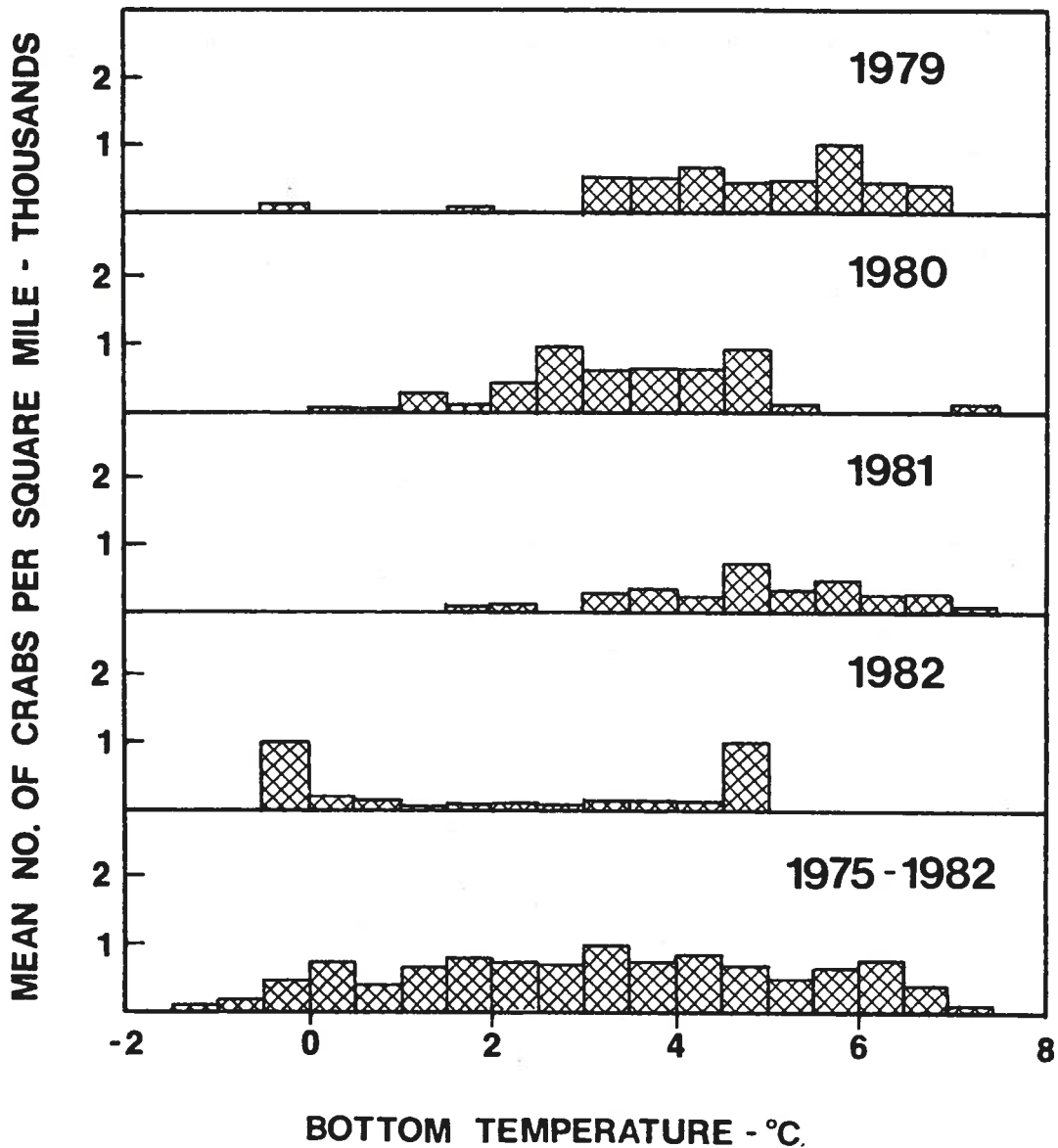


Figure 4. -- Average number of legal-sized male Tanner crab (*Chionoecetes bairdi*) per square mile found at various bottom temperatures in the 1975-1982 NMFS Bering Sea surveys. Data are summarized in 0.5 degree intervals.



# BAIRDI TANNER CRAB LEGAL MALES

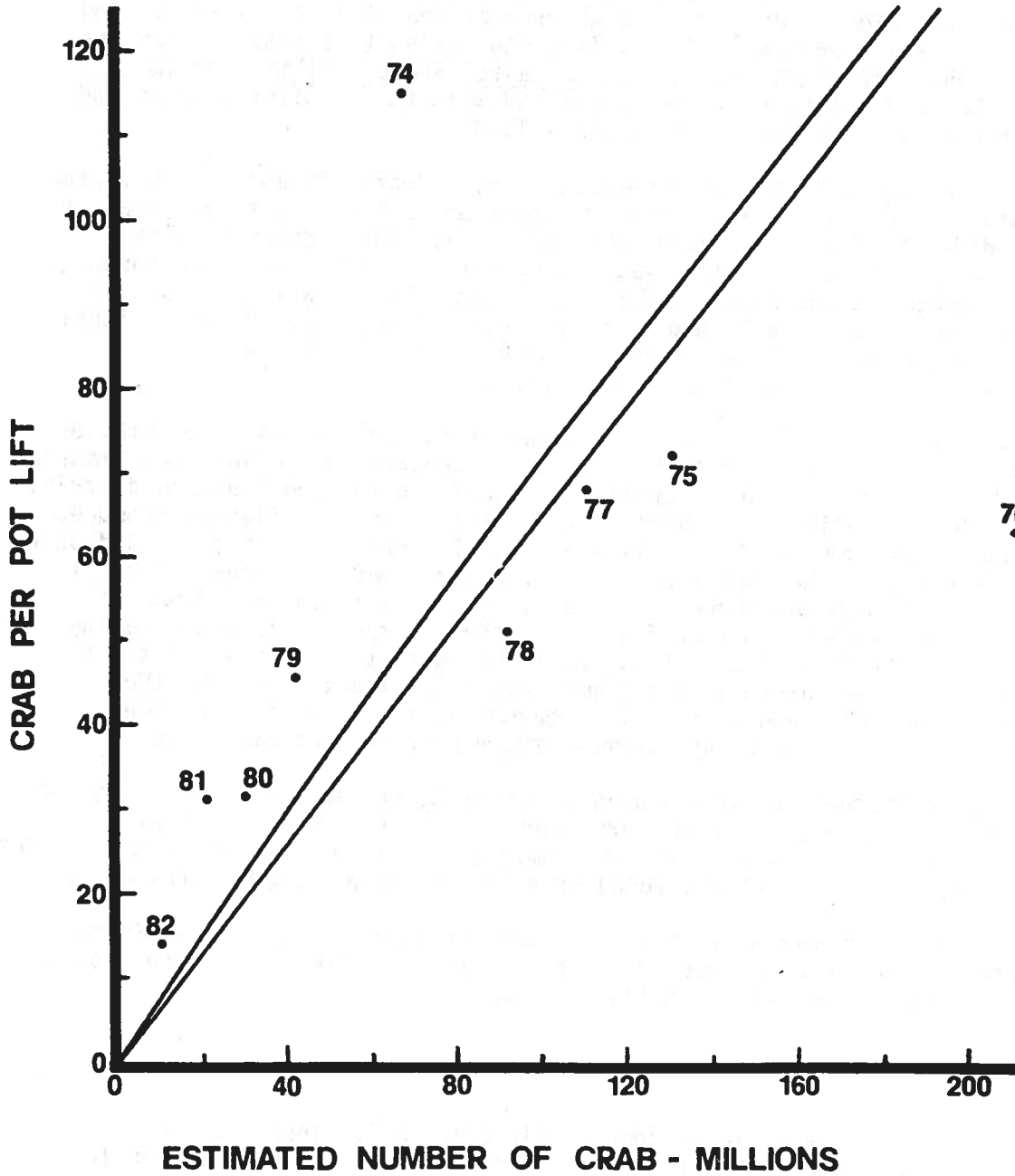


Figure 5. -- Relationship between the season average number of Tanner crab (*Chionoecetes bairdi*) taken per pot in the U.S. Fishery and estimates of stock size from NMFS trawl surveys in the preceding summer.

## Opilio and Hybrid Tanner Crab

Data for C. opilio and hybrid tanner crab are combined in this report because the number of hybrids encountered is small and most of the commercial catch of hybrids is landed as C. opilio. Until 1982 there were no size limits for either group, but almost all of the commercial catch of both groups is larger than 4.3 inches (110 mm). A size limit of 3.1 inches was established in June but the size of landed crab did not decrease. Crab greater than 4.3 inches are called "large" in Charts 10-12 and Table 7. It is worth noting that most hybrids are found in zones where the distributions of C. bairdi and C. opilio overlap. Highest concentrations of hybrids are associated with the Pribilof Islands and areas along the shelf edge northwest of the islands.

The distribution of large and pre-recruit crab (Charts 10 and 11) is markedly different than that of 1981. Most notably, there are relatively fewer crab in areas surrounding the Pribilof Islands and relatively higher concentrations in the area north of 58°. A large area of high concentrations was also found 100-120 miles south and southwest of Nunivak Island. Very few large crab were found in areas that have been fished over the past 3-4 seasons. Distributional changes in the abundance of large crab will necessitate a change in fishing areas, particularly with respect to fishing north of 58°.

While the abundance of large crab declined in the Bristol Bay and Pribilof districts, this decline was offset by increased abundance in the Northern District (Table 2). The abundance of pre-recruits was stable in the two southern districts but increased dramatically in the Northern District. The 1982 fishery produced 30 million pounds as compared to 50 million in 1981. While some fishing did occur (for the first time) in the Northern District, catches may have been higher if more effort had been applied there. An overall increase in the abundance of pre-recruits probably spells better fishing in the future. It is worth noting that the new legal size limit is 3.1 inches, while the current size at entry to the fishery is 4.3 inches. Future landings will hence be affected both by the abundance of "large" crab and by possible changes in the size at recruitment. Landing smaller crab would greatly increase the number of crab available.

The relationship between the average catch of C. opilio per square mile and bottom temperatures during the last four years (Figure 6) shows only that they can tolerate a fairly wide range of summer temperatures from about 0.0 - 7.0°C, and, in general, that they are not found very frequently at temperatures above 6°C.

The relationship between catch per pot and abundance (Figure 7) indicates that the 1983 catch rate should be about 20-30 crab per pot. This catch rate would, however, depend upon substantial shifts in fishing areas.

## Korean Hair Crab

During the 1982 survey, large Korean hair crab (> 3.5 inches carapace length, no legal size) were found in major concentrations to the east of the Pribilof Islands and in low numbers in a band that extends along the southern edge of Bristol Bay (Chart 13 and Table 8). Isolated individuals were found as far north as the St. Matthew area. Pre-recruit crab (Chart 14) were found in the same areas as large crab but in much lower abundance. In locations where hair crab were caught, large males made up the majority of the catch and, in fact, there were only a few stations where they did not (Chart 15). Large males were 100% of the catch in many areas however, in areas of high abundance they occurred with pre-recruits, small males, and females. We have never found very many female or small male crab during the survey and hence have little understanding of their distribution.

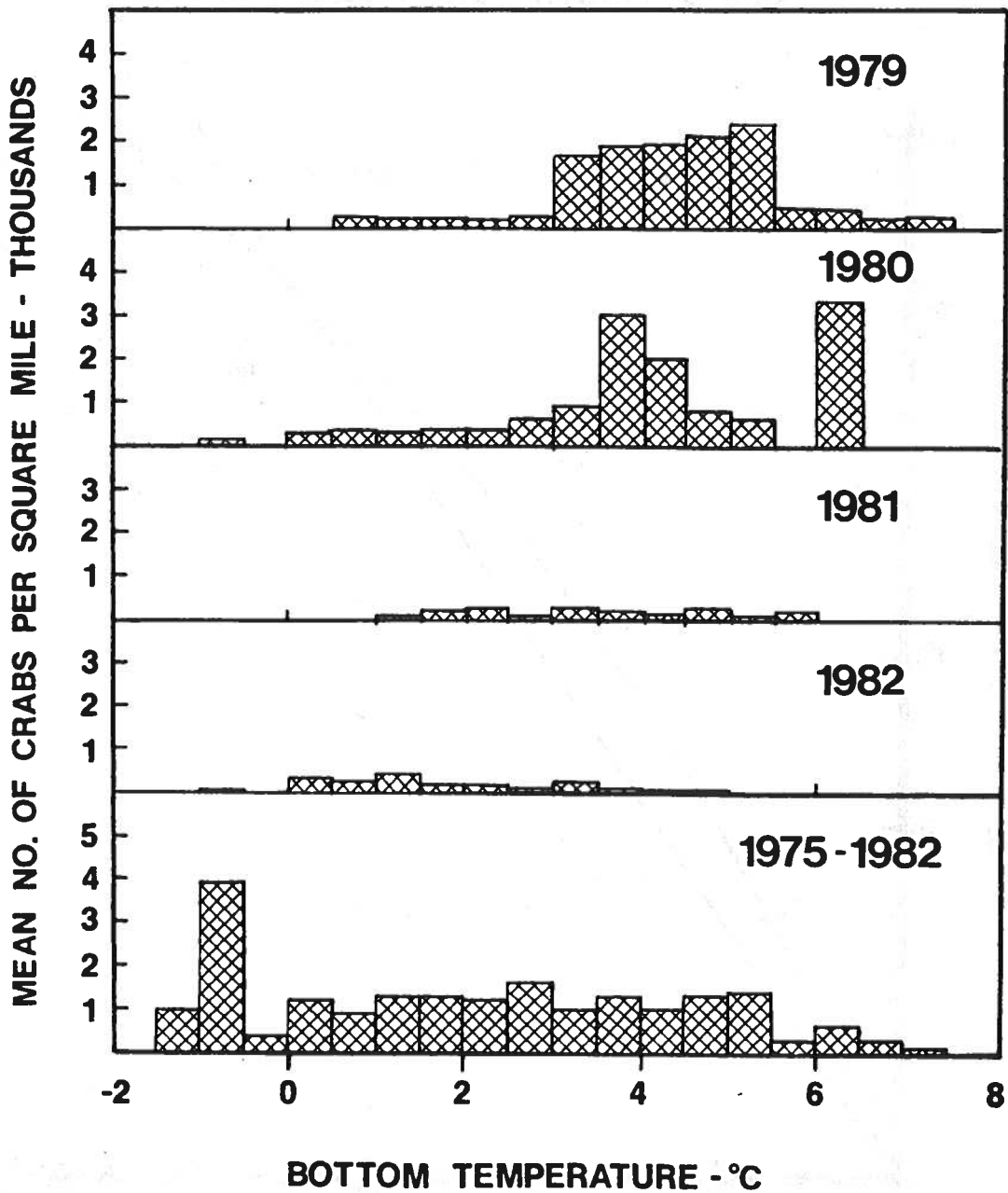


Figure 6. -- Average number of large-sized male Tanner crab (*Chionoecetes opilio*) per square mile found at various bottom temperatures in the 1975-1982 NMFS Bering Sea surveys. Data are summarized in 0.5 degree intervals.

# OPILIO TANNER CRAB LEGAL MALES

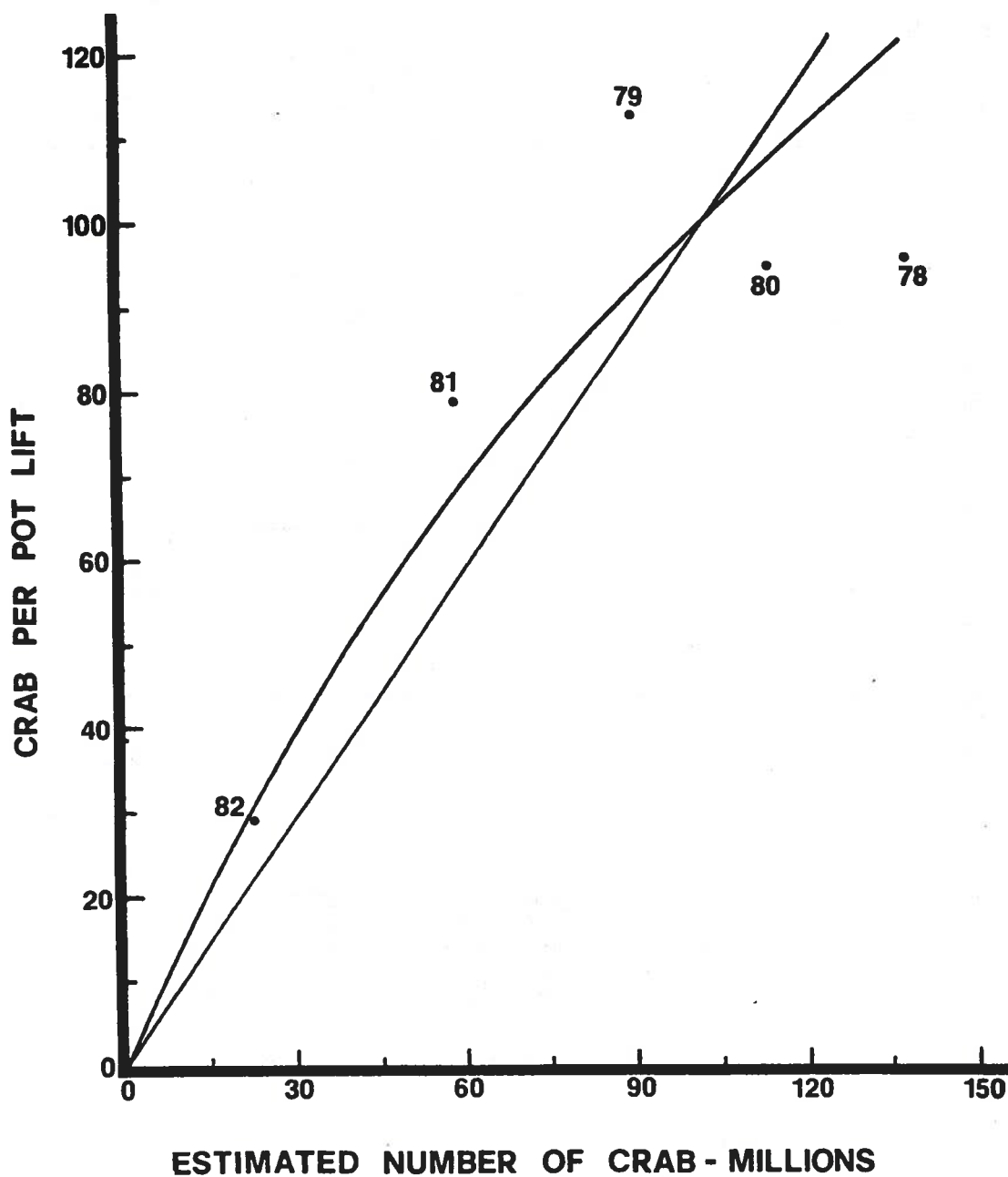


Figure 7. -- Relationship between the season average number of Tanner crab (*Chionoecetes opilio*) taken per pot in the U.S. Fishery and estimates of stock size from NMFS trawl surveys in the preceding summer.

In the past year, population estimates for the Korean hair crab decreased by 65% in the Pribilof District where more than 50% of the eastern Bering Sea population is located (Table 3). Populations in Bristol Bay also decreased while those in the Northern District have apparently increased slightly. Landings declined from 2.4 million pounds in 1981 to 0.4 million pounds in 1982. Reduced landings are, however, probably related more to market conditions than to abundance. Since less than 0.2 million hair crab were harvested in 1982, prospects for increased landings remain good.

Hair crab were found at temperatures between  $-1.0^{\circ}\text{C}$  and  $12.0^{\circ}\text{C}$  during the years 1979-1982, although most large males were caught in waters of  $3.0^{\circ}\text{C}$  -  $7.0^{\circ}\text{C}$  (Figure 8).

#### Bottom Temperatures

Bottom temperatures (Chart 16) were considerably colder in 1982 than they were in 1981. The average bottom temperature decreased from  $3.6^{\circ}\text{C}$  in 1981 to  $2.3^{\circ}\text{C}$  in 1982. Decreases were most notable in Bristol Bay where temperatures were frequently  $4-6^{\circ}\text{C}$  lower, and in some cases, almost  $10^{\circ}\text{C}$  lower, than last year. There was little change in the Pribilofs and in shelf-edge areas where temperatures are moderated by incursion of deep ocean water.

#### 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 Warren Taguchi (CHAPMAN), Bernie Hansen (PAT SAN MARIE), and their crews.

Table 3. -- Population estimates for eastern Bering Sea Korean hair crabs from NOAA/NMFS surveys (millions of crabs).

Pribilof District		
Year	Pre-recruits <u>1/</u>	Large
1979	2.9	8.4
1980	3.6	10.4
1981	4.3	13.0
1982 <u>2/</u>	0.8	5.3

Bristol Bay		
Year	Pre-recruits	Large
1979	1.2	6.3
1980	0.7	2.5
1981	0.4	2.7
1982 <u>2/</u>	0.3	1.9

Northern District		
Year	Pre-recruits	Large
1979	0.4	1.4
1980	0.8	0.8
1981	<0.1	0.2
1982 <u>2/</u>	<0.1	0.5

1/ Large is greater than 3.5 inches in width which is approximately the size at entry into the U.S. fishery; pre-recruit is 3.0 to 3.4 inches.

2/ Preliminary estimate subject to change upon further analysis.

