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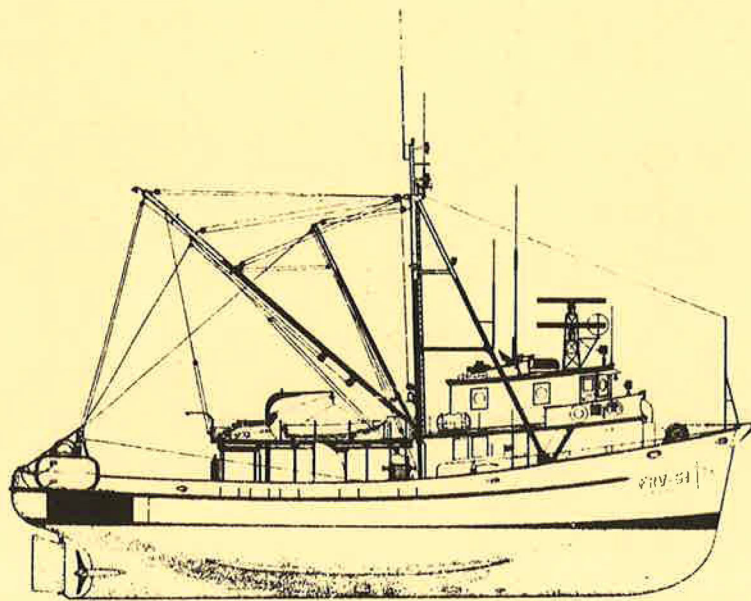
**National Marine
Fisheries Service**

U.S. DEPARTMENT OF COMMERCE

NWAFC PROCESSED REPORT 80-13

REPORT TO INDUSTRY ON THE 1980 EASTERN BERING SEA KING AND TANNER CRAB SURVEY

September 1980



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Report to Industry on the

1980

Eastern Bering Sea

King and Tanner Crab Survey

by

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September 1980

THE 1980 EASTERN BERING SEA CRAB SURVEY

An annual trawl survey is conducted in the eastern Bering Sea to provide information on the distribution and abundance of four species of crabs. This information is provided to fishermen and processors as an aid in locating productive areas and judging the overall availability of crabs. Survey derived information is also used as part of the basis for management decisions. This report deals with the distribution and abundance of red king crab (Paralithodes camtschatica), blue king crab (P. platypus), and two species of Tanner crab (Chionoecetes bairdi and C. opilio). Hybrid Tanner crabs are also discussed. Data on the distribution and abundance of groundfish are also collected as part of the survey and are available from the National Marine Fisheries Service Montlake Laboratory (2725 Montlake Blvd. East, Seattle, Washington 98112).

Survey Area and Methods

The area covered by the survey in 1979 and 1980 is shown in Figure 1. Although the 1980 survey area is smaller, it contains the most important areas inhabited by the four species of crabs discussed in this report. The survey was conducted by the NOAA R/V OREGON and the F/V OCEAN HARVESTER. From May 12 through July 24, a total of 362 successful tows were made using the standard trawl gear.

Both vessels used identical methods. Each station consisted of a one-half hour tow made with a 400 mesh eastern otter trawl. The trawl was constructed of 36 thread 4-inch mesh in the wings, 60 thread 3-1/2 inch mesh in the intermediate and 96 thread 1-1/4 inch mesh codend liner. It was rigged with 18 eight inch floats on the head rope and 25 fathom dandy lines (10 fathom single, 15 fathom double). The doors were of the Astoria "V" type and measured 5 x 7 feet. The footrope was 94 feet and the headrope was 71 feet in length. Observations by SCUBA divers have shown that the trawl sweeps an average of forty feet of bottom. 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. When the trawl was brought aboard, crabs were separated from the rest of the catch and sorted by species, sex, and size.

Interpreting Tables and Figures

The OREGON towed an average of 1.2 miles in one-half hour and the OCEAN HARVESTER towed an average of 1.5 miles. In order to adjust for this difference, catches are presented in accompanying tables as the number of crab caught per mile towed (rounded to the nearest whole number). The charts are based on 20 by 20 mile squares. In cases where more than one tow was made in a square, the average number of crabs per mile towed is presented. It is advisable to cross-reference the charts with the tables to obtain more exact positions. 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.

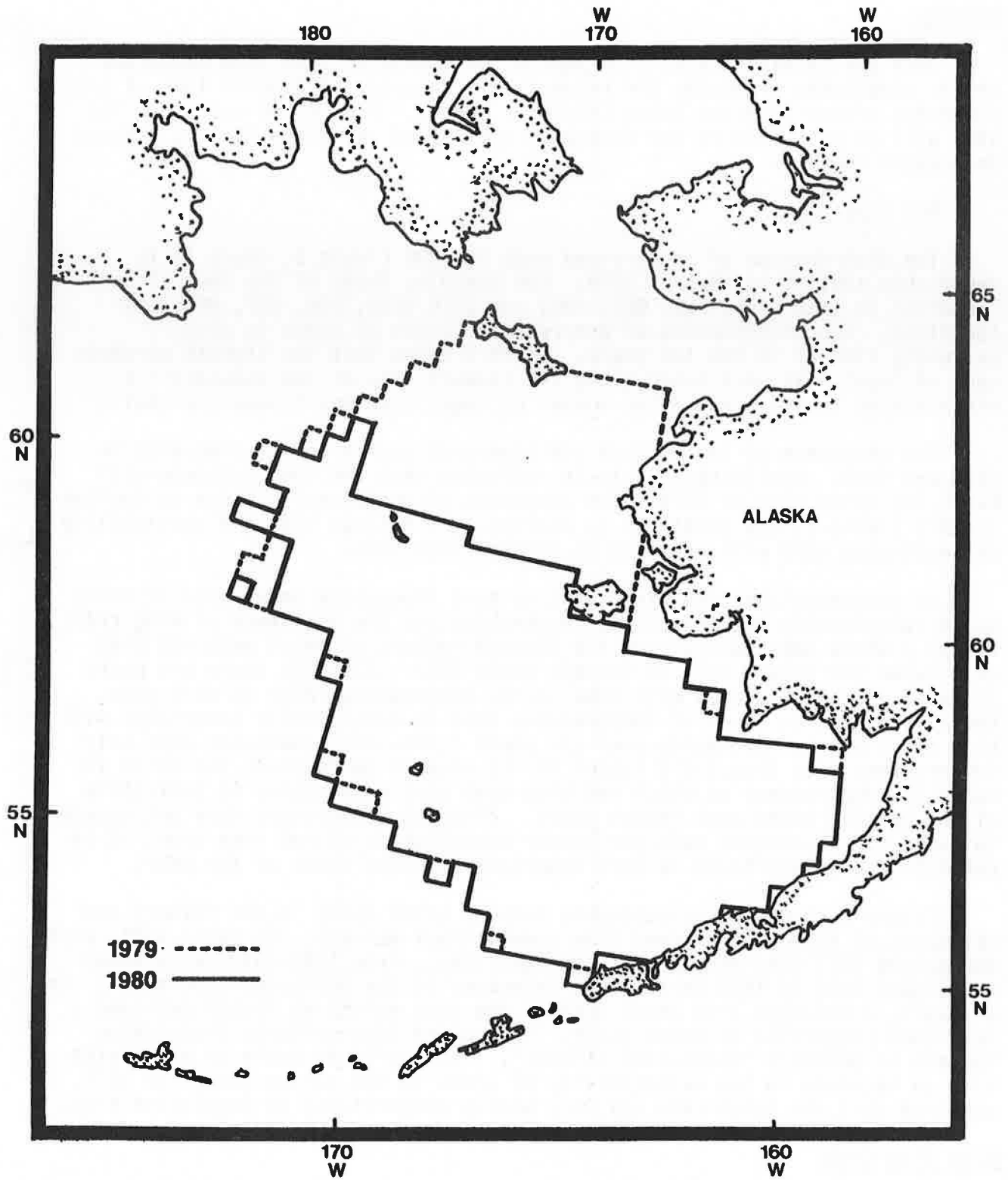


Figure 1 -- NMFS eastern Bering Sea crab survey areas in 1979 and 1980.

Results

Only preliminary analysis of population abundance have been conducted and no population estimates are ready to be released. A general idea of crab abundance trends is given below (Tables 1 and 2). Population estimates for 1980 will be presented at the September meeting of the North Pacific Fishery Management Council.

Red King Crab:

The distribution of legal-sized crab in 1980 (Table 3, Chart 1) is remarkably similar to that of 1979. For example, three of the four highest "squares" in 1980 (F05, F06, G07, H06) and 1979 (F05, F06, G07, G08) are identical. The distribution of pre-recruit (Chart 2) crabs is also extremely similar in the two years. Chart 3 shows that the highest percentages of legal crab were taken along the seaward edge of the population's distribution in areas where the number of legal crab was frequently small.

The abundance of legal-sized red king crab was at an all time high in 1978 and 1979. Preliminary analysis indicated that the 1980 estimate will be 10-20% below that of 1979. The abundance of pre-recruits began to decline in 1979 (Table 1) and continues to decline. It follows that the availability of legal-size crab will continue to decline into 1981.

In conversations with fishermen, we have frequently been asked if there was a relationship between bottom temperature and the abundance of king crabs. Figure 2 shows temperatures and the average numbers of legal male red king crab taken per square mile in surveys since 1977. Although there are peaks in catch rates associated with some narrow temperature range in each year, there is no narrow range of temperatures that is consistently associated with high catch rates. Averaging over six years (1975-1980) indicates that only temperatures less than 5.0°C (about 41° F) seem to be favored. The shift in range of temperatures at which red king crab were encountered is indicative of the warming trend over recent years. Although temperature does not appear to exert strong control over the summer distribution of red king crab, it is possible that temperature is more important at other times of the year.

Figure 3 shows the relationship between catch rates in the fishery and estimates of abundance derived from annual trawl surveys. Up until 1976, plotted points fell very nearly on a straight line. From 1976-1978 catch rates were lower than in 1975 in spite of increases in the estimated population. As a result, a straight line drawn through the data points no longer provided a very good prediction of catch rates. The curved line reflects diminishing returns or possible "saturation effects". These effects could be associated with an increase in the vulnerability of crabs to the survey gear. In 1979, it appeared that the catch rate was very nearly proportional to population size.

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). Some blue crab are also found southwest of St. Lawrence Island in the area near the international date line (see Table 4). Populations are generally very sparse in this area, and the crab are mostly small.

Table 1. -- Population estimates in millions of crabs for eastern Bering Sea king crabs from NOAA/NMFS surveys.

RED KING CRABS

| YEAR | PRE-RECRUITS* | LEGALS* |
|------------|---------------|---------|
| 1969 | 19.5 | 9.8 |
| 1970 | 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 |

PRIBILOF BLUE KING CRABS

| YEAR | PRE-RECRUITS* | LEGALS* |
|------|---------------|---------|
| 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 |

* The size groups 5.0" - 6.25" and over 6.25" have been used for pre-recruits and legals, respectively, for purposes of comparison with previous years.

** Limited survey in 1971, not used for population estimates.

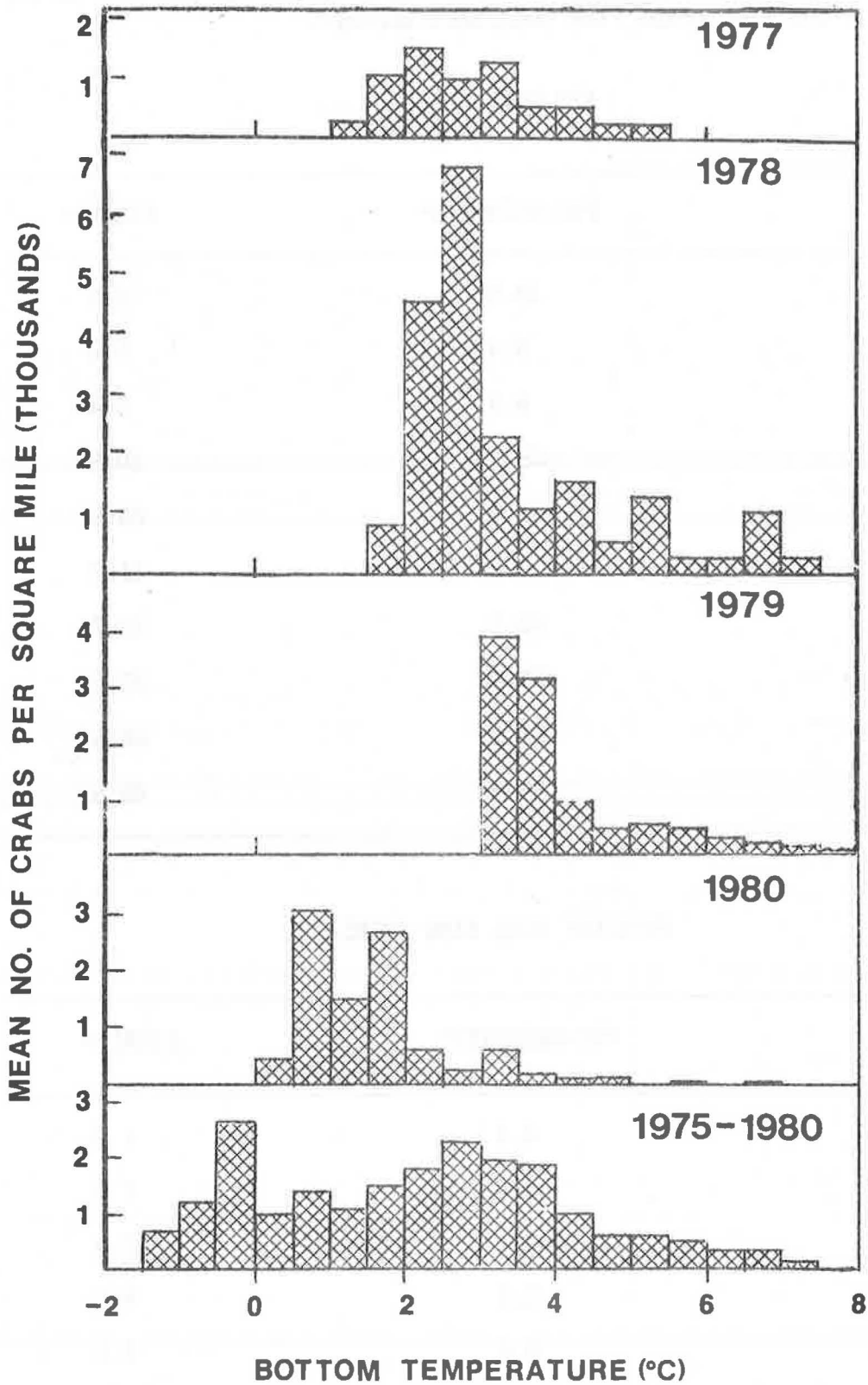


Figure 2. -- Average number of legal-sized male red king crab (*Paralithodes camtschatica*) per square mile found at various bottom temperatures in the 1975-1980 NMFS Bering Sea surveys. Data are summarized in 0.5 degree intervals.

The distribution of legal-sized blue king crab in the Pribilof Islands area differed only slightly from that of 1979. In the past two years, relatively more crab have been taken in areas north and east of the islands and fewer crab to the south and west (Chart 4). The distribution of pre-recruits (Chart 5) was about the same as in 1979, and in both years was similar to that of legal-size males. The percentage of legal crab taken in each square is shown in Chart 6.

Abundance trends in the Pribilof Islands (Table 1) have been quite variable over the years. Further, there is no readily apparent relationship between the estimated number of pre-recruits in one year and the estimated number of legal crabs in the years immediately following. We suspect that much of the fluctuation in abundance estimates reflects the fact that blue crab occur at only 10 to 20 survey squares near the Pribilofs in any given year. Catches over the past five years have been stable.

In the St. Matthew Island area, legal-sized crab were caught at more stations in 1980 and were more widely scattered than in 1979. In both years most legal crab were taken south and west of the island. The distribution of pre-recruit crab was similar in this respect. The percentage of legal crab in each square is given in Chart 6.

The abundance of legal-sized crab in the St. Matthew Island area appears to be roughly similar to that of 1978 and 1979. It is noted that very poor commercial fishing was reported during the summer of 1979, and there was no fishing in the area during the summer of 1980. Estimation of St. Matthew Island blue king crab abundance is difficult because much of the area close to the island is untrawlable.

Bairdi Tanner Crab:

The distribution of legal-sized bairdi Tanner crab (Chart 7, Table 5) shows areas of concentration north of False Pass (B07, B08), in outer Bristol Bay just north of Port Moller (E10, F11) and in the eastern Pribilof Islands (F20, G21). The heaviest concentrations in 1979 occurred north of False Pass and in outer Bristol Bay. The area near A03 was an area of high pre-recruit abundance in 1979 and perhaps explains the small area of high legal abundance near there in 1980. There appears to be more legal crab in the Pribilof area in 1980 than in 1979. Most notably, legal crab were in very low abundance in the area north of row C extending from columns 1 - 8. The distribution of pre-recruit crab (Chart 8) was largely similar to that of legal crabs, except that higher concentrations were found in the Pribilof Islands and north of Unimak Pass. Percentages of legal crab taken in each square are given on Chart 9.

The overall abundance of legal and pre-recruit Tanner crab (Table 2) shows a decline over the past several years with a sharp decline in 1978. The abundance of legal crab in 1980 appears to be the same as that of 1979. Preliminary analysis indicates that the number of pre-recruit crab is somewhat higher and points to improved conditions in the future.

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 Fig. 4. The temperatures at which bairdi crab have been encountered increased from 1977-1979, reflecting the trend toward milder weather during the same period. Generally, colder conditions prevailed in 1980. Differences in bottom temperatures from 1979 to 1980 do not, however, seem to explain difference in the distribution of *C. bairdi*. The bottom panel of Fig. 4 shows that the highest catches of bairdi Tanner crabs have occurred in the 0-5° range. There

RED KING CRAB LEGAL MALES

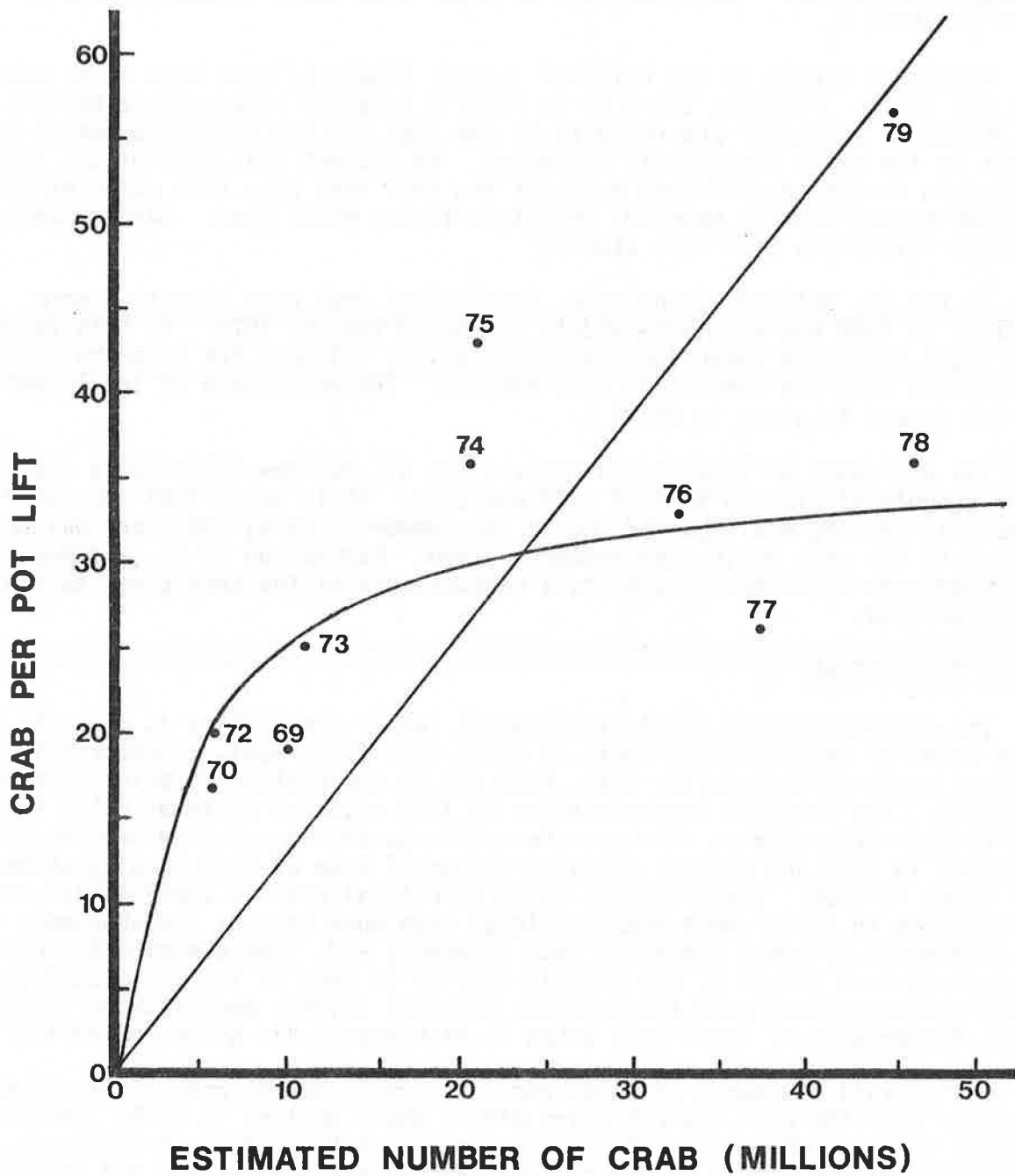


Figure 3. -- Relationship between the season average number of Red King Crab (*Paralithodes camtschatica*) taken per pot in the U.S. Fishery and estimates of stock size from NMFS trawl surveys in the preceding summer.

