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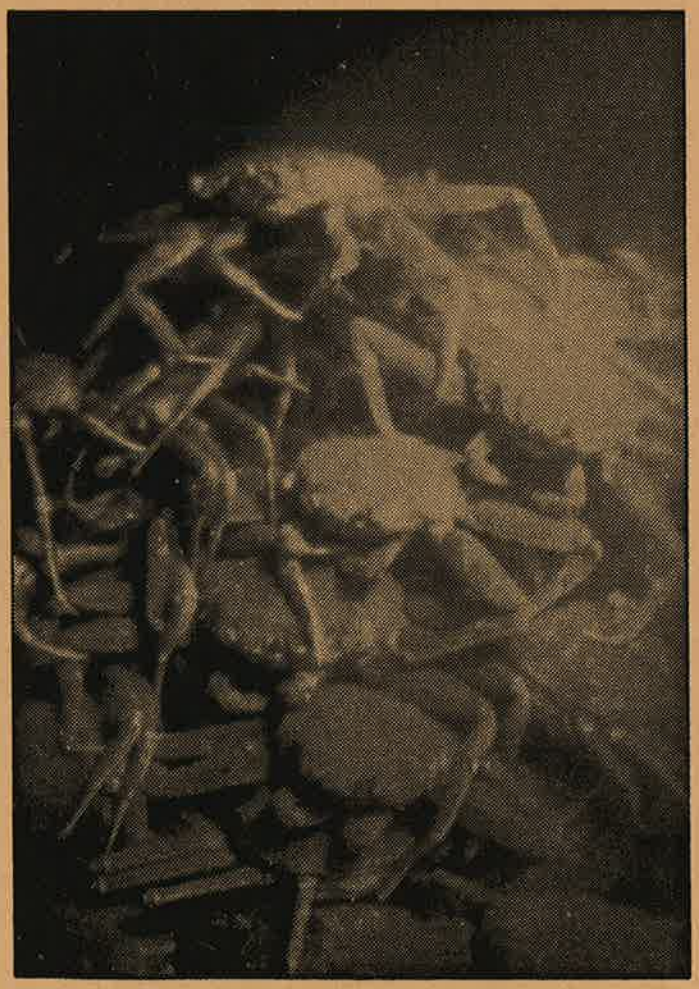
# AFSC PROCESSED REPORT 91-17

## Report to Industry on the 1991 Eastern Bering Sea Crab Survey

October 1991



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Cover - An aggregation of female (*C. bairdi*) Tanner crab in Chiniak Bay near Kodiak. Photograph by B. G. Stevens.

Alaska Fisheries Science Center
Processed Report 91-17

# REPORT TO INDUSTRY ON THE

# 1991

# EASTERN BERING SEA

# CRAB SURVEY

by

B.G. Stevens, R.A. MacIntosh and J.A. Haaga

National Marine Fisheries Service
Alaska Fisheries Science Center
Kodiak Facility
P.O. Box 1638
Kodiak, AK 99615

October 1991

## EXECUTIVE SUMMARY

The following is a summary of conclusions presented in this report. All numbers given are estimated total abundance of crabs, plus or minus a percentage which represents an approximate confidence interval of 95%. All estimates were compared to those of the previous year by t-test, and values of t greater than 2 were considered significant. Note that for some groups of crabs, especially blue king crabs, the variance of the data, as indicated by the confidence interval, is so great that large changes from last year may not be deemed statistically significant. Such changes are considered to be below the ability of the survey to detect. GHL = Guideline Harvest Level, as determined by the Alaska Dept. of Fish and Game.

Questions about these data, should be directed to Dr. Bradley G. Stevens or Dr. Robert Otto, NMFS, P.O. Box 1638, Kodiak, AK 99615. Phone (907) 487-4961.