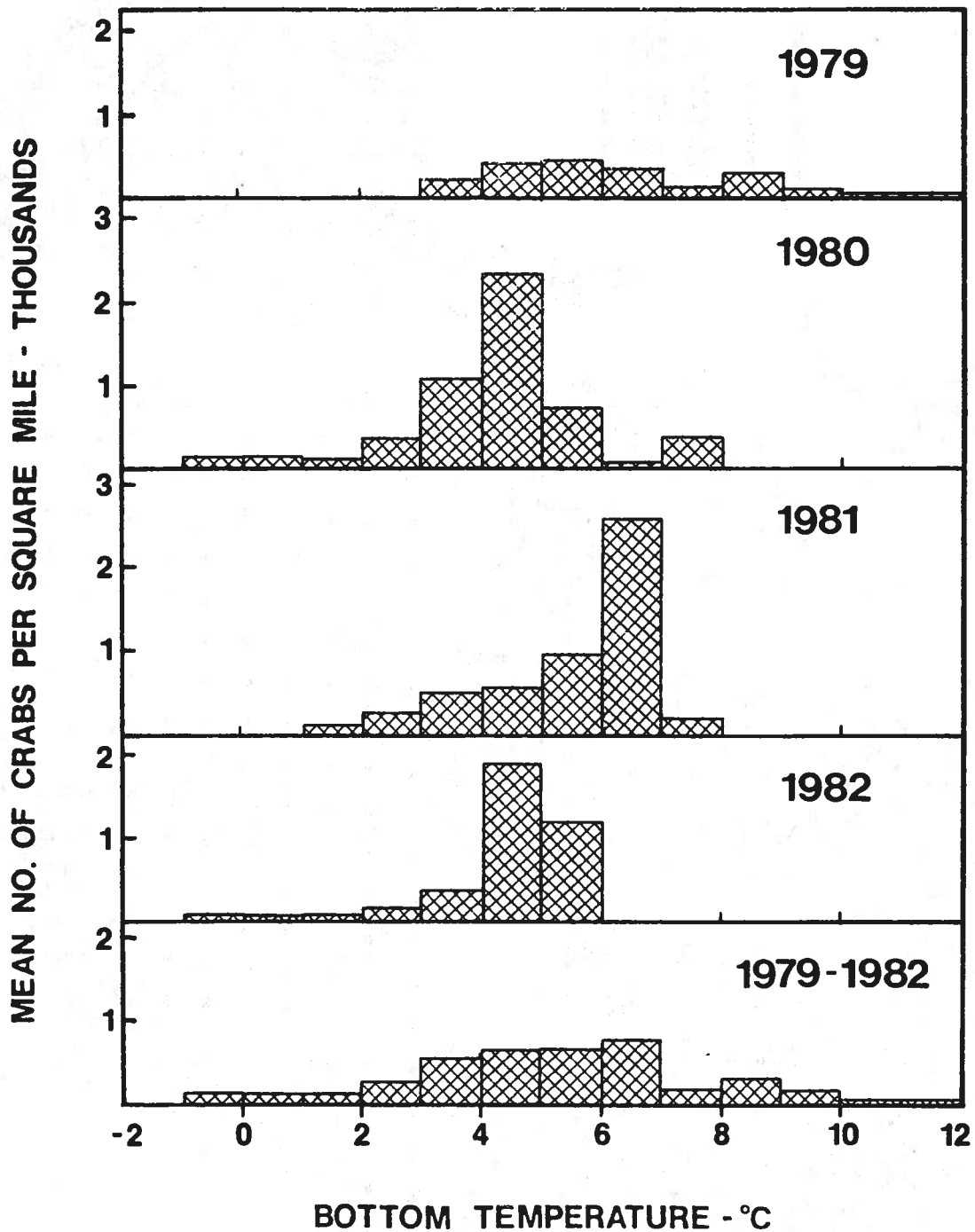
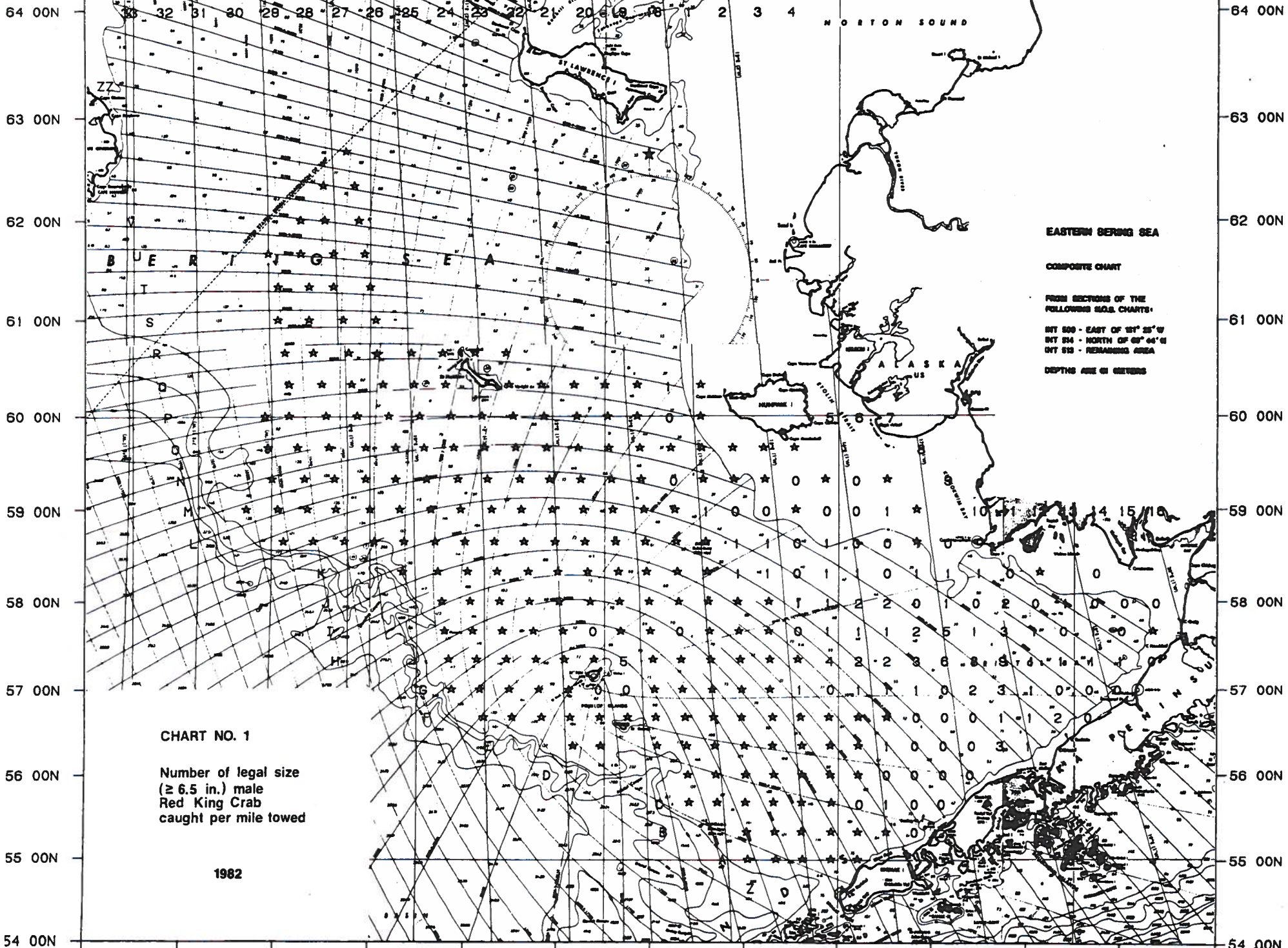


Figure 8. -- Average number of large-sized male Korean hair crab (*Erimacrus isenbeckii*) per square mile found at various bottom temperatures in the 1979-1982 NMF's Bering Sea surveys. Data are summarized in 1.0 degree intervals.



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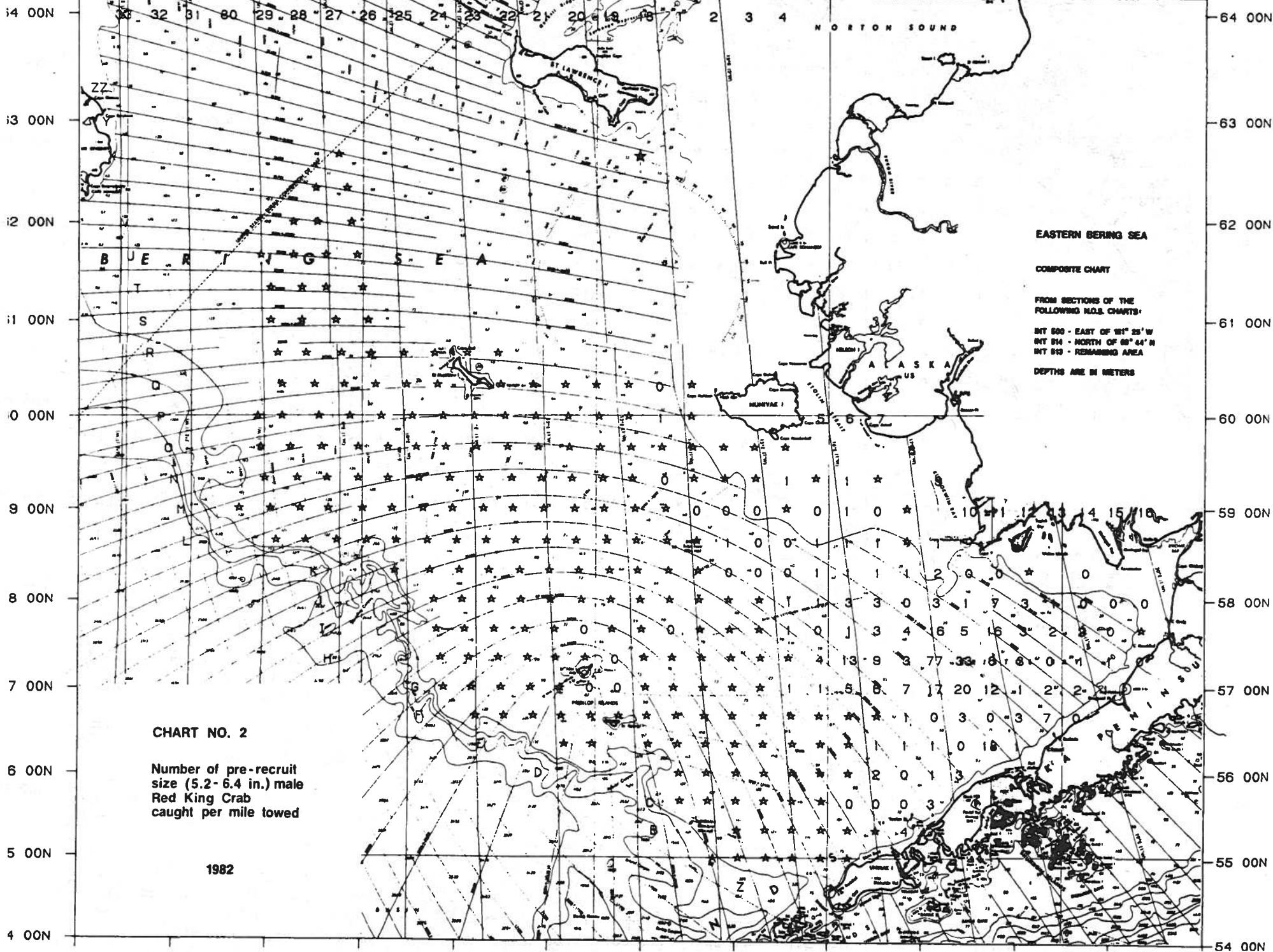
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179 00E 179 00W 177 00W 175 00W 173 00W 171 00W 169 00W 167 00W 165 00W 163 00W 161 00W 159 00W 157 00W



EASTERN BERING SEA

COMPOSITE CHART

FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:

INT 600 - EAST OF 151° 25' W  
INT 814 - NORTH OF 60° 44' N  
INT 810 - REMAINING AREA

DEPTHS ARE IN METERS

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Number of pre-recruit size (5.2-6.4 in.) male Red King Crab caught per mile towed

1982

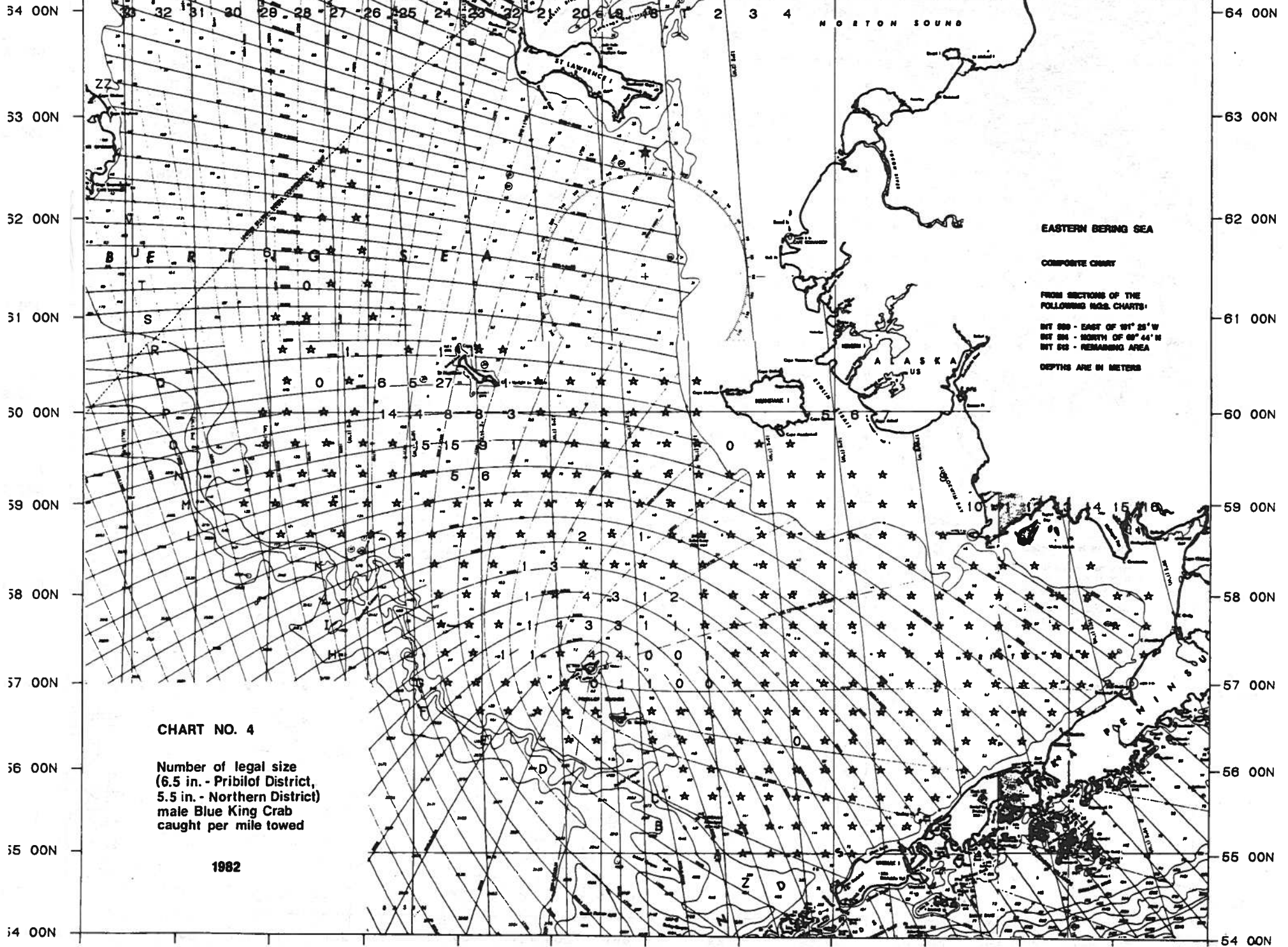
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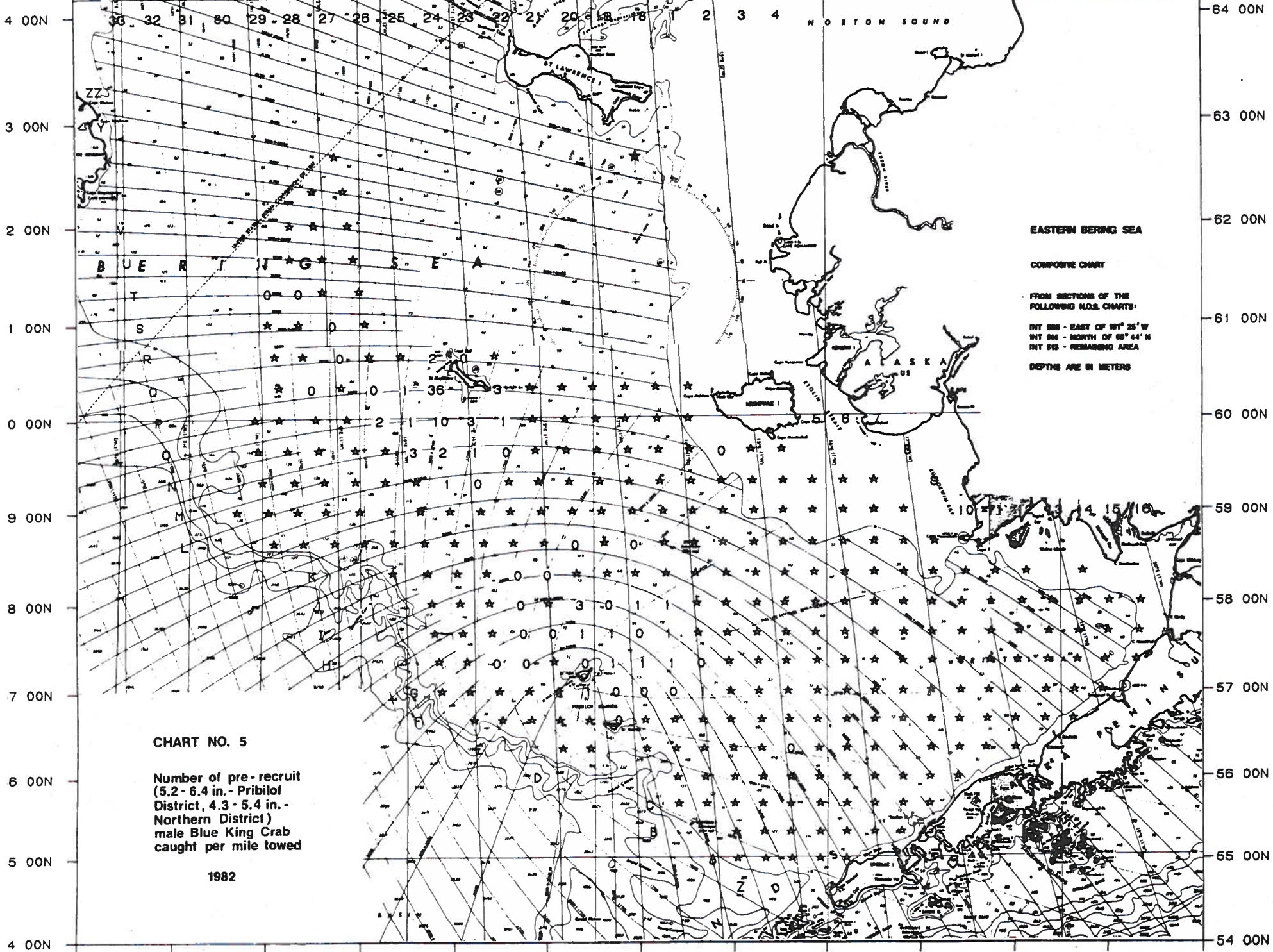




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79 00W 179 00W 177 00W 175 00W 173 00W 171 00W 169 00W 167 00W 165 00W 163 00W 161 00W 159 00W 157 00W



EASTERN BERING SEA

COMPOSITE CHART

FROM SECTIONS OF THE FOLLOWING U.S. CHARTS:

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- INT 594 - NORTH OF 60° 44' N
- INT 515 - REMAINING AREA

DEPTHS ARE IN METERS

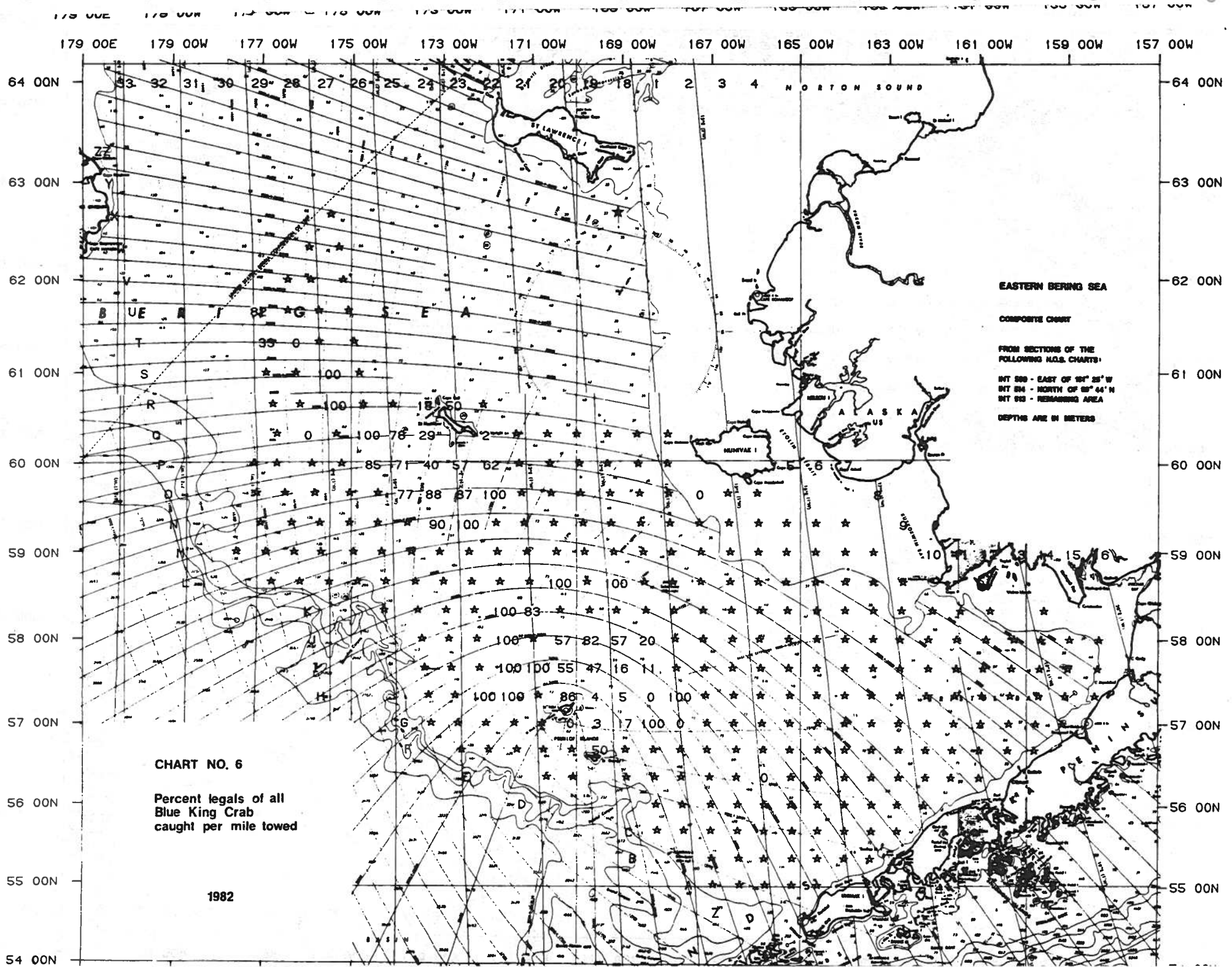
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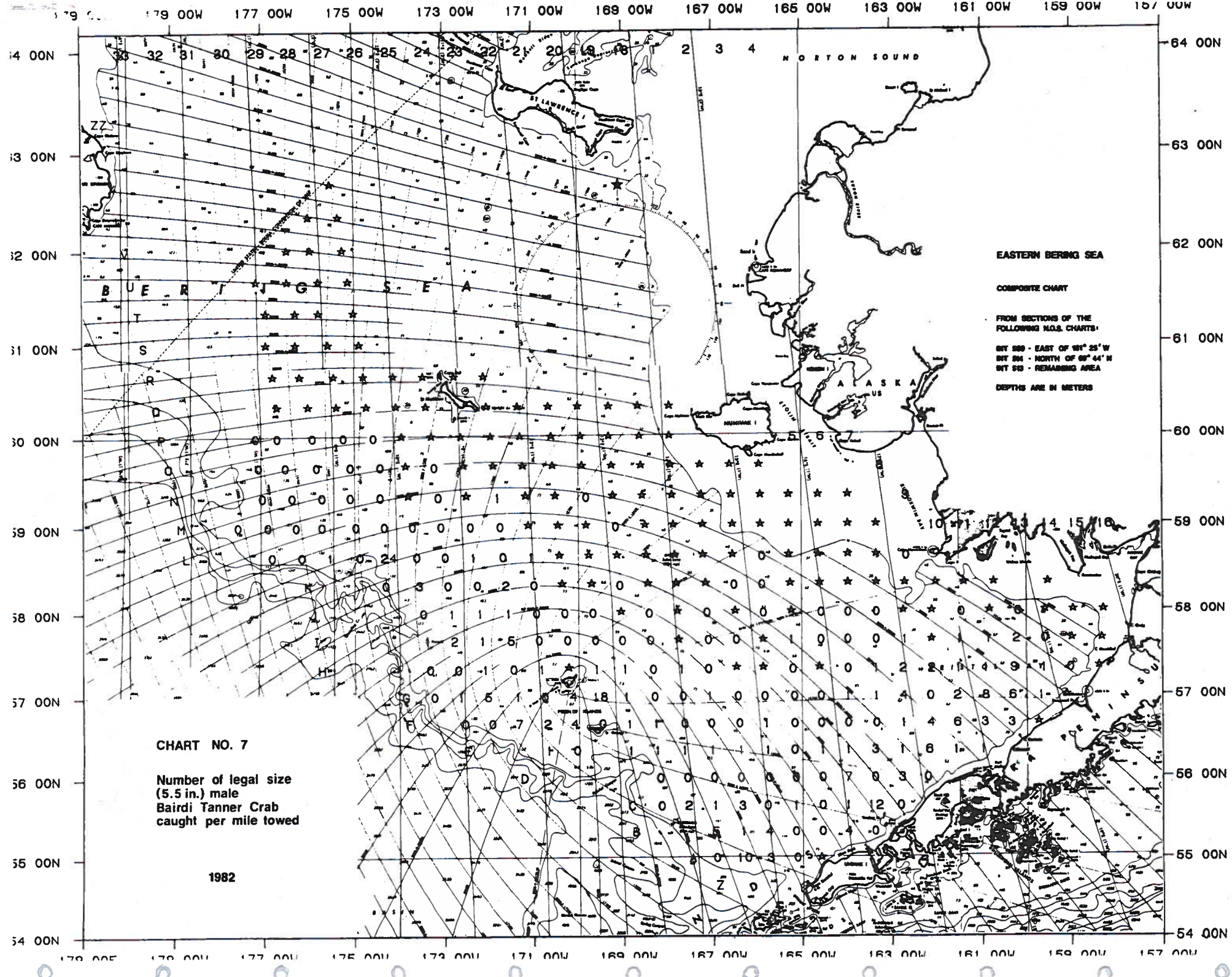
Number of pre-recruit  
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 District, 4.3 - 5.4 in. -  
 Northern District)  
 male Blue King Crab  
 caught per mile towed