Table 2. -- Population estimates of Tanner crab in the eastern Bering Sea, South of 58°, by species and size from NMFS annual surveys, 1973-1978 (sizes are carapace widths).

| | MILLIONS OF CRAB BY YEAR | | | | | | |
|--------------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | <u>1973</u> | <u>1974</u> | <u>1975</u> | <u>1976</u> | <u>1977</u> | <u>1978</u> | <u>1979</u> |
| <u>BAIRDI MALES</u> | | | | | | | |
| Large (over 5.0") ¹ | 66.9 | 130.5 | 209.6 | 157.8 | 111.1 | 57.9 | 39.7 |
| Legal (over 5.5") ¹ | | | | 109.5 | 92.1 | 45.6 | 31.5 |
| Pre-recruit (3.3" - 5.0") | 140.5 | 255.0 | 207.5 | 131.7 | 159.6 | 90.1 | 69.4 |
| Pre-recruit (3.9" - 5.5") | | | | 136.6 | 116.3 | 81.2 | 47.7 |
| <u>OPILIO MALES</u> | | | | | | | |
| Large (over 4.2") | 84.7 | 246.7 | 274.8 | 181.6 | 137.3 | 78.4 | 106.3 |
| Small (under 4.3") | 115.2 | 1480.3 | 1916.7 | 2221.1 | 1850.9 | 830.2 | 779.4 |
| <u>HYBRID MALES</u> | | | | | | | |
| Large (over 4.2") | | | 33.8 | 16.5 | 15.4 | 5.6 | 4.9 |
| Small (under 4.3") | | | 47.5 | 27.8 | 141.2 | 11.8 | 9.8 |

¹Legal size for calendar year 1977.

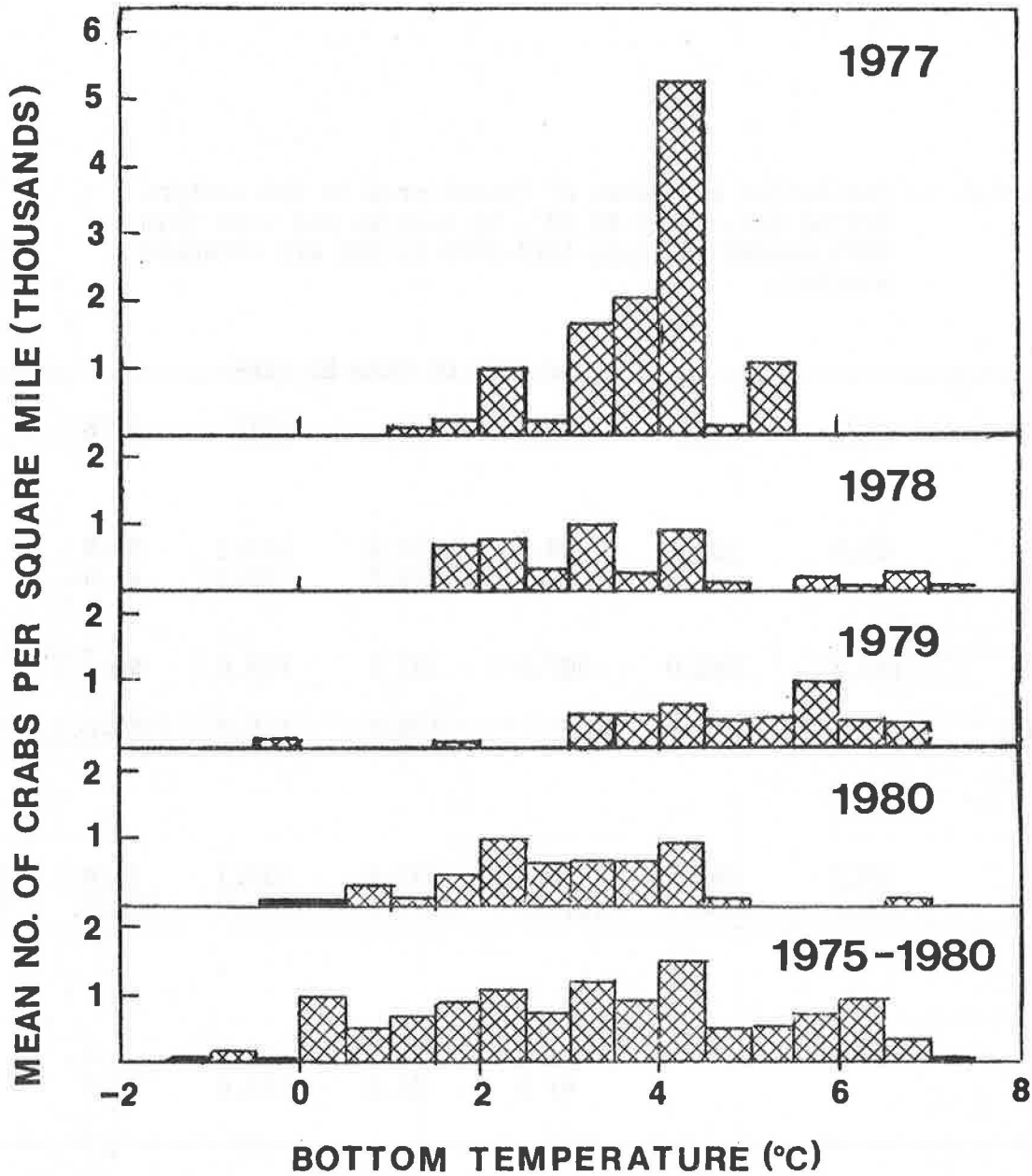


Figure 4. -- Average number of legal-sized male Tanner crab (*Chionoecetes bairdi*) per square mile found at various bottom temperatures in the 1975-1980 NMFS Bering Sea Surveys. Data Are summarized in 0.5 degree intervals.

does not appear to be a narrower range of temperatures in which the highest catch rates consistently have occurred.

Figure 5 shows the relationship between catch rates in the fishery and estimates of abundance from the survey. The curved line shown in the Figure seems to fit the data better than the straight line, however, there are few data points and no strong conclusion can be drawn.

Opilio and Hybrid Tanner Crab:

In reports prior to 1979, opilio and hybrid Tanner crabs have been reported separately. They have since been combined because the number of hybrids encountered was small and most of the commercial catch of hybrids is landed as opilio. There are no size limits for either group, but the majority of the commercial catch of both groups is larger than 110 mm (4.3 inches). This corresponds to the "large" size group in Charts 10-12 and Table 6.

The distribution of large opilio and hybrid Tanner crab (Chart 10, Table 6), in 1980, is very different than that of 1978 and 1979. There are major areas of concentration both east and west of the Pribilof Islands but legal crab were very scattered in the remainder of the survey area. By contrast, in 1978 and 1979 the major area of concentration was centered around station I04 and concentrations near the Pribilof Islands were less prominent. The distribution of pre-recruit opilio and hybrid crab (Chart 11) is similar to that of large males except that relatively more pre-recruits were found north of the Pribilofs, and in the central area near I04. Chart 12 shows that the highest percentages of large crab occurred where numbers caught were small.

Preliminary analysis of the abundance of opilio and hybrids indicates that large males are less abundant than last year. Analysis of the abundance of opilio and hybrid Tanner crab is complicated by the fact that the survey occurs at the same time as domestic and foreign fisheries.

The relationship between the average catch per square mile and bottom temperature during the past five years (Figure 6) shows that few opilio are taken where temperatures exceed 5.0° C in any year. Colder conditions may explain the scattered distribution of C. opilio and hybrids in 1980 relative to 1978 and 1979.

Bottom Temperatures

As seen on Chart 13, no minus temperatures were observed south of 59°, nor were they observed in 1977, 1978, or 1979. Temperature patterns over the past four years have been radically different than those of 1976 and previous years when minus temperatures were commonly observed as far south as 56°.

None the less, the temperature regime in 1980 was radically different than that of 1979. For example, water colder than 2° C was not found south of 59° or east of 172° in 1979; while in 1980 water colder than 2°C was found south of 57° and extended well into outer Bristol Bay, as far east as 160°. Similarly, water colder than 3° was not found east of the Pribilof Islands in 1979, but in 1980 much of the survey area east of the Pribilof Islands had bottom temperatures less than 3°C.

BAIRDI TANNER CRAB LEGAL MALES

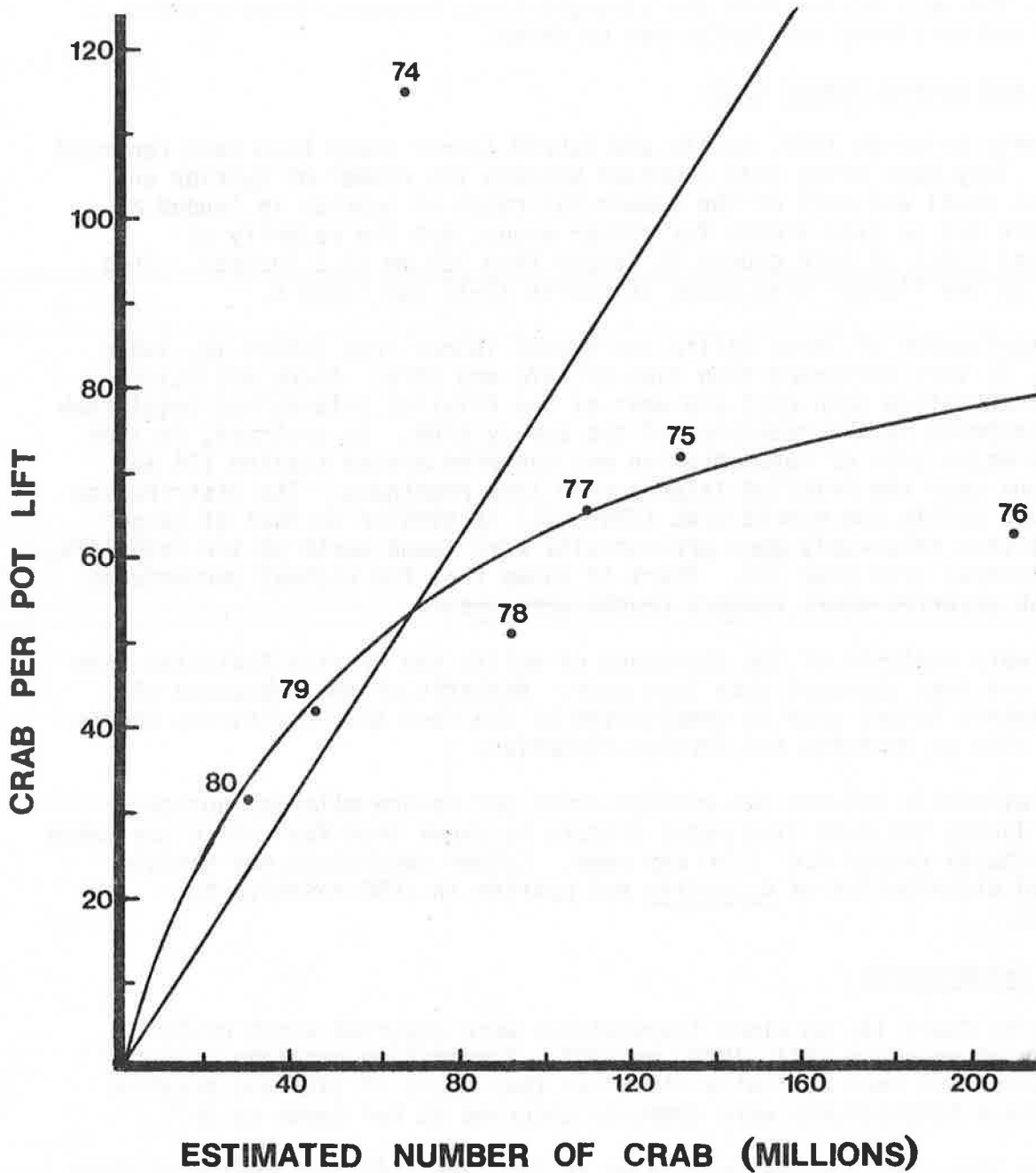


Figure 5. -- Relationship between the season average number of Tanner crab (*Chionoectes bairdi*) taken per pot in the U.S. Fishery and estimates of stock size from NMFS trawl surveys in the preceding summer.

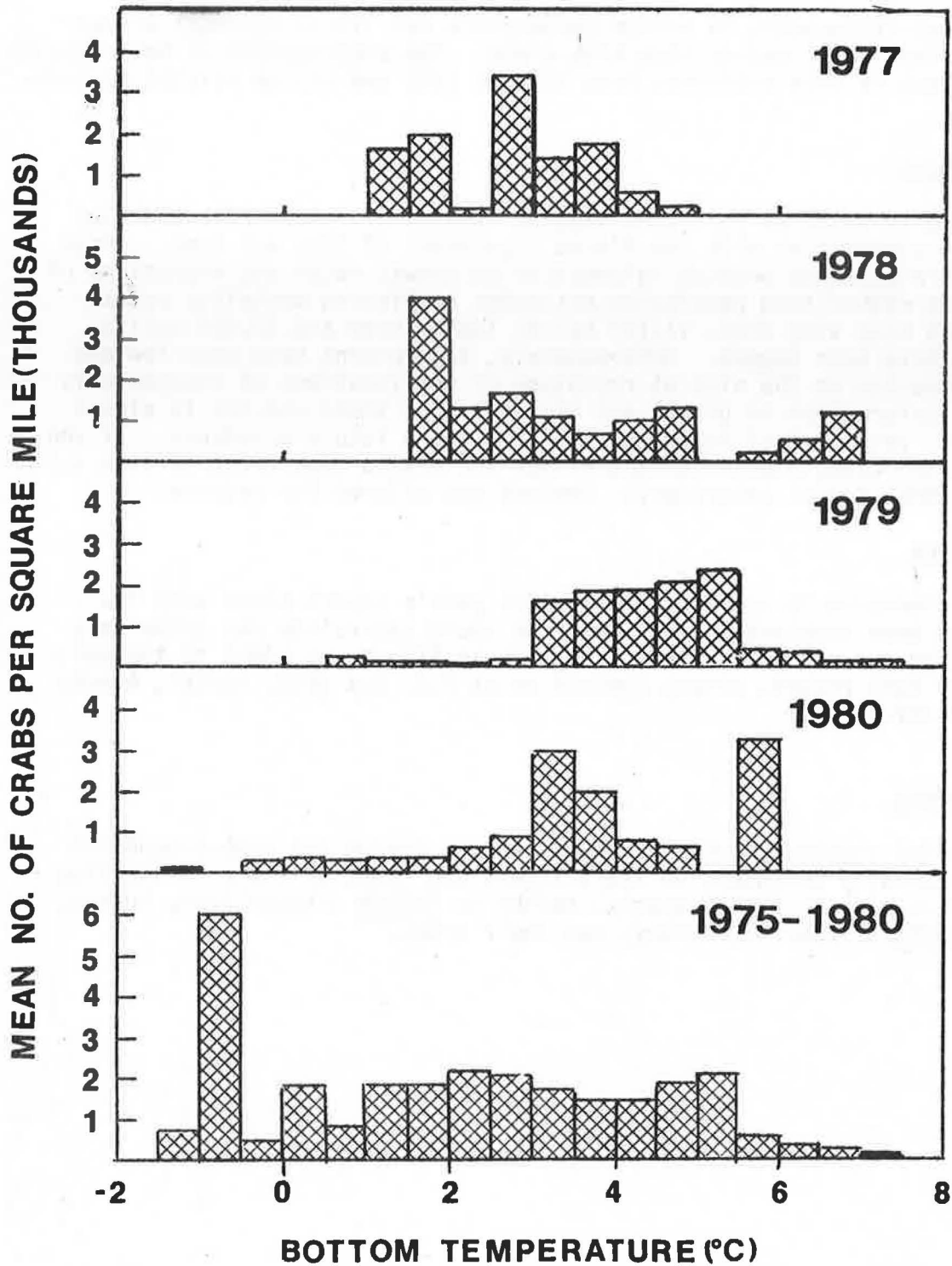


Figure 6. -- Average number of large-sized male Tanner crab (*Chionoecetes opilio*) per square mile found at various bottom temperatures in the 1975-1980 NMFS Bering Sea surveys. Data Are summarized in 0.5 degree intervals.

The above differences in bottom temperature had little apparent effect on the distribution of red or blue king crabs. The distribution of both species of Tanner crabs is very different from 1979 to 1980 and may be related to temperature.

Tagging Studies

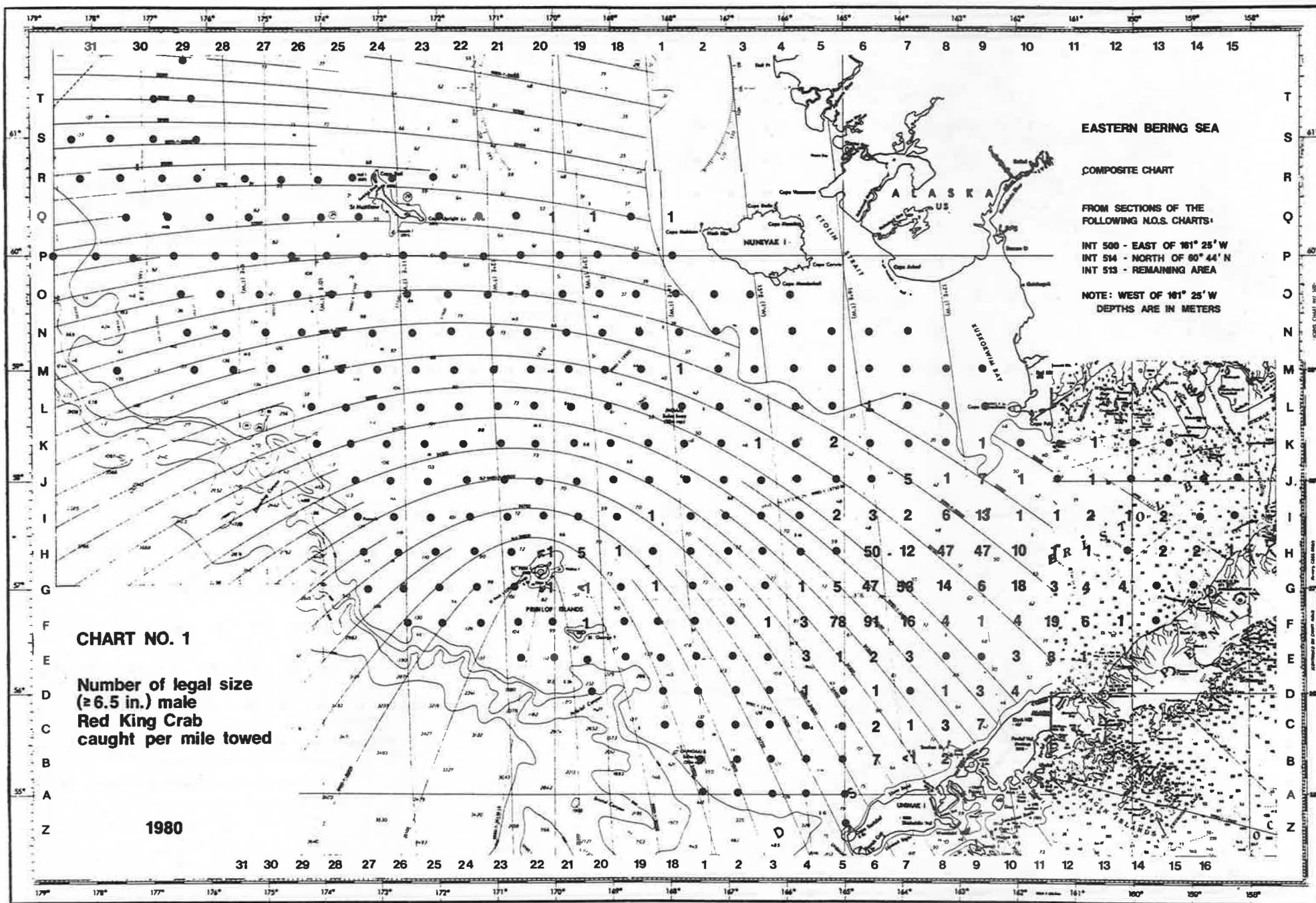
Starting in 1978, we initiated tagging studies of Tanner crab and blue king crab in cooperation with the Alaska Department of Fish and Game. These studies are intended to produce information on growth rates and migrations of these species rather than population estimates or fishing mortality rates. To date 7,508 blue king crab, 11,119 bairdi Tanner crab and 10,904 opilio Tanner crab have been tagged. Unfortunately, tag returns have been few and little information on the size at recapture or the locations of recapture is available. Information on growth and migration for these species is almost non-existent, yet of vital importance in predicting future abundance. If you find any marked crab, please contact either the Alaska Department of Fish and Game or the NMFS Kodiak Laboratory. Rewards are offered for returns.