**Red king crab** (*Paralithodes camtschaticus*) All districts combined.

| | |
|---|---|
| Legal males: | 12.0 million ± 36%; Non-significant increase of 29%. |
| Pre-recruits: | No significant change. |
| Large Females: | Non-significant decrease of 28%. |
| Outlook: | Population remains stable at moderate levels. |
| GHL: | 18.0 million lbs. |

**Pribilof Islands blue king crab** (*P. platypus*) Pribilof District.

| | |
|---|---|
| Legal males: | 1.0 million ± 70%; Non-significant increase of 147%. |
| Pre-recruits: | No significant change. |
| Large Females: | No significant change. |
| Outlook: | Population low but may be increasing; trends not detectable. |
| GHL: | Fishery closed for 1991. |

**St. Matthew blue king crab** (*P. platypus*) Northern District.

| | |
|---|---|
| Legal males: | 2.17 million ± 35%; Non-significant increase of 31%. |
| Pre-recruits: | Non-significant increase of 100% |
| Large Females: | Non-significant increase of 250%. |
| Outlook: | Population appears average and stable or increasing. |
| GHL: | 3.2 million lbs. |

**Tanner crab** (*Chionoecetes bairdi*) Eastern District.

| | |
|---|---|
| Legal males: | 35.1 million ± 35%; Non-significant decrease of 22%. |
| Pre-recruits: | (All districts) Non-significant increase of 37%. |
| Large Females: | (All districts) Non-significant increase of 27%. |
| Outlook: | Population moderately high and stable.<br>Expect continued high recruitment in future. |
| GHL: | 32.8 million lbs. |

**Snow crab** (*C. opilio*) All districts combined.

| | |
|---|---|
| Large males: | 484.1 million ± 29%; Non significant increase of 15%. |
| Pre-recruits: | Significant decrease of 32%. |
| Large Females: | Non-significant increase of 28%. |
| Outlook: | Overall population high and stable. High recruitment due to growth of pre-recruits into large sizes. |
| GHL: | 400.0 million lbs. |

**Hair crab** (*Erimacrus isenbeckii*)

| | |
|---|---|
| Large males: | 0.65 million ± 57%; Non-significant increase of 18%. |
| Large Females: | No significant change. |
| Outlook: | Population above average and improving due to recent recruitment. |
| GHL: | None Projected. |

# The 1991 Eastern Bering Sea Survey

An annual trawl survey is conducted in the eastern Bering Sea (EBS) to determine the distribution and abundance of crab and groundfish resources. This report summarizes survey results for commercially important crabs. It is intended to aid fishermen and processors in locating productive grounds and judging overall availability of various species. Survey-derived data are also used as part of the basis for management decisions. Results are presented for red king crab (*Paralithodes camtschaticus*), blue king crab (*P. platypus*), hair crab (*Erimacrus isenbeckii*), Tanner crab (*Chionoecetes bairdi*) and snow crab (*C. opilio*). Information on groundfish resources is available from the Alaska Fisheries Science Center, 7600 Sand Point Way NE, BIN C15700, Seattle, Washington 98115.

## Survey Area and Methods

The 1991 eastern Bering Sea (EBS) crab survey consisted of 372 successful bottom trawl tows and covered an area of approximately 146,000 square nautical miles. The 1991 survey area was similar to that of 1990 (Fig. 1). The survey was conducted aboard two chartered vessels, the F/V Ocean Hope 3 and the University of Washington's R/V Alaska between June 1 and August 7. The same two vessels were used in 1988, 1989, and 1990. Methodology was identical to that of previous surveys; most tows were made at the centers of squares defined by a 20 x 20 nautical mile grid. Near St. Matthew Island and the Pribilofs, additional tows were made at the corners of squares. Trawl gear used was similar to that used last year.

Both vessels fished an eastern otter trawl with an 83 ft headrope and a 112 ft footrope. Wing spread on this trawl ranges from 47 - 58 feet. For consistency with previous reports an effective width of 50 feet was used. Each tow was one-half hour in duration; average length was 1.4 nautical miles (range 0.5 to 2.3). Crabs were sorted by species and sex, and then a sample of crabs was measured (to the nearest millimeter) to provide a size frequency distribution. Note that crab sizes are reported as carapace length (cl) for king and hair crabs, and carapace width (cw) for Tanner and snow crabs. Water temperatures were recorded at almost all stations.