1982

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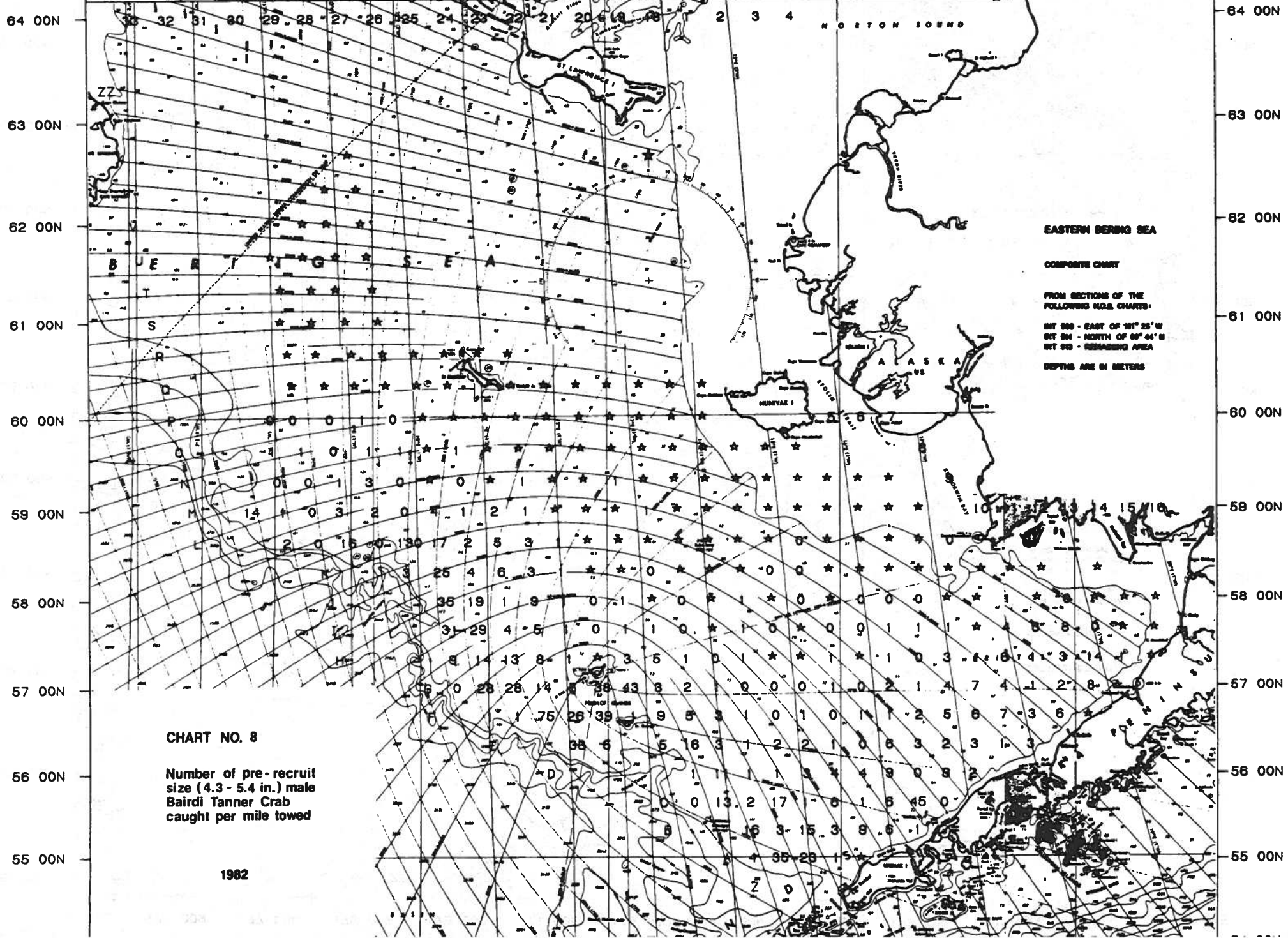


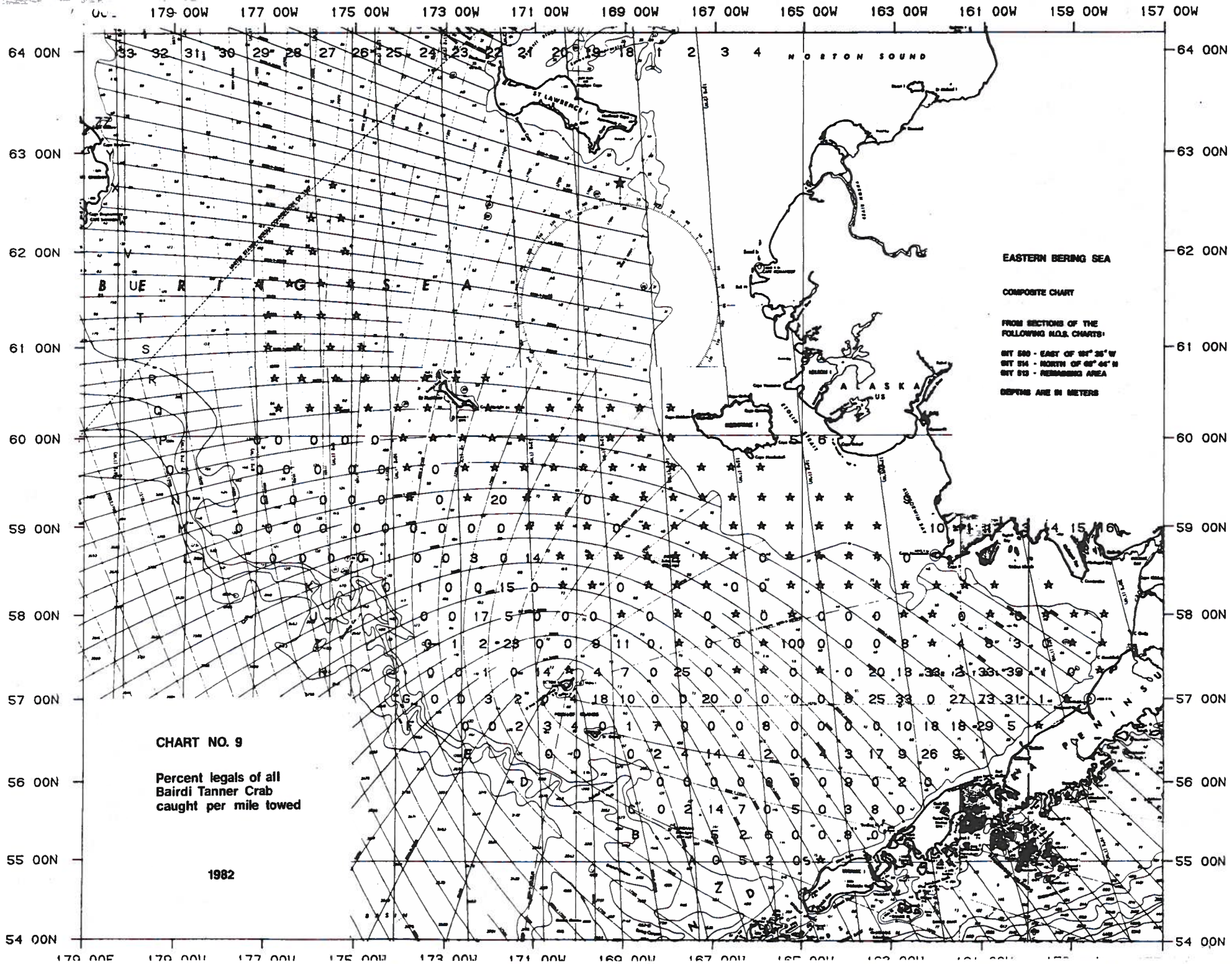






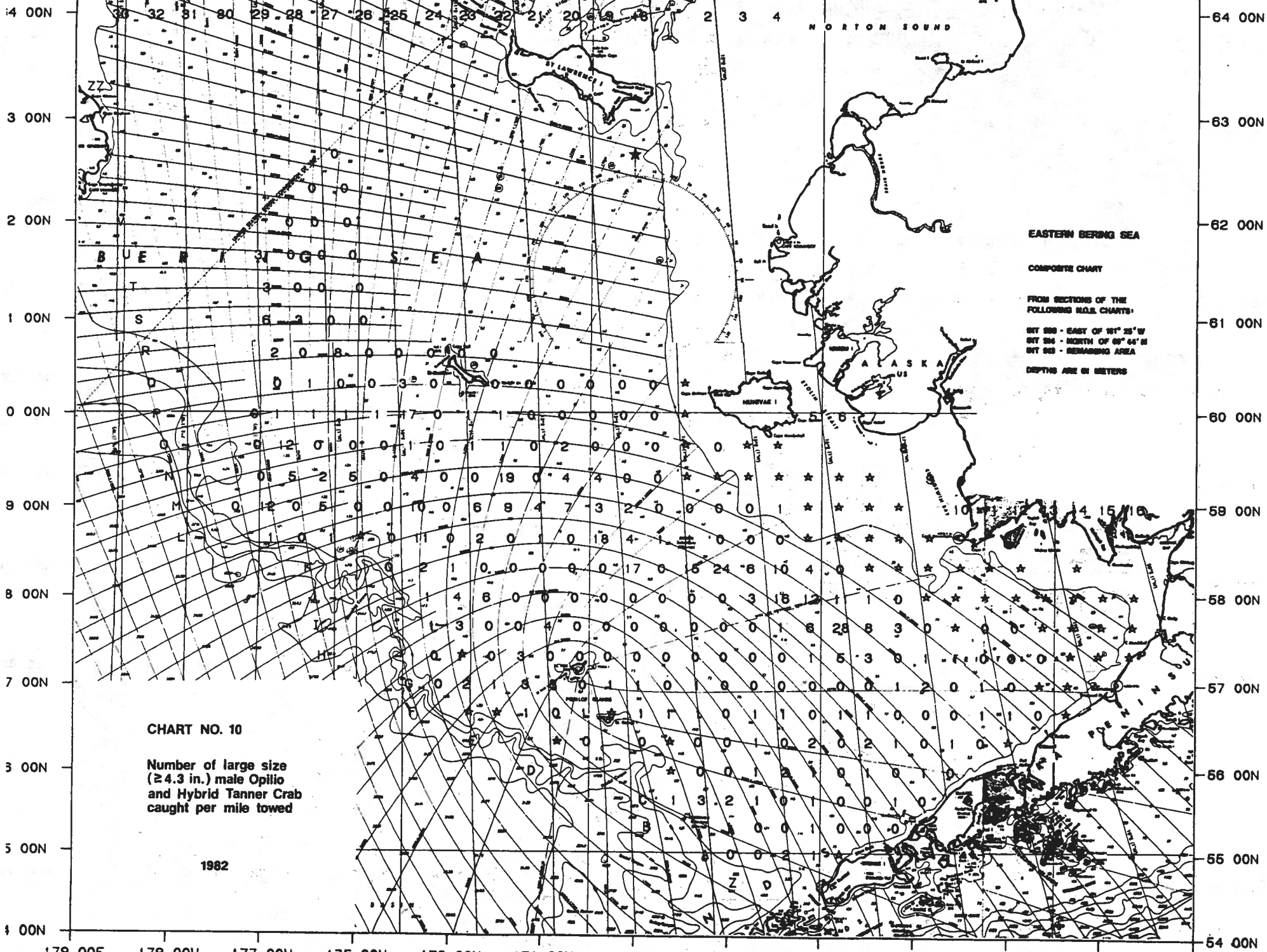
179 00E 179 00W 177 00W 175 00W 173 00W 171 00W 169 00W 167 00W 165 00W 163 00W 161 00W 159 00W 157 00W



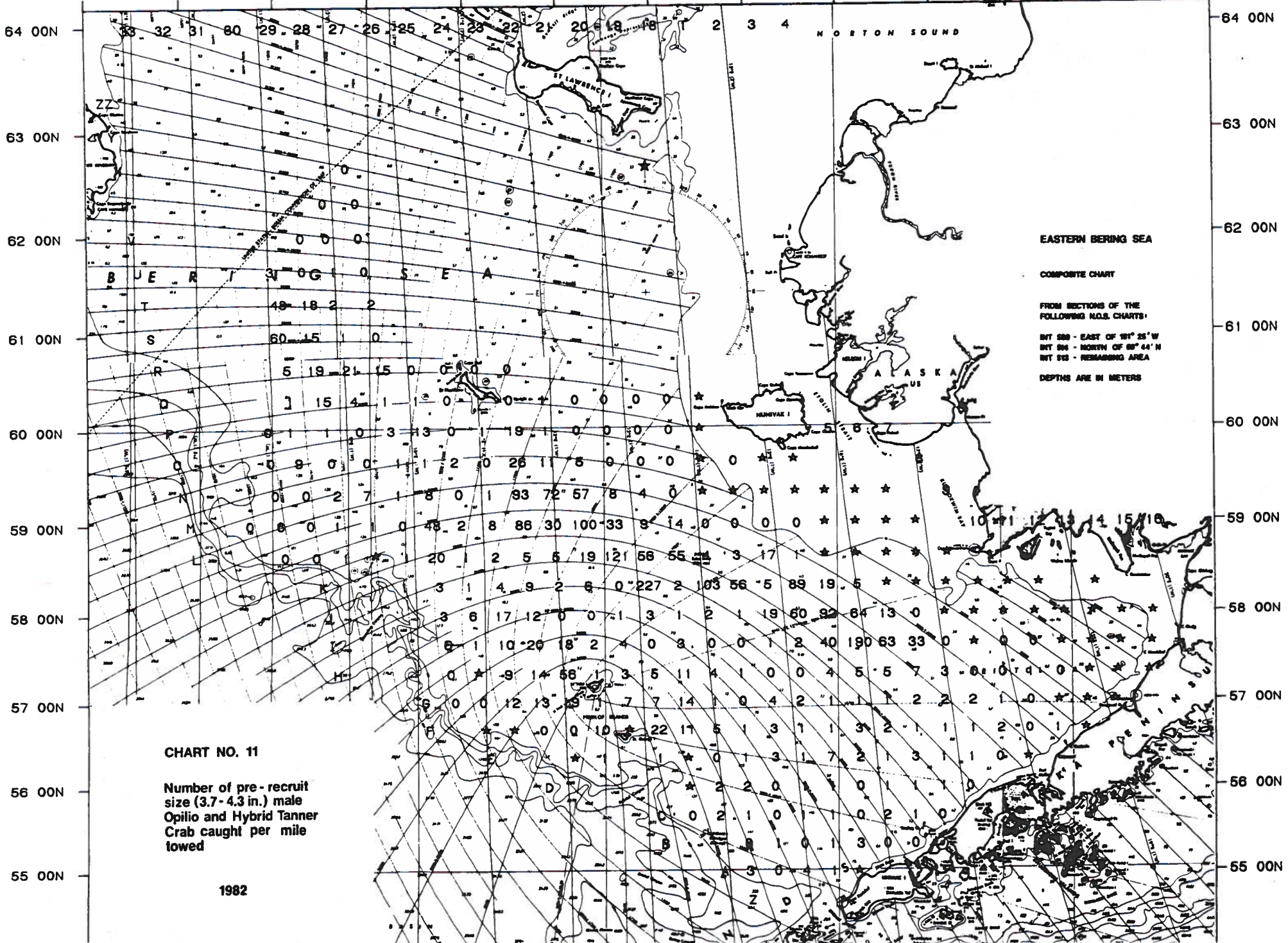




179 00E 179 00W 177 00W 175 00W 173 00W 171 00W 169 00W 167 00W 165 00W 163 00W 161 00W 159 00W 157 00W



179 00E 179 00W 177 00W 175 00W 173 00W 171 00W 169 00W 167 00W 165 00W 163 00W 161 00W 159 00W 157 00W



EASTERN BERING SEA

COMPOSITE CHART

FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:

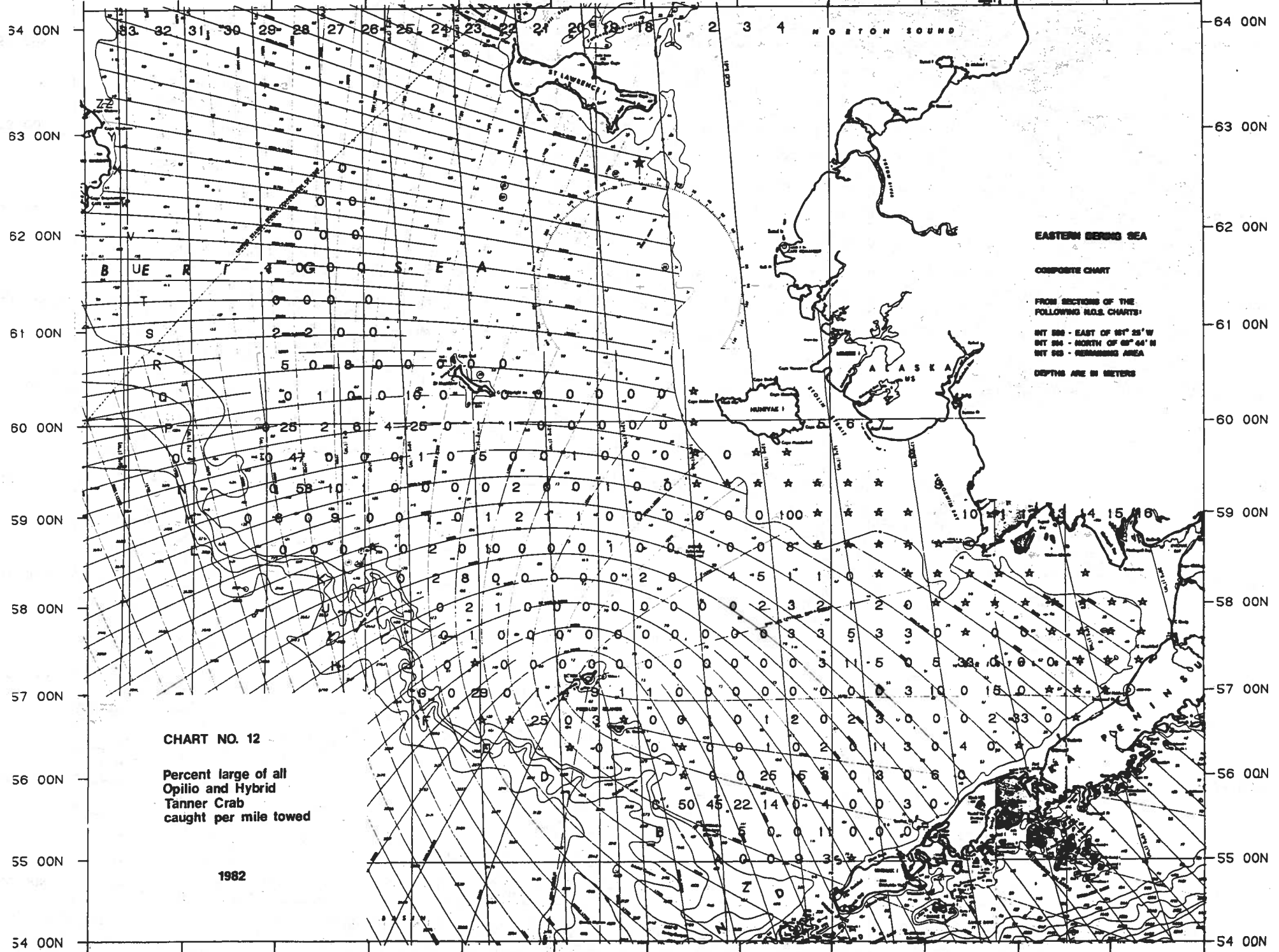
- INT 588 - EAST OF 161° 25' W
  - INT 594 - NORTH OF 66° 44' N
  - INT 595 - REMAINING AREA
- DEPTHS ARE IN METERS

CHART NO. 11

Number of pre-recruit size (3.7-4.3 in.) male Opilio and Hybrid Tanner Crab caught per mile towed