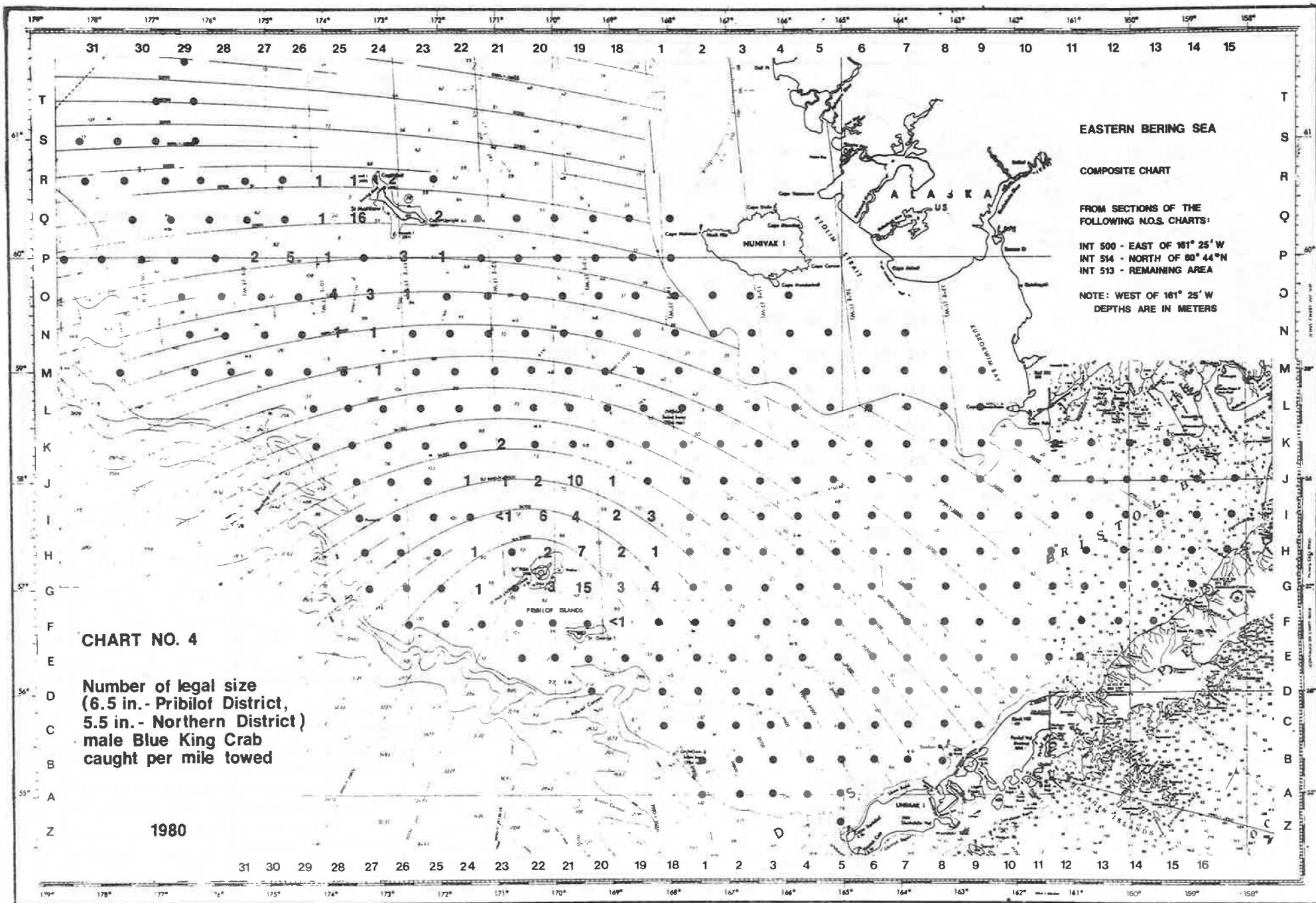
Questionnaires

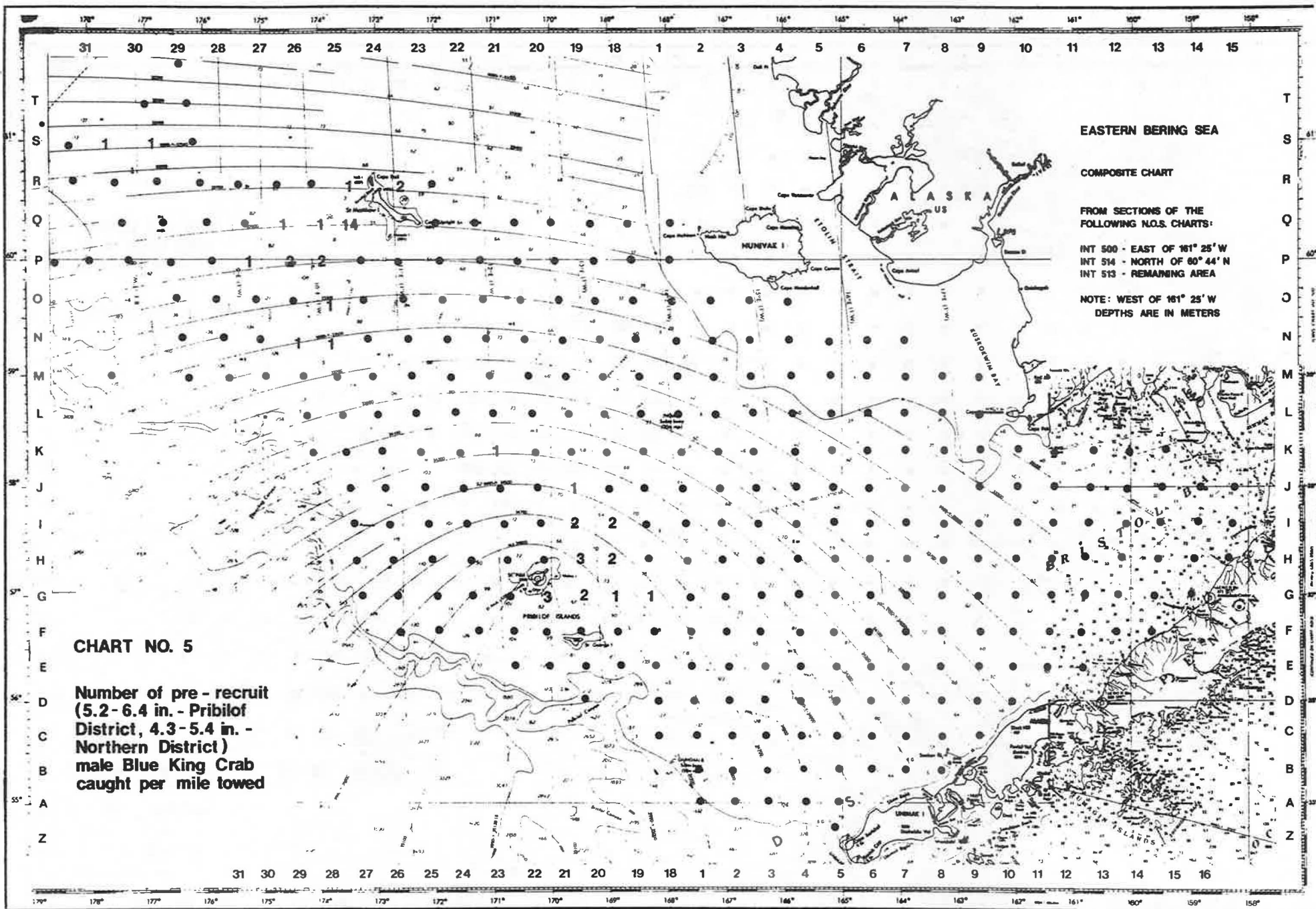
A questionnaire is not included in this year's report since very few returns have been received in the past. We would appreciate any commentary volunteered by our readers. Also, if you would like to be added to the mailing list for this report, please contact us at P.O. Box 1638, Kodiak, Alaska 99615, (907-487-4961).

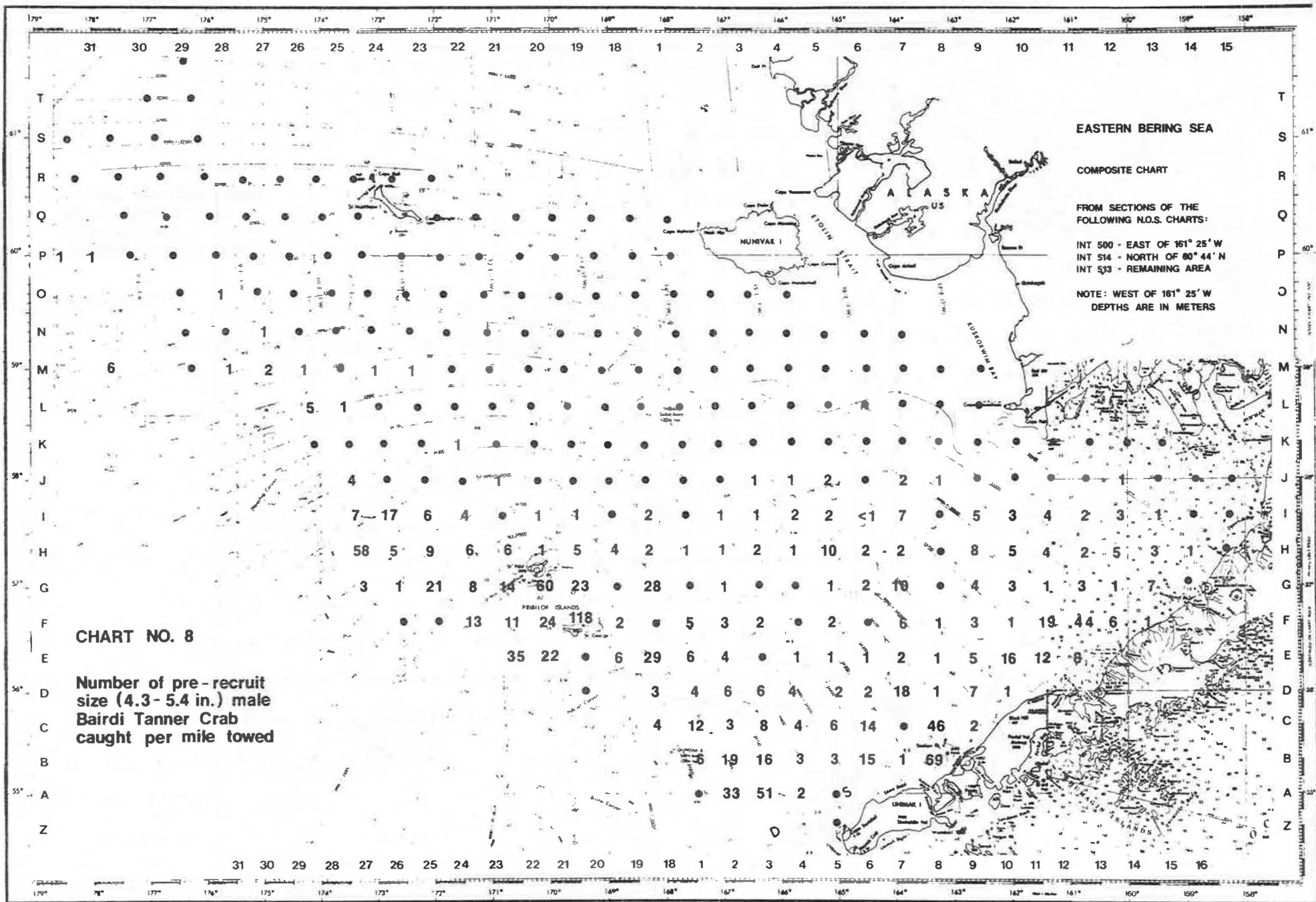
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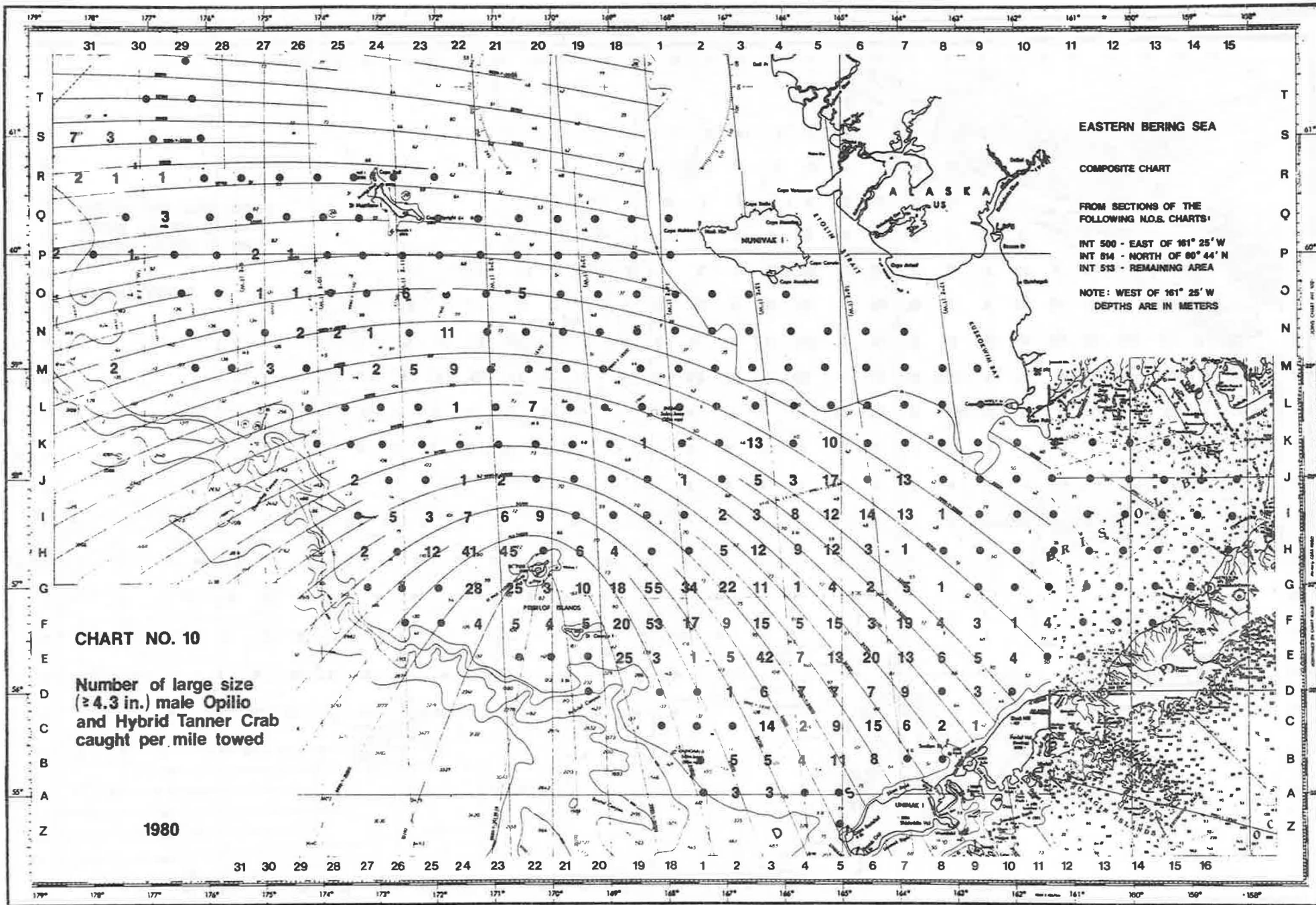
Successful completion of the annual eastern Bering Sea crab-groundfish survey is crucially dependent on the skippers and crews of the participating vessels. This year we extend special thanks to OREGON skipper Perry Buholm, OCEAN HARVESTER skipper Oluf Vedoy, and their crews.











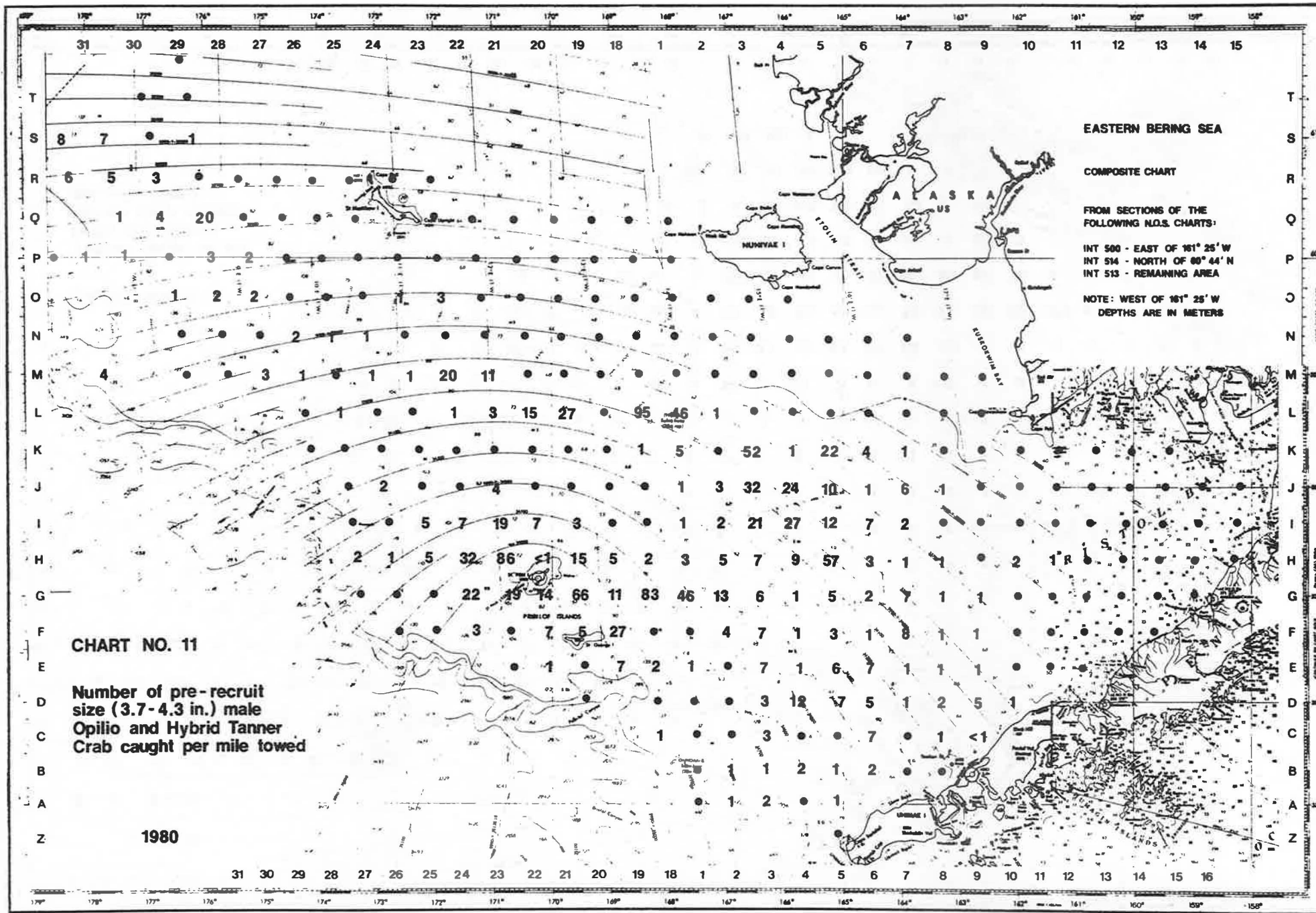


TABLE 3 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | TOTAL | |
| | | | | | | | | SMALL | PRERECRUIT | LEGAL | | |
| B05 | 06/22 | 55:21 | 165:10 | X18428 Y48088 | 53 | 4.6 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| B06 | 06/22 | 55:20 | 164:35 | X18448 Y47967 | 55 | 3.6 | 27. | 0. | 0. | 7. | 34. | 20.5 |
| B07 | 06/22 | 55:20 | 164:00 | X18465 Y47655 | 41 | 4.0 | 1. | 0. | 0. | 1. | 2. | 50.0 |
| B07 | 07/07 | 55:20 | 164:01 | Y34336 Z47657 | 38 | 5.6 | 4. | 0. | 1. | 0. | 5. | 0.0 |
| B08 | 05/31 | 55:20 | 163:25 | X47430 Y34243 | 28 | | 22. | 0. | 0. | 3. | 26. | 12.9 |
| B08 | 07/07 | 55:20 | 163:26 | Y34246 Z47434 | 25 | 7.0 | 1. | 0. | 0. | 1. | 2. | 50.0 |
| C06 | 05/27 | 55:40 | 164:36 | X47894 Y34368 | 51 | 3.6 | 0. | 0. | 1. | 2. | 3. | 75.0 |
| C07 | 05/23 | 55:41 | 165:00 | X47661 Y34264 | 50 | 3.0 | 2. | 0. | 0. | 1. | 2. | 33.3 |
| C08 | 05/31 | 55:40 | 163:24 | X47430 Y34171 | 42 | 3.2 | 10. | 0. | 1. | 3. | 14. | 21.4 |
| C08 | 07/07 | 55:40 | 163:24 | Y34172 Z47432 | 42 | 4.0 | 8. | 0. | 1. | 2. | 12. | 21.4 |
| C09 | 05/31 | 55:40 | 162:51 | X47214 Y34085 | 27 | 3.9 | 108. | 33. | 6. | 14. | 161. | 8.7 |
| C09 | 07/07 | 55:40 | 162:52 | Y34090 Z47228 | 29 | 7.0 | 2. | 1. | 0. | 0. | 2. | 0.0 |
| D04 | 05/12 | 56:00 | 165:47 | X12552 Y34501 | 59 | 3.5 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| D06 | 05/16 | 56:00 | 164:35 | Y34296 Z47391 | 50 | 2.2 | 0. | 0. | 1. | 1. | 2. | 66.7 |
| D07 | 05/28 | 55:59 | 163:59 | X47670 Y34193 | 43 | | 0. | 0. | 1. | 0. | 1. | 0.0 |
| D08 | 05/16 | 56:00 | 163:24 | Y34097 Z47439 | 48 | 2.2 | 1. | 0. | 0. | 1. | 1. | 50.0 |
| D09 | 05/31 | 56:00 | 162:49 | X47207 Y34001 | 42 | 3.0 | 13. | 1. | 3. | 3. | 19. | 14.3 |
| D10 | 05/18 | 56:00 | 162:14 | Y33910 Z46976 | 39 | 3.2 | 61. | 2. | 2. | 4. | 68. | 5.2 |
| E04 | 05/13 | 56:20 | 165:48 | X12617 Y34429 | 51 | 2.2 | 0. | 0. | 0. | 3. | 3. | 100.0 |
| E05 | 05/27 | 56:20 | 165:12 | X48155 Y34323 | 46 | 1.9 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| E06 | 05/16 | 56:21 | 164:35 | X18631 Y34195 | 47 | 1.4 | 0. | 0. | 0. | 2. | 2. | 100.0 |
| E07 | 05/28 | 55:20 | 164:01 | X47682 Y34114 | 45 | 1.9 | 0. | 0. | 1. | 3. | 4. | 75.0 |
| E08 | 05/16 | 56:19 | 163:23 | Y34011 Z47435 | 48 | 3.0 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| E09 | 05/31 | 56:20 | 162:49 | X47198 Y33911 | 42 | 3.0 | 5. | 0. | 1. | 0. | 5. | 0.0 |
| E10 | 05/18 | 56:20 | 162:12 | Y33813 Z46958 | 43 | 2.4 | 29. | 3. | 2. | 3. | 41. | 7.6 |
| E11 | 05/29 | 56:20 | 161:38 | Y33731 Z46733 | 35 | 3.1 | 647. | 338. | 0. | 8. | 993. | 0.8 |
| E12 | 05/29 | 56:20 | 161:00 | Y33637 Z46480 | 29 | 3.8 | 5. | 13. | 6. | 1. | 25. | 2.7 |
| F03 | 05/23 | 56:40 | 165:26 | X48652 Y34464 | 45 | 2.0 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| F04 | 05/13 | 56:40 | 165:50 | X18668 Y34350 | 43 | 2.2 | 0. | 0. | 1. | 3. | 3. | 80.0 |
| F05 | 05/27 | 56:40 | 165:14 | X48169 Y34326 | 40 | 1.4 | 0. | 0. | 3. | 78. | 81. | 96.6 |
| F06 | 05/15 | 56:40 | 164:36 | X18672 Y34114 | 41 | 1.4 | 0. | 3. | 48. | 113. | 163. | 69.0 |
| F06 | 07/06 | 56:40 | 164:36 | Y34123 Z47918 | 40 | 2.0 | 0. | 3. | 76. | 70. | 149. | 46.9 |
| F07 | 05/28 | 56:40 | 164:00 | X48678 Y34013 | 40 | 1.5 | 1. | 12. | 34. | 16. | 63. | 26.1 |
| F08 | 05/18 | 56:40 | 163:23 | Y33914 Z47431 | 41 | 2.0 | 1. | 3. | 3. | 4. | 11. | 35.3 |
| F09 | 05/31 | 56:40 | 162:47 | X47191 Y33816 | 38 | 2.5 | 4. | 1. | 2. | 1. | 9. | 16.7 |
| F10 | 05/18 | 56:40 | 162:11 | Y33721 Z46947 | 39 | 1.3 | 17. | 1. | 3. | 4. | 25. | 15.8 |
| F11 | 05/20 | 56:40 | 161:35 | Y33629 Z46708 | 50 | 2.9 | 165. | 4. | 1. | 19. | 189. | 10.2 |
| F12 | 05/28 | 56:39 | 160:59 | Y33540 Z46466 | 38 | 2.8 | 46. | 4. | 3. | 6. | 59. | 10.6 |
| F13 | 05/28 | 56:40 | 160:22 | Y33450 Z46218 | 32 | 2.7 | 14. | 0. | 1. | 1. | 15. | 4.0 |
| F14 | 05/28 | 56:40 | 159:46 | Y33368 Z45976 | 19 | 3.6 | 1. | 0. | 0. | 0. | 1. | 0.0 |
| F20 | 06/10 | 56:31 | 169:48 | X49879 Y35105 | 46 | 3.7 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| G04 | 05/13 | 57:00 | 165:51 | X18709 Y34250 | 41 | 1.5 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| G05 | 05/26 | 57:00 | 165:13 | X48165 Y34131 | 37 | 2.0 | 0. | 0. | 0. | 5. | 5. | 100.0 |
| G06 | 05/15 | 57:00 | 164:36 | X18707 Y34007 | 37 | 1.7 | 0. | 0. | 2. | 27. | 29. | 93.5 |
| G06 | 07/06 | 57:00 | 164:36 | Y34014 Z47916 | 37 | 2.0 | 1. | 2. | 38. | 68. | 108. | 62.4 |