Additional tows were made in shallow water near Togiak (2 tows) and Kuskokwim Bay (2 tows) where high catches of yellowfin sole have recently occurred. Repeat tows were made at several stations where high catches of red king crab occurred; these included F05, F07, G05, and G06. Crab data from all extra stations are incorporated into population estimates.

Procedures for estimating abundance were identical to those of previous years. Population estimates (Tables 1-6) were derived from the trawl data using the ''area-swept'' technique. First, the density of crabs (crabs per square nautical mile) at each trawl station was computed. Average density

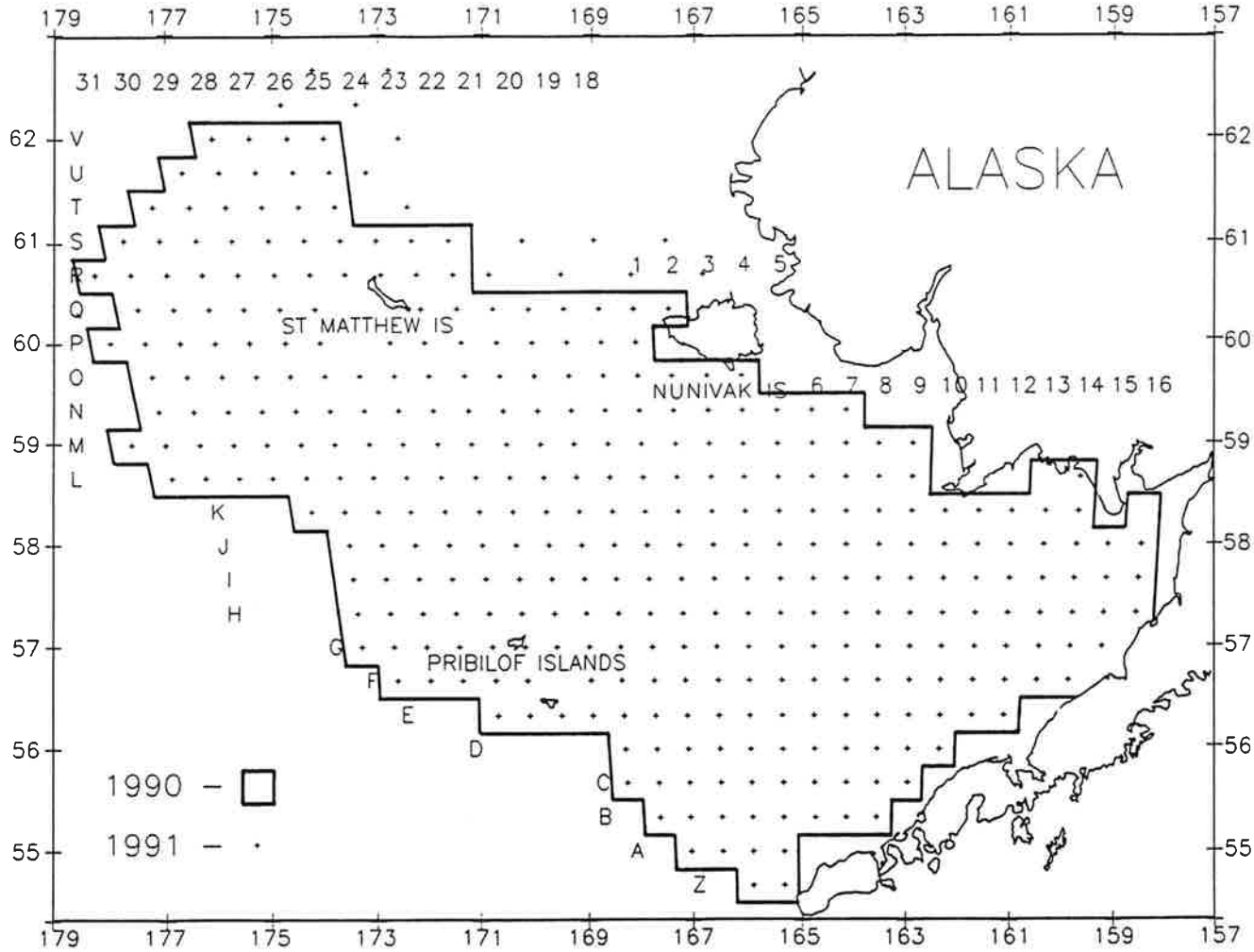



Figure 1. NMFS eastern Bering Sea Crab survey area in 1990 and 1991.

was then calculated for several sub-regions, then population estimates were calculated by extrapolating the average density of a given size group over the area of each subregion.

The following abbreviations are used in the text: (in) inches, (mm) millimeters, (fm) fathoms, (lb) pounds, (°C) degrees Celsius, (cl) carapace length, and (cw) carapace width.

## Interpreting Tables and Charts

Because of differences in the length of tow between vessels and stations, catches presented in accompanying charts and tables are standardized to the number of crab caught per square nautical mile. Charts are based on 20 by 20 nautical mile squares. In cases where more than one tow was made in a square (including corner tows), the average crab density is presented. It is advisable to cross-reference charts and tables to obtain more exact information.

## Distribution and Abundance of King Crab Stocks

### Red King Crab

The majority of the legal (≥6.5 in cw, ≥135 mm cl) male crabs occurred in Bristol Bay (Area T; Chart 1 and Table 7), and their overall distribution was similar to that of 1990. A few red king crabs were also found near the Pribilof Islands and in the Northern District (north of 58°39'N lat.), but their contribution to overall abundance in the EBS is negligible.