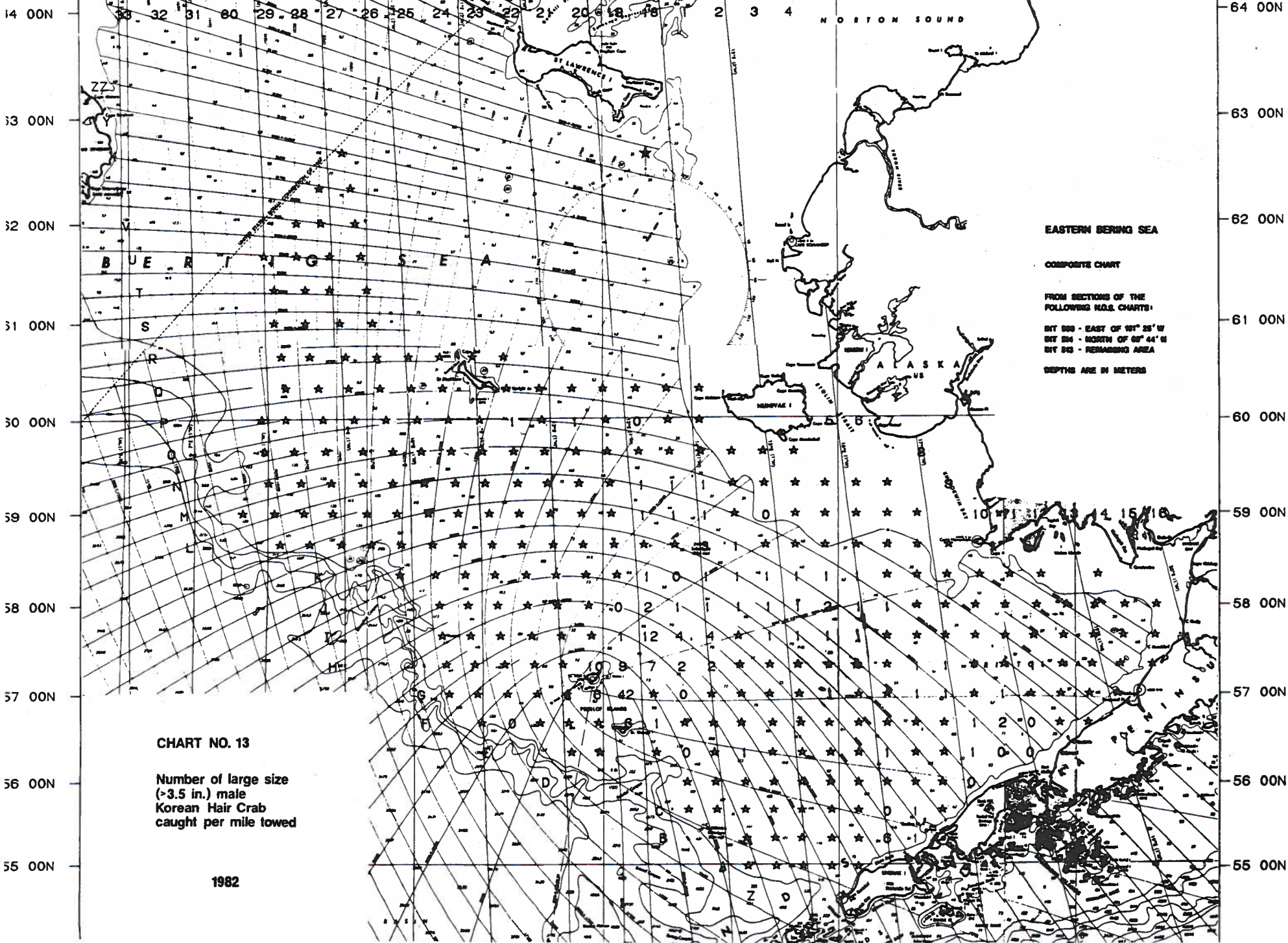
1982

179 00E 179 00W 177 00W 175 00W 173 00W 171 00W 169 00W 167 00W 165 00W 163 00W 161 00W 159 00W 157 00W





179 00E 179 00W 177 00W 175 00W 173 00W 171 00W 169 00W 167 00W 165 00W 163 00W 161 00W 159 00W 157 00W



EASTERN BERING SEA

COMPOSITE CHART

FROM SECTIONS OF THE  
FOLLOWING N.O.S. CHARTS:

- INT 500 - EAST OF 161° 25' W
- INT 504 - NORTH OF 60° 44' N
- INT 503 - REMAINING AREA

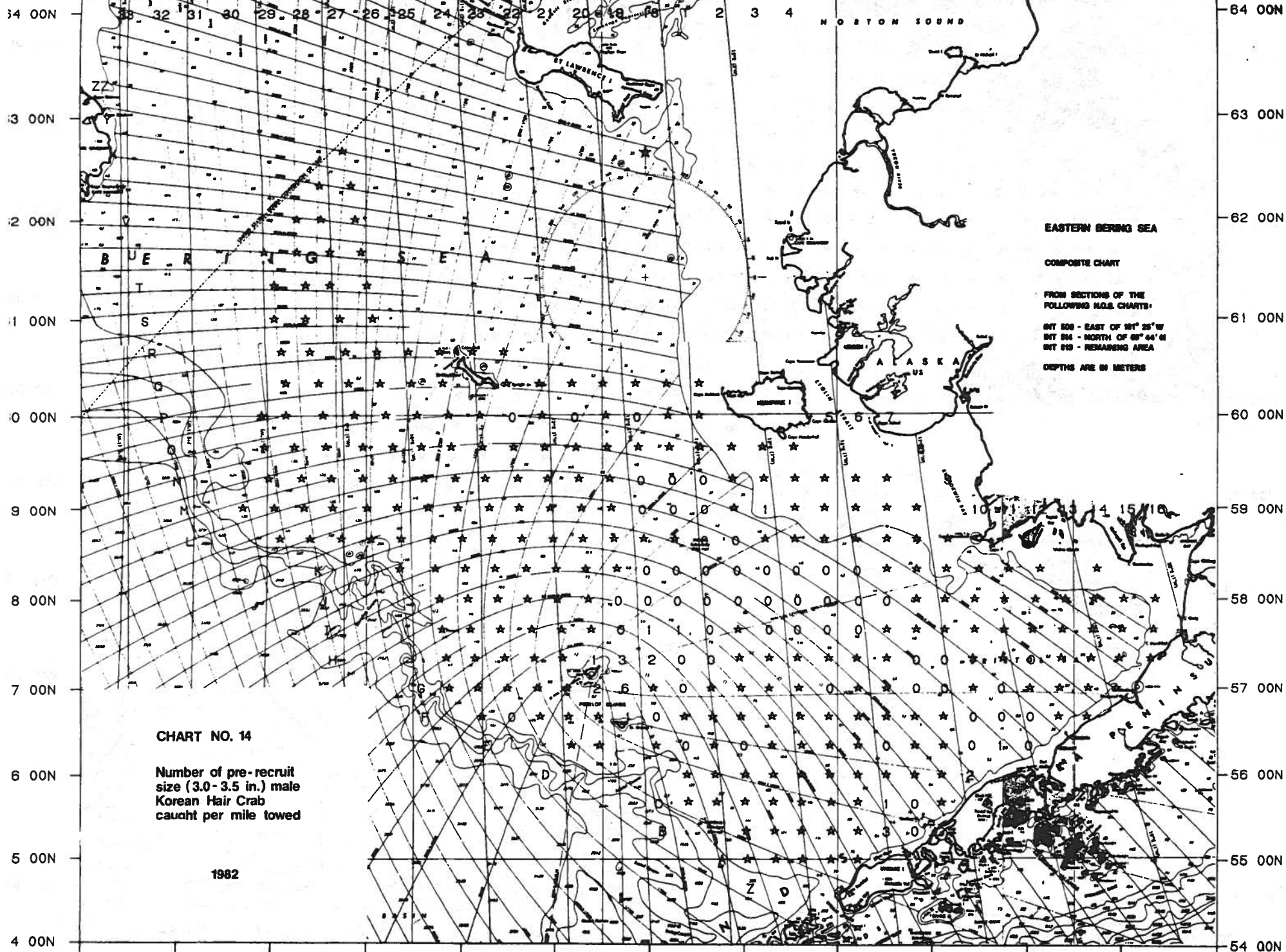
DEPTHS ARE IN METERS

CHART NO. 13

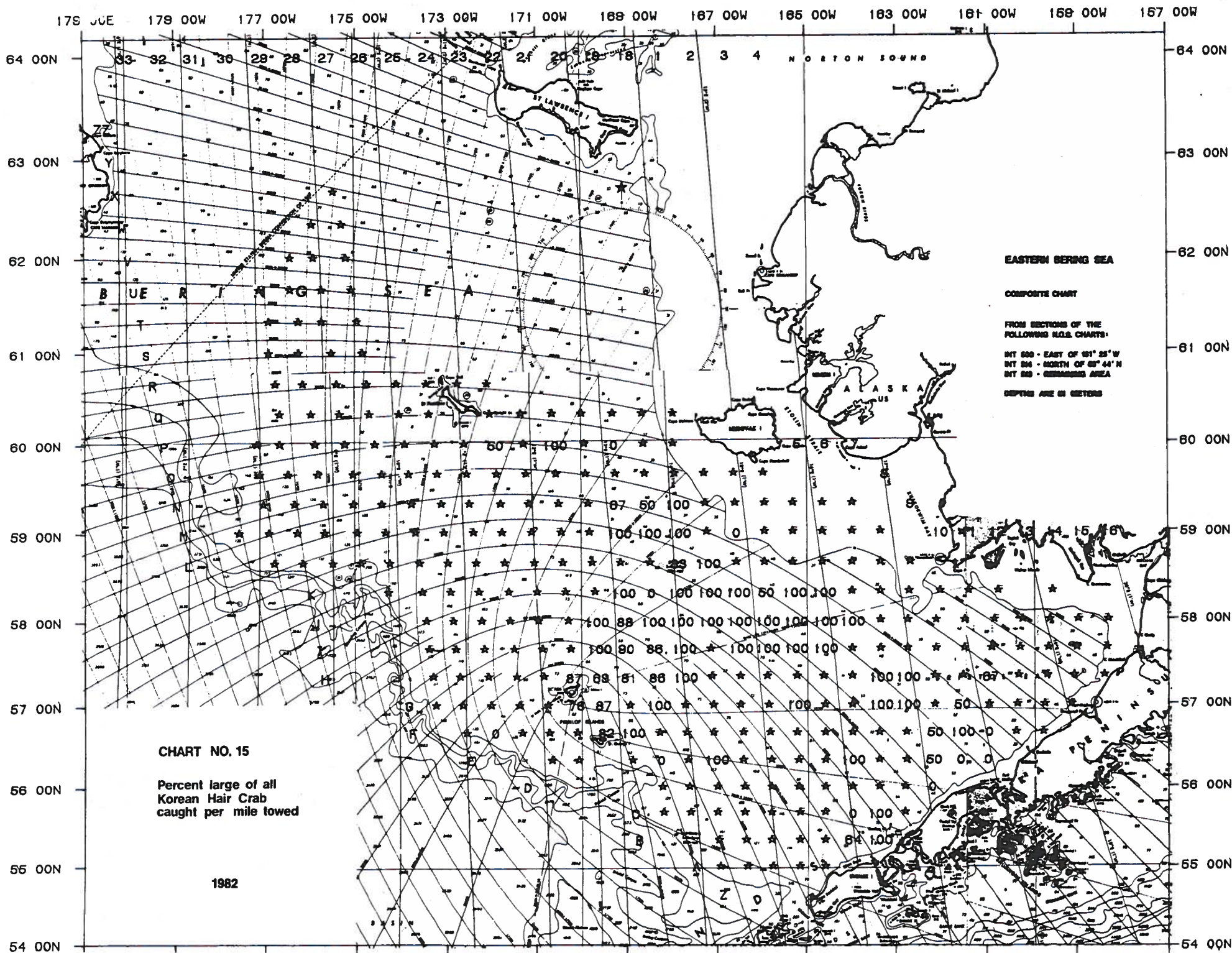
Number of large size  
(>3.5 in.) male  
Korean Hair Crab  
caught per mile towed

1982

179 00E 179 00W 177 00W 175 00W 173 00W 171 00W 169 00W 167 00W 165 00W 163 00W 161 00W 159 00W 157 00W







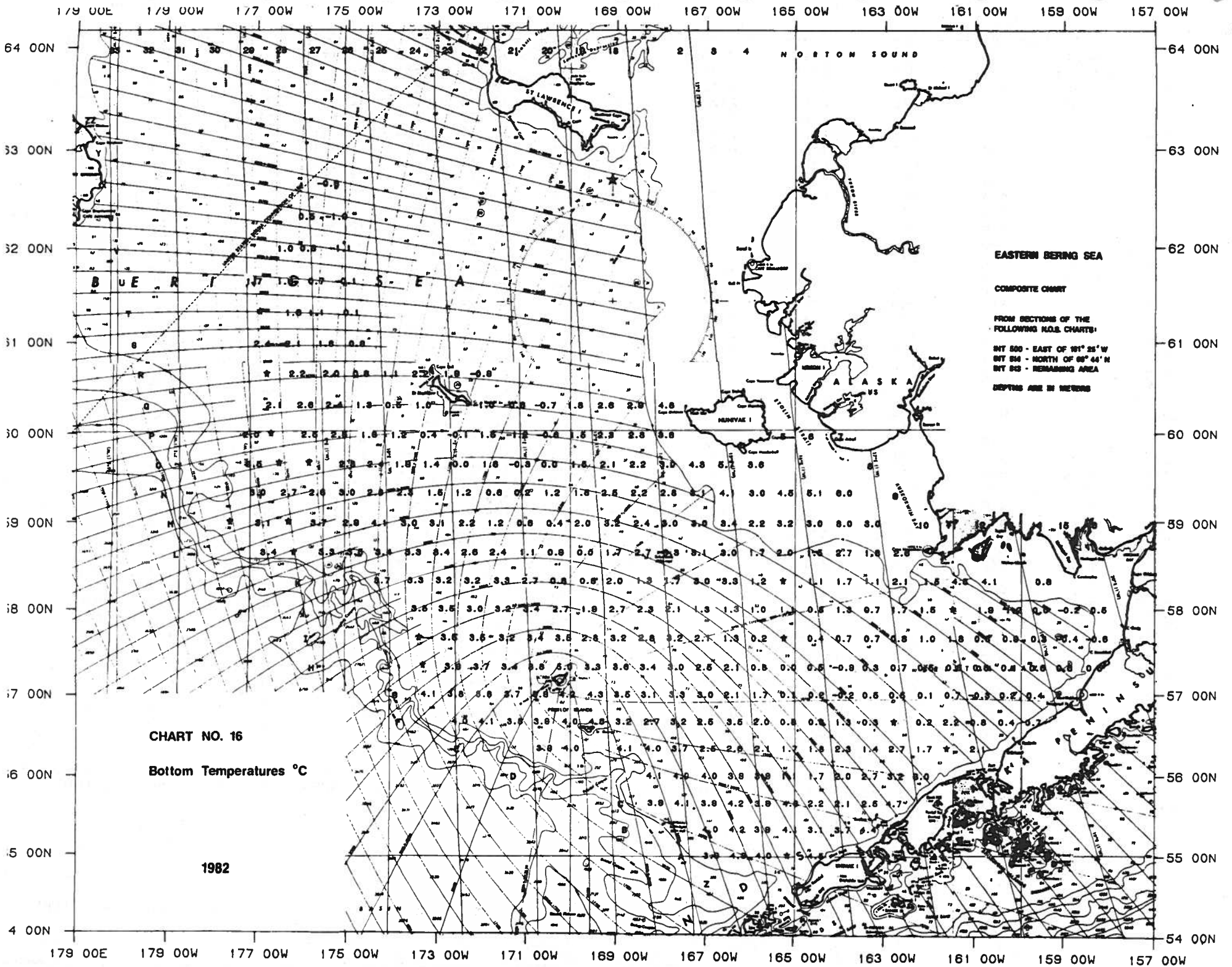




TABLE 4 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	MALES (SEE NOTE)		TOTAL	PERCENT LEGAL
									PRE-RECRUIT	LEGAL		
B08	6/12	55-20	163-25	Y34239	30	4.4	10.5	11.2	3.9	0.0	25.7	0.0
C06	6/13	55-39	164-34	Y34365	55	2.2	4.9	0.0	0.0	0.0	4.9	0.0
C07	6/17	55-38	164-00	Y34274	52	2.1	12.8	3.5	0.0	1.4	17.7	8.0
C08	6/12	55-40	163-24	Y34169	46	2.5	0.0	0.7	0.0	0.0	0.7	0.0
C09	6/16	55-42	162-49	Y34073	28	4.7	6.9	7.6	2.8	0.0	17.3	0.0
D07	6/17	56-00	164-00	Y34196	49	2.0	7.1	31.1	1.9	0.0	40.1	0.0
D08	6/12	56-00	163-23	Y34094	50	2.7	5.6	6.3	0.0	0.0	11.9	0.0
D09	6/16	56-01	162-48	Y33995	42	3.2	5.7	0.6	1.3	0.0	7.6	0.0
D10	6/8	56-00	162-13	Y33909	40	3.0	27.4	0.7	3.3	0.0	31.4	0.0
E07	6/17	56-18	163-59	Y34117	47	2.3	0.0	0.0	0.6	0.6	1.2	50.0
E08	6/11	56-20	163-23	Y34009	48	1.4	0.7	0.7	0.7	0.0	2.0	0.0
E09	6/16	56-21	162-47	Y33907	42	2.7	6.7	3.3	0.6	0.0	10.6	0.0
E10	6/8	56-19	162-12	Y33821	44	1.7	20.1	3.3	0.0	0.0	23.4	0.0
E11	6/13	56-20	161-38	Y33735	35	.	723.0	710.5	18.4	2.6	1454.6	0.2
E12	6/7	56-20	161-00	Y33634	29	2.1	53.5	45.5	0.7	1.3	101.0	1.3
F08	6/11	56-40	163-22	Y33908	42	.3	1.3	0.7	0.7	0.0	2.7	0.0
F09	6/16	56-41	162-47	Y33809	39	.	3.1	1.3	0.0	0.0	4.4	0.0
F10	6/8	56-39	162-11	Y33724	41	.2	16.9	3.4	2.7	0.0	22.9	0.0
F11	6/13	56-39	161-34	Y33630	48	2.2	15.4	12.7	0.0	0.7	28.8	2.3
F12	6/7	56-40	160-59	Y33536	38	.7	31.4	0.7	2.7	0.7	35.4	1.9
F13	6/1	56-40	160-20	Y33447	32	.4	323.0	310.3	6.8	1.7	641.8	0.3
F14	5/29	56-41	159-45	Y33361	22	.7	1.3	0.6	0.0	0.0	1.9	0.0
G04	6/17	57-00	165-51	Y34246	41	1.7	0.0	0.0	0.7	0.7	1.5	49.7
G05	6/20	57-01	165-12	Y34124	38	.0	0.0	0.0	0.6	0.0	0.6	0.0
G06	6/13	56-59	164-36	Y34022	40	.2	0.0	2.0	4.7	0.7	7.4	9.1
G07	6/17	57-00	163-59	Y33911	37	-.2	0.0	7.5	5.8	0.6	13.9	4.1
G08	6/11	57-01	163-23	Y33804	38	.5	2.7	17.4	7.4	1.3	28.8	4.7
G09	6/15	57-01	162-46	Y33704	33	.5	19.0	64.4	17.2	0.0	100.6	0.0
G10	6/8	56-59	162-10	Y33616	34	.0	56.8	50.9	20.4	3.2	130.3	1.7
G11	6/14	56-59	161-35	Y33528	38	.7	107.3	19.1	11.9	3.0	141.2	2.1
G12	6/7	57-00	160-57	Y33426	36	-.3	40.1	4.1	0.7	0.7	45.6	1.5
G13	6/1	56-58	160-20	Y33350	34	.2	18.3	3.3	2.0	0.0	23.5	0.0
G14	6/5	56-59	159-43	Y33264	32	.4	5.5	2.8	2.1	0.0	10.4	0.0
G15	5/31	57-00	159-05	Y33177	16	.	4.4	0.0	1.5	0.0	5.9	0.0
G20	7/2	56-50	169-55	X18648	40	4.5	0.0	0.0	0.0	0.0	0.0	0.0
G20	7/2	57-00	169-31	X18721	35	3.8	2.0	0.0	0.0	0.0	2.2	0.0
G21	7/8	57-00	170-10	X18690	36	4.7	2.1	0.0	0.0	0.7	2.8	25.1
G21	7/8	56-51	170-26	X18561	53	3.7	0.0	0.0	0.0	0.0	0.0	0.0
H05	6/20	57-21	165-14	Y34010	37	.0	0.0	2.1	3.6	3.6	9.3	38.5
H06	6/14	57-19	164-37	Y33905	38	.5	0.7	8.4	12.5	2.1	23.7	8.8
H07	6/17	57-19	163-59	Y33799	34	-.9	2.0	8.7	9.4	2.0	22.1	9.1
H08	6/11	57-20	163-24	Y33690	31	.3	4.2	4.9	3.5	2.8	15.3	18.2
H09	6/15	57-20	162-46	Y33588	26	.7	110.4	112.1	76.6	5.6	304.7	1.8
H10	6/9	57-20	162-09	Y33496	29	.5	70.9	42.8	32.8	8.0	154.4	5.2
H11	6/14	57-19	161-34	Y33411	30	.5	398.6	433.2	6.3	9.4	847.5	1.1

NOTE: PRE-RECRUIT = 5.0-6.4 IN. WIDTH: FCAI = GREATER THAN 6.4 IN. WIDTH



TABLE 4 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LEGAL
								SMALL	PRE-RECRUIT	LEGAL		
H12	6/ 7	57-20	160-56	Y33315 Z46433	36	.6	14.7	6.0	3.3	0.7	24.7	2.7
H13	6/ 1	57-18	160-17	Y33236 Z46176	33	.0	15.8	4.1	0.0	0.7	20.6	3.3
H14	6/ 5	57-19	159-39	Y33151 Z45921	32	.6	5.1	0.0	0.7	0.7	6.6	11.1
H15	5/31	57-20	159-05	Y33070 Z45690	25	.6	19.3	16.2	1.3	1.3	38.0	3.3
H16	5/29	57-20	158-24	Y32988 Z45418	16	.5	1.4	0.0	0.0	0.0	1.4	0.0
H20	7/ 3	57-08	169-54	X18746 Z50042	25	4.4	11.9	0.7	0.0	7.7	20.2	37.9
H20	7/ 3	57-19	169-36	0	34	2.2	0.6	0.0	0.0	1.9	2.5	75.0
I04	6/17	57-40	165-53	Y33993 Z48392	36	.2	0.7	0.0	0.7	0.0	1.3	0.0
I05	6/19	57-40	165-14	Y33875 Z48139	33	.	0.0	0.0	0.0	0.6	0.6	100.0
I06	6/14	57-39	164-37	Y33775 Z47892	31	.4	0.7	2.0	0.7	1.3	4.7	28.6
I07	6/18	57-39	163-59	Y33671 Z47643	28	.7	7.8	0.0	2.6	0.6	11.1	5.9
I08	6/10	57-41	163-23	Y33559 Z47402	26	.7	16.7	2.7	4.0	2.0	25.4	7.9
I09	6/15	57-42	162-45	Y33453 Z47149	23	.7	32.4	6.9	15.6	4.6	59.7	7.8
I10	6/ 9	57-39	162-08	Y33372 Z46904	27	1.0	22.1	4.0	5.3	1.3	32.8	4.1
I11	6/14	57-39	161-28	Y33282 Z46644	29	1.8	179.3	133.5	16.2	2.7	331.6	0.8
I12	6/ 7	57-40	160-53	Y33191 Z46407	32	.7	83.5	47.4	2.5	0.6	134.1	0.5
I13	6/ 1	57-38	160-15	Y33117 Z46157	29	.9	14.6	4.1	2.3	0.0	21.0	0.0
I14	6/ 5	57-39	159-38	Y33035 Z45910	30	.3	15.5	1.8	1.8	0.9	20.1	4.5
I15	5/31	57-40	159-01	Y32947 Z45662	26	-.4	1.6	0.0	0.0	0.0	1.6	0.0
I18	6/30	57-40	168-25	Y34485 Z49376	40	2.5	0.0	0.0	0.0	0.0	0.0	0.0
I18	6/30	57-30	168-38	Y34614 Z49492	40	3.1	0.0	0.0	0.0	0.6	0.6	100.0
I21	7/ 7	57-41	170-17	X18607 Y34748	39	3.2	0.0	0.0	0.0	0.6	0.6	100.0
I21	7/ 7	57-30	170-33	X18588 Y34869	40	3.7	0.0	0.0	0.0	0.0	0.0	0.0
J04	6/17	57-59	165-54	Y33848 Z48362	32	1.0	0.0	0.0	0.7	1.3	2.0	66.8
J05	6/19	58-00	165-14	Y33725 Z48107	27	1.1	2.8	0.7	0.7	0.7	4.9	14.3
J06	6/14	57-59	164-37	Y33631 Z47868	26	.7	2.8	0.7	3.5	2.1	9.0	23.1
J07	6/18	57-58	164-00	Y33533 Z47625	25	1.3	5.6	0.6	2.5	1.9	10.7	17.6
J08	6/10	58-00	163-23	Y33424 Z47384	25	.7	8.0	0.7	0.0	0.0	8.7	0.0
J09	6/15	58-01	162-44	Y33319 Z47131	21	1.7	17.3	1.5	3.1	1.2	21.6	5.7
J10	6/ 9	57-59	162-07	Y33246 Z46890	22	1.5	11.6	0.0	0.7	0.0	13.8	0.0
J11	6/14	57-58	161-28	Y33156 Z46634	26	.	32.9	7.6	7.0	1.9	49.3	3.8
J12	6/ 6	58-00	160-51	Y33063 Z46388	25	1.9	16.0	1.3	2.7	0.0	20.1	0.0
J13	6/ 1	57-59	160-12	Y32985 Z46132	27	1.2	13.4	3.9	0.6	0.6	18.5	3.0
J14	6/ 6	57-59	159-36	Y32906 Z45897	24	.0	2.1	2.9	0.0	0.0	5.0	0.0
J15	5/31	58-00	158-55	Y32822 Z45629	22	-.2	4.3	3.5	0.0	0.0	7.8	0.0
J16	5/29	58-00	158-19	Y32749 Z45390	20	.5	2.1	0.7	0.0	0.0	2.8	0.0
K02	6/28	58-21	167-11	Y33880 Z48784	29	3.0	0.7	0.0	0.0	1.3	2.0	66.8
K03	6/28	58-19	166-33	Y33791 Z48562	26	3.3	0.0	0.0	0.0	0.7	0.7	100.0
K04	6/16	58-20	165-55	Y33673 Z48320	75	1.2	0.6	0.0	0.0	0.0	0.6	0.0
K05	6/19	58-20	165-17	Y33568 Z48084	24	.	0.7	0.0	0.7	0.7	2.2	33.2
K06	6/14	58-19	164-37	Y33477 Z47839	25	1.1	3.3	0.7	0.7	1.3	6.0	22.3
K07	6/18	58-19	163-59	Y33371 Z47595	22	.	1.8	0.6	0.6	0.0	3.0	0.0
K08	6/10	58-20	163-23	Y33227 Z47360	20	1.1	2.7	0.0	0.7	0.7	4.0	16.6
K09	6/15	58-21	162-43	Y33172 Z47103	16	2.1	5.7	0.0	2.1	0.7	8.6	8.3
K10	6/ 9	58-18	162-03	Y33099 Z46853	27	1.5	2.2	0.7	0.0	0.7	3.7	19.9