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

TABLE 3 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | | TOTAL | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|-------------|-------|------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | | | |
| | | | | | | | | SMALL | PRE-RECRUIT | LEGAL | | | |
| G07 | 05/28 | 57:00 | 164:00 | X47672 Y33913 | 36 | 2.0 | 4. | 5. | 43. | 53. | 105. | 50.5 | |
| G08 | 05/19 | 57:00 | 163:22 | Y33806 Z47423 | 36 | 1.9 | 3. | 11. | 27. | 14. | 55. | 25.6 | |
| G09 | 05/30 | 57:00 | 162:47 | X47184 Y33709 | 31 | 2.0 | 29. | 32. | 14. | 6. | 81. | 7.4 | |
| G10 | 05/20 | 56:59 | 162:10 | Y33615 Z46936 | 34 | 2.1 | 60. | 14. | 10. | 18. | 102. | 17.3 | |
| G11 | 05/20 | 57:20 | 163:22 | Y33692 Z47412 | 29 | 2.4 | 44. | 12. | 3. | 3. | 63. | 5.0 | |
| G12 | 05/26 | 56:59 | 160:56 | Y33432 Z46442 | 35 | | 48. | 4. | 1. | 4. | 57. | 6.6 | |
| G13 | 05/28 | 57:00 | 160:20 | Y33345 Z46200 | 33 | 2.2 | 180. | 120. | 3. | 4. | 308. | 1.4 | |
| G14 | 05/27 | 56:59 | 159:42 | Y33261 Z45947 | 30 | 2.6 | 3. | 1. | 1. | 0. | 5. | 0.0 | |
| G15 | 05/27 | 56:59 | 159:07 | Y33184 Z45711 | 16 | 3.7 | 225. | 203. | 0. | 0. | 428. | 0.0 | |
| G18 | 06/20 | 57:00 | 168:20 | Y34757 Z49416 | 44 | 3.1 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| G20 | 06/09 | 56:59 | 169:33 | X49899 Y35025 | 42 | 4.5 | 1. | 0. | 0. | 1. | 2. | 50.0 | |
| G21 | 06/15 | 57:00 | 170:10 | X18686 Y35132 | 37 | 4.5 | 0. | 0. | 0. | 2. | 2. | 100.0 | |
| H06 | 05/15 | 57:19 | 164:37 | X18732 Y33394 | 36 | 2.3 | 1. | 0. | 0. | 7. | 7. | 92.9 | |
| H06 | 07/06 | 57:20 | 164:38 | Y33906 Z47916 | 34 | 2.3 | 0. | 18. | 37. | 94. | 149. | 63.1 | |
| H07 | 05/29 | 57:19 | 164:00 | X47665 Y33799 | 33 | 1.5 | 0. | 0. | 5. | 12. | 18. | 70.0 | |
| H08 | 05/19 | 57:00 | 161:34 | Y33521 Z46693 | 37 | 1.4 | 0. | 13. | 69. | 47. | 129. | 36.3 | |
| H09 | 05/30 | 57:20 | 162:46 | X47170 Y33594 | 25 | 2.0 | 59. | 109. | 62. | 47. | 277. | 17.0 | |
| H10 | 05/20 | 57:20 | 162:09 | Y33497 Z46920 | 28 | 1.4 | 19. | 10. | 14. | 10. | 52. | 19.1 | |
| H11 | 05/20 | 57:20 | 161:32 | Y33404 Z46672 | 30 | 1.6 | 6. | 0. | 0. | 1. | 7. | 9.1 | |
| H12 | 05/26 | 57:20 | 160:55 | Y33319 Z46430 | 35 | 1.4 | 25. | 1. | 1. | 1. | 28. | 4.8 | |
| H13 | 05/26 | 57:20 | 160:17 | Y33230 Z46175 | 32 | 2.2 | 13. | 1. | 0. | 0. | 15. | 0.0 | |
| H14 | 05/26 | 57:20 | 159:39 | Y33146 Z45920 | 30 | 2.3 | 10. | 0. | 2. | 2. | 14. | 12.0 | |
| H15 | 05/27 | 57:20 | 159:03 | Y33096 Z45678 | 26 | 2.7 | 4. | 1. | 0. | 2. | 7. | 25.0 | |
| H16 | 05/27 | 57:19 | 158:17 | Y32997 Z45373 | 11 | 4.5 | 1. | 1. | 0. | 1. | 2. | 33.3 | |
| H19 | 06/03 | 57:10 | 169:19 | X49803 Y34915 | 36 | 3.1 | 2. | 0. | 0. | 1. | 3. | 33.3 | |
| H19 | 06/12 | 57:20 | 168:59 | Y34765 Z49646 | 39 | 3.4 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| H20 | 06/03 | 57:20 | 169:36 | X49896 Y34905 | 33 | 2.9 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| H20 | 06/10 | 57:10 | 169:54 | X50037 Y35049 | 25 | 3.8 | 6. | 0. | 0. | 10. | 16. | 63.2 | |
| H21 | 06/13 | 57:20 | 170:12 | X18714 Y35003 | 29 | 5.1 | 1. | 1. | 0. | 1. | 3. | 33.3 | |
| I05 | 05/26 | 57:39 | 165:15 | X48142 Y33885 | 33 | | 0. | 0. | 0. | 2. | 2. | 100.0 | |
| I06 | 05/15 | 57:39 | 164:37 | Y33772 Z47392 | 29 | 0.8 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| I06 | 07/06 | 57:40 | 164:38 | Y33774 Z47997 | 22 | 3.5 | 0. | 0. | 2. | 6. | 7. | 77.8 | |
| I07 | 05/29 | 57:39 | 163:59 | X47644 Y33669 | 27 | 1.3 | 2. | 0. | 4. | 2. | 8. | 30.0 | |
| I08 | 05/19 | 57:40 | 163:21 | Y33562 Z47392 | 26 | 1.1 | 1. | 0. | 1. | 6. | 8. | 75.0 | |
| I09 | 05/30 | 57:40 | 162:45 | X47147 Y33461 | 23 | 2.1 | 4. | 2. | 3. | 13. | 21. | 60.9 | |
| I10 | 05/20 | 57:40 | 162:08 | Y33372 Z46902 | 26 | 1.7 | 6. | 1. | 1. | 1. | 10. | 11.8 | |
| I11 | 05/20 | 57:40 | 161:29 | Y33279 Z46649 | 29 | | 7. | 5. | 1. | 1. | 14. | 9.1 | |
| I12 | 05/26 | 57:40 | 160:52 | Y33193 Z46402 | 31 | 1.7 | 26. | 17. | 1. | 2. | 46. | 4.1 | |
| I13 | 05/26 | 57:40 | 160:16 | Y33111 Z46159 | 30 | 2.0 | 23. | 19. | 1. | 1. | 43. | 1.7 | |
| I14 | 05/25 | 57:40 | 159:37 | Y33029 Z45907 | 26 | 3.0 | 5. | 2. | 1. | 2. | 9. | 20.0 | |
| I15 | 05/25 | 57:40 | 159:01 | Y32953 Z45663 | 26 | 2.8 | 0. | 0. | 1. | 0. | 1. | 0.0 | |
| I18 | 06/13 | 57:40 | 168:24 | Y34482 Z49371 | 38 | 3.3 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| J07 | 05/29 | 58:00 | 164:00 | X47629 Y33527 | 24 | 0.5 | 3. | 0. | 1. | 5. | 8. | 55.6 | |
| J08 | 05/19 | 58:00 | 163:21 | Y33422 Z47371 | 23 | 1.6 | 1. | 0. | 0. | 1. | 2. | 33.3 | |
| J09 | 05/30 | 58:00 | 162:44 | X47133 Y33326 | 21 | 2.5 | 5. | 1. | 1. | 7. | 14. | 50.0 | |

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

TABLE 3 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | | TOTAL | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | | | |
| | | | | | | | | SMALL | PRERECRUIT | LEGAL | | | |
| J10 | 05/20 | 59:00 | 162:07 | Y33235 Z46885 | 20 | 2.2 | 3. | 0. | 0. | 1. | 4. | 28.6 | |
| J12 | 05/22 | 58:00 | 160:50 | Y33062 Z46384 | 24 | 1.9 | 5. | 0. | 1. | 1. | 7. | 18.2 | |
| J13 | 05/22 | 58:00 | 160:12 | Y32980 Z46136 | 27 | 1.9 | 3. | 1. | 0. | 0. | 3. | 0.0 | |
| J16 | 05/24 | 57:59 | 158:19 | Y32757 Z45391 | 18 | 4.0 | 47. | 65. | 0. | 0. | 112. | 0.0 | |
| K03 | 05/24 | 53:20 | 166:33 | X48558 Y33785 | 25 | 1.0 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| K05 | 05/25 | 58:19 | 165:16 | X48087 Y33576 | 23 | | 2. | 0. | 0. | 2. | 4. | 50.0 | |
| K08 | 05/19 | 58:20 | 163:22 | Y33279 Z47356 | 20 | 1.9 | 0. | 0. | 1. | 0. | 1. | 0.0 | |
| K09 | 05/29 | 58:20 | 162:43 | X47107 Y33181 | 16 | 3.6 | 1. | 0. | 0. | 1. | 2. | 50.0 | |
| K11 | 05/22 | 58:20 | 161:23 | Y33002 Z46595 | 17 | 4.3 | 1. | 0. | 1. | 0. | 1. | 0.0 | |
| K12 | 05/22 | 58:19 | 160:46 | Y32922 Z46353 | 11 | 4.3 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| LJ1 | 06/07 | 58:40 | 167:52 | Y33773 Z48937 | 25 | | 1. | 0. | 0. | 0. | 1. | 0.0 | |
| L04 | 07/15 | 58:40 | 165:49 | Y33483 Z48237 | 19 | 6.0 | 1. | 0. | 0. | 0. | 1. | 0.0 | |
| L06 | 07/15 | 59:40 | 164:34 | Y33295 Z47780 | 20 | 6.0 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| M01 | 05/08 | 59:00 | 167:53 | Y33565 Z48850 | 22 | | 1. | 0. | 0. | 1. | 1. | 50.0 | |
| N01 | 06/08 | 59:20 | 167:55 | Y33345 Z48768 | 21 | | 0. | 1. | 0. | 0. | 1. | 0.0 | |
| Q01 | 05/08 | 60:20 | 167:59 | Y32643 Z48510 | 17 | | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| Q18 | 06/09 | 60:20 | 168:41 | Y32701 Z48680 | 19 | | 0. | 1. | 0. | 0. | 1. | 0.0 | |
| Q19 | 07/05 | 60:20 | 169:20 | Y32748 Z48922 | 23 | 3.2 | 0. | 0. | 1. | 1. | 2. | 66.7 | |
| Q20 | 07/05 | 60:20 | 170:02 | Y32789 Z48961 | 29 | 1.7 | 0. | 0. | 0. | 1. | 1. | 100.0 | |

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

TABLE 4 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE BLUE KING CRAB WERE TAKEN

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | TOTAL | |
| | | | | | | | | SMALL | PRERECRUIT | LEGAL | | |
| F19 | 06/20 | 56:40 | 168:54 | Y34951 Z49613 | 56 | 3.5 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| G02 | 06/06 | 57:00 | 167:05 | Y34488 Z48911 | 40 | | 1. | 0. | 0. | 0. | 1. | 0.0 |
| G18 | 06/20 | 57:00 | 169:20 | Y34757 Z49416 | 44 | 3.1 | 0. | 0. | 1. | 4. | 4. | 85.7 |
| G19 | 06/08 | 55:49 | 169:18 | X49787 Y35004 | 42 | 3.0 | 11. | 11. | 3. | 5. | 29. | 15.6 |
| G19 | 06/20 | 57:00 | 169:57 | Y34890 Z49662 | 44 | 3.3 | 5. | 7. | 0. | 1. | 13. | 5.3 |
| G20 | 06/09 | 56:59 | 169:33 | X49899 Y35025 | 42 | 4.5 | 2222. | 6. | 5. | 30. | 2263. | 1.3 |
| G20 | 06/10 | 56:50 | 169:55 | X49996 Y35107 | 39 | 3.9 | 0. | 2. | 0. | 0. | 2. | 0.0 |
| G21 | 06/15 | 57:00 | 170:10 | X18686 Y35132 | 37 | 4.5 | 5. | 0. | 5. | 7. | 17. | 40.9 |
| G23 | 07/23 | 57:09 | 171:26 | ----- | 57 | 4.0 | 0. | 0. | 0. | 3. | 3. | 100.0 |
| G23 | 07/23 | 57:09 | 171:26 | X18279 Y34945 | 57 | 4.0 | 0. | 0. | 0. | 3. | 3. | 100.0 |
| H18 | 06/13 | 57:20 | 168:22 | Y34638 Z49409 | 40 | 3.4 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| H19 | 06/08 | 57:10 | 169:19 | X49803 Y34915 | 38 | 3.1 | 5. | 3. | 0. | 0. | 8. | 0.0 |
| H19 | 06/12 | 57:20 | 168:59 | Y34765 Z49646 | 39 | 3.4 | 38. | 35. | 5. | 3. | 81. | 4.1 |
| H20 | 06/08 | 57:20 | 169:36 | X49896 Y34905 | 33 | 2.9 | 4. | 1. | 2. | 7. | 14. | 53.3 |
| H20 | 06/10 | 57:10 | 169:54 | X50037 Y35049 | 25 | 3.8 | 42. | 12. | 4. | 6. | 63. | 9.2 |
| H21 | 06/13 | 57:20 | 170:12 | X19714 Y35003 | 29 | 5.1 | 7. | 1. | 1. | 4. | 13. | 28.6 |
| H23 | 06/16 | 57:20 | 171:29 | X18278 Y34864 | 54 | | 0. | 0. | 0. | 1. | 1. | 100.0 |
| H23 | 07/20 | 57:16 | 171:24 | X18306 Y34904 | 55 | 4.2 | 0. | 0. | 0. | 7. | 7. | 100.0 |
| H23 | 07/22 | 57:10 | 171:28 | X18269 Y34934 | 57 | 3.8 | 1. | 0. | 0. | 2. | 2. | 75.0 |
| H23 | 07/22 | 57:10 | 171:27 | X18277 Y34937 | 57 | 3.8 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| H23 | 07/23 | 57:10 | 171:26 | X18287 Y34940 | 57 | 4.0 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| H23 | 07/24 | 57:10 | 171:29 | X18264 Y34933 | 57 | 3.8 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| H24 | 07/21 | 57:11 | 171:54 | X18105 Y34862 | 60 | 3.8 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| I18 | 06/13 | 57:40 | 168:24 | Y34482 Z49371 | 33 | 3.3 | 1. | 0. | 0. | 3. | 3. | 80.0 |
| I19 | 06/13 | 57:40 | 169:02 | Y34603 Z49602 | 37 | 3.3 | 0. | 1. | 2. | 2. | 5. | 37.5 |
| I20 | 06/11 | 57:49 | 169:40 | X18698 Y00705 | 37 | | 4. | 2. | 3. | 2. | 10. | 18.2 |
| I20 | 06/11 | 57:29 | 169:59 | X18704 Y34870 | 36 | 2.0 | 170. | 5. | 1. | 6. | 182. | 3.3 |
| I21 | 06/11 | 57:40 | 170:16 | X18616 Y34755 | 39 | 2.1 | 7. | 2. | 1. | 10. | 20. | 50.0 |
| I21 | 06/13 | 57:30 | 170:38 | X18585 Y34980 | 41 | 3.6 | 1. | 1. | 0. | 2. | 4. | 50.0 |
| I22 | 06/13 | 57:40 | 170:54 | X18457 Y34744 | 45 | 3.0 | 2. | 0. | 0. | 1. | 3. | 25.0 |
| J19 | 06/13 | 58:00 | 169:04 | Y34398 Z49519 | 37 | 3.2 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| J20 | 06/11 | 57:50 | 169:57 | X18628 Y00618 | 38 | | 1. | 0. | 2. | 15. | 18. | 83.3 |
| J20 | 06/13 | 58:00 | 169:42 | Y34476 Z49701 | 38 | 2.7 | 0. | 0. | 1. | 6. | 6. | 38.9 |
| J21 | 06/14 | 58:00 | 170:20 | Y34514 Z49843 | 41 | 1.7 | 1. | 0. | 0. | 2. | 3. | 75.0 |
| J22 | 05/13 | 57:50 | 171:16 | X19321 Y34606 | 49 | 3.0 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| J22 | 06/14 | 58:00 | 170:58 | Y34512 Z49938 | 47 | 2.2 | 0. | 0. | 0. | 2. | 2. | 100.0 |
| J23 | 06/14 | 58:00 | 171:36 | Y34473 Z49994 | 53 | 2.7 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| K22 | 06/15 | 59:20 | 171:01 | Y34277 Z49922 | 45 | 1.3 | 0. | 0. | 1. | 2. | 3. | 75.0 |
| L21 | 06/16 | 58:40 | 170:26 | Y34029 Z49605 | 40 | 1.8 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| L22 | 06/16 | 58:40 | 171:05 | Y34036 Z49708 | 45 | 0.8 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| M25 | 06/25 | 59:00 | 173:05 | Y33745 Z49794 | 59 | 1.6 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| M23 | 06/24 | 59:20 | 171:50 | Y33560 Z49573 | 44 | 1.6 | 1. | 0. | 0. | 0. | 1. | 0.0 |
| M25 | 06/25 | 59:20 | 173:09 | Y33529 Z49701 | 55 | 0.8 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| M26 | 06/25 | 59:20 | 173:48 | Y33499 Z49745 | 60 | 0.8 | 0. | 1. | 1. | 1. | 2. | 33.3 |
| M27 | 06/30 | 59:19 | 174:27 | X17239 Y33474 | 64 | 2.0 | 0. | 0. | 1. | 0. | 1. | 0.0 |

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 4 DATA FROM THE 1960 EASTERN BERING SEA TRAWL SURVEY WHERE BLUE KING CRAB WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | TOTAL | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|-------------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | | |
| | | | | | | | | SMALL | PRE-RECRUIT | LEGAL | | |
| Q03 | 07/17 | 59:40 | 166:24 | Y32950 Z48240 | 15 | 7.8 | 2. | 0. | 0. | 0. | 2. | 0.0 |
| Q24 | 06/24 | 59:40 | 172:34 | Y33323 Z49547 | 46 | -0.6 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| Q25 | 06/24 | 59:40 | 173:14 | Y33311 Z49610 | 52 | 0.4 | 0. | 0. | 0. | 3. | 3. | 100.0 |
| Q26 | 06/24 | 59:40 | 173:52 | Y33294 Z49659 | 67 | 1.6 | 0. | 0. | 1. | 4. | 5. | 85.7 |
| P23 | 07/04 | 60:03 | 171:57 | Y33089 Z49370 | 36 | -0.9 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| P24 | 07/13 | 60:00 | 172:38 | Y33093 Z49452 | 36 | 0.0 | 0. | 0. | 0. | 3. | 3. | 100.0 |
| P25 | 07/13 | 60:00 | 173:18 | Y33092 Z49517 | 40 | -0.4 | 0. | 3. | 0. | 0. | 3. | 0.0 |
| P26 | 07/13 | 60:00 | 173:56 | Y33084 Z49572 | 52 | 1.0 | 0. | 0. | 2. | 1. | 4. | 33.3 |
| P27 | 07/12 | 60:00 | 174:36 | Y33067 Z49618 | 59 | 1.7 | 0. | 1. | 2. | 5. | 8. | 57.1 |
| P28 | 07/12 | 60:00 | 175:16 | Y33050 Z49658 | 64 | 1.3 | 0. | 0. | 1. | 2. | 2. | 75.0 |
| P31 | 07/11 | 60:00 | 177:12 | Y32982 Z49743 | 76 | 1.3 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| Q23 | 07/05 | 60:20 | 172:04 | Y32865 Z49283 | 32 | -0.5 | 5. | 15. | 0. | 2. | 23. | 8.8 |
| Q25 | 07/13 | 60:19 | 173:24 | Y32877 Z49430 | 32 | 0.2 | 28. | 45. | 14. | 16. | 103. | 15.5 |
| Q26 | 07/13 | 60:19 | 174:04 | Y32875 Z49490 | 50 | -1.0 | 0. | 0. | 1. | 1. | 1. | 50.0 |
| Q27 | 07/12 | 60:20 | 174:42 | Y32864 Z49537 | 56 | 1.5 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| Q24 | 07/07 | 60:40 | 172:47 | Y32656 Z49278 | 24 | 1.5 | 1. | 2. | 2. | 2. | 8. | 30.8 |
| Q25 | 07/07 | 60:40 | 173:28 | Y32658 Z49342 | 36 | -0.3 | 0. | 4. | 1. | 1. | 6. | 12.5 |
| R26 | 07/07 | 60:40 | 174:08 | Y32671 Z49412 | 48 | -1.0 | 0. | 1. | 0. | 1. | 2. | 66.7 |
| R31 | 07/10 | 60:40 | 177:29 | Y32631 Z49609 | 79 | 1.4 | 1. | 0. | 0. | 0. | 1. | 0.0 |
| R32 | 07/10 | 60:40 | 178:10 | Y32612 Z49636 | 89 | 2.0 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| S30 | 07/09 | 61:00 | 176:58 | Y32461 Z49510 | 65 | 1.0 | 1. | 0. | 1. | 0. | 1. | 0.0 |
| S31 | 07/09 | 61:00 | 177:38 | Y32457 Z49543 | 74 | 1.7 | 1. | 0. | 1. | 0. | 2. | 0.0 |
| S32 | 07/09 | 60:59 | 173:18 | Y32454 Z49573 | 86 | 2.4 | 1. | 1. | 0. | 0. | 1. | 0.0 |
| T29 | 07/08 | 61:20 | 176:18 | Y32274 Z49390 | 58 | 0.5 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| T30 | 07/09 | 61:20 | 176:56 | Y32282 Z49432 | 64 | 1.0 | 1. | 0. | 0. | 0. | 1. | 0.0 |
| U29 | 07/08 | 61:39 | 176:26 | Y32096 Z49323 | 58 | 0.5 | 0. | 1. | 0. | 0. | 1. | 0.0 |