One of the highest catches of legal crabs in the history of the survey (423) occurred at station F06. This extremely unusual catch was excluded from the abundance estimate because it was not considered to be representative of the population. The estimated abundance of legal male red king crabs in the Bristol Bay District (south of 58°39'N lat and east of 168°W long) and the Pribilof District (south of 58°39' N lat and west of 168°W long) was 12.0 million crabs which represents a non-significant[1] increase of 29% from last year (Table 1). Pre-recruit crab (110-134 mm cl) and juveniles showed no significant change. The abundance of legal males has remained relatively stable for several years, but recruitment of juveniles has been poor, and numbers of small male crab are at an all-time low (Table 1; Fig. 2).

Legal male crabs were found between 15 and 50 fm (average 38.4 fm) and from 1.3 to 5.4°C (average 2.4°C). Legal crab were occasionally found as solitary individuals at the periphery of the stock's distribution. Less than 0.1% of male crabs were in molting or soft-shell condition (vs 0.1% last year). Among legal-sized crab, 16.1% were oldshell, skipmolt crabs (vs 44.2% last year). Molting of male crabs appears to have been completed prior to the survey.

The estimated abundance of large[2] (≥90 mm cl) females in the Bristol Bay and Pribilof Districts showed a non-significant decrease of 28% from last year and now stands at 12.7 million crabs. The estimated abundance of small females showed a non-significant decrease of 34%. In June, 5.1% of mature females were still molting or soft-shell, (vs

1. ''Significant'' is a statistical term implying that the difference between two abundance estimates has a 95% chance or more of being real, rather than simply the result of chance. Generally, stocks or populations which are less abundant or occur at fewer locations, such as blue king crab or hair crab, have greater variance, so large differences may appear to be non-significant. Comparisons were made via a two-sample unpaired 't'-test, and values of t 2.0 were considered significant.

2. Throughout this report, the term ''large females'' refers to those females larger than the median size at maturity, i.e., the size at which 50% are mature. A small number of females above this size may actually be immature, but the majority are mature crabs which should contribute to reproduction of the population.