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

TABLE 4 DATA FROM THE 1982 EASTERN BEHIND SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	MOLES (SEE NOTE)			TOTAL	PERCENT LEGAL
								SMALL	PRE-RECRUIT	LEGAL		
K11	6/14	58-15	161-24	Y33022 246597	21	4.0	0.7	0.0	0.0	0.0	0.7	0.0
K14	6/ 6	58-19	159-32	Y32776 245876	14	4.7	0.0	1.4	0.0	0.0	1.4	0.0
L02	6/28	58-40	167-13	Y33688 248724	23	3.1	2.0	0.0	0.7	0.7	3.3	19.9
L03	6/28	58-39	166-34	X18598 248501	23	3.0	0.0	0.6	0.0	0.6	1.2	50.3
L04	6/16	58-40	165-55	Y33488 248267	21	1.7	1.4	0.0	0.0	0.0	1.4	0.0
L05	6/19	58-40	165-17	Y33394 248043	20	2.0	0.6	0.0	1.2	0.6	2.4	25.0
L06	6/14	58-39	164-39	Y33312 247809	22	1.5	0.7	0.7	0.0	0.0	2.1	0.0
L07	6/18	58-40	163-59	Y33206 247562	17	2.7	0.6	0.0	0.6	0.0	1.2	0.0
L09	6/15	58-39	162-42	Y33027 247079	13	2.6	0.0	0.0	0.6	0.0	0.6	0.0
M01	6/30	59-00	167-52	Y33563 248848	22	3.0	0.0	0.0	0.0	0.6	0.6	100.0
M02	6/28	59-00	167-14	Y33481 248651	23	3.0	0.0	1.4	0.0	0.0	2.0	0.0
M03	6/28	58-58	166-54	X18662 248439	19	3.4	0.5	0.0	0.0	0.0	0.5	0.0
M05	6/19	59-00	165-17	Y33207 247993	14	3.2	1.8	1.2	0.0	0.0	3.0	0.0
M06	6/15	58-59	164-38	Y33150 247762	16	3.0	0.0	1.5	0.7	0.0	2.2	0.0
M07	6/18	58-59	163-59	Y33041 247531	14	3.0	0.6	0.0	0.0	0.6	1.3	50.0
M04	6/16	59-20	165-57	Y33101 248161	14	3.0	0.0	0.0	0.7	0.0	0.7	0.0
M06	6/15	59-19	164-39	Y32945 247724	12	5.1	0.7	0.0	0.7	0.0	1.3	0.0
M18	6/26	59-20	168-33	Y33409 248942	24	2.2	0.7	0.0	0.0	0.0	1.3	0.0
F18	6/27	59-59	168-39	Y32948 248371	20	2.3	0.0	0.0	0.7	0.0	0.7	0.0
018	6/27	60-19	168-40	Y32709 248380	21	2.9	0.0	0.0	0.0	0.7	0.7	100.0

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

TABLE 5 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE BLUE KING CRAB WERE TAKEN

STATION	DATE	LATITUDE	LONGITUDE	LURAN #	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED				TOTAL	PERCENT LEGAL
								SMALL	PRERECRUIT	LEGAL	MALES (SEE NOTE)		
F04	6/18	56-20	165-47	Y34429	43339	1.1	2.1	0.0	0.0	0.0	0.0	0.6	0.0
F20	7/ 2	56-39	169-30	X18616	Z49820	33	4.6	0.7	0.0	0.0	0.0	1.3	50.0
G01	7/ 1	56-59	167-42	X18713	Y34837	41	3.3	0.0	0.0	0.7	0.0	0.7	0.0
G18	7/ 1	56-51	168-38	Y34863	Z49535	53	2.1	0.0	0.0	0.0	0.0	0.8	100.0
G18	6/30	57-00	168-20	Y34752	Z49417	49	3.7	2.1	0.0	0.0	0.0	0.0	0.0
G19	7/ 2	56-58	168-59	X18715	Z49678	43	3.5	2.1	0.0	0.0	1.4	3.5	39.9
G19	7/ 2	56-49	169-19	X18675	Z49791	47	3.4	4.6	0.0	0.0	0.0	4.6	0.0
G20	7/ 2	56-50	169-55	X18648	Z50033	40	4.5	1.4	0.7	0.0	0.0	2.1	0.0
G20	7/ 2	57-00	169-31	X18721	Z49887	35	3.8	36.8	6.5	0.7	1.4	45.5	3.2
G21	7/ 8	56-51	170-26	X18561	Y50129	53	3.7	0.0	0.0	0.0	0.0	0.0	0.0
G21	7/ 8	57-00	170-10	X18690	Z50118	36	4.7	18.8	5.6	2.1	0.0	26.5	0.0
H01	6/30	57-22	167-44	Y34489	Z49155	39	3.0	0.0	0.0	0.0	0.6	0.6	100.0
H18	6/30	57-20	168-23	Y34639	Z49416	42	3.4	0.7	0.7	0.7	0.0	2.0	0.0
H18	6/30	57-10	168-37	0	0	43	3.4	1.4	0.0	0.7	0.0	2.1	0.0
H19	7/ 3	57-08	169-19	Y34977	Z49811	39	3.5	6.4	0.0	0.0	0.9	7.3	12.5
H19	7/ 3	57-18	169-01	Y34788	Z49671	39	3.7	8.7	0.0	1.6	0.0	10.3	0.0
H20	7/ 3	57-19	169-36	0	0	34	2.2	5.7	1.3	0.6	1.3	8.9	14.3
H20	7/ 3	57-08	169-54	X18746	Z50042	25	4.4	186.8	2.1	2.1	7.0	197.9	3.5
H21	7/ 7	57-21	170-16	X18692	Y34988	31	5.0	0.7	0.0	0.0	4.3	5.0	85.7
H23	7/ 9	57-18	171-27	X18288	Y34877	55	3.4	0.0	0.0	0.0	0.6	0.6	100.0
H24	7/ 9	57-19	172-05	Y34779	X18044	61	3.7	0.0	0.0	0.0	1.3	1.3	100.0
I18	6/30	57-30	168-38	Y34614	Z49492	40	3.1	5.2	1.3	0.6	1.3	8.4	15.3
I18	6/30	57-40	168-25	Y34485	Z49376	40	2.5	0.7	1.4	1.4	0.0	3.5	0.0
I19	7/ 3	57-40	169-04	Y34610	Z49617	37	2.7	2.5	0.6	0.0	0.6	3.7	16.7
I19	7/ 3	57-29	169-17	Y34754	Z49742	38	3.7	7.0	0.0	0.0	1.3	8.2	15.4
I20	7/ 3	57-29	169-58	Y34868	Z49970	42	2.6	2.7	1.3	1.3	5.3	10.6	50.0
I20	7/ 3	57-39	169-40	Y34708	Z49818	40	2.9	1.3	0.0	0.0	0.6	2.0	33.2
I21	7/ 7	57-30	170-33	X18588	Y34869	40	3.7	0.0	0.0	0.0	2.3	2.3	100.0
I21	7/ 7	57-41	170-17	X18607	Y34748	39	3.2	2.5	1.2	1.2	3.7	8.6	42.9
I22	7/ 8	57-39	170-53	Y34747	Z50052	50	3.4	0.0	0.0	0.0	3.6	3.6	100.0
I23	7/ 9	57-40	171-30	X18260	Z50085	54	3.2	0.0	0.0	0.0	0.6	0.6	100.0
J18	6/30	57-50	168-41	Y34440	Z49435	40	2.3	4.3	9.9	0.0	1.4	15.6	9.1
J18	6/26	58-00	168-26	Y34295	Z49306	40	2.2	0.0	0.7	2.1	2.9	5.7	50.0
J19	7/ 4	58-00	169-02	Y34389	Z49508	38	2.0	0.6	0.0	0.6	1.3	2.6	49.8
J19	7/ 3	57-49	169-18	Y34552	Z49650	35	3.3	0.0	0.0	0.6	1.2	1.9	66.4
J20	7/ 4	58-00	169-41	Y34473	Z49699	40	2.4	0.0	0.0	0.7	2.7	3.3	80.1
J20	7/ 3	57-50	169-59	Y34620	Z49838	41	1.3	0.7	0.0	0.0	3.6	4.3	83.3
J21	7/ 7	57-51	170-35	X18505	Y34626	42	3.6	0.0	0.0	1.8	1.8	3.7	50.0
J21	7/ 6	58-01	170-19	X18520	Y34497	40	1.8	0.0	1.4	3.5	7.0	11.9	58.8
J23	7/ 9	57-58	171-35	X18201	Y34488	53	3.2	0.0	0.0	0.0	1.2	1.2	100.0
K22	7/ 7	58-20	171-01	Y34268	Z49818	48	2.7	0.7	0.0	0.0	3.4	4.1	83.3
K23	7/ 9	58-17	171-38	X18143	Y34277	52	3.3	0.0	0.0	0.0	1.2	1.2	100.0
L19	7/ 4	58-38	169-08	Y33961	Z49324	34	1.7	0.0	0.0	0.0	0.6	0.6	100.0
L21	7/ 6	58-41	170-26	X18352	Y34013	40	.9	0.0	0.0	0.0	1.9	1.9	100.0
N24	7/10	59-19	172-29	Z49648	X17775	50	1.2	0.0	0.0	0.0	5.5	5.5	100.0

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 5 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE BLUE FISH LEADS WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LOCAL C	DEPTH FMS	BOTTOM TEMP	FE MALES	SMALL IMPERFECT	INDIVIDUAL FISH			TOTAL	PERCENT LEGAL
									LEGAL	IMPERFECT	LEGAL		
001	7/29	59-19	173-10	X17597	35	1.5	0.0	0.0	0.0	5.4	6.0	50.0	
002	8-27	59-40	167-18	X13045	18	4.3	0.0	0.0	0.0	0.0	0.7	0.0	
015	7/10	59-28	171-53	X17275	42	1.6	0.0	0.0	0.0	0.6	0.0	100.0	
034	7/10	59-31	172-33	X17718	47	2.0	0.0	0.0	1.2	0.1	10.4	87.5	
075	7/20	59-40	173-19	X17446	52	1.4	0.0	0.0	2.0	15.5	17.7	87.5	
086	7/11	59-40	174-52	X17325	59	1.9	0.0	1.3	3.0	14.9	19.4	76.7	
123	7/10	59-57	171-57	X17815	34	1.5	0.0	1.1	0.0	2.7	4.4	52.5	
124	8/10	59-59	172-38	X17818	38	2.0	0.0	2.3	3.5	8.4	14.0	57.1	
125	7/12	59-58	173-16	X17512	42	4	0.0	1.3	10.3	7.7	19.3	40.0	
176	7/11	59-00	173-57	X17341	55	1.0	0.0	0.7	0.7	3.6	5.0	71.5	
177	7/11	59-00	173-33	X17182	58	1.8	0.0	0.0	2.5	13.7	16.2	94.6	
023	7/11	59-02	173-11	X17308	32	-1.0	2.8	15.0	2.6	0.6	28.1	2.3	
026	7/12	59-12	173-23	X17454	33	1.0	3.3	23.8	35.8	27.4	65.3	28.7	
026	7/12	59-20	174-04	X17282	51	1.5	0.0	0.0	1.4	4.9	6.3	77.7	
037	7-13	60-18	173-23	X17133	56	1.3	0.0	0.0	0.0	6.2	6.2	100.0	
039	7-13	60-13	173-05	X17397	67	2.6	0.6	0.0	0.0	0.0	0.6	0.0	
024	8-11	60-30	173-47	X17325	70	1.9	0.0	0.6	0.0	0.0	1.2	50.0	
035	7/13	60-39	173-18	X17335	33	3.2	1.2	0.5	1.8	1.2	6.8	18.1	
038	8-12	60-40	173-23	X17334	59	2.0	0.0	0.0	0.0	0.6	0.6	100.0	
038	7/29	61-00	175-14	X17515	56	1.8	0.0	0.0	0.0	1.1	1.1	100.0	
139	7-27	61-18	173-00	X17333	58	1.6	0.4	0.0	0.0	0.0	0.4	0.0	
139	7-26	61-20	173-01	X17375	64	1	1.6	0.0	0.0	0.0	2.4	33.3	
039	7-28	61-31	172-52	X17339	63	1.7	0.0	0.0	1.4	0.1	7.5	81.8	

0000 LPPH (001300) = 5.25634 10. REPRODUCIBLE = CUMULATED REAN 6.4 10. WIDTH FOR AREA 2. OF 581370  
 PER HEIGHT = 3.1 50.3 10. STATION CODE = 107418 AREA 2. OF 581370

TABLE 6 DATA FROM THE 1982 EASTERN BERING SEA TRawl SURVEY WHERE EARLIER TANNER TRAWL WERE TAKEN

STATION NO.	DATE	LATITUDE	LONGITUDE	LOGAN #	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRE-RECRUIT	LEGAL	TOTAL	MILES PER MILE TOWED	
												LEGAL	LEGAL
001	6/19	55-00	166-57	Y34824	248239	87	51.5	23.6	4.3	0.0	79.4	0.0	0.0
002	6/26	55-00	166-00	X18384	248477	78	111.6	38.2	35.2	10.3	155.3	5.3	5.3
003	6/18	55-00	165-44	Y34652	248566	72	141.0	19.1	22.8	2.9	185.8	1.6	1.6
004	6/21	55-00	165-09	Y34595	248059	81	19.8	20.4	0.8	0.0	36.7	0.0	0.0
005	6/19	55-16	166-58	Y34798	248776	78	73.6	11.5	15.9	5.0	106.0	4.8	4.8
006	6/26	55-18	166-00	X18367	248515	73	27.0	40.8	3.2	1.3	72.5	1.8	1.8
007	6/18	55-20	165-47	Y34614	248316	67	43.9	9.8	14.6	4.2	72.5	5.9	5.9
008	6/21	55-20	165-09	Y34516	248083	61	0.6	3.9	2.6	0.0	7.2	0.0	0.0
009	6/13	55-19	164-35	X18428	247372	89	12.3	17.1	3.9	0.0	38.4	0.0	0.0
010	6/16	55-20	163-50	Y34330	247643	40	11.2	26.8	5.6	3.7	47.4	7.9	7.9
011	6/10	55-20	163-25	Y34339	247439	30	1.3	1.3	1.3	0.0	3.9	0.0	0.0
012	6/11	55-41	167-32	X18416	248642	74	4.1	18.1	13.4	2.0	62.0	2.4	2.4
013	6/10	55-39	166-58	Y34759	248779	75	2.4	0.0	2.4	0.8	5.7	14.3	14.3
014	6/26	55-38	166-22	X18454	248563	70	9.4	10.7	16.7	2.7	39.4	6.8	6.8
015	6/18	55-40	165-48	Y34544	248351	66	3.9	5.7	0.7	0.0	11.4	0.0	0.0
016	6/21	55-41	165-09	Y34455	248105	60	6.4	13.6	5.7	1.4	27.2	5.3	5.3
017	6/13	55-30	164-34	Y34365	247883	55	55.8	28.3	0.7	0.0	94.8	0.0	0.0
018	6/17	55-38	164-00	Y34274	247665	52	26.2	16.3	5.7	1.4	49.6	2.9	2.9
019	6/12	55-40	163-24	Y34169	247431	46	29.0	12.0	44.8	12.0	158.5	7.6	7.6
020	6/16	55-42	162-49	Y34073	247207	28	0.0	2.1	0.0	0.0	2.1	0.0	0.0
021	7/1	55-49	168-11	X18357	249204	77	3.1	9.3	0.0	0.0	11.4	0.0	0.0
022	6/19	56-00	167-36	Y34819	X18489	74	20.1	30.2	10.7	0.0	61.3	0.0	0.0
023	6/26	55-59	166-24	X18534	248603	67	2.7	1.3	1.3	0.0	5.3	0.0	0.0
024	6/18	56-00	165-47	Y34502	248371	60	5.2	9.1	2.6	0.0	17.0	0.0	0.0
025	6/20	56-00	165-10	Y34393	248133	53	12.1	10.1	4.0	0.0	26.3	0.0	0.0
026	6/13	55-59	164-35	Y34298	247903	53	59.8	5.1	4.5	0.0	69.4	0.0	0.0
027	6/17	56-00	164-00	Y34195	247675	49	47.3	13.0	9.1	7.1	76.4	9.3	9.3
028	6/12	56-01	163-23	Y34094	247432	50	7.0	7.0	0.0	0.0	13.9	0.0	0.0
029	6/18	56-01	162-48	Y33995	247201	42	82.2	8.2	9.5	2.5	102.5	2.5	2.5
030	6/18	56-00	162-13	Y33909	246974	40	10.7	2.7	2.0	0.0	15.4	0.0	0.0
031	7/1	56-00	168-14	0	0	84	6.1	6.1	1.4	0.0	13.6	0.0	0.0
032	7/1	56-20	167-38	X13587	Y34772	70	7.5	4.7	3.2	0.8	18.2	4.3	4.3
033	6/19	56-19	167-00	Y34657	248864	65	1.4	2.1	0.7	0.7	4.8	14.3	14.3
034	6/26	56-19	166-24	X18605	248631	55	9.6	2.3	2.3	0.6	14.7	3.8	3.8
035	6/18	56-20	165-47	Y34429	248390	52	14.2	13.0	1.9	0.6	29.8	2.2	2.2
036	6/20	56-20	165-11	Y34319	248153	59	17.8	30.4	9.7	0.6	48.9	0.0	0.0
037	6/13	56-19	164-34	Y34217	247908	50	7.0	9.4	9.0	0.7	16.0	4.4	4.4
038	6/17	56-18	163-59	Y34117	247676	47	11.4	4.8	6.0	0.6	22.8	2.6	2.6
039	6/11	56-20	163-23	Y34009	247437	48	8.6	2.0	2.7	2.7	15.9	16.7	16.7
040	6/16	56-21	162-47	Y33907	247197	42	6.7	2.2	2.2	1.1	12.2	9.1	9.1
041	6/18	56-19	162-12	Y33821	246961	44	12.7	1.3	2.7	6.0	22.7	26.5	26.5
042	6/13	56-19	161-38	Y33735	246734	35	1.3	3.9	1.3	0.7	7.2	9.1	9.1
043	6/17	56-20	161-00	Y33634	246481	29	23.4	21.4	3.3	0.7	48.8	1.4	1.4
044	7/1	56-20	168-15	0	0	85	14.7	45.5	16.0	1.3	77.6	1.7	1.7