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 1980 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | | TOTAL | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | | | |
| | | | | | | | | SMALL | PRERECRUIT | LEGAL | | | |
| A01 | 06/05 | 55:01 | 167:31 | Y34896 Z48882 | 133 | 4.1 | 3. | 3. | 0. | 0. | 6. | 0.0 | |
| A02 | 05/31 | 55:00 | 166:56 | Y34823 Z48679 | 86 | 3.8 | 82. | 182. | 33. | 1. | 299. | 0.4 | |
| A03 | 05/22 | 55:00 | 160:21 | X48476 Y34740 | 76 | 4.0 | 145. | 105. | 51. | 24. | 325. | 7.3 | |
| A04 | 05/12 | 55:00 | 165:45 | X18315 Y34656 | 71 | 4.3 | 13. | 4. | 2. | 4. | 23. | 18.6 | |
| A05 | 07/09 | 55:00 | 165:09 | Y34564 Z48056 | 59 | 4.6 | 25. | 32. | 0. | 0. | 57. | 0.0 | |
| B01 | 06/05 | 55:20 | 167:33 | Y34881 Z48931 | 81 | 4.5 | 53. | 428. | 6. | 0. | 487. | 0.0 | |
| B02 | 05/31 | 55:20 | 166:58 | Y34797 Z48735 | 77 | 3.8 | 64. | 18. | 19. | 8. | 109. | 7.0 | |
| B03 | 05/22 | 55:20 | 166:20 | X48516 Y34703 | 70 | | 28. | 40. | 16. | 2. | 86. | 2.3 | |
| B04 | 05/12 | 55:20 | 165:46 | X18398 Y34617 | 66 | | 10. | 3. | 3. | 3. | 19. | 13.5 | |
| B05 | 06/22 | 55:21 | 165:10 | X18428 Y48088 | 58 | 4.6 | 55. | 22. | 3. | 0. | 79. | 0.0 | |
| B06 | 06/22 | 55:20 | 164:35 | X18448 Y47867 | 55 | 3.6 | 35. | 3. | 15. | 5. | 58. | 9.2 | |
| B07 | 06/22 | 55:20 | 164:00 | X18465 Y47655 | 41 | 4.0 | 0. | 0. | 1. | 0. | 1. | 0.0 | |
| B07 | 07/07 | 55:20 | 164:01 | Y34336 Z47657 | 38 | 5.6 | 0. | 0. | 1. | 0. | 1. | 0.0 | |
| B08 | 05/31 | 55:20 | 163:25 | X47430 Y34243 | 28 | | 59. | 193. | 134. | 72. | 459. | 15.8 | |
| B08 | 07/07 | 55:20 | 163:26 | Y34246 Z47434 | 25 | 7.0 | 13. | 19. | 3. | 2. | 37. | 4.4 | |
| C01 | 06/01 | 55:39 | 167:35 | Y34856 Z48995 | 74 | 5.0 | 43. | 121. | 12. | 1. | 176. | 0.7 | |
| C02 | 05/31 | 55:40 | 166:58 | Y34760 Z48785 | 74 | 3.7 | 3. | 19. | 3. | 1. | 25. | 2.2 | |
| C03 | 05/22 | 55:40 | 166:22 | X48563 Y34660 | 67 | 3.5 | 8. | 35. | 8. | 1. | 52. | 1.8 | |
| C04 | 05/12 | 55:40 | 165:48 | X18480 Y34565 | 65 | 4.0 | 4. | 1. | 4. | 1. | 9. | 5.9 | |
| C05 | 05/27 | 55:40 | 165:10 | X48109 Y34460 | 58 | 3.3 | 17. | 15. | 6. | 3. | 42. | 6.5 | |
| C06 | 05/27 | 55:40 | 164:36 | X47894 Y34368 | 51 | 3.6 | 103. | 67. | 14. | 10. | 195. | 5.1 | |
| C07 | 05/28 | 55:41 | 165:00 | X47661 Y34264 | 50 | 3.0 | 25. | 22. | 0. | 0. | 47. | 0.0 | |
| C08 | 05/31 | 55:40 | 163:24 | X47430 Y34171 | 42 | 3.2 | 273. | 5. | 64. | 87. | 429. | 20.3 | |
| C08 | 07/07 | 55:40 | 163:24 | Y34172 Z47432 | 42 | 4.0 | 40. | 25. | 28. | 32. | 125. | 25.3 | |
| C09 | 05/31 | 58:40 | 162:51 | X47214 Y34085 | 27 | 3.9 | 17. | 4. | 2. | 5. | 28. | 17.9 | |
| C09 | 07/07 | 55:40 | 162:52 | Y34090 Z47228 | 29 | 7.0 | 5. | 5. | 2. | 0. | 12. | 0.0 | |
| C18 | 06/05 | 53:40 | 168:11 | X49198 Y34942 | 72 | 4.0 | 108. | 304. | 4. | 0. | 416. | 0.0 | |
| D01 | 06/01 | 55:59 | 167:36 | Y34821 Z49053 | 73 | 4.5 | 56. | 171. | 4. | 0. | 231. | 0.0 | |
| D02 | 06/01 | 56:00 | 167:00 | Y34717 Z48833 | 75 | 3.9 | 5. | 18. | 6. | 0. | 28. | 0.0 | |
| D03 | 05/22 | 56:00 | 166:24 | X48606 Y34611 | 65 | | 5. | 5. | 6. | 0. | 15. | 0.0 | |
| D04 | 05/12 | 56:00 | 165:47 | X18552 Y34501 | 59 | 3.5 | 2. | 2. | 4. | 1. | 9. | 6.3 | |
| D05 | 05/27 | 56:00 | 165:11 | X48137 Y34397 | 51 | 3.6 | 7. | 8. | 2. | 2. | 19. | 8.7 | |
| D06 | 05/16 | 56:00 | 164:35 | Y34286 Z47891 | 50 | 2.2 | 6. | 1. | 2. | 2. | 11. | 18.8 | |
| D07 | 05/28 | 55:59 | 163:59 | X47670 Y34198 | 48 | | 55. | 5. | 18. | 5. | 82. | 5.6 | |
| D08 | 05/16 | 56:00 | 163:24 | Y34097 Z47439 | 48 | 2.2 | 7. | 2. | 1. | 0. | 9. | 0.0 | |
| D09 | 05/31 | 56:00 | 162:49 | X47207 Y34001 | 42 | 3.0 | 78. | 5. | 7. | 9. | 99. | 9.2 | |
| D10 | 05/18 | 56:00 | 162:14 | Y33910 Z46976 | 39 | 3.2 | 2. | 5. | 1. | 0. | 8. | 0.0 | |
| D18 | 06/05 | 56:00 | 168:13 | X49270 Y34920 | 79 | 3.7 | 40. | 97. | 3. | 0. | 140. | 0.0 | |
| E01 | 06/20 | 56:20 | 167:39 | Y34775 Z49109 | 72 | 3.5 | 1. | 26. | 6. | 1. | 35. | 3.8 | |
| E02 | 06/06 | 56:20 | 167:02 | Y34657 Z48872 | 62 | 3.4 | 4. | 7. | 4. | 1. | 16. | 4.0 | |
| E03 | 05/23 | 56:19 | 166:24 | X48643 Y34551 | 55 | | 6. | 2. | 0. | 1. | 8. | 10.0 | |
| E04 | 05/13 | 56:20 | 165:48 | X18617 Y34429 | 51 | 2.2 | 1. | 3. | 1. | 1. | 7. | 20.0 | |
| E05 | 05/27 | 56:20 | 165:12 | X48155 Y34323 | 46 | 1.9 | 0. | 0. | 1. | 1. | 2. | 50.0 | |
| E06 | 05/16 | 56:21 | 164:35 | X18631 Y34195 | 47 | 1.4 | 0. | 4. | 1. | 3. | 7. | 38.5 | |
| E07 | 05/28 | 55:20 | 164:01 | X47682 Y34114 | 45 | 1.9 | 10. | 1. | 2. | 0. | 13. | 0.0 | |

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

TABLE 5 DATA FROM THE 1933 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRD TANNER CRAB WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LDRAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | | TOTAL | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | TOTAL | | |
| | | | | | | | | SMALL | PRERECRUIT | LEGAL | | | |
| E08 | 05/16 | 56:19 | 163:23 | Y34011 Z47435 | 48 | 3.0 | 9. | 12. | 1. | 1. | 23. | 2.8 | |
| E09 | 05/31 | 56:20 | 162:49 | X47198 Y33911 | 42 | 3.0 | 20. | 41. | 5. | 8. | 75. | 11.0 | |
| E10 | 05/18 | 56:20 | 162:12 | Y33815 Z46958 | 43 | 2.4 | 30. | 1. | 16. | 37. | 94. | 44.0 | |
| E11 | 05/29 | 56:20 | 161:38 | Y33731 Z46733 | 35 | 3.1 | 8. | 3. | 12. | 1. | 24. | 4.9 | |
| E12 | 05/29 | 56:20 | 161:00 | Y33637 Z46480 | 29 | 3.8 | 1. | 4. | 8. | 3. | 15. | 17.4 | |
| E18 | 06/06 | 56:20 | 168:15 | Y49335 Y34886 | 82 | 3.7 | 733. | 592. | 29. | 12. | 1367. | 0.9 | |
| E19 | 06/06 | 56:20 | 168:50 | X49539 Y34982 | 76 | 3.6 | 38. | 65. | 6. | 2. | 111. | 1.5 | |
| E20 | 06/21 | 56:20 | 169:29 | Y18485 Y49744 | 73 | 4.0 | 3. | 7. | 0. | 0. | 11. | 0.0 | |
| E21 | 06/21 | 57:20 | 170:05 | X13398 Y49901 | 58 | 4.0 | 21. | 51. | 22. | 2. | 95. | 1.8 | |
| E22 | 06/21 | 56:19 | 170:41 | X13259 Y50008 | 64 | 4.0 | 1200. | 157. | 35. | 2. | 1394. | 0.2 | |
| F01 | 06/20 | 56:40 | 167:40 | Y34707 Z49139 | 51 | 3.4 | 0. | 0. | 5. | 4. | 9. | 46.2 | |
| F02 | 06/06 | 56:40 | 167:04 | Y34587 Z48903 | 52 | 2.7 | 0. | 1. | 3. | 0. | 4. | 0.0 | |
| F03 | 05/23 | 56:40 | 166:26 | X48652 Y34464 | 45 | 2.0 | 1. | 1. | 2. | 0. | 3. | 0.0 | |
| F04 | 05/13 | 56:40 | 165:50 | X18668 Y34350 | 43 | 2.2 | 1. | 0. | 0. | 1. | 1. | 50.0 | |
| F05 | 05/27 | 56:40 | 165:14 | X48169 Y34326 | 40 | 1.8 | 0. | 0. | 2. | 2. | 4. | 50.0 | |
| F06 | 05/15 | 56:40 | 164:36 | X18672 Y34114 | 41 | 1.4 | 0. | 2. | 0. | 1. | 3. | 20.0 | |
| F06 | 07/06 | 56:40 | 164:36 | Y34123 Z47918 | 40 | 2.0 | 1. | 0. | 0. | 2. | 2. | 66.7 | |
| F07 | 05/28 | 56:40 | 164:00 | X48678 Y34018 | 40 | 1.5 | 1. | 2. | 6. | 2. | 11. | 18.8 | |
| F08 | 05/18 | 56:40 | 163:23 | Y33914 Z47431 | 41 | 2.0 | 6. | 4. | 1. | 1. | 12. | 5.3 | |
| F09 | 05/31 | 56:40 | 162:47 | X47191 Y33816 | 33 | 2.5 | 24. | 18. | 3. | 4. | 48. | 7.5 | |
| F10 | 05/18 | 56:40 | 162:11 | Y33721 Z46947 | 39 | 1.3 | 2. | 5. | 1. | 4. | 11. | 35.3 | |
| F11 | 05/20 | 56:40 | 161:35 | Y33629 Z46708 | 50 | 2.9 | 163. | 2. | 19. | 96. | 280. | 34.4 | |
| F12 | 05/28 | 56:39 | 160:59 | Y33540 Z46466 | 38 | 2.8 | 22. | 4. | 4. | 6. | 36. | 17.2 | |
| F13 | 05/26 | 56:40 | 160:22 | Y33450 Z46218 | 32 | 2.7 | 4. | 2. | 6. | 2. | 14. | 16.7 | |
| F14 | 05/28 | 56:40 | 159:46 | Y33368 Z45976 | 19 | 3.6 | 0. | 1. | 1. | 1. | 2. | 33.3 | |
| F18 | 06/20 | 56:40 | 168:17 | Y34830 Z49379 | 58 | 3.5 | 0. | 6. | 0. | 6. | 12. | 50.0 | |
| F19 | 06/06 | 56:30 | 169:15 | X49709 Y35032 | 52 | 3.5 | 22. | 35. | 5. | 1. | 63. | 1.4 | |
| F20 | 06/10 | 56:31 | 169:48 | X49879 Y35105 | 46 | 3.7 | 482. | 645. | 118. | 45. | 1291. | 3.5 | |
| F21 | 06/18 | 56:31 | 170:32 | X18385 Y35138 | 61 | 4.0 | 27. | 145. | 12. | 1. | 185. | 0.3 | |
| F21 | 06/18 | 56:40 | 170:08 | X18541 Z50007 | 52 | 4.5 | 17. | 179. | 35. | 3. | 234. | 1.3 | |
| F22 | 06/18 | 56:40 | 170:44 | X18399 Y35127 | 60 | 4.9 | 72. | 105. | 11. | 4. | 192. | 2.1 | |
| F23 | 06/17 | 56:40 | 171:21 | X18195 Y35070 | 63 | 3.8 | 251. | 118. | 13. | 2. | 384. | 0.6 | |
| F24 | 06/22 | 56:40 | 171:58 | Y34993 Z50164 | 71 | 3.7 | 201. | 458. | 0. | 0. | 659. | 0.0 | |
| F25 | 06/27 | 56:40 | 172:34 | Y34913 Z50172 | 77 | 3.4 | 44. | 35. | 0. | 0. | 79. | 0.0 | |
| G02 | 06/06 | 57:00 | 167:05 | Y34488 Z48911 | 40 | | 1. | 0. | 1. | 0. | 1. | 0.0 | |
| G03 | 05/23 | 57:00 | 166:28 | X48668 Y34368 | 39 | 2.6 | 0. | 1. | 0. | 0. | 1. | 0.0 | |
| G04 | 05/13 | 57:00 | 165:51 | X18709 Y34250 | 41 | 1.5 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| G05 | 05/26 | 57:00 | 165:13 | X48165 Y34131 | 37 | 2.0 | 0. | 1. | 1. | 0. | 2. | 0.0 | |
| G06 | 05/15 | 57:00 | 164:36 | X18707 Y34007 | 37 | 1.7 | 1. | 3. | 2. | 0. | 6. | 0.0 | |
| G06 | 07/06 | 57:00 | 164:36 | Y34014 Z47916 | 37 | 2.0 | 1. | 0. | 3. | 2. | 5. | 28.6 | |
| G07 | 05/28 | 57:00 | 164:00 | X47672 Y33913 | 36 | 2.0 | 5. | 5. | 10. | 0. | 20. | 0.0 | |
| G08 | 05/19 | 57:00 | 163:22 | Y33806 Z47423 | 36 | 1.9 | 1. | 1. | 0. | 0. | 2. | 0.0 | |
| G09 | 05/30 | 57:00 | 162:47 | X47184 Y33708 | 31 | 2.0 | 3. | 5. | 4. | 9. | 21. | 42.9 | |
| G10 | 05/20 | 56:59 | 162:10 | Y33615 Z46936 | 34 | 2.1 | 2. | 2. | 3. | 5. | 12. | 40.0 | |
| G11 | 05/20 | 57:20 | 163:22 | Y33692 Z47412 | 29 | 2.4 | 1. | 1. | 1. | 2. | 6. | 33.3 | |

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

TABLE 5 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | | TOTAL | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | | | |
| | | | | | | | | SMALL | PRERECRUIT | LEGAL | | | |
| G12 | 05/28 | 56:59 | 160:56 | Y33432 Z46442 | 35 | | 0. | 1. | 3. | 7. | 11. | 64.7 | |
| G13 | 05/28 | 57:00 | 160:20 | Y33345 Z46200 | 33 | 2.2 | 3. | 4. | 1. | 4. | 12. | 38.1 | |
| G14 | 05/27 | 56:59 | 159:42 | Y33261 Z45947 | 30 | 2.6 | 7. | 9. | 7. | 1. | 23. | 2.9 | |
| G15 | 05/27 | 56:59 | 159:07 | Y33184 Z45711 | 16 | 3.7 | 0. | 0. | 1. | 0. | 1. | 0.0 | |
| G18 | 06/20 | 57:00 | 168:20 | Y34757 Z49416 | 44 | 3.1 | 0. | 0. | 28. | 0. | 28. | 0.0 | |
| G19 | 06/20 | 57:00 | 163:57 | Y34890 Z49662 | 44 | 3.3 | 13. | 0. | 0. | 0. | 13. | 0.0 | |
| G20 | 06/09 | 56:59 | 169:33 | X49899 Y35025 | 42 | 4.5 | 11. | 8. | 5. | 5. | 29. | 18.8 | |
| G20 | 06/10 | 56:50 | 169:55 | X49996 Y35107 | 39 | 3.9 | 93. | 63. | 42. | 7. | 205. | 3.3 | |
| G21 | 06/15 | 57:00 | 170:10 | X18686 Y35132 | 37 | 4.5 | 185. | 268. | 102. | 34. | 588. | 5.8 | |
| G21 | 06/17 | 56:50 | 170:28 | X18544 Y35136 | 54 | 3.9 | 28. | 144. | 17. | 2. | 192. | 0.9 | |
| G22 | 06/16 | 57:00 | 170:47 | X19509 Y35092 | 50 | 4.0 | 5. | 55. | 14. | 0. | 74. | 0.0 | |
| G23 | 06/17 | 57:00 | 171:23 | X18278 Y35002 | 58 | 5.0 | 14. | 39. | 23. | 1. | 126. | 0.7 | |
| G23 | 07/20 | 57:10 | 171:30 | X18254 Y34929 | 58 | 3.8 | 15. | 64. | 3. | 1. | 83. | 1.7 | |
| G23 | 07/21 | 57:10 | 171:30 | X18260 Y34931 | 58 | 3.8 | 25. | 74. | 8. | 3. | 111. | 2.8 | |
| G23 | 07/22 | 57:09 | 171:26 | X18283 Y34945 | 57 | 3.9 | 4. | 20. | 8. | 7. | 39. | 17.2 | |
| G23 | 07/23 | 57:09 | 171:26 | ----- | 57 | 4.0 | 16. | 41. | 5. | 0. | 62. | 0.0 | |
| G23 | 07/23 | 57:09 | 171:26 | X18279 Y34945 | 57 | 4.0 | 14. | 52. | 3. | 0. | 69. | 0.0 | |
| G24 | 06/22 | 57:00 | 172:02 | Y34903 Z50181 | 68 | 3.6 | 394. | 171. | 21. | 0. | 586. | 0.0 | |
| G25 | 06/27 | 56:59 | 172:39 | Y34815 Z50179 | 64 | 3.4 | 5. | 23. | 1. | 0. | 29. | 0.0 | |
| G26 | 06/28 | 56:50 | 173:15 | X17548 Y34730 | 75 | 3.6 | 315. | 949. | 3. | 0. | 1267. | 0.0 | |
| H01 | 06/18 | 57:20 | 167:44 | Y34505 Z49156 | 40 | 3.0 | 0. | 0. | 1. | 1. | 1. | 50.0 | |
| H02 | 06/06 | 57:20 | 167:07 | Y34375 Z48911 | 38 | 3.6 | 0. | 1. | 1. | 1. | 4. | 20.0 | |
| H03 | 05/23 | 57:20 | 166:28 | X48654 Y34248 | 37 | | 0. | 0. | 2. | 2. | 4. | 50.0 | |
| H04 | 05/14 | 57:20 | 165:52 | X13736 Y34134 | 38 | 0.4 | 0. | 1. | 1. | 1. | 3. | 40.0 | |
| H05 | 05/26 | 57:20 | 165:14 | X48159 Y34016 | 35 | 1.0 | 0. | 9. | 10. | 0. | 19. | 0.0 | |
| H06 | 05/15 | 57:19 | 164:37 | X18732 Y33894 | 36 | 2.3 | 0. | 1. | 2. | 0. | 2. | 0.0 | |
| H06 | 07/06 | 57:20 | 164:38 | Y33906 Z47918 | 34 | 2.3 | 0. | 1. | 2. | 1. | 3. | 25.0 | |
| H07 | 05/29 | 57:19 | 164:00 | X47665 Y33799 | 33 | 1.5 | 0. | 3. | 2. | 1. | 6. | 10.0 | |
| H08 | 05/19 | 57:00 | 161:34 | Y33521 Z46693 | 37 | 1.4 | 0. | 0. | 0. | 1. | 1. | 100.0 | |
| H09 | 05/30 | 57:20 | 162:46 | X47170 Y33594 | 25 | 2.0 | 1. | 10. | 8. | 1. | 20. | 3.6 | |
| H10 | 05/20 | 57:20 | 162:09 | Y33497 Z46920 | 28 | 1.4 | 4. | 5. | 5. | 4. | 20. | 17.6 | |
| H11 | 05/20 | 57:20 | 161:32 | Y33404 Z46672 | 30 | 1.6 | 1. | 0. | 4. | 4. | 9. | 42.9 | |
| H12 | 05/26 | 57:20 | 160:55 | Y33319 Z46430 | 35 | 1.4 | 2. | 3. | 2. | 10. | 17. | 57.7 | |
| H13 | 05/26 | 57:20 | 160:17 | Y33230 Z46175 | 32 | 2.2 | 1. | 0. | 5. | 4. | 11. | 37.5 | |
| H14 | 05/26 | 57:20 | 159:39 | Y33146 Z45920 | 30 | 2.3 | 1. | 4. | 3. | 2. | 11. | 21.1 | |
| H15 | 05/27 | 57:20 | 159:03 | Y33096 Z45678 | 26 | 2.7 | 0. | 1. | 1. | 0. | 2. | 0.0 | |
| H18 | 06/13 | 57:20 | 168:22 | Y34638 Z49409 | 40 | 3.4 | 5. | 9. | 2. | 1. | 17. | 3.7 | |
| H19 | 06/08 | 57:10 | 169:19 | X49803 Y34915 | 33 | 3.1 | 1. | 9. | 5. | 1. | 16. | 5.6 | |
| H19 | 06/12 | 57:20 | 169:59 | Y34765 Z49646 | 39 | 3.4 | 1. | 1. | 2. | 1. | 5. | 14.3 | |
| H20 | 06/08 | 57:20 | 169:36 | X49896 Y34905 | 33 | 2.9 | 18. | 0. | 0. | 0. | 18. | 0.0 | |
| H20 | 06/10 | 57:10 | 169:54 | X50037 Y35049 | 25 | 3.8 | 92. | 173. | 10. | 10. | 285. | 3.5 | |
| H21 | 06/13 | 57:20 | 170:12 | X18714 Y35003 | 29 | 5.1 | 10. | 25. | 3. | 0. | 37. | 0.0 | |
| H22 | 06/16 | 57:20 | 170:50 | X18524 Y34961 | 44 | 3.7 | 3. | 2. | 5. | 0. | 10. | 0.0 | |
| H22 | 06/16 | 57:10 | 171:11 | X18388 Y34980 | 53 | 3.6 | 3. | 2. | 7. | 5. | 17. | 27.3 | |
| H23 | 06/16 | 57:20 | 171:29 | X18278 Y34864 | 54 | | 22. | 1. | 2. | 2. | 26. | 6.5 | |

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

TABLE 5 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE SAIROI TANNER CRAB WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|-------------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | TOTAL | |
| | | | | | | | | SMALL | PRE-RECRUIT | LEGAL | | |
| H23 | 07/20 | 57:10 | 171:24 | X18298 Y34942 | 56 | 4.2 | 0. | 29. | 2. | 2. | 33. | 6.7 |
| H23 | 07/20 | 57:16 | 171:24 | X18306 Y34904 | 55 | 4.2 | 13. | 6. | 1. | 4. | 24. | 18.4 |
| H23 | 07/21 | 57:11 | 171:26 | X18286 Y34935 | 57 | 3.8 | 6. | 22. | 3. | 4. | 35. | 11.3 |
| H23 | 07/22 | 57:10 | 171:28 | X18269 Y34934 | 57 | 3.8 | 17. | 49. | 9. | 4. | 78. | 4.5 |
| H23 | 07/22 | 57:10 | 171:27 | X18277 Y34937 | 57 | 3.8 | 14. | 41. | 8. | 7. | 71. | 10.4 |
| H23 | 07/23 | 57:10 | 171:26 | X18287 Y34940 | 57 | 4.0 | 9. | 39. | 3. | 1. | 51. | 2.4 |
| H23 | 07/24 | 57:10 | 171:28 | X18272 Y34934 | 57 | 3.8 | 6. | 23. | 11. | 5. | 44. | 10.6 |
| H23 | 07/24 | 57:10 | 171:27 | X18278 Y34938 | 57 | 3.8 | 6. | 21. | 17. | 12. | 56. | 21.4 |
| H23 | 07/24 | 57:10 | 171:29 | X18264 Y34933 | 57 | 3.8 | 8. | 13. | 10. | 4. | 34. | 10.9 |
| H24 | 06/22 | 57:20 | 172:06 | Y34773 Z50158 | 59 | 3.4 | 18. | 47. | 7. | 3. | 74. | 3.6 |
| H24 | 07/21 | 57:11 | 171:54 | X18105 Y34862 | 60 | 3.8 | 39. | 64. | 11. | 4. | 118. | 3.4 |
| H25 | 06/27 | 57:20 | 172:43 | Y34688 Z50159 | 63 | 3.3 | 9. | 93. | 5. | 0. | 107. | 0.0 |
| H26 | 06/28 | 56:20 | 173:20 | Y17569 Y34600 | 64 | 3.6 | 510. | 395. | 58. | 4. | 957. | 0.4 |
| I02 | 06/07 | 57:40 | 167:08 | Y34234 Z48683 | 37 | 1.4 | 1. | 4. | 1. | 0. | 6. | 0.0 |
| I03 | 05/24 | 57:39 | 166:30 | X48634 Y34115 | 35 | 0.5 | 0. | 2. | 1. | 0. | 3. | 0.0 |
| I04 | 05/14 | 57:40 | 165:53 | X18749 Y33998 | 35 | 2.3 | 0. | 1. | 2. | 0. | 3. | 0.0 |
| I05 | 05/26 | 57:39 | 165:15 | X48142 Y33885 | 33 | | 0. | 3. | 2. | 1. | 7. | 12.5 |
| I06 | 05/15 | 57:39 | 164:37 | Y33772 Z47892 | 29 | 0.8 | 0. | 4. | 0. | 1. | 5. | 22.2 |
| I06 | 07/06 | 57:40 | 164:38 | Y33774 Z47997 | 22 | 3.5 | 0. | 2. | 1. | 0. | 2. | 0.0 |
| I07 | 05/29 | 57:39 | 163:59 | X47644 Y33669 | 27 | 1.3 | 2. | 5. | 7. | 1. | 14. | 5.9 |
| I08 | 05/19 | 57:40 | 163:21 | Y33562 Z47592 | 26 | 1.1 | 0. | 2. | 0. | 1. | 3. | 25.0 |
| I09 | 05/30 | 57:40 | 162:45 | X47147 Y33461 | 23 | 2.1 | 3. | 6. | 5. | 2. | 15. | 11.8 |
| I10 | 05/20 | 57:40 | 162:08 | Y33372 Z46902 | 26 | 1.7 | 0. | 1. | 3. | 0. | 4. | 0.0 |
| I11 | 05/20 | 57:40 | 161:29 | Y33279 Z46649 | 29 | | 0. | 1. | 4. | 0. | 4. | 0.0 |
| I12 | 05/26 | 57:40 | 160:52 | Y33193 Z46402 | 31 | 1.7 | 1. | 0. | 2. | 1. | 4. | 33.3 |
| I13 | 05/26 | 57:40 | 160:16 | Y33111 Z46159 | 30 | 2.0 | 3. | 1. | 3. | 1. | 8. | 9.1 |
| I14 | 05/25 | 57:40 | 159:37 | Y33029 Z45907 | 26 | 3.0 | 1. | 0. | 1. | 0. | 1. | 0.0 |
| I18 | 06/13 | 57:40 | 168:24 | Y34482 Z49371 | 38 | 3.3 | 0. | 0. | 2. | 0. | 2. | 0.0 |
| I20 | 06/11 | 57:49 | 169:40 | X18698 Y00705 | 37 | | 1. | 0. | 2. | 0. | 3. | 0.0 |
| I20 | 06/11 | 57:29 | 169:59 | X18704 Y34870 | 36 | 2.0 | 1. | 1. | 0. | 0. | 2. | 0.0 |
| I21 | 06/11 | 57:40 | 170:16 | X18616 Y34755 | 38 | 2.1 | 0. | 1. | 1. | 0. | 2. | 0.0 |
| I21 | 06/13 | 57:30 | 170:38 | X18585 Y34880 | 41 | 3.6 | 2. | 0. | 2. | 0. | 4. | 0.0 |
| I22 | 06/13 | 57:40 | 170:54 | X18457 Y34744 | 45 | 3.0 | 1. | 0. | 0. | 0. | 1. | 0.0 |
| I22 | 06/14 | 57:29 | 171:11 | X18388 Y34825 | 50 | 3.4 | 2. | 2. | 0. | 0. | 3. | 0.0 |
| I23 | 06/14 | 57:39 | 171:32 | X18253 Y34691 | 53 | 3.1 | 6. | 9. | 4. | 1. | 20. | 4.5 |
| I24 | 06/22 | 57:40 | 172:10 | Y34609 Z50104 | 59 | 3.2 | 6. | 18. | 6. | 1. | 31. | 2.2 |
| I25 | 06/27 | 57:40 | 172:48 | Y34529 Z50113 | 65 | 3.2 | 172. | 255. | 17. | 0. | 443. | 0.0 |
| I26 | 06/28 | 57:40 | 173:24 | X17573 Y34450 | 78 | 3.6 | 1080. | 290. | 7. | 0. | 1367. | 0.0 |
| J03 | 05/24 | 57:59 | 166:30 | X48598 Y33960 | 32 | 0.1 | 0. | 4. | 1. | 0. | 5. | 0.0 |
| J04 | 05/14 | 58:00 | 165:54 | X18748 Y33848 | 30 | 0.3 | 0. | 3. | 1. | 0. | 4. | 0.0 |
| J05 | 05/26 | 58:05 | 165:14 | X48105 Y33730 | 26 | | 0. | 0. | 2. | 0. | 2. | 0.0 |
| J07 | 05/29 | 58:00 | 164:00 | X47629 Y33527 | 24 | 0.5 | 1. | 8. | 2. | 0. | 11. | 0.0 |
| J08 | 05/19 | 58:00 | 163:21 | Y33422 Z47371 | 23 | 1.6 | 6. | 1. | 1. | 0. | 8. | 0.0 |
| J12 | 05/22 | 58:00 | 160:50 | Y33062 Z46384 | 24 | 1.9 | 0. | 1. | 0. | 1. | 2. | 33.3 |
| J13 | 05/22 | 58:00 | 160:12 | Y32980 Z46136 | 27 | 1.9 | 0. | 0. | 1. | 0. | 1. | 0.0 |

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

TABLE 5 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAJ WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | TOTAL | PERCENT LEGAL |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | | |
| | | | | | | | | SMALL | PRERECRUIT | LEGAL | | |
| J20 | 06/11 | 57:50 | 169:57 | X1362A Y00618 | 38 | | 0. | 1. | 0. | 0. | 1. | 0.0 |
| J20 | 06/13 | 58:00 | 169:42 | Y34476 Z49701 | 38 | 2.7 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| J22 | 06/13 | 57:50 | 171:16 | X18321 Y34606 | 49 | 3.0 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| J23 | 06/14 | 58:00 | 171:36 | Y34473 Z49994 | 53 | 2.7 | 1. | 0. | 0. | 0. | 1. | 0.0 |
| J24 | 06/23 | 58:00 | 172:14 | Y34417 Z50027 | 57 | 2.9 | 13. | 10. | 0. | 0. | 23. | 0.0 |
| J25 | 06/26 | 58:00 | 172:52 | Y34352 Z50047 | 60 | 2.9 | 76. | 101. | 0. | 0. | 177. | 0.0 |
| J26 | 06/29 | 58:00 | 173:24 | X17562 Y34285 | 61 | | 292. | 442. | 4. | 0. | 738. | 0.0 |
| K01 | 06/07 | 58:20 | 167:50 | Y33995 Z49012 | 33 | | 0. | 1. | 0. | 0. | 1. | 0.0 |
| K07 | 05/29 | 58:20 | 164:00 | X47548 Y33372 | 21 | 3.2 | 1. | 0. | 0. | 0. | 1. | 0.0 |
| K23 | 06/14 | 58:20 | 171:39 | Y34254 Z49390 | 52 | 1.8 | 0. | 1. | 1. | 0. | 1. | 0.0 |
| K24 | 06/23 | 58:20 | 172:18 | Y34210 Z49937 | 56 | 2.6 | 3. | 9. | 0. | 0. | 12. | 0.0 |
| K25 | 06/26 | 58:20 | 172:56 | Y34158 Z49969 | 60 | 2.3 | 31. | 33. | 0. | 0. | 64. | 0.0 |
| K26 | 06/29 | 58:20 | 173:34 | X17530 Y34099 | 60 | 3.0 | 258. | 835. | 0. | 0. | 1094. | 0.0 |
| K27 | 07/03 | 58:20 | 174:14 | X17308 Y34036 | 76 | 3.5 | 181. | 335. | 0. | 0. | 516. | 0.0 |
| L23 | 06/23 | 58:40 | 171:43 | Y34024 Z49783 | 50 | 1.2 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| L24 | 06/23 | 58:40 | 172:22 | Y34994 Z49841 | 56 | 1.4 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| L25 | 06/26 | 58:40 | 173:00 | Y33954 Z49883 | 52 | 1.8 | 6. | 19. | 0. | 0. | 25. | 0.0 |
| L26 | 06/26 | 58:40 | 173:38 | Y33908 Z49913 | 69 | 1.8 | 27. | 56. | 1. | 0. | 84. | 0.0 |
| L27 | 06/29 | 58:40 | 174:16 | X17301 Y33856 | 83 | 2.9 | 1221. | 440. | 5. | 0. | 1666. | 0.0 |
| M03 | 07/04 | 59:00 | 166:36 | X18658 Y33396 | 18 | 5.0 | 13. | 18. | 0. | 0. | 31. | 0.0 |
| M23 | 06/25 | 59:00 | 171:47 | Y33792 Z49678 | 47 | 0.8 | 0. | 3. | 0. | 0. | 3. | 0.0 |
| M24 | 06/25 | 59:00 | 172:26 | Y33773 Z49744 | 54 | 0.4 | 0. | 1. | 1. | 0. | 1. | 0.0 |
| M25 | 06/25 | 59:00 | 173:05 | Y33745 Z49794 | 59 | 1.6 | 1. | 3. | 1. | 0. | 5. | 0.0 |
| M26 | 06/26 | 59:00 | 173:43 | Y33709 Z49832 | 65 | 2.6 | 3. | 4. | 0. | 0. | 7. | 0.0 |
| M27 | 06/30 | 59:00 | 174:22 | X17269 Y33667 | 68 | 2.4 | 32. | 19. | 1. | 0. | 52. | 0.0 |
| M28 | 07/01 | 59:00 | 175:03 | X17062 Y33618 | 69 | 3.1 | 15. | 55. | 2. | 0. | 83. | 0.0 |
| M29 | 07/01 | 59:00 | 175:43 | X16850 Y33572 | 71 | 2.6 | 3. | 8. | 1. | 0. | 12. | 0.0 |
| M30 | 07/02 | 59:00 | 176:18 | X16668 Y33532 | 72 | 1.9 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| M32 | 07/02 | 59:00 | 177:36 | X16262 Y33439 | 71 | 3.0 | 415. | 206. | 6. | 0. | 627. | 0.0 |
| M27 | 06/30 | 59:19 | 174:27 | X17239 Y33474 | 64 | 2.0 | 2. | 3. | 0. | 0. | 5. | 0.0 |
| N28 | 06/30 | 59:20 | 175:06 | X17049 Y33430 | 70 | 2.4 | 0. | 2. | 1. | 1. | 4. | 25.0 |
| N29 | 07/01 | 59:00 | 175:45 | X16854 Y33401 | 72 | 1.5 | 0. | 2. | 0. | 0. | 3. | 0.0 |
| O27 | 06/30 | 59:39 | 174:27 | X17230 Y33278 | 61 | | 0. | 1. | 0. | 0. | 1. | 0.0 |
| O29 | 07/01 | 59:40 | 175:52 | X16831 Y33210 | 73 | 1.6 | 0. | 1. | 1. | 0. | 2. | 0.0 |
| P32 | 07/11 | 60:00 | 177:55 | Y32953 Z49765 | 78 | 1.4 | 7. | 1. | 1. | 0. | 9. | 0.0 |
| Q33 | 07/11 | 60:05 | 178:43 | Y32879 Z49768 | 81 | 2.4 | 25. | 8. | 1. | 0. | 35. | 0.0 |
| R32 | 07/10 | 60:40 | 173:10 | Y32619 Z49636 | 89 | 2.0 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| Z05 | 07/09 | : | 1 : | ----- | 0 | 6.0 | 7. | 5. | 0. | 0. | 12. | 0.0 |

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

TABLE 6 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO AND HYBRID TANNER CRAB WERE TAKEN

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | TOTAL | PERCENT LARGE |
|---------|-------|----------|-----------|---------------|--------------|----------------|-----------------------|------------------|------------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | | |
| | | | | | | | | SMALL | PRERECRUIT | LARGE | | |
| A02 | 05/31 | 55:00 | 166:56 | Y34823 Z48679 | 86 | 3.8 | 0. | 0. | 1. | 3. | 3. | 83.3 |
| A03 | 05/22 | 55:00 | 160:21 | X48476 Y34740 | 76 | 4.0 | 6. | 0. | 2. | 3. | 11. | 25.0 |
| A05 | 07/09 | 55:00 | 165:09 | Y34564 Z48056 | 59 | 4.6 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| B02 | 05/31 | 55:20 | 166:58 | Y34797 Z48735 | 77 | 3.9 | 1. | 1. | 1. | 5. | 7. | 66.7 |
| B03 | 05/22 | 55:20 | 166:20 | X48516 Y34703 | 70 | | 2. | 1. | 1. | 5. | 9. | 55.6 |
| B04 | 05/12 | 55:20 | 165:46 | X13399 Y34617 | 66 | | 0. | 1. | 2. | 4. | 6. | 58.3 |
| B05 | 06/22 | 55:21 | 165:10 | X18428 Y48088 | 58 | 4.6 | 0. | 1. | 1. | 11. | 13. | 85.7 |
| B06 | 06/22 | 55:20 | 164:35 | X13443 Y47867 | 55 | 3.6 | 0. | 2. | 2. | 8. | 13. | 64.7 |
| B08 | 05/31 | 55:20 | 163:25 | X47430 Y34243 | 78 | | 0. | 2. | 0. | 0. | 2. | 0.0 |
| C01 | 06/01 | 55:39 | 167:35 | Y34856 Z48995 | 74 | 5.0 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| C03 | 05/22 | 55:40 | 166:22 | X48563 Y34660 | 67 | 3.5 | 1. | 3. | 3. | 14. | 20. | 68.2 |
| C04 | 05/12 | 55:40 | 165:48 | X18480 Y34565 | 65 | 4.0 | 0. | 0. | 0. | 2. | 2. | 100.0 |
| C05 | 05/27 | 55:40 | 165:10 | X48109 Y34460 | 58 | 3.3 | 0. | 0. | 0. | 3. | 9. | 100.0 |
| C06 | 05/27 | 55:40 | 164:36 | X47894 Y34368 | 51 | 3.6 | 1. | 14. | 7. | 15. | 37. | 40.0 |
| C07 | 05/28 | 55:41 | 165:00 | X47661 Y34264 | 50 | 3.0 | 0. | 2. | 0. | 6. | 8. | 70.0 |
| C08 | 05/31 | 55:40 | 163:24 | X47430 Y34171 | 42 | 3.2 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| C08 | 07/07 | 55:40 | 163:24 | Y34172 Z47432 | 42 | 4.0 | 0. | 0. | 2. | 4. | 6. | 71.4 |
| C09 | 05/31 | 58:40 | 162:51 | X47214 Y34085 | 27 | 3.9 | 0. | 2. | 0. | 1. | 3. | 33.3 |
| C09 | 07/07 | 55:40 | 162:52 | Y34090 Z47228 | 29 | 7.0 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| C18 | 06/05 | 53:40 | 168:11 | X49193 Y34942 | 72 | 4.0 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| D01 | 06/01 | 55:59 | 167:36 | Y34821 Z49053 | 73 | 4.5 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| D02 | 06/01 | 56:00 | 167:00 | Y34717 Z48833 | 75 | 3.9 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| D03 | 05/22 | 56:00 | 166:24 | X48606 Y34611 | 65 | | 1. | 3. | 3. | 6. | 13. | 50.0 |
| D04 | 05/12 | 56:00 | 165:47 | X18552 Y34501 | 59 | 3.5 | 1. | 3. | 12. | 7. | 28. | 25.5 |
| D05 | 05/27 | 56:00 | 165:11 | X48137 Y34397 | 51 | 3.6 | 0. | 5. | 7. | 7. | 19. | 34.8 |
| D06 | 05/16 | 56:00 | 164:35 | Y34286 Z47891 | 50 | 2.2 | 1. | 6. | 5. | 7. | 19. | 38.5 |
| D07 | 05/28 | 55:59 | 163:59 | X47670 Y34198 | 48 | | 1. | 9. | 1. | 9. | 20. | 45.5 |
| D08 | 05/16 | 56:00 | 163:24 | Y34097 Z47439 | 48 | 2.2 | 0. | 2. | 2. | 0. | 3. | 0.0 |
| D09 | 05/31 | 56:00 | 162:49 | X47207 Y34001 | 42 | 3.0 | 0. | 1. | 5. | 3. | 8. | 33.3 |
| D10 | 05/18 | 56:00 | 162:14 | Y33910 Z46976 | 39 | 3.2 | 0. | 1. | 1. | 0. | 1. | 0.0 |
| E01 | 06/20 | 56:20 | 167:39 | Y34775 Z49109 | 72 | 3.5 | 43. | 0. | 1. | 1. | 44. | 1.5 |
| E02 | 06/06 | 56:20 | 167:02 | Y34657 Z48872 | 62 | 3.4 | 0. | 0. | 0. | 5. | 5. | 100.0 |
| E03 | 05/23 | 56:19 | 166:24 | X48643 Y34551 | 55 | | 14. | 2. | 7. | 42. | 64. | 64.9 |
| E04 | 05/13 | 56:20 | 165:48 | X18617 Y34429 | 51 | 2.2 | 0. | 1. | 1. | 7. | 9. | 78.6 |
| E05 | 05/27 | 56:20 | 165:12 | X48155 Y34323 | 46 | 1.9 | 1. | 7. | 6. | 13. | 27. | 48.5 |
| E06 | 05/16 | 56:21 | 164:35 | X18631 Y34195 | 47 | 1.4 | 1. | 2. | 7. | 20. | 30. | 66.7 |
| E07 | 05/28 | 55:20 | 164:01 | X47682 Y34114 | 45 | 1.9 | 1. | 4. | 1. | 13. | 18. | 70.0 |
| E08 | 05/16 | 56:19 | 163:23 | Y34011 Z47435 | 48 | 3.0 | 0. | 2. | 1. | 6. | 9. | 64.3 |
| E09 | 05/31 | 56:20 | 162:49 | X47198 Y33911 | 42 | 3.0 | 0. | 2. | 1. | 5. | 8. | 66.7 |
| E10 | 05/18 | 56:20 | 162:12 | Y33818 Z46958 | 43 | 2.4 | 0. | 1. | 0. | 4. | 5. | 75.0 |
| E18 | 06/06 | 56:20 | 168:15 | X49335 Y34386 | 82 | 3.7 | 1025. | 11. | 2. | 3. | 1041. | 0.3 |
| E19 | 06/06 | 56:20 | 168:50 | X49539 Y34982 | 76 | 3.6 | 21. | 29. | 7. | 25. | 82. | 30.6 |
| E21 | 06/21 | 57:20 | 170:05 | X13398 Y49901 | 58 | 4.0 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| E22 | 06/21 | 56:19 | 170:41 | X18259 Y50008 | 64 | 4.0 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| F01 | 06/20 | 56:40 | 167:40 | Y34707 Z49139 | 51 | 3.4 | 429. | 4. | 0. | 17. | 451. | 3.8 |