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



TABLE 6 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LEGAL
								SMALL	PRE-RECRUIT	LEGAL		
E19	7/ 2	56-20	168-52	X18534 Z49554	69	4.1	296.6	32.8	5.3	1.3	336.1	0.4
E21	7/ 8	56-20	170-04	X18405 Z49901	60	4.0	9.2	8.6	4.6	0.0	22.4	0.0
E22	7/ 8	56-20	170-40	X18271 Y35136	68	3.9	463.7	67.6	33.2	0.7	565.2	0.1
F01	7/ 1	56-40	167-39	X18663 Y34703	54	3.2	0.7	0.0	2.7	0.0	4.0	0.0
F02	6/29	56-39	167-04	0	54	2.5	0.0	0.0	0.7	0.0	0.7	0.0
F03	6/27	56-38	166-25	X18664 Z48650	44	3.5	1.2	1.2	0.0	0.0	2.5	0.0
F04	6/17	56-40	165-49	Y34346 Z48409	41	2.0	4.6	1.3	1.3	0.7	8.0	8.4
F05	6/20	56-40	165-11	Y34226 Z48157	44	.9	0.0	2.0	0.0	0.0	2.0	0.0
F06	6/13	56-39	164-36	Y34127 Z47922	43	.3	1.4	1.4	1.4	0.0	4.2	0.0
F07	6/17	56-39	164-00	Y34018 Z47671	41	1.3	2.8	3.3	1.1	0.0	7.2	0.0
F08	6/11	56-40	163-22	Y33908 Z47438	42	.3	4.7	1.3	2.0	0.0	8.1	0.0
F09	6/16	56-41	162-47	Y33809 Z47189	39	.	3.1	3.1	5.0	1.3	12.5	10.0
F10	6/ 8	56-39	162-11	Y33724 Z46949	41	.	4.7	8.1	6.1	4.0	22.9	17.7
F11	6/13	56-39	161-34	Y33630 Z46705	48	2.2	18.7	1.3	6.7	6.0	32.8	18.4
F12	6/ 7	56-40	160-59	Y33536 Z46468	38	.7	2.7	0.7	3.3	2.7	9.4	28.6
F13	6/ 1	56-40	160-20	Y33447 Z46211	32	.4	22.0	19.5	5.9	2.5	50.0	5.1
F18	7/ 1	56-39	168-19	0	60	2.7	0.0	4.5	5.3	0.8	10.6	7.2
F19	7/ 2	56-39	168-53	X18635 Z49610	54	3.2	97.0	7.1	9.0	0.6	113.7	0.6
F20	7/ 2	56-39	169-30	X18610 Z49826	44	4.6	0.0	0.7	0.7	0.0	1.3	0.0
F21	7/ 8	56-40	170-08	X18543 Z50009	52	4.0	10.3	55.1	38.9	4.4	108.7	4.1
F22	7/ 8	56-40	170-44	X18402 Y35126	64	3.9	38.3	13.9	25.8	2.1	80.1	2.6
F23	7/ 9	56-39	171-19	X18201 Z50144	65	3.8	221.2	85.6	74.8	6.8	388.4	1.7
F24	7/ 9	56-40	171-58	X17971 Y34992	71	4.1	30.7	87.1	1.4	0.0	119.2	0.0
F25	7/13	56-40	172-37	X17720 Y34902	76	4.0	13.0	9.4	0.7	0.0	23.1	0.0
G01	7/ 1	56-59	167-42	X18713 Y34627	42	3.3	2.7	6.0	1.3	0.0	10.0	0.0
G02	6/29	57-00	167-04	0	42	3.0	1.4	1.4	0.0	0.7	3.6	20.1
G03	6/27	56-58	166-27	X18709 Z48663	40	2.1	0.6	0.6	0.0	0.0	1.3	0.0
G04	6/17	57-00	165-51	Y34246 Z48419	41	1.7	0.7	0.0	0.0	0.0	0.7	0.0
G05	6/20	57-01	165-12	Y34124 Z48161	38	.0	0.0	2.4	1.2	0.0	3.6	0.0
G06	6/13	56-59	164-36	Y34022 Z47916	40	.2	0.0	0.7	0.0	0.0	0.7	0.0
G07	6/17	57-00	163-59	Y33911 Z47670	37	-.2	2.9	1.7	1.7	0.6	6.9	8.3
G08	6/11	57-01	163-23	Y33804 Z47428	38	.5	0.0	0.7	1.3	0.7	2.7	24.9
G09	6/15	57-01	162-46	Y33704 Z47181	33	.5	1.8	1.2	4.3	3.7	11.0	33.4
G10	6/ 8	56-59	162-10	Y33616 Z46937	34	.0	2.2	1.5	6.5	0.0	10.2	0.0
G11	6/14	56-59	161-35	Y33528 Z46700	38	.7	1.8	0.6	4.2	2.4	8.9	26.7
G12	6/ 7	57-00	160-57	Y33426 Z46445	36	-.3	2.1	0.0	0.7	7.6	10.4	73.3
G13	6/ 1	56-58	160-20	Y33350 Z46197	34	.2	9.8	1.3	2.0	5.9	18.9	31.0
G14	6/ 5	56-59	159-43	Y33264 Z45951	32	.4	55.3	37.3	8.3	0.7	102.3	0.7
G18	6/30	57-00	168-20	Y34752 Z49417	40	3.1	5.5	9.0	2.8	0.0	17.3	0.0
G18	7/ 1	56-51	168-38	Y34863 Z49535	53	2.8	0.0	3.1	1.5	0.0	4.6	0.0
G19	7/ 2	56-49	169-19	X18675 Z49791	42	3.4	3.3	0.7	3.0	1.3	7.3	18.2
G19	7/ 2	56-58	168-59	X18715 Z49678	43	3.5	21.6	1.4	3.5	0.0	6.4	3.7
G20	7/ 2	57-00	169-31	X18721 Z49887	35	3.8	21.6	16.6	14.4	1.4	54.1	2.0
G20	7/ 2	56-50	169-55	X18648 Z50003	40	4.5	22.5	18.3	71.0	34.4	146.2	23.6
G21	7/ 8	57-00	170-10	X18690 Z50118	36	4.7	36.9	24.4	28.6	3.5	93.4	3.7

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

TABLE 6 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TAINER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FMS	BOTTOM TEMP	NUMBER PER MILE TOWED					TOTAL	PERCENT LEGAL
							MALES (SEE NOTE)	FEMALES	SMALL	PRE-RECRUIT	LEGAL		
G21	7/ 8	56-51	170-26	X18561 Z50120	53	3.7	3.9	75.7	47.4	4.6	131.6	3.5	
G22	7/ 8	57-00	170-47	0	53	3.9	1.3	17.0	4.6	0.0	22.8	0.0	
G23	7/ 9	56-58	171-24	X18264 Y35004	60	3.7	44.2	24.7	13.9	1.3	84.0	1.5	
G24	7/ 9	57-00	171-58	X18053 Y34909	65	3.8	100.2	42.8	28.3	4.8	176.2	2.7	
G25	7/18	57-00	172-41	X17770 Y34803	66	3.8	411.2	48.7	28.2	0.8	488.8	0.2	
G26	7/18	57-01	173-16	X17543 Y34715	76	4.1	14.9	39.0	0.0	0.0	53.9	0.0	
H01	6/30	57-22	167-44	Y34489 Z49155	39	3.0	0.6	1.2	0.0	0.6	2.4	25.0	
H02	6/29	57-20	167-08	Y 0 Z 0	40	2.5	0.0	1.4	0.7	0.0	2.1	0.0	
H05	6/20	57-21	165-14	Y34010 Z48161	37	.0	0.0	1.4	1.4	0.0	1.4	0.0	
H07	6/17	57-19	163-59	Y33799 Z47859	34	- .9	0.0	0.0	0.7	0.0	0.7	0.0	
H08	6/11	57-20	163-24	Y33690 Z47420	31	.3	1.4	1.4	0.0	0.7	3.5	20.1	
H09	6/15	57-20	162-46	Y33588 Z47166	26	.7	2.3	5.6	3.4	1.7	13.0	13.0	
H10	6/ 9	57-20	162-09	Y33496 Z46920	29	.5	0.0	2.7	1.3	2.0	6.0	33.3	
H11	6/14	57-19	161-34	Y33411 Z46690	30	.5	38.9	13.8	6.3	1.3	60.3	2.1	
H12	6/ 7	57-20	160-56	Y33315 Z46433	36	.6	2.0	0.0	0.7	1.3	4.0	33.4	
H13	6/ 1	57-18	160-17	Y33236 Z46176	33	.0	7.5	3.4	2.7	8.9	22.6	39.4	
H14	6/ 5	57-19	159-39	Y33151 Z45921	32	.6	37.5	55.8	13.9	0.7	108.7	0.7	
H15	5/31	57-20	159-05	Y33070 Z45690	25	.6	1.9	1.9	0.6	0.0	4.4	0.0	
H18	6/30	57-10	168-37	Y34639 Z49416	42	3.4	0.7	0.0	0.0	0.0	0.7	0.0	
H19	7/ 3	57-08	169-19	Y34927 Z49811	39	3.4	2.8	20.6	1.4	0.0	24.8	0.0	
H20	7/ 3	57-18	169-01	Y34788 Z49671	39	3.5	4.6	6.4	4.6	1.8	17.4	10.5	
H21	7/ 3	57-18	169-36	0	34	3.7	6.3	4.7	6.3	0.8	18.2	4.3	
H22	7/ 3	57-08	169-54	0	25	2.2	3.2	3.2	0.0	0.0	6.3	0.0	
H23	7/ 9	57-18	171-27	X18746 Z50042	47	4.4	7.0	16.0	5.6	1.4	30.7	4.5	
H24	7/ 9	57-19	172-05	0	55	3.8	0.7	2.1	1.4	0.7	5.0	14.3	
H25	7/18	57-19	172-43	X18288 Y34877	61	4.2	0.0	0.0	8.4	0.0	8.4	0.0	
H26	7/18	57-20	173-16	Y34779 X18044	62	4.2	31.4	18.7	13.4	0.7	64.2	1.0	
I03	6/27	57-44	167-08	X17802 Y34691	38	2.1	103.4	24.3	21.1	0.0	84.4	0.0	
I05	6/19	57-40	166-31	X17594 Y34606	36	1.3	0.0	0.0	8.9	0.0	136.5	0.0	
I06	6/14	57-39	165-14	Y34087 Z48638	33	.4	0.0	0.0	0.7	0.0	0.7	0.0	
I07	6/18	57-39	163-59	Y33875 Z48139	28	.7	0.0	7.2	0.6	0.0	9.8	0.0	
I08	6/10	57-41	163-23	Y33775 Z47892	26	.7	2.0	8.7	0.6	0.0	10.7	0.0	
I09	6/15	57-42	162-45	Y33559 Z47402	23	.7	1.3	8.7	0.6	0.0	10.7	0.0	
I11	6/14	57-39	161-28	Y33453 Z47149	29	1.8	1.7	4.6	4.0	0.6	7.5	7.7	
I12	6/ 7	57-40	160-53	Y33282 Z46644	32	.7	7.4	4.7	6.3	1.3	16.4	7.7	
I13	6/ 1	57-38	160-15	Y33191 Z46407	29	.9	5.7	3.2	8.2	2.3	68.8	3.4	
I14	6/ 5	57-39	159-38	Y33117 Z46157	30	.3	17.5	40.8	0.0	0.0	8.2	0.0	
I18	6/30	57-40	168-25	Y33035 Z45910	40	2.5	3.7	4.6	0.0	0.0	0.0	0.0	
I18	6/30	57-30	168-38	Y34485 Z49376	40	3.1	0.0	0.0	0.6	0.0	0.6	0.0	
I19	7/ 3	57-29	169-17	Y34614 Z49492	38	3.7	0.6	1.9	0.6	0.6	3.8	16.7	
I19	7/ 3	57-40	169-04	Y34754 Z49742	37	2.7	0.6	0.6	0.6	0.6	1.9	0.0	
I20	7/ 3	57-39	169-40	Y34610 Z49617	40	2.9	0.0	0.0	0.0	0.0	0.0	0.0	
I20	7/ 3	57-39	169-40	Y34708 Z49818	40	2.9	0.0	0.0	0.0	0.0	0.0	0.0	

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

TABLE 6 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRD TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED					TOTAL	PERCENT LEGAL
							MALES (SEE NOTE)						
							FEMALES	SMALL	PRERECRUIT	LEGAL			
I20	7/ 3	57-29	169-58	Y34868	Z49970	42	2.6	2.0	2.7	2.0	0.7	7.3	9.1
I21	7/ 7	57-41	170-17	X18607	Y34748	39	3.2	1.7	1.7	0.0	0.0	3.3	0.0
I21	7/ 7	57-30	170-33	X18588	Y34869	40	3.7	0.0	0.0	0.0	0.0	0.0	0.0
I22	7/ 8	57-39	170-53	Y34747	Z50052	50	3.4	0.0	1.5	0.7	0.0	2.2	0.0
I23	7/ 9	57-40	171-30	X18260	Z50085	54	3.2	2.1	10.0	5.0	5.0	22.1	22.6
I24	7/ 9	57-39	172-09	Y 0 X 0		60	3.5	16.4	6.9	4.1	0.7	28.1	2.4
I25	7/13	57-44	172-48	X17793	Y34490	66	3.5	163.5	28.1	29.3	1.9	222.8	0.9
I26	7/18	57-39	173-22	X17582	Y34461	78	.	230.9	76.2	30.8	1.3	339.2	0.4
J02	6/29	57-59	167-10	Y34074	Z48845	37	1.3	0.0	0.0	0.0	0.0	0.7	0.0
J04	6/17	57-59	165-54	Y33848	Z48362	32	1.0	0.0	2.0	0.0	0.0	2.0	0.0
J06	6/14	57-59	164-37	Y33631	Z47868	26	.7	0.0	1.4	0.0	0.0	1.4	0.0
J07	6/18	57-58	164-00	Y33533	Z47625	25	1.3	1.3	3.1	0.0	0.0	4.4	0.0
J08	6/10	58-00	163-23	Y33424	Z47384	25	.7	0.0	0.7	0.0	0.0	0.7	0.0
J11	6/14	57-58	161-28	Y33156	Z46634	26	.	0.6	0.6	1.3	0.0	2.5	0.0
J13	6/ 1	57-59	160-12	Y32985	Z46132	27	1.2	1.1	2.2	0.0	0.0	3.4	0.0
J18	6/30	57-50	168-41	Y34440	Z49435	40	2.3	0.7	0.0	0.0	0.0	0.7	0.0
J20	6/26	58-00	168-26	Y34295	Z49306	40	2.2	0.0	0.0	0.0	0.0	0.0	0.0
J20	7/ 4	58-00	169-41	Y34473	Z49699	40	2.4	0.7	0.0	0.0	0.0	0.7	0.0
J20	7/ 3	57-50	169-59	Y34620	Z49838	41	1.3	0.0	0.0	1.4	0.0	1.4	0.0
J21	7/ 6	58-01	170-19	X18520	Y34497	40	1.8	0.0	1.3	0.0	0.0	1.3	0.0
J21	7/ 7	57-51	170-35	X18505	Y34626	42	3.6	0.0	0.0	0.0	0.0	0.0	0.0
J22	7/ 7	58-00	170-58	Y34503	Z49934	50	3.4	0.0	0.7	0.0	0.0	1.4	0.0
J23	7/ 9	57-58	171-35	X18201	Y34488	53	3.2	0.0	1.8	9.3	0.6	11.7	5.0
J24	7/ 9	58-00	172-13	X17991	Z50026	59	3.0	0.0	1.9	1.3	0.6	3.7	16.7
J25	7/19	58-00	172-53	X17765	Y34343	59	3.5	169.8	35.9	18.7	0.7	225.1	0.3
J26	7/19	57-58	173-28	X17559	Y34297	64	3.5	649.8	103.7	34.6	0.0	788.0	0.0
K03	6/28	58-19	166-33	Y33791	Z48562	26	3.3	0.7	0.0	0.0	0.0	0.7	0.0
K04	6/16	58-20	165-55	Y33673	Z48320	75	1.2	0.0	0.6	0.0	0.0	0.6	0.0
K19	7/ 4	58-18	169-07	Y34190	Z49428	37	2.0	0.0	2.4	0.0	0.0	2.4	0.0
K22	7/ 7	58-20	171-01	Y34268	Z49818	48	2.7	0.0	4.1	0.7	0.0	4.8	0.0
K23	7/ 9	58-17	171-38	X18143	Y34277	52	3.3	0.0	6.4	3.5	1.7	11.6	15.0
K24	7/10	58-20	172-18	X17942	Z49936	58	3.2	0.0	5.7	6.4	0.0	12.2	0.0
K25	7/19	58-31	172-56	X17739	Y34145	60	3.2	12.3	6.7	3.6	0.0	22.6	0.0
K26	7/21	58-20	173-35	X17524	Y34092	63	3.3	324.5	110.7	25.3	3.2	463.7	0.7
K27	7/21	58-22	174-17	X17292	Y34012	84	3.7	41.6	28.6	2.8	0.0	73.0	0.0
L04	6/16	58-40	165-55	Y33488	Z48267	21	1.7	0.0	1.5	0.0	0.0	1.5	0.0
L09	6/15	58-39	162-42	Y33027	Z47079	13	2.6	0.0	0.6	0.0	0.0	0.6	0.0
L22	7/ 7	58-40	171-05	X18219	Y34028	47	1.1	0.0	3.3	0.7	0.0	4.6	14.3
L23	7/10	58-41	171-43	X18060	Y34001	51	2.4	0.0	1.3	2.7	0.0	4.0	0.0
L24	7/10	58-39	172-21	Z49844	X17890	59	2.6	0.0	13.8	5.0	0.6	19.5	3.2
L25	7/19	58-38	172-58	X17712	Y33975	61	3.4	0.0	6.0	1.8	0.0	7.8	0.0
L26	7/21	58-40	173-38	X17503	Y33900	69	3.3	107.0	47.2	16.9	0.0	171.1	0.0
L27	7/21	58-40	174-17	X17295	Y33853	85	3.4	1550.0	294.7	129.7	23.6	1997.9	1.2
L28	7/28	58-41	174-59	X17068	Y33784	108	3.5	3.1	1.2	0.0	0.0	4.3	0.0

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



TABLE 6 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LEGAL
								SMALL	PRE-RECRUIT	LEGAL		
L29	7/28	58-40	175-32	X16890 Y33747	74	3.3	1301.9	94.2	15.9	0.7	1412.6	0.0
L30	7/31	58-42	176-18	X16643 Y33672	75	.	2119.5	111.6	0.0	0.0	2231.0	0.0
L31	8/ 1	58-41	176-54	X16444 Y33626	75	3.4	773.4	55.4	2.5	0.0	831.3	0.0
M19	7/ 4	58-59	169-10	Y33719 Z49217	29	3.2	0.0	0.0	0.5	0.0	0.5	0.0
M23	7/10	58-58	171-46	X18003 Y33805	48	1.2	0.0	2.3	1.1	0.0	3.4	0.0
M24	7/10	58-59	172-25	X17833 Z49746	55	2.2	0.0	8.2	2.1	0.0	10.3	0.0
M25	7/20	59-01	173-05	X17647 Y33725	58	3.1	0.6	2.5	1.2	0.0	4.3	0.0
M26	7/21	58-55	173-37	X17498 Y33757	65	3.0	8.8	9.8	4.0	0.0	22.6	0.0
M27	7/23	59-02	174-19	X17281 Y33643	68	4.1	1.4	3.4	0.0	0.0	4.8	0.0
M28	7/27	59-02	175-03	X17057 Y33600	71	2.9	11.4	8.4	1.8	0.0	21.6	0.0
M29	7/28	58-57	175-44	X16840 Y33594	72	3.7	31.9	9.6	3.0	0.0	44.5	0.0
M30	7/31	59-01	176-22	X16649 Y33513	75	.	0.7	1.4	0.0	0.0	2.1	0.0
M31	8/ 1	58-58	177-00	X16444 Y33491	74	3.1	82.9	18.8	1.3	0.0	103.0	0.0
M32	8/ 1	58-59	177-35	X16267 Y33442	75	.	371.8	151.5	13.8	0.0	537.1	0.0
M20	7/ 4	59-19	169-52	Y33521 Z49258	34	1.5	0.0	0.0	0.6	0.0	0.6	0.0
M23	7/10	59-18	171-49	X17940 Y33575	44	.6	0.0	1.2	1.2	0.6	3.0	19.9
M25	7/20	59-19	173-10	X17597 Y33534	55	1.5	0.0	0.6	0.0	0.0	0.6	0.0
M27	7/23	59-19	174-27	X17338 Y33473	65	2.8	0.0	4.8	0.0	0.0	4.8	0.0
M28	7/27	59-20	175-08	X17036 Y33431	73	3.0	0.0	8.4	2.6	0.0	11.0	0.0
M29	7/28	59-19	175-45	X16841 Y33399	75	2.6	0.0	9.1	0.6	0.0	9.7	0.0
M30	7/31	59-22	176-27	X16648 Y33338	75	2.7	0.0	2.3	0.0	0.0	2.3	0.0
M31	8/ 1	59-18	177-09	X16432 Y33326	84	3.0	18.7	11.2	0.0	0.0	29.9	0.0
O25	7/20	59-40	173-15	X17546 Y33307	52	1.4	0.0	0.6	0.6	0.0	1.1	0.0
O27	7/23	59-40	174-28	X17222 Y33267	63	2.4	1.4	1.4	0.7	0.0	3.5	0.0
O28	7/27	59-39	175-10	X17029 Y33247	69	2.8	0.0	2.3	0.8	0.0	3.0	0.0
O29	7/28	59-40	175-55	X16817 Y33204	75	.	0.0	0.6	0.0	0.0	0.6	0.0
O30	7/31	59-40	176-35	X16628 Y33170	74	.	0.0	2.9	1.4	0.0	4.3	0.0
O31	8/ 1	59-37	177-11	X16452 Y33167	100	3.5	6.5	12.4	1.3	0.0	20.2	0.0
P27	7/24	60-00	174-34	X17182 Y33064	58	1.8	0.0	0.6	0.0	0.0	0.6	0.0
P28	7/27	60-00	175-19	X16983 Y33042	64	2.5	0.0	0.0	1.3	0.0	1.3	0.0
P29	7/28	59-57	175-57	X16812 Y33053	72	2.5	0.0	1.3	0.0	0.0	1.3	0.0
P30	7/31	60-02	176-44	X16603 Y32977	77	.	0.0	0.7	0.0	0.0	0.7	0.0
P31	8/ 1	59-57	177-14	X16461 Y32999	75	2.0	0.0	0.6	0.0	0.0	0.6	0.0

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

TABLE 7 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO AND HYBRID TANNER CRAB WERE TAKEN

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LARGE
								SMALL	PRERECRUIT	LARGE		
A02	6/19	55-00	166-56	Y34824 Z48679	87	3.9	0.0	10.0	2.9	0.0	12.9	0.0
A03	6/26	55-00	166-20	X18284 Z48479	78	4.9	1.5	2.9	0.0	0.0	4.4	0.0
A04	6/18	55-00	165-44	Y34652 Z48266	72	4.0	0.0	18.4	4.4	2.2	25.0	8.8
A05	6/21	55-00	165-09	Y34565 Z48059	61	.	0.0	21.9	0.8	0.8	23.4	3.2
R02	6/19	55-19	166-58	Y34798 Z48736	78	4.0	14.4	0.0	0.0	0.7	15.1	4.8
R03	6/26	55-18	166-20	X18367 Z48515	73	4.2	1.9	4.9	0.6	0.0	4.5	0.0
R04	6/18	55-20	165-47	Y34614 Z48316	67	3.9	0.0	4.9	0.0	0.0	4.9	0.0
R05	6/21	55-20	165-09	Y34516 Z48088	61	4.1	0.0	4.6	0.6	0.6	5.9	11.1
R06	6/13	55-19	164-35	Y34428 Z47872	58	3.1	0.0	16.4	2.7	0.0	19.2	0.0
R07	6/16	55-20	163-58	Y34330 Z47643	40	3.7	0.0	9.3	0.0	0.0	9.3	0.0
R08	6/12	55-20	163-25	Y34239 Z47429	30	4.4	0.0	0.7	0.0	0.0	0.7	0.0
C01	7/ 1	55-43	167-32	X18416 Y34843	74	4.1	0.7	1.3	2.0	3.3	7.4	45.5
C02	6/19	55-39	166-58	Y34759 Z48779	75	3.9	1.6	3.3	0.8	1.6	7.3	22.2
C03	6/26	55-38	166-22	X18454 Z48563	70	4.2	1.3	2.7	0.0	0.7	4.7	14.2
C04	6/18	55-40	165-48	Y34564 Z48351	64	3.9	0.0	6.4	1.4	0.0	7.9	0.0
C05	6/21	55-41	165-09	Y34455 Z48105	60	4.8	2.1	12.2	1.4	0.7	16.4	4.4
C06	6/13	55-39	164-34	Y34365 Z47886	55	2.2	0.7	28.6	0.0	0.0	29.3	0.0
C07	6/17	55-38	164-00	Y34274 Z47665	52	2.1	0.0	11.3	2.1	0.0	13.5	0.0
C08	6/12	55-40	163-24	Y34169 Z47431	46	2.5	0.0	21.4	0.7	0.7	22.7	2.9
C09	6/16	55-42	162-49	Y34073 Z47207	28	4.7	0.0	0.7	0.0	0.0	0.7	0.0
C18	7/ 1	55-40	168-11	X18357 Z49204	77	3.9	0.7	0.0	0.0	0.7	1.4	50.0
I01	7/ 1	56-00	167-36	Y34819 X18499	74	4.0	0.8	3.4	1.7	0.0	5.9	0.0
I02	6/19	56-00	167-01	Y34718 Z48839	77	4.0	0.0	4.1	1.6	0.0	5.7	0.0
I03	6/26	55-59	166-24	X18534 Z48603	67	3.9	0.0	2.0	0.0	0.7	2.7	24.9
I04	6/18	56-00	165-47	Y34502 Z48371	60	3.9	0.6	9.1	1.3	2.0	13.1	15.0
I05	6/20	56-00	165-10	Y34393 Z48133	53	1.1	1.3	22.9	0.7	0.7	25.6	2.6
I06	6/13	55-59	164-35	Y34299 Z47903	53	1.7	0.6	13.5	0.0	0.0	14.1	0.0
I07	6/17	56-00	164-00	Y34196 Z47675	49	2.0	0.0	17.5	1.3	0.6	19.4	3.3
I08	6/12	56-00	163-23	Y34094 Z47432	50	2.7	0.0	10.5	0.7	0.0	11.2	0.0
I09	6/16	56-01	162-48	Y33995 Z47201	42	3.2	0.0	9.5	0.6	0.6	10.8	5.9
I10	6/ 8	56-00	162-13	Y33909 Z46974	40	3.0	0.0	2.7	0.0	0.0	2.7	0.0
E01	7/ 1	56-20	167-38	X18587 Y34772	70	3.7	4.7	8.7	0.0	0.0	13.4	0.0
E02	6/19	56-19	167-00	Y34657 Z48864	65	2.5	1.4	7.6	1.4	0.0	10.4	0.0
E03	6/26	56-19	166-24	X18605 Z48631	55	2.6	3.4	42.5	3.4	0.6	49.9	1.1
E04	6/18	56-20	165-47	Y34429 Z48390	52	2.1	0.6	21.4	0.6	0.0	22.7	0.0
E05	6/20	56-20	165-11	Y34319 Z48153	49	1.7	7.4	94.1	7.4	2.2	111.1	2.0
E06	6/13	56-19	164-34	Y34217 Z47908	50	1.8	0.0	19.5	2.1	0.0	21.6	0.0
E07	6/17	56-18	163-59	Y34117 Z47676	47	2.3	0.0	14.4	0.6	1.8	16.8	10.7
E08	6/11	56-20	163-23	Y34009 Z47437	48	1.4	0.0	18.6	2.7	0.7	21.9	3.0
E09	6/16	56-21	162-47	Y33907 Z47197	42	2.7	0.0	5.0	1.1	0.0	6.1	0.0
E10	6/ 8	56-19	162-12	Y33821 Z46961	44	1.7	0.0	14.0	1.3	0.7	16.0	4.2
E11	7/ 2	56-20	161-38	Y33735 Z46734	35	.	0.0	0.7	0.0	0.0	0.7	0.0
E19	7/ 2	56-20	168-52	X18534 Z49554	69	4.1	89.1	12.7	0.7	0.0	102.4	0.0
E21	7/ 8	56-20	170-04	X18405 Z49901	60	4.0	0.0	3.3	1.3	0.0	4.6	0.0
F01	7/ 1	56-40	167-39	X18663 Y34703	54	3.2	77.2	52.1	4.7	1.3	135.3	1.0