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

TABLE 6 DATA FROM THE 1980 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 | | | | | PERCENT LARGE |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|-------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | TOTAL | |
| | | | | | | | | SMALL | PRERECRUIT | LARGE | | |
| F02 | 06/06 | 56:40 | 167:04 | Y34587 Z48903 | 52 | 2.7 | 1. | 1. | 4. | 9. | 14. | 60.9 |
| F03 | 05/23 | 56:40 | 166:26 | X48652 Y34464 | 45 | 2.0 | 5. | 7. | 7. | 15. | 35. | 42.9 |
| F04 | 05/13 | 56:40 | 165:50 | X18668 Y34350 | 43 | 2.2 | 2. | 2. | 1. | 5. | 9. | 50.0 |
| F05 | 05/27 | 56:40 | 165:14 | X48169 Y34326 | 40 | 1.8 | 4. | 6. | 3. | 15. | 27. | 53.3 |
| F06 | 05/15 | 56:40 | 164:36 | X18672 Y34114 | 41 | 1.4 | 0. | 1. | 1. | 3. | 5. | 55.6 |
| F06 | 07/06 | 56:40 | 164:36 | Y34123 Z47918 | 40 | 2.0 | 0. | 1. | 1. | 3. | 5. | 66.7 |
| F07 | 05/28 | 56:40 | 164:00 | X48678 Y34018 | 40 | 1.5 | 0. | 6. | 8. | 19. | 32. | 57.8 |
| F08 | 05/18 | 56:40 | 163:23 | Y33914 Z47431 | 41 | 2.0 | 0. | 1. | 1. | 4. | 6. | 60.0 |
| F09 | 05/31 | 56:40 | 162:47 | X47191 Y33816 | 38 | 2.5 | 0. | 3. | 1. | 3. | 7. | 40.0 |
| F10 | 05/18 | 56:40 | 162:11 | Y33721 Z46947 | 39 | 1.3 | 0. | 0. | 0. | 1. | 1. | 100.0 |
| F11 | 05/20 | 56:40 | 161:35 | Y33629 Z46708 | 50 | 2.9 | 0. | 0. | 0. | 4. | 4. | 100.0 |
| F18 | 06/20 | 56:40 | 169:17 | Y34830 Z49379 | 58 | 3.5 | 318. | 23. | 0. | 53. | 395. | 13.5 |
| F19 | 06/06 | 56:30 | 169:15 | X49709 Y35032 | 52 | 3.5 | 3. | 4. | 1. | 0. | 7. | 0.0 |
| F19 | 06/20 | 56:40 | 168:54 | Y34951 Z49613 | 56 | 3.5 | 1255. | 195. | 53. | 39. | 1532. | 2.6 |
| F20 | 06/10 | 56:31 | 169:48 | X49879 Y35105 | 46 | 3.7 | 308. | 24. | 5. | 5. | 341. | 1.3 |
| F21 | 06/18 | 56:40 | 170:08 | X18541 Z50007 | 52 | 4.5 | 0. | 19. | 14. | 7. | 40. | 17.5 |
| F21 | 06/18 | 56:31 | 170:32 | X18385 Y35136 | 61 | 4.0 | 0. | 2. | 1. | 0. | 2. | 0.0 |
| F22 | 06/18 | 56:40 | 170:44 | X18399 Y35127 | 60 | 4.9 | 0. | 0. | 0. | 5. | 5. | 100.0 |
| F23 | 06/17 | 56:40 | 171:21 | X18195 Y35070 | 63 | 3.8 | 42. | 12. | 3. | 4. | 62. | 6.3 |
| G01 | 06/19 | 57:00 | 167:42 | Y34622 Z49162 | 42 | 2.7 | 309. | 126. | 46. | 34. | 514. | 6.7 |
| G02 | 06/06 | 57:00 | 167:05 | Y34488 Z48911 | 40 | | 1. | 13. | 13. | 22. | 49. | 44.6 |
| G03 | 05/23 | 57:00 | 166:28 | X48668 Y34368 | 39 | 2.6 | 2. | 6. | 6. | 11. | 25. | 44.0 |
| G04 | 05/13 | 57:00 | 165:51 | X18709 Y34250 | 41 | 1.5 | 0. | 1. | 1. | 1. | 2. | 33.3 |
| G05 | 05/26 | 57:00 | 165:13 | X48165 Y34131 | 37 | 2.0 | 1. | 8. | 5. | 4. | 18. | 21.7 |
| G06 | 05/15 | 57:00 | 164:36 | X18707 Y34007 | 37 | 1.7 | 1. | 4. | 3. | 1. | 8. | 8.3 |
| G06 | 07/06 | 57:00 | 164:36 | Y34014 Z47916 | 37 | 2.0 | 0. | 2. | 1. | 3. | 6. | 50.0 |
| G07 | 05/28 | 57:00 | 164:00 | X47672 Y33913 | 36 | 2.0 | 0. | 7. | 7. | 5. | 19. | 26.3 |
| G08 | 05/19 | 57:00 | 163:22 | Y33806 Z47423 | 36 | 1.9 | 0. | 4. | 1. | 1. | 5. | 12.5 |
| G09 | 05/30 | 57:00 | 162:47 | X47184 Y33708 | 31 | 2.0 | 0. | 1. | 1. | 0. | 2. | 0.0 |
| G18 | 06/20 | 57:00 | 168:20 | Y34757 Z49416 | 44 | 3.1 | 1658. | 525. | 83. | 55. | 2321. | 2.4 |
| G19 | 06/08 | 56:49 | 169:18 | X49787 Y35004 | 42 | 3.0 | 2018. | 264. | 9. | 9. | 2300. | 0.4 |
| G19 | 06/20 | 57:00 | 168:57 | Y34890 Z49662 | 44 | 3.3 | 669. | 259. | 13. | 27. | 969. | 2.8 |
| G20 | 06/09 | 56:59 | 169:33 | X49899 Y35025 | 42 | 4.5 | 15. | 273. | 131. | 16. | 435. | 3.8 |
| G20 | 06/10 | 56:50 | 169:55 | X49996 Y35107 | 39 | 3.9 | 668. | 31. | 2. | 3. | 704. | 0.5 |
| G21 | 06/15 | 57:00 | 170:10 | X18686 Y35132 | 37 | 4.5 | 583. | 80. | 22. | 3. | 688. | 0.4 |
| G21 | 06/17 | 56:50 | 170:28 | X18544 Y35136 | 54 | 3.9 | 2. | 11. | 7. | 3. | 22. | 14.8 |
| G22 | 06/16 | 57:00 | 170:47 | X18508 Y35092 | 50 | 4.0 | 8. | 25. | 19. | 25. | 77. | 31.9 |
| G23 | 06/17 | 57:00 | 171:23 | X18278 Y35002 | 58 | 5.0 | 576. | 31. | 23. | 24. | 654. | 3.6 |
| G23 | 07/20 | 57:10 | 171:30 | X18254 Y34929 | 58 | 3.8 | 832. | 41. | 17. | 26. | 916. | 2.9 |
| G23 | 07/21 | 57:10 | 171:30 | X18260 Y34931 | 58 | 3.8 | 503. | 38. | 19. | 28. | 587. | 4.8 |
| G23 | 07/22 | 57:09 | 171:26 | X18283 Y34945 | 57 | 3.8 | 235. | 40. | 21. | 30. | 326. | 9.2 |
| G23 | 07/23 | 57:09 | 171:26 | ----- | 57 | 4.0 | 1785. | 30. | 12. | 11. | 1838. | 0.6 |
| G23 | 07/23 | 57:09 | 171:26 | X18279 Y34945 | 57 | 4.0 | 1869. | 109. | 43. | 47. | 2058. | 2.3 |
| G24 | 06/22 | 57:00 | 172:02 | Y34903 Z50181 | 68 | 3.6 | 32. | 0. | 0. | 0. | 32. | 0.0 |
| G25 | 06/27 | 56:59 | 172:39 | Y34815 Z50179 | 64 | 3.4 | 0. | 3. | 0. | 0. | 3. | 0.0 |

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

TABLE 6 DATA FROM THE 1980 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 | | | | | PERCENT LARGE |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|--------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | TOTAL | |
| | | | | | | | | SMALL | PRERECRUIT | LARGE | | |
| H01 | 06/18 | 57:20 | 167:44 | Y34505 Z49156 | 40 | 3.0 | 0. | 16. | 3. | 0. | 19. | 0.0 |
| H02 | 06/06 | 57:20 | 167:07 | Y34375 Z48911 | 39 | 3.6 | 1. | 25. | 5. | 5. | 36. | 14.0 |
| H03 | 05/23 | 57:20 | 166:28 | X48654 Y34248 | 37 | | 0. | 19. | 7. | 12. | 38. | 31.0 |
| H04 | 05/14 | 57:20 | 165:52 | X18736 Y34134 | 38 | 0.4 | 3. | 25. | 9. | 9. | 46. | 20.3 |
| H05 | 05/26 | 57:20 | 165:14 | X48159 Y34016 | 35 | 1.0 | 2. | 109. | 57. | 12. | 181. | 6.9 |
| H06 | 05/15 | 57:19 | 164:37 | X18732 Y33894 | 36 | 2.3 | 2. | 16. | 5. | 2. | 25. | 8.2 |
| H06 | 07/06 | 57:20 | 164:38 | Y33906 Z47918 | 34 | 2.3 | 6. | 16. | 0. | 3. | 25. | 13.3 |
| H07 | 05/29 | 57:19 | 164:00 | X47665 Y33799 | 33 | 1.5 | 2. | 10. | 1. | 1. | 14. | 8.7 |
| H08 | 05/19 | 57:00 | 161:34 | Y33521 Z46693 | 37 | 1.4 | 1. | 1. | 1. | 0. | 3. | 0.0 |
| H09 | 05/30 | 57:20 | 162:46 | X47170 Y33594 | 25 | 2.0 | 1. | 1. | 0. | 0. | 2. | 0.0 |
| H10 | 05/20 | 57:20 | 162:09 | Y33497 Z46920 | 28 | 1.4 | 0. | 2. | 2. | 0. | 4. | 0.0 |
| H11 | 05/20 | 57:20 | 161:32 | Y33404 Z46672 | 30 | 1.6 | 0. | 1. | 1. | 0. | 1. | 0.0 |
| H18 | 06/13 | 57:20 | 163:22 | Y34638 Z49409 | 40 | 3.4 | 2. | 258. | 2. | 0. | 261. | 0.0 |
| H19 | 06/08 | 57:10 | 169:19 | X49803 Y34915 | 33 | 3.1 | 145. | 126. | 6. | 5. | 283. | 1.6 |
| H19 | 06/12 | 57:20 | 169:59 | Y34765 Z49646 | 39 | 3.4 | 1. | 39. | 3. | 3. | 47. | 7.0 |
| H20 | 06/08 | 57:20 | 169:36 | X49896 Y34905 | 33 | 2.9 | 3564. | 327. | 9. | 0. | 3900. | 0.0 |
| H20 | 06/10 | 57:10 | 169:54 | X50037 Y35049 | 25 | 3.8 | 12. | 40. | 22. | 12. | 85. | 13.7 |
| H21 | 06/13 | 57:20 | 170:12 | X18714 Y35003 | 29 | 5.1 | 10. | 12. | 1. | 0. | 23. | 0.0 |
| H22 | 06/16 | 57:20 | 170:50 | X18524 Y34961 | 44 | 3.7 | 17475. | 925. | 135. | 55. | 19590. | 0.3 |
| H22 | 06/16 | 57:10 | 171:11 | X18388 Y34980 | 53 | 3.6 | 88. | 51. | 37. | 35. | 212. | 16.7 |
| H23 | 06/16 | 57:20 | 171:29 | X18278 Y34864 | 54 | | 2512. | 72. | 12. | 10. | 2606. | 0.4 |
| H23 | 07/20 | 57:10 | 171:24 | X18298 Y34942 | 56 | 4.2 | 589. | 28. | 14. | 14. | 645. | 2.2 |
| H23 | 07/20 | 57:16 | 171:24 | X18306 Y34904 | 55 | 4.2 | 2933. | 50. | 11. | 12. | 3006. | 0.4 |
| H23 | 07/21 | 57:11 | 171:26 | Y18286 Y34935 | 57 | 3.8 | 267. | 37. | 23. | 20. | 347. | 5.9 |
| H23 | 07/22 | 57:10 | 171:28 | X18269 Y34934 | 57 | 3.8 | 1325. | 42. | 31. | 49. | 1447. | 3.4 |
| H23 | 07/22 | 57:10 | 171:27 | X18277 Y34937 | 57 | 3.8 | 946. | 55. | 24. | 61. | 1086. | 5.6 |
| H23 | 07/23 | 57:10 | 171:26 | X18287 Y34940 | 57 | 4.0 | 734. | 109. | 62. | 43. | 948. | 4.5 |
| H23 | 07/24 | 57:10 | 171:28 | X18272 Y34934 | 57 | 3.8 | 252. | 68. | 68. | 94. | 482. | 19.5 |
| H23 | 07/24 | 57:10 | 171:27 | X18273 Y34938 | 57 | 3.8 | 202. | 119. | 56. | 72. | 449. | 16.0 |
| H23 | 07/24 | 57:10 | 171:29 | X18264 Y34933 | 57 | 3.8 | 323. | 23. | 22. | 33. | 401. | 8.3 |
| H24 | 06/22 | 57:20 | 172:06 | Y34773 Z50158 | 59 | 3.4 | 4. | 19. | 7. | 15. | 45. | 33.8 |
| H24 | 07/21 | 57:11 | 171:54 | X18105 Y34362 | 60 | 3.8 | 592. | 15. | 3. | 8. | 619. | 1.3 |
| H25 | 06/27 | 57:20 | 172:43 | Y34688 Z50159 | 63 | 3.3 | 5. | 9. | 1. | 0. | 14. | 0.0 |
| H26 | 06/28 | 56:20 | 173:20 | X17569 Y34600 | 64 | 3.6 | 0. | 3. | 2. | 2. | 7. | 28.6 |
| I01 | 06/18 | 57:40 | 167:46 | Y34359 Z49128 | 38 | 2.9 | 0. | 3. | 1. | 0. | 4. | 0.0 |
| I02 | 06/07 | 57:40 | 167:08 | Y34234 Z48883 | 37 | 1.4 | 4. | 32. | 2. | 2. | 40. | 5.4 |
| I03 | 05/24 | 57:39 | 166:30 | X48634 Y34115 | 35 | 0.5 | 17. | 57. | 21. | 3. | 99. | 3.4 |
| I04 | 05/14 | 57:40 | 165:53 | X18749 Y33998 | 35 | 2.3 | 3. | 50. | 27. | 8. | 88. | 9.2 |
| I05 | 05/26 | 57:39 | 165:15 | X48142 Y33885 | 33 | | 10. | 67. | 12. | 12. | 102. | 12.3 |
| I06 | 05/15 | 57:39 | 164:37 | Y33772 Z47892 | 29 | 0.8 | 2. | 21. | 6. | 1. | 29. | 1.9 |
| I06 | 07/06 | 57:40 | 164:38 | Y33774 Z47897 | 22 | 3.5 | 7. | 31. | 7. | 27. | 72. | 37.9 |
| I07 | 05/29 | 57:39 | 163:59 | X47644 Y33669 | 27 | 1.3 | 87. | 126. | 2. | 13. | 227. | 5.9 |
| I08 | 05/19 | 57:40 | 163:21 | Y33562 Z47392 | 26 | 1.1 | 9. | 40. | 0. | 1. | 50. | 2.5 |
| I09 | 05/30 | 57:40 | 162:45 | X47147 Y33461 | 23 | 2.1 | 0. | 3. | 0. | 0. | 3. | 0.0 |
| I18 | 06/13 | 57:40 | 169:24 | Y34482 Z49371 | 33 | 3.3 | 1. | 15. | 0. | 0. | 16. | 0.0 |

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

TABLE 6 DATA FROM THE 1980 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 | | |
| I19 | 06/13 | 57:40 | 169:02 | Y34603 Z49602 | 37 | 3.3 | 1. | 7. | 0. | 0. | 8. | 0.0 |
| I20 | 06/11 | 57:49 | 169:40 | X18698 Y00705 | 37 | | 9. | 52. | 0. | 0. | 61. | 0.0 |
| I20 | 06/11 | 57:29 | 169:59 | X18704 Y34870 | 36 | 2.0 | 643. | 170. | 6. | 0. | 819. | 0.0 |
| I21 | 06/11 | 57:40 | 170:16 | X18616 Y34755 | 33 | 2.1 | 3. | 72. | 0. | 0. | 76. | 0.0 |
| I21 | 06/13 | 57:30 | 170:38 | X18585 Y34880 | 41 | 3.6 | 3871. | 614. | 14. | 18. | 4516. | 0.4 |
| I22 | 06/13 | 57:40 | 170:54 | X18457 Y34744 | 45 | 3.0 | 2062. | 148. | 5. | 3. | 2218. | 0.2 |
| I22 | 06/14 | 57:29 | 171:11 | X18388 Y34825 | 50 | 3.4 | 13907. | 358. | 33. | 8. | 19307. | 0.0 |
| I23 | 06/14 | 57:39 | 171:32 | X18253 Y34691 | 53 | 3.1 | 19. | 42. | 7. | 7. | 75. | 9.6 |
| I24 | 06/22 | 57:40 | 172:10 | Y34609 Z50104 | 59 | 3.2 | 77. | 11. | 5. | 3. | 95. | 2.8 |
| I25 | 06/27 | 57:40 | 172:48 | Y34529 Z50113 | 65 | 3.2 | 0. | 17. | 0. | 5. | 22. | 24.2 |
| I26 | 06/28 | 57:40 | 173:24 | X17573 Y34450 | 78 | 3.6 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| J01 | 06/18 | 58:00 | 167:48 | Y34190 Z49030 | 37 | 1.6 | 0. | 13. | 1. | 1. | 19. | 3.4 |
| J02 | 06/07 | 58:00 | 167:10 | Y34072 Z48842 | 34 | 1.5 | 1. | 31. | 3. | 0. | 35. | 0.0 |
| J03 | 05/24 | 57:59 | 166:30 | X48598 Y33960 | 32 | 0.1 | 70. | 316. | 32. | 5. | 424. | 1.3 |
| J04 | 05/14 | 58:00 | 165:54 | X18748 Y33848 | 30 | 0.3 | 9. | 138. | 24. | 3. | 174. | 1.7 |
| J05 | 05/26 | 58:05 | 165:14 | X48105 Y33730 | 26 | | 64. | 74. | 10. | 17. | 165. | 10.1 |
| J06 | 05/15 | 57:59 | 164:37 | X18751 Y33617 | 25 | 1.1 | 56. | 78. | 1. | 0. | 134. | 0.0 |
| J07 | 05/29 | 58:00 | 164:00 | X47629 Y33527 | 24 | 0.5 | 22. | 75. | 6. | 13. | 115. | 11.0 |
| J08 | 05/19 | 58:00 | 163:21 | Y33422 Z47371 | 23 | 1.6 | 0. | 2. | 1. | 0. | 3. | 0.0 |
| J11 | 05/20 | 58:00 | 161:29 | Y33149 Z46634 | 30 | | 0. | 1. | 0. | 0. | 1. | 0.0 |
| J18 | 06/18 | 58:00 | 168:26 | Y34298 Z49304 | 38 | 3.0 | 0. | 15. | 0. | 0. | 15. | 0.0 |
| J19 | 06/13 | 58:00 | 169:04 | Y34398 Z49519 | 37 | 3.2 | 0. | 6. | 0. | 0. | 6. | 0.0 |
| J20 | 06/11 | 57:50 | 169:57 | X18628 Y00618 | 38 | | 3. | 21. | 0. | 0. | 24. | 0.0 |
| J20 | 06/13 | 58:00 | 169:42 | Y34476 Z49701 | 38 | 2.7 | 29. | 12. | 0. | 0. | 41. | 0.0 |
| J21 | 06/14 | 58:00 | 170:20 | Y34514 Z49843 | 41 | 1.7 | 4. | 3. | 0. | 0. | 8. | 0.0 |
| J22 | 06/13 | 57:50 | 171:16 | X18321 Y34606 | 49 | 3.0 | 5296. | 218. | 8. | 4. | 5526. | 0.1 |
| J22 | 06/14 | 58:00 | 170:58 | Y34512 Z49938 | 47 | 2.2 | 975. | 139. | 0. | 0. | 1114. | 0.0 |
| J23 | 06/14 | 58:00 | 171:36 | Y34473 Z49994 | 53 | 2.7 | 12. | 2. | 0. | 1. | 15. | 8.3 |
| J24 | 06/23 | 58:00 | 172:14 | Y34417 Z50027 | 57 | 2.9 | 5. | 0. | 0. | 0. | 5. | 0.0 |
| J25 | 06/26 | 58:00 | 172:52 | Y34352 Z50047 | 60 | 2.9 | 6. | 7. | 2. | 0. | 15. | 0.0 |
| J26 | 06/29 | 58:00 | 173:24 | X17562 Y34285 | 61 | | 48. | 2. | 0. | 2. | 51. | 3.0 |
| K01 | 06/07 | 58:20 | 167:50 | Y33995 Z49012 | 33 | | 1. | 37. | 5. | 0. | 93. | 0.0 |
| K02 | 06/07 | 58:20 | 167:11 | Y33889 Z48794 | 28 | 1.5 | 636. | 721. | 0. | 0. | 1357. | 0.0 |
| K03 | 05/24 | 58:20 | 166:33 | X48553 Y33785 | 25 | 1.0 | 163. | 1118. | 52. | 13. | 1346. | 1.0 |
| K04 | 05/14 | 58:20 | 165:55 | X18735 Y33680 | 23 | 0.4 | 206. | 321. | 1. | 0. | 529. | 0.0 |
| K05 | 05/25 | 58:19 | 165:16 | X48087 Y33576 | 23 | | 380. | 1305. | 22. | 10. | 1716. | 0.6 |
| K06 | 05/15 | 58:20 | 164:37 | X18745 Y33461 | 24 | 1.0 | 405. | 702. | 4. | 0. | 1110. | 0.0 |
| K07 | 05/29 | 58:20 | 164:00 | X47548 Y33372 | 21 | 3.2 | 0. | 0. | 1. | 0. | 1. | 0.0 |
| K08 | 05/19 | 58:20 | 163:22 | Y33279 Z47356 | 20 | 1.9 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| K18 | 06/18 | 58:20 | 168:28 | Y34092 Z49224 | 36 | 1.2 | 1. | 58. | 1. | 1. | 71. | 1.8 |
| K19 | 06/15 | 58:20 | 169:07 | Y34176 Z49421 | 37 | 1.8 | 19. | 151. | 0. | 0. | 180. | 0.0 |
| K20 | 06/15 | 58:20 | 169:44 | Y34233 Z49585 | 38 | 2.8 | 17. | 6. | 0. | 0. | 23. | 0.0 |
| K22 | 06/15 | 59:20 | 171:01 | Y34277 Z49822 | 45 | 1.3 | 18. | 48. | 0. | 0. | 66. | 0.0 |
| K23 | 06/14 | 58:20 | 171:39 | Y34254 Z49890 | 52 | 1.8 | 1. | 2. | 0. | 0. | 3. | 0.0 |
| K24 | 06/23 | 58:20 | 172:18 | Y34210 Z49937 | 56 | 2.6 | 0. | 2. | 0. | 0. | 2. | 0.0 |