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

TABLE 7 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE OFILIO AND HYBRID TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LARGE
								SMALL	PRE-RECRUIT	LARGE		
F02	6/29	56-39	167-04	0	54	2.5	0.0	31.3	1.4	0.0	32.6	0.0
F03	6/27	56-38	166-25	X18664 Z48650	44	3.5	0.6	58.3	3.1	0.6	62.6	1.0
F04	6/17	56-40	165-49	Y34346 Z48409	44	2.0	23.2	45.8	1.3	1.3	71.6	1.8
F05	6/20	56-40	165-11	Y34226 Z48157	41	.9	0.0	42.8	0.7	0.0	43.5	0.0
F06	6/13	56-39	164-36	Y34127 Z47922	43	.3	0.0	33.0	2.8	0.7	36.5	1.9
F07	6/17	56-39	164-00	Y34018 Z47671	41	1.3	0.0	16.0	1.7	0.6	18.2	3.0
F08	6/11	56-40	163-22	Y33908 Z47428	42	.3	0.0	18.9	0.7	0.0	19.5	0.0
F09	6/16	56-41	162-47	Y33809 Z47189	39	.	0.0	12.5	1.3	0.0	13.7	0.0
F10	6/8	56-39	162-11	Y33724 Z46949	41	.2	0.0	13.5	1.3	0.0	14.8	0.0
F11	6/13	56-39	161-34	Y33630 Z46705	48	2.2	0.0	31.4	2.0	0.7	34.1	2.0
F12	6/7	56-40	160-59	Y33536 Z46468	38	.7	0.0	1.3	0.0	0.7	2.0	33.2
F13	6/1	56-40	160-20	Y33447 Z46211	32	.4	0.0	0.0	0.8	0.0	0.8	0.0
F18	7/1	56-39	168-19	0	60	2.7	848.0	67.9	10.6	0.8	927.2	0.1
F19	7/2	56-39	168-53	X18635 Z48610	54	3.2	1018.6	165.1	21.8	1.3	1206.9	0.1
F21	7/8	56-40	170-08	X18543 Z50009	52	4.0	0.0	16.2	10.3	0.7	27.2	2.7
F22	7/8	56-40	170-44	X18402 Z35126	64	3.9	0.7	1.4	0.0	0.0	2.1	0.0
F23	7/9	56-39	171-19	X18201 Z50144	65	3.8	2.0	0.0	0.0	0.7	2.7	25.1
G01	7/1	56-59	167-42	X18713 Y34627	42	3.3	211.2	77.6	0.7	1.3	290.8	0.5
G02	6/29	57-00	167-04	0	42	3.0	2.2	57.7	0.0	0.0	59.9	0.0
G03	6/27	56-58	166-27	X18709 Z48663	40	2.1	2.6	200.7	3.9	0.0	207.2	0.0
G04	6/17	57-00	165-51	Y34246 Z48419	41	1.7	0.0	25.5	2.2	0.0	27.7	0.0
G05	6/20	57-01	165-12	Y34124 Z48161	38	.0	1.2	26.2	0.6	0.0	28.0	0.0
G06	6/13	56-59	164-36	Y34022 Z47916	40	.2	0.0	11.4	0.7	0.0	12.0	0.0
G07	6/17	57-00	163-59	Y33911 Z47670	37	-.2	0.6	15.1	1.2	0.0	16.8	0.0
G08	6/11	57-01	163-23	Y33804 Z47428	38	.5	0.7	20.7	2.0	0.7	24.1	2.8
G09	6/15	57-01	162-46	Y33704 Z47181	33	.5	0.0	14.1	2.5	1.8	18.4	10.0
G10	6/8	56-59	162-10	Y33616 Z46937	34	.0	1.5	5.1	2.2	0.0	8.7	0.0
G11	6/14	56-59	161-35	Y33528 Z46700	38	.7	0.0	6.0	0.6	1.2	7.7	15.4
G12	6/7	57-00	160-57	Y33426 Z46445	36	-.3	0.0	1.4	0.0	0.0	1.4	0.0
G18	7/1	56-51	168-38	Y34863 Z49535	53	2.8	1524.1	141.4	20.7	0.8	1687.0	0.0
G18	6/30	57-00	168-20	Y34752 Z49417	40	3.1	245.9	159.6	6.9	0.0	413.1	0.0
G19	7/2	56-49	169-19	X18675 Z49791	42	3.4	142.5	74.9	6.6	2.0	226.1	0.9
G19	7/2	56-58	168-59	X18715 Z49678	43	3.5	2.1	73.0	6.4	0.7	82.2	0.9
G20	7/2	57-00	169-31	X18721 Z49887	35	3.8	87.2	118.3	10.8	1.4	217.8	0.7
G20	7/2	56-50	169-55	X18648 Z50003	40	4.5	1.4	2.8	2.8	0.7	7.7	9.0
G21	7/8	56-51	170-26	X18561 Z50120	53	3.7	0.0	0.0	0.0	0.0	0.0	0.0
G21	7/8	57-00	170-10	X18690 Z50118	36	4.7	0.0	4.9	2.1	0.7	7.7	9.1
G22	7/8	57-00	170-47	0	53	3.9	12.4	24.8	18.9	2.6	58.7	4.4
G23	7/9	56-58	171-24	X18264 Y35004	60	3.7	458.5	93.6	13.3	3.2	568.6	0.6
G24	7/9	57-00	171-58	X18053 Y34909	65	3.8	1636.4	57.4	12.4	1.4	1707.6	0.1
G25	7/18	57-00	172-41	X17770 Y34803	66	3.8	3.0	0.8	0.0	1.5	5.3	28.5
G26	7/18	57-01	173-16	X17543 Y34715	76	4.1	0.0	0.7	0.0	0.0	0.7	0.0
H01	6/30	57-22	167-44	Y34489 Z49155	39	3.0	12.6	174.7	3.6	0.0	190.9	0.0
H02	6/29	57-20	167-08	Y 0 Z 0	40	2.5	2.1	34.4	1.4	0.0	38.0	0.0
H03	6/27	57-18	166-28	X18738 Z48657	37	2.1	1.3	21.4	0.0	0.0	22.7	0.0

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

TABLE 7 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO AND HYBRID TANNER CRAB WERE TAKEN (CONTINUE 0)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LARGE
								SMALL	PRE-RECRUIT	LARGE		
H04	6/17	57-20	165-52	Y34128 Z48413	39	.7	0.0	16.0	0.0	0.0	16.0	0.0
H05	6/20	57-21	165-14	Y34010 Z48161	37	.0	0.0	22.9	3.6	0.7	27.2	2.6
H06	6/14	57-19	163-37	Y33005 Z47909	38	.5	0.7	34.2	4.9	4.9	44.6	10.9
H07	6/17	57-19	163-59	Y33799 Z47659	34	.9	7.4	39.4	4.7	2.7	54.2	4.9
H08	6/11	57-20	163-24	Y33690 Z47420	31	.3	0.7	34.8	7.0	0.0	42.5	0.0
H09	6/15	57-20	162-46	Y33588 Z47166	26	.7	0.0	9.0	2.8	0.6	12.4	4.5
H10	6/9	57-20	163-09	Y33496 Z46920	29	.5	0.0	1.3	0.0	0.7	2.0	33.2
H11	6/12	57-19	161-34	Y33411 Z46690	30	.5	0.0	3.1	0.0	0.0	3.1	0.0
H12	6/7	57-20	160-56	Y33315 Z46433	36	.6	0.0	0.0	0.7	0.0	0.7	0.0
H13	6/1	57-18	160-17	Y33236 Z46176	33	.0	0.0	0.7	0.0	0.0	0.7	0.0
H18	6/30	57-10	168-37	0	43	3.4	165.2	344.6	21.3	0.0	431.1	0.0
H18	6/30	57-10	168-23	Y34639 Z49416	42	3.4	4.7	37.4	1.3	0.0	43.5	0.0
H18	6/30	57-20	168-23	Y34627 Z47811	39	3.5	105.1	195.1	8.2	0.9	219.3	0.4
H19	7/3	57-08	169-19	Y34788 Z49671	39	3.7	7.9	15.0	2.4	0.0	25.3	0.0
H19	7/3	57-18	169-01	Y34788 Z49671	39	3.7	209.7	51.9	4.4	0.0	266.0	0.0
H20	7/3	57-19	169-36	0	34	2.2	0.0	1.4	0.7	0.0	2.1	0.0
H20	7/3	57-08	169-54	X18746 Z50042	25	4.4	0.0	10.0	0.7	0.0	47.2	0.0
H21	7/7	57-21	170-16	X18692 Z49885	31	5.0	36.5	436.2	0.7	0.0	752.1	0.0
H22	7/8	57-21	170-56	0	47	3.8	7000.1	436.2	55.8	0.0	7502.1	0.0
H23	7/9	57-18	171-27	X18288 Z48777	55	3.4	3443.4	262.2	13.9	2.8	3722.4	0.1
H24	7/9	57-19	172-05	Y33779 X19044	61	3.7	2689.8	74.2	9.4	0.0	2773.3	0.0
H24	7/18	57-20	173-16	X17994 Y34006	65	.	25.4	0.0	0.0	0.0	25.4	0.0
H24	7/18	57-41	167-45	Y34348 Z49122	37	3.2	3.0	65.4	0.0	0.0	68.4	0.0
H01	6/30	57-40	167-06	0	78	2.1	2.1	43.0	0.0	0.0	46.0	0.0
H02	6/29	57-44	166-31	Y34667 Z48653	54	1.3	0.0	22.3	1.2	0.0	24.0	0.0
H03	6/27	57-40	165-53	Y33993 Z48392	36	.2	0.0	32.7	2.0	0.7	25.4	2.6
H04	6/17	57-40	165-14	Y33875 Z48139	33	.	2.4	155.8	40.2	6.3	204.7	3.1
H05	6/19	57-39	166-37	Y33775 Z47982	31	.4	2.7	351.7	189.9	28.1	572.3	4.9
H06	6/14	57-39	163-56	Y33671 Z47643	28	.7	7.2	186.7	43.3	7.8	265.0	3.0
H07	6/18	57-39	163-56	Y33559 Z47402	26	.7	0.0	84.9	33.4	3.3	121.7	2.8
H08	6/10	57-41	163-23	Y33453 Z47149	26	.7	0.0	0.6	0.0	0.0	0.6	0.0
H09	6/15	57-42	163-45	Y33292 Z46644	24	1.6	0.0	1.3	0.0	0.0	1.3	0.0
H10	6/18	57-39	161-29	Y33191 Z46307	32	.7	0.0	0.6	0.0	0.0	0.6	0.0
H11	6/7	57-40	160-53	Y34485 Z49376	40	3.5	11.2	112.2	3.5	0.7	127.5	0.5
H12	6/30	57-40	168-29	Y34614 Z49492	40	3.1	1.9	24.6	1.9	0.0	28.5	0.0
H13	6/30	57-39	168-38	Y34754 Z49742	38	2.7	115.8	127.1	0.0	0.0	242.9	0.0
H14	7/3	57-40	169-04	Y34610 Z47617	37	3.7	0.0	0.0	0.0	0.0	0.0	0.0
H15	7/3	57-39	169-58	Y34610 Z47617	38	3.7	527.6	59.7	6.6	0.0	594.0	0.0
H16	7/3	57-39	169-58	Y34610 Z47617	47	2.6	2.0	32.6	1.3	0.0	35.9	0.0
H17	7/3	57-39	169-40	Y34608 Z4818	40	2.9	2222.6	387.3	0.0	0.0	2609.9	0.0
H18	7/3	57-39	169-34	X19068 Z49359	40	3.7	224.7	118.1	3.3	0.0	346.1	0.0
H19	7/7	57-41	170-17	X18997 Z49748	59	3.2	465.8	18.2	3.6	0.0	487.6	0.1
H20	7/8	57-39	170-56	Y34747 Z49052	50	3.4	154.6	24.9	19.9	0.0	199.4	0.0
H21	7/9	57-40	171-50	X18900 Z49085	54	3.2	1827.1	84.3	10.3	0.0	1931.7	0.0
H22	7/9	57-39	170-08	0	60	3.5	246.7	39.5	1.3	2.5	290.1	0.9
H23	7/13	57-43	172-46	X18903 Z49490	66	3.5	246.7	39.5	1.3	2.5	290.1	0.9

TABLE 7. DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO AND HYBRID TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LUSON C.	DEPTH FTs	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			PERCENT LARGE	
								SMALL	PRE-RECRUIT	LARGE		TOTAL
								MALES (SEE NOTE)				
I26	7/18	57-39	173-00	X17582 Y34461	78		1128.9	16.0	6.0	0.7	1151.6	0.1
J01	6/30	58-02	167-47	X18726 Z49065	36	2.1	8.8	123.4	1.8	0.0	133.9	0.0
J02	6/29	57-59	167-10	Y34674 Z48845	37	1.3	2.7	60.7	1.3	0.0	64.7	0.0
J03	6/27	57-50	166-30	Y32953 Z48600	33	1.3	0.0	127.7	19.4	3.3	150.4	2.2
J04	6/17	57-59	165-54	Y33848 Z48362	32	1.0	2.0	511.5	60.2	16.0	589.7	2.7
J05	6/19	58-00	165-14	Y33725 Z48107	27	1.1	3.0	375.8	91.7	11.8	491.2	2.4
J06	6/14	57-59	164-37	Y33631 Z47638	26	1.7	2.8	948.1	63.6	11.1	1025.5	1.1
J07	6/18	57-58	164-00	Y33533 Z47625	25	1.3	0.6	43.3	12.6	1.3	57.8	2.2
J08	6/10	58-00	163-23	Y33424 Z47384	25	1.7	0.0	1.3	0.0	0.0	1.3	0.0
J18	6/30	57-50	168-41	Y34449 Z49435	40	2.3	23.4	79.4	2.1	0.7	105.6	0.7
J18	6/26	56-00	168-20	Y34295 Z48506	40	2.2	144.4	86.5	0.7	0.0	231.7	0.0
J19	7/ 3	57-49	169-18	Y34552 Z48650	35	3.3	2.5	32.8	1.9	0.0	37.1	0.0
J19	7/ 4	58-00	169-02	Y34389 Z49508	39	2.0	4.5	62.2	3.2	0.0	69.9	0.0
J20	7/ 4	58-00	169-41	Y34473 Z49699	40	2.4	47.7	39.8	0.7	0.0	88.9	0.0
J20	7/ 3	57-50	169-59	Y34620 Z49638	41	1.3	191.3	150.0	1.4	0.0	342.8	0.0
J21	7/ 7	57-51	170-35	X18505 Y34626	42	3.6	803.8	361.0	0.0	0.0	1164.9	0.0
J21	7/ 6	58-01	170-19	X18520 Y34497	40	1.8	70.0	216.4	0.0	0.0	286.5	0.0
J22	7/ 7	58-00	170-58	Y34503 Z49534	50	3.4	1281.1	227.0	0.0	0.0	1508.1	0.0
J23	7/ 9	58-00	171-35	X18201 Y34488	53	3.2	1946.3	299.2	12.2	0.0	2257.7	0.0
J24	7/ 9	58-00	172-13	X17991 Y50026	59	3.0	944.7	67.3	17.4	5.6	1035.2	0.5
J25	7/19	58-00	172-53	X17765 Y34343	59	3.5	149.8	14.2	6.0	3.7	173.7	2.2
J26	7/19	57-58	173-28	X17559 Y34297	64	3.5	190.2	7.6	2.8	0.0	201.2	0.3
K01	6/30	58-21	167-50	Y33982 Z49008	32	1.7	351.1	1270.2	103.3	15.5	1740.1	0.9
K02	6/28	58-21	167-11	Y33880 Z48784	29	3.0	0.0	493.4	56.2	24.1	573.7	4.2
K03	6/28	58-19	166-33	Y33791 Z48562	26	3.3	0.0	105.3	5.4	6.1	116.9	5.2
K04	6/16	58-30	165-55	Y33673 Z48320	75	1.2	23.5	1848.4	88.8	10.4	1971.1	0.5
K04	6/17	58-30	165-17	Y33568 Z48084	24		0.7	240.9	18.9	3.6	264.2	1.4
K06	6/14	58-19	164-37	Y33477 Z47839	25	1.1	0.0	33.4	4.7	0.0	38.1	0.0
K18	6/26	58-17	168-28	Y34096 Z49226	35	1.3	11.4	90.3	2.0	0.0	103.6	0.0
K19	7/ 4	58-18	169-07	Y34190 Z49428	37	2.0	50.6	436.2	226.6	16.9	730.3	2.3
K20	7/ 4	58-19	169-43	Y34243 Z49586	39	1.7	356.7	228.9	0.0	0.0	585.6	0.0
K21	7/ 6	58-21	170-23	X18434 Y34254	40	2.7	80.1	698.2	6.4	0.0	784.7	0.0
K22	7/ 7	58-20	171-01	Y34268 Z49818	48	2.7	4.8	82.2	2.0	0.0	89.0	0.0
K23	7/ 9	58-17	171-38	X18143 Y34277	52	3.3	140.8	221.2	9.3	0.0	371.3	0.0
K24	7/10	58-20	172-18	X17942 Z49936	58	3.2	15.7	26.5	4.3	0.0	46.5	0.0
K25	7/19	58-21	172-56	X17739 Y34145	60	3.2	8.2	2.1	3.0	1.0	12.3	8.3
K26	7/21	58-22	174-17	X17524 Y34092	63	3.3	103.7	18.2	3.2	2.4	127.4	1.9
L01	6/20	58-41	167-52	Y33777 Z48934	25	3.3	2.8	1.9	0.9	0.0	5.5	0.0
L02	6/28	58-40	167-13	Y33688 Z48724	23	3.1	7.9	79.8	4.2	1.2	93.1	1.3
L03	6/28	58-39	166-34	X18698 Z48501	23	3.0	50.3	1264.3	16.8	0.0	1331.4	0.0
L04	6/16	58-40	165-55	Y33488 Z48267	21	1.7	0.0	15.4	3.0	1.5	19.9	7.7
L18	6/26	58-39	168-29	Y33879 Z49134	31	2.7	10.7	385.4	55.1	1.4	452.7	0.3
L19	7/ 4	58-38	169-08	Y33961 Z49324	34	1.7	687.3	475.3	56.2	3.6	1222.4	0.3