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

TABLE 6 DATA FROM THE 1950 EASTERN BERING SEA TRAWL SURVEY WHERE OPILJID AND HYBRID TANNER CRAB WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FMS | BOTTOM TEMP | FEMALES | NUMBER PER MILE TOWED | | | TOTAL | PERCENT LARGE |
|---------|-------|----------|-----------|---------------|--------------|----------------|---------|-----------------------|-------------|-------|-------|------------------|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| | | | | | | | | SMALL | PRE-RECRUIT | LARGE | | |
| K25 | 06/28 | 58:20 | 172:56 | Y34153 Z49969 | 60 | 2.3 | 1. | 4. | 0. | 0. | 5. | 0.0 |
| K26 | 06/29 | 58:20 | 173:34 | X17530 Y34099 | 60 | 3.0 | 0. | 46. | 0. | 0. | 46. | 0.0 |
| K27 | 07/03 | 58:20 | 174:14 | X17308 Y34036 | 76 | 3.5 | 15. | 5. | 0. | 0. | 18. | 0.0 |
| L01 | 06/07 | 58:40 | 167:52 | Y33778 Z48937 | 25 | | 895. | 1095. | 46. | 0. | 2026. | 0.0 |
| L02 | 07/14 | 58:40 | 167:10 | Y33688 Z48707 | 25 | 4.8 | 0. | 5. | 1. | 0. | 6. | 0.0 |
| L03 | 07/14 | 58:40 | 166:30 | Y33588 Z48480 | 22 | 5.2 | 0. | 2. | 0. | 0. | 2. | 0.0 |
| L05 | 07/15 | 58:40 | 165:11 | Y33386 Z48006 | 20 | 6.2 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| L18 | 06/17 | 58:40 | 168:30 | Y33874 Z49135 | 29 | | 259. | 1631. | 95. | 0. | 2635. | 0.0 |
| L19 | 06/16 | 58:40 | 169:09 | Y33944 Z49317 | 34 | 1.1 | 245. | 1374. | 0. | 0. | 1619. | 0.0 |
| L20 | 06/16 | 58:40 | 169:47 | Y33997 Z49472 | 37 | 1.0 | 1257. | 260. | 27. | 0. | 1545. | 0.0 |
| L21 | 06/16 | 58:40 | 170:26 | Y34029 Z49505 | 40 | 1.8 | 242. | 227. | 15. | 7. | 491. | 1.5 |
| L22 | 06/16 | 58:40 | 171:05 | Y34036 Z49708 | 45 | 0.8 | 58. | 36. | 3. | 0. | 106. | 0.0 |
| L23 | 06/23 | 58:40 | 171:43 | Y34024 Z49783 | 50 | 1.2 | 0. | 3. | 1. | 1. | 5. | 25.0 |
| L25 | 06/26 | 58:40 | 173:00 | Y33954 Z49883 | 62 | 1.8 | 1. | 2. | 0. | 0. | 3. | 0.0 |
| L26 | 06/26 | 58:40 | 173:38 | Y33908 Z49913 | 69 | 1.8 | 5. | 7. | 1. | 0. | 14. | 0.0 |
| L27 | 06/29 | 58:40 | 174:16 | X17301 Y33556 | 75 | 2.9 | 19. | 15. | 0. | 0. | 34. | 0.0 |
| M01 | 06/08 | 59:00 | 167:53 | Y33565 Z48850 | 22 | | 165. | 431. | 0. | 0. | 596. | 0.0 |
| M02 | 07/14 | 59:00 | 167:05 | Y33465 Z48601 | 20 | 5.0 | 0. | 2. | 0. | 0. | 2. | 0.0 |
| M13 | 06/17 | 59:00 | 168:32 | Y33647 Z49043 | 25 | 2.2 | 725. | 1302. | 0. | 0. | 2025. | 0.0 |
| M19 | 06/17 | 59:00 | 169:11 | Y33707 Z49211 | 29 | 1.3 | 497. | 959. | 0. | 0. | 1456. | 0.0 |
| M20 | 06/17 | 59:00 | 169:50 | Y33756 Z49363 | 34 | 1.1 | 675. | 605. | 0. | 0. | 1283. | 0.0 |
| M21 | 06/17 | 59:00 | 170:29 | Y33788 Z49492 | 33 | 2.0 | 910. | 113. | 0. | 0. | 1023. | 0.0 |
| M22 | 06/16 | 59:00 | 171:08 | Y33799 Z49597 | 42 | 0.2 | 762. | 213. | 11. | 0. | 991. | 0.0 |
| M23 | 06/23 | 59:00 | 171:47 | Y33792 Z49678 | 47 | 0.8 | 3. | 135. | 20. | 9. | 164. | 5.3 |
| M24 | 06/25 | 59:00 | 172:26 | Y33773 Z49744 | 54 | 0.4 | 3. | 2. | 1. | 5. | 11. | 50.0 |
| M25 | 06/25 | 59:00 | 173:05 | Y33745 Z49794 | 59 | 1.6 | 1. | 4. | 1. | 2. | 7. | 27.3 |
| M26 | 06/26 | 59:00 | 173:43 | Y33709 Z49832 | 65 | 2.6 | 9. | 17. | 0. | 1. | 28. | 4.8 |
| M27 | 06/30 | 59:00 | 174:22 | X17269 Y33667 | 60 | 2.4 | 162. | 183. | 1. | 0. | 351. | 0.0 |
| M28 | 07/01 | 59:00 | 175:03 | X17062 Y33613 | 59 | 3.1 | 22. | 31. | 3. | 3. | 58. | 4.7 |
| M29 | 07/01 | 59:00 | 175:43 | X16850 Y33572 | 71 | 2.6 | 21. | 9. | 0. | 0. | 30. | 0.0 |
| M30 | 07/02 | 59:00 | 176:18 | X16668 Y33532 | 72 | 1.9 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| M32 | 07/02 | 59:00 | 177:36 | X16262 Y33439 | 71 | 3.0 | 704. | 27. | 4. | 2. | 736. | 0.2 |
| N01 | 06/08 | 59:20 | 167:55 | Y33345 Z48768 | 21 | | 2. | 7. | 0. | 0. | 9. | 0.0 |
| N18 | 06/11 | 59:20 | 168:34 | Y33411 Z48946 | 22 | | 26. | 53. | 0. | 0. | 79. | 0.0 |
| N19 | 06/11 | 59:20 | 169:14 | Y33470 Z49113 | 27 | | 1025. | 1866. | 0. | 0. | 2891. | 0.0 |
| N20 | 06/10 | 59:20 | 169:52 | Y33513 Z49253 | 33 | | 599. | 1058. | 0. | 0. | 1457. | 0.0 |
| N21 | 06/10 | 59:20 | 170:32 | Y33543 Z49381 | 37 | | 322. | 31. | 0. | 0. | 353. | 0.0 |
| N22 | 06/10 | 59:20 | 171:11 | Y33559 Z49487 | 41 | | 817. | 59. | 0. | 0. | 876. | 0.0 |
| N23 | 06/24 | 59:20 | 171:50 | Y33560 Z49573 | 44 | 1.6 | 730. | 119. | 0. | 11. | 859. | 1.2 |
| N24 | 06/25 | 59:20 | 172:30 | Y33549 Z49645 | 48 | -0.3 | 2. | 0. | 0. | 0. | 2. | 0.0 |
| N25 | 06/25 | 59:20 | 173:09 | Y33529 Z49701 | 55 | 0.8 | 5. | 3. | 1. | 1. | 9. | 7.7 |
| N26 | 06/25 | 59:20 | 173:48 | Y33499 Z49745 | 60 | 0.8 | 7. | 11. | 1. | 2. | 21. | 8.8 |
| N27 | 06/30 | 59:19 | 174:27 | X17239 Y33474 | 64 | 2.0 | 148. | 187. | 2. | 2. | 338. | 0.5 |
| N28 | 06/30 | 59:20 | 175:06 | X17049 Y33430 | 70 | 2.4 | 113. | 144. | 0. | 0. | 256. | 0.0 |
| N29 | 07/01 | 59:00 | 175:45 | X16354 Y33401 | 72 | 1.5 | 1. | 4. | 0. | 0. | 5. | 0.0 |

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

TABLE 6 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO AND HYBRID TANNER CRA3 WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LOKAN C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | TOTAL | PERCENT LARGE |
|---------|-------|----------|-----------|---------------|---------------|----------------|-----------------------|------------------|------------|-------|--------|------------------|
| | | | | | | | FEMALES | MALES (SEE NOTE) | | | | |
| | | | | | | | | SMALL | PRERECRUIT | LARGE | | |
| Q13 | 06/09 | 59:40 | 169:37 | Y33178 Z48858 | 21 | | 846. | 1321. | 0. | 0. | 2167. | 0.0 |
| Q19 | 06/09 | 59:40 | 169:16 | Y33231 Z49013 | 25 | | 1953. | 1865. | 0. | 0. | 3818. | 0.0 |
| Q20 | 06/09 | 59:40 | 169:55 | Y33271 Z49151 | 31 | | 429. | 994. | 0. | 0. | 1423. | 0.0 |
| Q21 | 06/10 | 59:40 | 170:35 | Y33302 Z49276 | 37 | | 405. | 209. | 0. | 5. | 619. | 0.8 |
| Q22 | 06/10 | 59:40 | 171:15 | Y33321 Z49384 | 40 | | 489. | 31. | 0. | 0. | 521. | 0.0 |
| Q23 | 06/24 | 59:40 | 171:54 | Y33327 Z49472 | 42 | -0.3 | 75. | 153. | 3. | 0. | 231. | 0.0 |
| Q24 | 06/24 | 59:40 | 172:34 | Y33323 Z49547 | 46 | -0.3 | 53. | 95. | 1. | 6. | 154. | 3.6 |
| Q25 | 06/24 | 59:40 | 173:14 | Y33311 Z49610 | 52 | 0.4 | 1. | 6. | 0. | 0. | 7. | 0.0 |
| Q26 | 06/24 | 59:40 | 173:52 | Y33294 Z49659 | 67 | 1.6 | 1. | 1. | 0. | 0. | 1. | 0.0 |
| Q27 | 06/30 | 59:39 | 174:27 | X17230 Y33278 | 61 | | 5. | 7. | 0. | 1. | 13. | 6.3 |
| Q28 | 06/30 | 59:40 | 175:06 | X17046 Y33246 | 66 | 2.6 | 210. | 58. | 3. | 1. | 272. | 0.4 |
| Q29 | 07/01 | 59:40 | 175:52 | X16831 Y33210 | 73 | 1.6 | 5. | 6. | 2. | 0. | 12. | 0.0 |
| Q30 | 07/01 | 59:40 | 176:33 | X15640 Y33177 | 72 | 1.5 | 0. | 11. | 1. | 0. | 12. | 0.0 |
| P18 | 06/09 | 60:00 | 169:39 | Y32942 Z48768 | 20 | | 422. | 1393. | 0. | 0. | 1815. | 0.0 |
| P19 | 07/04 | 60:00 | 169:16 | Y32988 Z48918 | 24 | 1.0 | 60. | 124. | 0. | 0. | 184. | 0.0 |
| P20 | 07/04 | 60:00 | 169:57 | Y33031 Z49052 | 30 | | 514. | 1207. | 0. | 0. | 1721. | 0.0 |
| P21 | 07/04 | 60:00 | 170:37 | Y33062 Z49174 | 35 | 0.5 | 524. | 392. | 0. | 0. | 906. | 0.0 |
| P22 | 07/04 | 60:00 | 171:17 | Y33083 Z49281 | 33 | -0.9 | 406. | 486. | 0. | 0. | 893. | 0.0 |
| P23 | 07/04 | 60:03 | 171:57 | Y33088 Z49370 | 36 | -0.9 | 25. | 259. | 0. | 0. | 284. | 0.0 |
| P24 | 07/13 | 60:00 | 172:38 | Y33098 Z49452 | 36 | 0.0 | 363. | 50. | 0. | 0. | 413. | 0.0 |
| P25 | 07/13 | 60:00 | 173:18 | Y33092 Z49517 | 40 | -0.4 | 1812. | 189. | 0. | 0. | 2001. | 0.0 |
| P26 | 07/13 | 60:00 | 173:56 | Y33084 Z49572 | 52 | 1.0 | 41. | 39. | 0. | 0. | 79. | 0.0 |
| P27 | 07/12 | 60:00 | 174:36 | Y33067 Z49618 | 59 | 1.7 | 6. | 2. | 0. | 1. | 9. | 6.7 |
| P28 | 07/12 | 60:00 | 175:16 | Y33050 Z49658 | 64 | 1.8 | 210. | 109. | 2. | 2. | 323. | 0.7 |
| P29 | 07/11 | 60:00 | 175:56 | Y33025 Z49691 | 70 | 1.4 | 1160. | 423. | 3. | 0. | 1587. | 0.0 |
| P31 | 07/11 | 60:00 | 177:12 | Y32982 Z49743 | 76 | 1.3 | 1. | 1. | 1. | 1. | 4. | 16.7 |
| P32 | 07/11 | 60:00 | 177:55 | Y32953 Z49765 | 78 | 1.4 | 37. | 4. | 1. | 0. | 42. | 0.0 |
| P33 | 07/11 | 60:05 | 178:43 | Y32879 Z49768 | 81 | 2.4 | 214. | 3. | 0. | 2. | 219. | 0.9 |
| Q18 | 06/09 | 60:20 | 168:41 | Y32701 Z48680 | 19 | | 4. | 9. | 0. | 0. | 13. | 0.0 |
| Q19 | 07/05 | 60:20 | 169:20 | Y32748 Z48822 | 23 | 3.2 | 12. | 40. | 0. | 0. | 52. | 0.0 |
| Q20 | 07/05 | 60:20 | 170:02 | Y32789 Z48961 | 29 | 1.7 | 1111. | 1655. | 0. | 0. | 2767. | 0.0 |
| Q21 | 07/05 | 60:20 | 170:40 | Y32819 Z49074 | 34 | -0.9 | 380. | 348. | 0. | 0. | 728. | 0.0 |
| Q22 | 07/05 | 60:20 | 171:22 | Y32843 Z49184 | 36 | -0.3 | 754. | 639. | 0. | 0. | 1391. | 0.0 |
| Q23 | 07/05 | 60:20 | 172:04 | Y32865 Z49283 | 32 | -0.5 | 51. | 1561. | 0. | 0. | 1612. | 0.0 |
| Q25 | 07/13 | 60:19 | 173:24 | Y32877 Z49430 | 32 | 0.2 | 1032. | 723. | 0. | 0. | 1755. | 0.0 |
| Q26 | 07/13 | 60:19 | 174:04 | Y32875 Z49490 | 50 | -1.0 | 1967. | 1116. | 0. | 0. | 3083. | 0.0 |
| Q27 | 07/12 | 60:20 | 174:42 | Y32864 Z49537 | 56 | 1.5 | 0. | 1. | 0. | 0. | 1. | 0.0 |
| Q28 | 07/12 | 60:20 | 175:22 | Y32353 Z49581 | 61 | 1.8 | 222. | 174. | 0. | 0. | 396. | 0.0 |
| Q29 | 07/12 | 60:20 | 176:02 | Y32840 Z49617 | 66 | 1.4 | 17485. | 4318. | 20. | 0. | 21198. | 0.0 |
| Q30 | 07/10 | 60:20 | 176:43 | Y32822 Z49650 | 75 | 0.9 | 26. | 8. | 4. | 3. | 41. | 6.8 |
| Q31 | 07/10 | 60:20 | 177:23 | Y32805 Z49678 | 83 | 1.4 | 2. | 0. | 1. | 0. | 3. | 0.0 |
| R23 | 07/07 | 60:40 | 172:07 | Y32632 Z49187 | 33 | -0.7 | 691. | 1083. | 0. | 0. | 1774. | 0.0 |
| R24 | 07/07 | 60:40 | 172:47 | Y32656 Z49278 | 24 | 1.5 | 23. | 65. | 0. | 0. | 88. | 0.0 |
| R25 | 07/07 | 60:40 | 173:28 | Y32658 Z49342 | 36 | -0.3 | 112. | 201. | 0. | 0. | 314. | 0.0 |
| R26 | 07/07 | 60:40 | 174:08 | Y32671 Z49412 | 48 | -1.0 | 244. | 219. | 0. | 0. | 463. | 0.0 |

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

TABLE 6 DATA FROM THE 1980 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO AND HYBRID TANNER CRAB WERE TAKEN (CONTINUED)

| STATION | DATE | LATITUDE | LONGITUDE | LGRAN | C | DEPTH FTMS | BOTTOM TEMP | NUMBER PER MILE TOWED | | | | TOTAL | PERCENT LARGE |
|---------|-------|----------|-----------|--------|--------|---------------|----------------|-----------------------|------------------|------------|-------|-------|------------------|
| | | | | | | | | FEMALES | MALES (SEE NOTE) | | | | |
| | | | | | | | | | SMALL | PRERECRUIT | LARGE | | |
| R27 | 07/07 | 60:40 | 174:48 | Y32562 | Z49466 | 54 | 0.7 | 31. | 42. | 0. | 0. | 73. | 0.0 |
| R28 | 07/08 | 60:40 | 175:27 | Y32658 | Z49511 | 59 | 1.0 | 1. | 8. | 0. | 0. | 8. | 0.0 |
| R29 | 07/08 | 60:40 | 176:12 | Y32649 | Z49556 | 64 | 1.2 | 1928. | 509. | 0. | 0. | 2437. | 0.0 |
| R30 | 07/10 | 60:40 | 176:48 | Y32644 | Z49578 | 70 | 1.5 | 548. | 161. | 3. | 1. | 713. | 0.2 |
| R31 | 07/10 | 60:40 | 177:29 | Y32631 | Z49609 | 79 | 1.4 | 47. | 211. | 5. | 1. | 263. | 0.2 |
| R32 | 07/10 | 60:40 | 178:10 | Y32619 | Z49636 | 89 | 2.0 | 15. | 29. | 6. | 2. | 53. | 4.2 |
| S29 | 07/08 | 61:00 | 176:17 | Y32462 | Z49480 | 61 | 1.0 | 62. | 19. | 1. | 0. | 82. | 0.0 |
| S30 | 07/09 | 61:00 | 176:58 | Y32461 | Z49510 | 65 | 1.0 | 601. | 192. | 0. | 0. | 793. | 0.0 |
| S31 | 07/09 | 61:00 | 177:38 | Y32457 | Z49543 | 74 | 1.7 | 58. | 24. | 7. | 3. | 91. | 2.8 |
| S32 | 07/09 | 60:59 | 178:18 | Y32454 | Z49573 | 36 | 2.4 | 39. | 53. | 8. | 7. | 106. | 6.5 |
| T29 | 07/08 | 61:20 | 176:18 | Y32274 | Z49390 | 58 | 0.5 | 878. | 358. | 0. | 0. | 1236. | 0.0 |
| T30 | 07/09 | 61:20 | 176:58 | Y32282 | Z49432 | 64 | 1.0 | 13. | 16. | 0. | 0. | 29. | 0.0 |
| U29 | 07/08 | 61:39 | 176:28 | Y32096 | Z49323 | 58 | 0.5 | 778. | 289. | 0. | 0. | 1067. | 0.0 |

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