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



TABLE 7 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE OFILIO AND HYBRID TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LARGE	
								SMALL	PRERECRUIT	LARGE			
MALES (SEE NOTE)													
L20	7/ 4	58-39	169-46	Y34006	Z49476	38	.0	257.4	822.4	120.9	18.1	1218.8	1.5
L21	7/ 6	58-41	170-26	X18352	Y34013	40	.9	912.8	543.9	18.8	0.0	1475.5	0.0
L22	7/ 7	58-40	171-05	X18219	Y34028	47	1.1	668.5	118.1	5.3	0.7	792.5	0.1
L23	7/10	58-41	171-43	X18060	Y34001	51	2.4	6.0	155.8	4.7	0.0	166.5	0.0
L24	7/10	58-39	172-21	Z49844	X17890	59	2.6	0.0	14.4	1.9	1.9	18.2	10.3
L25	7/19	58-38	172-58	X17712	Y33975	61	3.4	499.5	2.4	0.6	0.0	3.0	0.0
L26	7/21	58-40	173-38	X17503	Y33900	69	3.3	919.2	90.7	20.0	10.9	621.0	1.8
L27	7/21	58-40	174-17	X17295	Y33853	85	3.4	851.2	19.2	1.5	0.0	939.8	0.0
L29	7/28	58-40	175-32	X16890	Y33747	74	3.3	1918.7	6.6	0.7	0.7	859.2	0.1
L30	7/31	58-42	176-18	X16643	Y33672	75	.	478.7	22.3	0.0	0.0	1941.0	0.0
L31	8/ 1	58-41	176-54	X16444	Y33626	75	3.4	100.9	5.0	0.0	0.6	484.4	0.1
M01	6/30	59-00	167-52	Y33563	Z48848	22	3.0	2361.8	2361.8	0.0	0.0	2462.6	0.0
M02	6/28	59-00	167-14	Y33481	Z48651	23	3.0	0.0	2.0	0.0	0.0	2.0	0.0
M03	6/28	58-58	166-34	X18662	Z48439	19	3.4	1.6	13.3	0.0	0.0	14.9	0.0
M04	6/16	59-01	165-55	Y33029	Z48211	17	2.2	0.0	0.0	0.0	0.7	0.7	100.0
M18	6/26	58-59	168-31	Y33654	Z49042	27	2.4	70.7	856.3	13.6	0.0	940.6	0.0
M19	7/ 4	58-59	169-10	Y33719	Z49217	29	3.2	117.7	398.7	9.4	1.6	527.5	0.3
M20	7/ 4	58-59	169-50	Y33765	Z49369	36	2.0	229.1	515.6	32.6	3.3	783.9	0.4
M21	7/ 6	59-01	170-29	Y33770	Z49484	39	.4	254.4	917.9	99.5	7.4	1279.2	0.6
M22	7/ 7	59-01	171-08	X18146	Y33789	44	.6	262.2	273.3	30.4	3.8	569.7	0.7
M23	7/10	58-58	171-46	X18003	Y33805	48	1.2	5.7	503.6	86.2	9.1	604.6	1.5
M24	7/10	58-59	172-25	X17833	Z49746	55	2.2	462.0	58.2	8.2	6.2	534.7	1.2
M25	7/20	59-01	173-05	X17647	Y33725	58	3.0	26.0	3.1	1.9	0.0	30.9	0.0
M26	7/21	58-55	173-37	X17498	Y33757	65	3.0	1058.1	208.2	48.3	10.4	1325.0	0.8
M27	7/23	59-02	174-19	X17281	Y33643	68	4.1	4.1	0.7	0.0	0.0	4.8	0.0
M28	7/27	59-02	175-03	X17057	Y33600	71	2.9	16.2	7.2	1.2	0.0	24.6	0.0
M29	7/28	58-57	175-44	X16840	Y33594	72	3.7	38.5	10.4	1.5	5.2	55.6	9.3
M30	7/31	59-01	176-22	X16649	Y33513	75	.	2.8	1.4	0.0	0.0	4.2	0.0
M31	8/ 1	58-58	177-00	X16444	Y33491	74	3.1	117.9	60.9	6.5	11.7	196.9	5.9
M32	8/ 1	58-59	177-35	X16267	Y33442	75	.	991.5	27.5	0.0	0.0	1019.1	0.0
N18	6/26	59-20	168-33	Y33409	Z48942	24	2.2	246.9	1183.4	0.0	0.0	1430.3	0.0
N19	7/ 4	59-18	169-13	Y33485	Z49119	27	2.5	22.4	387.5	3.7	0.0	413.6	0.0
N20	7/ 4	59-19	169-52	Y33521	Z49258	34	1.5	149.9	377.7	7.6	3.8	538.9	0.7
N21	7/ 6	59-21	170-32	Y33524	Z49375	37	1.2	100.7	675.4	56.6	4.0	836.8	0.5
N22	7/ 7	59-20	171-11	X18074	Y33551	43	.2	145.8	933.3	71.8	0.0	1150.9	0.0
N23	7/10	59-18	171-49	X17940	Y33575	44	.6	205.9	545.9	93.0	19.1	863.8	2.2
N24	7/10	59-19	172-29	Z49648	X17775	50	1.2	2884.1	208.0	0.7	0.0	3092.8	0.0
N25	7/20	59-19	173-10	X17597	Y33534	55	1.5	11.4	3.6	0.0	0.0	15.0	0.0
N26	7/20	59-18	173-48	X17424	Y33515	61	2.3	1467.0	287.0	8.0	4.0	1766.0	0.2
N27	7/23	59-19	174-27	X17238	Y33473	65	2.8	0.6	0.0	0.6	0.0	1.2	0.0
N28	7/27	59-20	175-08	X17036	Y33431	73	3.0	643.9	31.7	7.1	5.2	687.9	0.8
N29	7/28	59-19	175-45	X16841	Y33399	75	2.6	9.7	9.7	1.8	2.4	23.6	10.3
N30	7/31	59-22	176-27	X16648	Y33338	75	2.7	0.8	3.0	0.0	5.3	9.1	58.3
N31	8/ 1	59-18	177-09	X16432	Y33326	84	3.0	64.8	1.3	0.0	0.0	66.0	0.0
002	6/27	59-40	167-18	Y33045	Z48503	18	4.3	0.0	0.7	0.0	0.0	0.7	0.0

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

TABLE 7 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE OFILIO AND HYBRID TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LARGE
								SMALL	PRE-RECRUIT	LARGE		
018	6/27	59-39	168-37	Y33182 Z48861	22	2.2	2.1	6.4	0.0	0.0	8.6	0.0
019	7/ 4	59-39	169-15	Y33242 Z49017	26	2.1	0.5	9.1	0.0	0.0	9.7	0.0
020	7/ 4	59-39	169-53	Y33274 Z49149	32	1.5	199.7	726.0	0.0	0.0	925.6	0.0
021	7/ 5	59-40	170-35	Y33291 Z49271	36	.0	83.7	181.1	4.5	2.3	271.6	0.8
022	7/ 5	59-40	171-14	X18005 Y33308	41	-1.3	745.1	231.3	10.7	0.0	987.1	0.0
023	7/10	59-38	171-53	X17876 Y33341	42	1.6	41.8	244.1	25.7	1.3	312.9	0.4
024	7/10	59-39	172-33	X17718 Z49549	47	.0	3.9	8.5	0.0	0.6	13.1	5.0
025	7/20	59-40	173-15	X17546 Y33307	52	1.4	44.2	11.6	2.2	0.0	58.0	0.0
026	7/11	59-40	173-52	X17382 Y33385	59	1.9	64.1	7.8	0.6	0.6	73.2	0.9
027	7/23	59-40	174-28	X17222 Y33267	63	2.4	1.4	4.1	0.7	0.0	6.2	0.0
028	7/27	59-39	175-10	X17029 Y33247	69	2.8	0.8	5.3	0.0	0.0	6.1	0.0
029	7/28	59-40	175-55	X16817 Y33204	75	.	0.0	0.6	0.0	0.0	0.6	0.0
030	7/31	59-40	176-35	X16628 Y33170	74	.	0.0	5.0	8.7	12.3	26.0	47.2
031	8/ 1	59-37	177-11	X16452 Y33167	100	3.5	2.0	2.0	0.0	0.0	3.9	0.0
F18	6/27	59-59	168-39	Y32948 Z48771	20	2.3	1.3	5.3	0.0	0.0	6.7	0.0
F19	7/ 5	59-59	169-18	Y32996 Z48921	25	2.3	330.4	1593.9	0.0	0.0	1924.3	0.0
F20	7/ 5	59-59	169-58	Y33031 Z49053	31	1.5	0.7	11.2	0.0	0.0	11.9	0.0
F21	7/ 5	60-01	170-37	Y33048 Z49168	35	-1.6	24.8	209.3	0.0	0.0	234.1	0.0
F22	7/ 5	60-00	171-18	X17938 Y33074	39	-1.2	266.1	136.1	0.7	0.0	402.9	0.0
F23	7/10	59-57	171-57	X17815 Y33120	36	1.5	2.2	36.7	19.2	0.6	58.7	0.9
F24	7/10	59-59	172-39	X17658 Z49454	38	.0	69.6	114.3	1.4	1.4	186.7	0.7
F25	7/12	59-58	173-16	X17512 Y33107	42	.4	10.3	452.3	0.0	0.0	462.6	0.0
F26	7/11	60-00	173-57	X17341 Y33075	55	1.2	13.0	24.5	13.0	16.6	67.1	24.7
F27	7/24	60-00	174-34	X17182 Y33064	58	1.8	13.7	13.7	3.1	1.3	31.8	3.9
F28	7/27	60-00	175-19	X16983 Y33042	64	2.5	7.1	13.6	0.0	1.3	22.0	5.9
F29	7/28	59-57	175-57	X16812 Y33053	72	2.5	12.7	14.0	0.6	0.6	28.0	2.3
F30	7/31	60-02	176-44	X16603 Y32977	77	.	0.0	0.7	1.4	0.7	2.9	25.0
F31	8/ 1	59-57	177-14	X16461 Y32999	75	2.0	0.0	0.6	0.0	0.0	0.6	0.0
Q18	6/27	60-19	168-40	Y32709 Z48680	21	2.9	7.8	34.0	0.0	0.0	41.8	0.0
Q19	7/ 5	60-17	169-20	Y32772 Z48831	23	2.6	25.0	90.8	0.0	0.0	115.7	0.0
Q20	7/ 5	60-19	169-57	Y32793 X18114	29	1.8	124.6	73.0	0.0	0.0	197.5	0.0
Q21	7/ 5	60-20	170-37	Y32815 Z49065	33	-1.7	4.7	13.0	0.0	0.0	17.8	0.0
Q22	7/ 5	60-20	171-21	X17879 Y32839	38	-1.6	245.5	62.5	0.6	0.0	308.6	0.0
Q23	7/11	60-22	172-11	X17709 Y32835	32	-1.0	1.3	2.6	0.0	0.0	3.9	0.0
Q25	7/12	60-19	173-23	X17454 Y32883	33	1.0	0.0	2.4	0.0	0.0	2.4	0.0
Q26	7/12	60-20	174-04	X17292 Y32870	51	.5	2.1	23.7	0.7	2.8	29.3	9.5
Q27	7/24	60-19	174-43	X17133 Y32867	56	1.3	84.5	2.8	0.6	0.0	87.9	0.0
Q28	7/27	60-16	175-22	X16970 Y32887	61	2.4	0.0	4.3	3.8	0.0	8.1	0.0
Q29	7/29	60-18	176-03	X16792 Y32855	67	2.6	5.2	64.1	14.9	0.6	84.8	0.8
Q30	7/30	60-20	176-45	X16610 Y32818	75	2.1	4.4	1.3	1.3	0.0	6.9	0.0
R23	7/11	60-35	172-06	X17699 Y32684	34	-1.9	137.2	104.8	0.0	0.0	242.0	0.0
R24	7/11	60-40	172-43	X17565 Y32645	25	1.9	22.3	32.8	0.0	0.0	55.0	0.0
R25	7/12	60-38	173-19	X17438 Y32671	33	2.2	9.2	9.2	0.0	0.0	18.4	0.0
R26	7/11	60-39	174-08	X17255 Z49403	49	1.1	205.2	751.5	0.0	0.0	956.7	0.0
R27	7/24	60-41	174-48	X17098 Y32644	52	.7	746.9	596.5	14.5	0.0	1358.0	0.0

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

TABLE 7 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO AND HYBRID TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED					TOTAL	PERCENT LARGE
							FEMALES	MALES (SEE NOTE)					
								SMALL	PRERECRUIT	LARGE			
R28	7/26	60-40	175-27	X16834	Y32658	59	2.0	3.9	59.9	21.3	7.8	92.9	8.4
R29	7/29	60-39	176-15	X16750	Y32658	65	2.2	33.8	366.3	18.7	0.0	418.8	0.0
R30	7/30	60-40	176-50	X16602	Y32635	71	.	12.6	27.4	5.2	2.2	47.4	4.7
S27	7/24	60-59	174-52	X17069	Y32460	49	.9	83.3	378.8	0.0	0.0	462.0	0.0
S28	7/26	61-00	175-34	X16912	Y32456	56	1.8	35.7	44.8	0.6	0.0	81.1	0.0
S29	7/29	60-58	176-19	X16734	Y32474	62	2.1	7.0	157.4	15.5	2.8	182.8	1.5
S30	7/30	61-01	177-00	X16573	Y32450	66	2.4	17.9	174.5	60.1	5.7	258.1	2.2
T27	7/24	61-20	174-59	X17031	Y32259	46	.0	12.8	165.1	2.0	0.0	179.8	0.0
T28	7/26	61-20	175-49	X16849	Y32267	54	1.1	297.7	163.3	2.1	0.0	463.1	0.0
T29	7/29	61-18	176-20	X16733	Y32290	58	1.6	1419.0	538.9	18.0	0.0	1975.9	0.0
T30	7/30	61-20	177-01	X16581	Y32275	63	.	549.3	332.1	47.9	3.2	932.5	0.3
U27	7/25	61-40	175-07	X16990	Y32053	47	.0	7.8	48.1	0.0	0.0	55.9	0.0
U28	7/26	61-39	175-51	X16838	Y32088	52	.7	63.2	101.3	1.2	0.0	165.7	0.0
U29	7/29	61-39	176-30	X16700	Y32101	57	1.3	1219.0	254.7	0.0	0.0	1473.7	0.0
U30	7/30	61-41	177-09	X16559	Y32092	62	1.7	18.3	38.1	3.4	2.7	62.5	4.4
V27	7/25	62-02	175-14	X16954	Y31850	44	-1.1	20.8	127.4	0.0	0.0	148.3	0.0
V28	7/26	61-59	175-57	X16804	Y31917	52	.3	22.2	198.8	0.0	0.0	221.0	0.0
W29	7/29	61-57	176-32	X16694	Y31938	55	1.0	150.5	329.2	0.0	0.0	479.7	0.0
W27	7/25	62-20	175-19	X16928	Y31670	43	-1.0	7.2	37.0	0.0	0.0	44.2	0.0
W28	7/25	62-21	176-02	X16790	Y31696	48	.5	147.8	385.7	0.0	0.0	533.5	0.0
X27	7/25	62-37	175-30	X16884	Y31522	43	-.7	23.6	114.9	0.0	0.0	138.5	0.0

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

TABLE 8 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE KOREAN HAIR CRAB WERE TAKEN

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LARGE
								SMALL	PRE-RECRUIT	LARGE		
B07	6/16	55-20	163-58	Y34330 Z47643	40	3.7	0.0	0.0	3.1	5.6	8.7	64.3
B08	6/12	55-20	163-25	Y34239 Z47429	30	4.4	0.0	0.0	0.0	0.7	0.7	100.0
C07	6/17	55-38	164-00	Y34274 Z47665	52	2.1	0.0	0.0	0.7	0.0	0.7	0.0
C08	6/12	55-40	163-24	Y34169 Z47431	46	2.5	0.0	0.0	0.0	1.3	1.3	100.0
D10	6/ 8	56-00	162-13	Y33909 Z46974	40	3.0	0.0	1.3	2.0	0.0	3.3	0.0
E02	6/19	56-19	167-00	Y34657 Z48864	65	2.5	0.0	0.0	0.0	0.7	0.7	100.0
E07	6/17	56-18	163-59	Y34117 Z47676	47	2.3	0.0	0.0	0.0	0.6	0.6	100.0
E10	6/ 8	56-19	162-12	Y33821 Z46961	44	1.7	0.0	0.7	0.0	0.7	1.3	49.7
E11	6/13	56-19	161-38	Y33735 Z46734	35	.	0.0	0.0	0.7	0.0	0.7	0.0
E12	6/ 7	56-20	161-00	Y33634 Z46481	29	2.1	0.0	0.0	0.0	0.0	0.7	0.0
E18	7/ 1	56-20	168-15	0	85	4.0	0.0	0.7	0.0	0.0	0.7	0.0
F10	6/ 8	56-39	162-11	Y33724 Z46949	41	.2	0.0	0.0	0.0	0.7	1.3	50.0
F11	6/13	56-39	161-34	Y33630 Z46705	48	2.2	0.0	0.0	0.0	2.0	2.0	100.0
F12	6/ 7	56-40	160-59	Y33536 Z46468	38	.7	0.0	0.0	0.0	0.0	0.7	0.0
F19	7/ 2	56-39	168-53	X18635 Z49610	54	3.2	0.0	0.0	0.0	0.6	0.6	100.0
F20	7/ 2	56-39	169-30	X18610 Z49826	44	4.6	0.0	0.0	1.3	6.0	7.4	81.9
F24	7/ 9	56-40	171-58	X17971 Y34992	71	4.1	0.0	0.7	0.0	0.0	0.7	0.0
G05	6/20	57-01	165-12	Y34124 Z48161	38	.0	0.0	0.0	0.0	0.6	0.6	100.0
G08	6/11	57-01	163-23	Y33804 Z47428	38	.5	0.0	0.0	0.0	0.7	0.7	100.0
G09	6/15	57-01	162-46	Y33704 Z47181	33	.5	0.0	0.0	0.0	0.6	0.6	100.0
G11	6/14	56-59	161-35	Y33528 Z46700	38	.7	0.0	0.0	0.0	0.6	1.2	50.0
G18	6/30	57-00	168-20	Y34752 Z49417	40	3.1	0.0	0.0	0.0	0.7	0.7	100.0
G18	7/ 1	56-51	168-38	Y34863 Z49535	53	2.8	0.0	0.0	0.0	0.0	0.0	0.0
G20	7/ 2	57-00	169-31	X18721 Z49887	35	3.8	0.0	0.7	0.7	7.2	8.7	83.3
G20	7/ 2	56-50	169-55	X18648 Z50003	40	4.5	0.0	0.0	10.5	76.6	87.2	87.9
G21	7/ 8	57-00	170-10	X18690 Z50118	36	4.7	0.0	0.0	3.5	10.5	13.9	75.0
G21	7/ 8	56-51	170-26	X18561 Z50120	53	3.7	0.0	0.0	0.0	0.7	0.7	100.0
H01	6/30	57-22	167-44	Y34489 Z49155	39	3.0	0.0	0.0	0.0	1.8	1.8	100.0
H08	6/11	57-20	163-24	Y33690 Z47420	31	.3	0.0	0.0	0.0	0.7	0.7	100.0
H09	6/15	57-20	162-46	Y33588 Z47166	26	.7	0.0	0.0	0.0	0.6	0.6	100.0
H12	6/ 7	57-20	160-56	Y33315 Z46433	36	.6	0.0	0.0	0.0	1.3	2.0	66.8
H18	6/30	57-20	168-23	Y34639 Z49416	42	3.4	0.0	0.0	0.7	1.3	2.0	66.8
H18	6/30	57-10	168-37	0	43	3.4	0.0	0.0	0.0	2.8	2.8	100.0
H19	7/ 3	57-18	169-01	Y34788 Z49671	39	3.7	0.0	0.0	3.2	10.3	13.4	76.5
H19	7/ 3	57-08	169-19	Y34927 Z49811	39	3.5	0.0	0.0	0.0	3.7	3.7	100.0
H20	7/ 3	57-19	169-36	0	34	2.2	0.0	0.0	0.0	1.9	1.9	100.0
H20	7/ 3	57-08	169-54	X18746 Z50042	25	4.4	2.8	0.0	5.6	16.7	25.1	66.7
H21	7/ 7	57-21	170-16	X18692 Y34988	31	5.0	0.7	0.0	0.7	10.0	11.4	87.5
I01	6/30	57-41	167-45	Y34348 Z49122	37	3.2	0.0	0.0	0.0	3.6	3.6	100.0
I03	6/27	57-44	166-31	Y34087 Z48638	36	1.3	0.0	0.0	0.0	0.6	0.6	100.0
I04	6/17	57-40	165-53	Y33993 Z48392	36	.2	0.0	0.0	0.0	1.3	1.3	100.0
I05	6/19	57-40	165-14	Y33875 Z48139	33	.	0.0	0.0	0.0	0.6	0.6	100.0
I06	6/14	57-39	164-37	Y33775 Z47892	31	.4	0.0	0.0	0.0	0.7	0.7	100.0
I18	6/30	57-40	168-25	Y34485 Z49376	40	2.5	0.0	0.0	1.4	3.5	4.9	71.5
I18	6/30	57-30	168-38	Y34614 Z49492	40	3.1	0.0	0.0	0.0	5.2	5.2	100.0

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



TABLE 8 DATA FROM THE 1982 EASTERN BERING SEA TRAWL SURVEY WHERE KOREAN HAIR CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	NUMBER PER MILE TOWED			TOTAL	PERCENT LARGE
								SMALL	PRE-RECRUIT	LARGE		
I19	7/ 3	57-29	169-17	Y34754 Z49742	38	3.7	0.0	0.0	1.9	17.7	19.6	90.3
I19	7/ 3	57-40	169-04	Y34610 Z49617	37	2.7	0.0	0.0	0.6	5.6	6.2	90.0
I20	7/ 3	57-39	169-40	Y34708 Z49818	40	2.9	0.0	0.0	0.0	1.3	1.3	100.0
I20	7/ 3	57-29	169-58	Y34868 Z49970	42	2.6	0.0	0.0	0.0	0.0	0.0	0.0
J01	6/30	58-02	167-47	X18726 Z49065	36	2.1	0.0	0.0	0.0	0.9	0.9	100.0
J02	6/29	57-59	167-10	Y34074 Z48845	37	1.3	0.0	0.0	0.0	0.7	0.7	100.0
J03	6/27	57-59	166-30	Y33963 Z48600	33	1.3	0.0	0.0	0.0	0.7	0.7	100.0
J04	6/17	57-59	165-54	Y33848 Z48362	32	1.0	0.0	0.0	0.0	1.3	1.3	100.0
J05	6/19	58-00	165-14	Y33725 Z48107	27	1.1	0.0	0.0	0.0	2.1	2.1	100.0
J06	6/14	57-59	164-37	Y33631 Z47868	26	.7	0.0	0.0	0.0	0.7	0.7	100.0
J07	6/18	57-58	164-00	Y33533 Z47625	25	1.3	0.0	0.0	0.0	0.6	0.6	100.0
J18	6/30	57-50	168-41	Y34440 Z49435	40	2.3	0.0	0.0	0.0	0.0	0.0	0.0
J18	6/26	58-00	168-26	Y34295 Z49306	40	2.2	0.0	0.0	0.0	2.1	2.1	100.0
J19	7/ 4	58-00	169-02	Y34389 Z49508	38	2.0	0.0	0.0	0.0	2.6	2.6	100.0
J19	7/ 3	57-49	169-18	Y34552 Z49650	35	3.3	0.0	0.0	0.6	1.9	2.5	75.1
J20	7/ 4	58-00	169-41	Y34473 Z49699	40	2.4	0.0	0.0	0.0	0.7	0.7	100.0
J20	7/ 3	57-50	169-59	Y34620 Z49838	42	3.6	0.0	0.0	0.0	0.0	0.0	0.0
K01	6/30	58-21	167-50	Y33982 Z49008	32	1.7	0.0	0.0	0.0	0.7	0.7	100.0
K02	6/28	58-21	167-11	Y33880 Z48784	29	3.0	0.0	0.0	0.0	1.3	1.3	100.0
K03	6/28	58-19	166-33	Y33791 Z48562	26	3.3	0.0	0.0	0.0	1.4	1.4	100.0
K04	6/16	58-20	165-55	Y33673 Z48320	75	1.2	0.6	0.0	0.0	0.6	1.3	50.0
K05	6/19	58-20	165-17	Y33568 Z48084	24	.	0.0	0.0	0.0	0.7	0.7	100.0
K06	6/14	58-19	164-37	Y33477 Z47839	25	1.1	0.0	0.0	0.0	0.7	0.7	100.0
K18	6/26	58-18	168-28	Y34096 Z49226	35	1.3	0.7	0.0	0.0	0.0	0.7	0.0
K19	7/ 4	58-18	169-07	Y34190 Z49428	37	2.0	0.0	0.0	0.0	0.6	0.6	100.0
L01	6/30	58-41	167-52	Y33777 Z48934	25	3.3	0.0	0.6	0.0	3.0	3.6	83.4
L02	6/28	58-40	167-13	Y33688 Z48724	23	3.1	0.0	0.0	0.0	0.7	0.7	100.0
M01	6/30	59-00	167-52	Y33563 Z48848	22	3.0	0.0	0.0	0.0	0.6	0.6	100.0
M03	6/28	58-58	166-34	X18662 Z48439	19	3.4	0.0	0.0	0.5	0.0	0.5	0.0
M18	6/26	58-59	168-31	Y33654 Z49042	27	2.4	0.0	0.0	0.0	0.7	0.7	100.0
M19	7/ 4	58-59	169-10	Y33719 Z49217	29	3.2	0.0	0.0	0.0	1.0	1.0	100.0
N01	6/29	59-21	167-55	X18529 Y33328	21	2.8	0.0	0.0	0.0	0.6	0.6	100.0
N18	6/26	59-20	168-33	Y33409 Z48942	24	2.2	0.7	0.0	0.0	0.7	1.3	50.0
N19	7/ 4	59-18	169-13	Y33485 Z49119	27	2.5	0.5	0.0	0.0	1.0	1.5	66.8
P19	7/ 5	59-59	169-18	Y32996 Z48921	25	2.3	0.6	0.0	0.0	0.0	0.6	0.0
P21	7/ 5	60-01	170-37	Y33048 Z49168	35	-6	0.0	0.0	0.0	0.8	0.8	100.0
P23	7/10	59-57	171-57	X17815 Y33120	36	1.5	0.6	0.0	0.0	0.6	1.1	50.0

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

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