Table 1. Annual abundance estimates (millions of crabs) for red king crab (*P. camtschaticus*) in Bristol Bay and the Pribilof District from NMFS surveys.

| | Males | | | | Females | | | Grand Total |
|---|---|---|---|---|---|---|---|---|
| Size[1] (mm) | <110 | 110-134 | ≥135 | Total | <90 | ≥90 | Total | |
| Width (in) | <5.2 | 5.2-6.5 | ≥6.5 | | <3.5 | ≥3.5 | | |
| 1969 | 41.0 | 20.3 | 9.8 | 71.1 | 18.3 | 28.5 | 46.8 | 117.9 |
| 1970 | 9.5 | 8.4 | 5.3 | 23.2 | 4.9 | 13.0 | 17.9 | 41.1 |
| 1972[2] | 14.1 | 8.0 | 5.4 | 27.5 | 7.0 | 12.1 | 19.1 | 46.6 |
| 1973[3] | 50.0 | 25.9 | 10.8 | 86.7 | 24.8 | 76.8 | 101.6 | 188.3 |
| 1974[3] | 59.0 | 31.2 | 20.9 | 111.1 | 37.7 | 72.0 | 109.7 | 220.8 |
| 1975 | 84.9 | 31.7 | 21.0 | 137.6 | 70.8 | 58.9 | 129.7 | 267.3 |
| 1976 | 70.2 | 49.3 | 32.7 | 152.2 | 35.9 | 71.8 | 107.7 | 259.9 |
| 1977 | 80.2 | 63.9 | 37.6 | 181.7 | 33.5 | 150.1 | 183.6 | 365.3 |
| 1978 | 62.9 | 47.9 | 46.6 | 157.4 | 38.2 | 128.4 | 166.6 | 324.0 |
| 1979 | 48.1 | 37.2 | 43.9 | 129.2 | 45.1 | 110.9 | 156.0 | 285.2 |
| 1980 | 56.8 | 23.9 | 36.1 | 116.8 | 44.8 | 67.6 | 112.5 | 229.3 |
| 1981 | 56.6 | 18.4 | 11.3 | 86.3 | 36.3 | 67.3 | 103.6 | 189.9 |
| 1982 | 107.2 | 17.4 | 4.7 | 129.3 | 77.2 | 54.8 | 132.0 | 261.3 |
| 1983 | 43.3 | 10.4 | 1.5 | 55.2 | 24.3 | 9.7 | 34.0 | 89.2 |
| 1984 | 81.8 | 12.6 | 3.1 | 97.6 | 57.6 | 17.6 | 75.1 | 172.7 |
| 1985 | 13.7 | 10.1 | 2.5 | 26.3 | 6.9 | 6.8 | 13.7 | 39.9 |
| 1986 | 11.8 | 12.3 | 5.9 | 30.1 | 4.5 | 5.4 | 9.8 | 39.9 |
| 1987 | 20.1 | 12.6 | 7.9 | 40.6 | 16.8 | 18.3 | 35.1 | 75.7 |
| 1988 | 8.5 | 6.4 | 6.4 | 21.3 | 2.7 | 15.7 | 18.4 | 39.7 |
| 1989 | 8.6 | 9.4 | 11.9 | 29.9 | 4.4 | 16.9 | 21.2 | 51.1 |
| 1990 | 8.2 | 10.2 | 9.2 | 27.6 | 7.2 | 17.5 | 24.7 | 52.2 |
| 1991 | 8.1 | 6.4 | 12.0 | 26.5 | 4.7 | 12.6 | 17.4 | 43.9 |
| Limits[4] | | | | | | | | |
| Lower | 4.4 | 2.8 | 7.7 | 19.4 | 1.8 | 7.1 | 11.3 | 30.6 |
| Upper | 11.8 | 10.0 | 16.3 | 33.7 | 7.6 | 18.2 | 23.4 | 57.1 |
| ±% | 46 | 56 | 36 | 27 | 62 | 44 | 35 | 30 |

1 Carapace length (mm).
2 Limited survey in 1971, not used for population estimate.
3 1973 and 1974 estimates considered unreliable.
4 Mean ± 2 standard errors for most recent year.

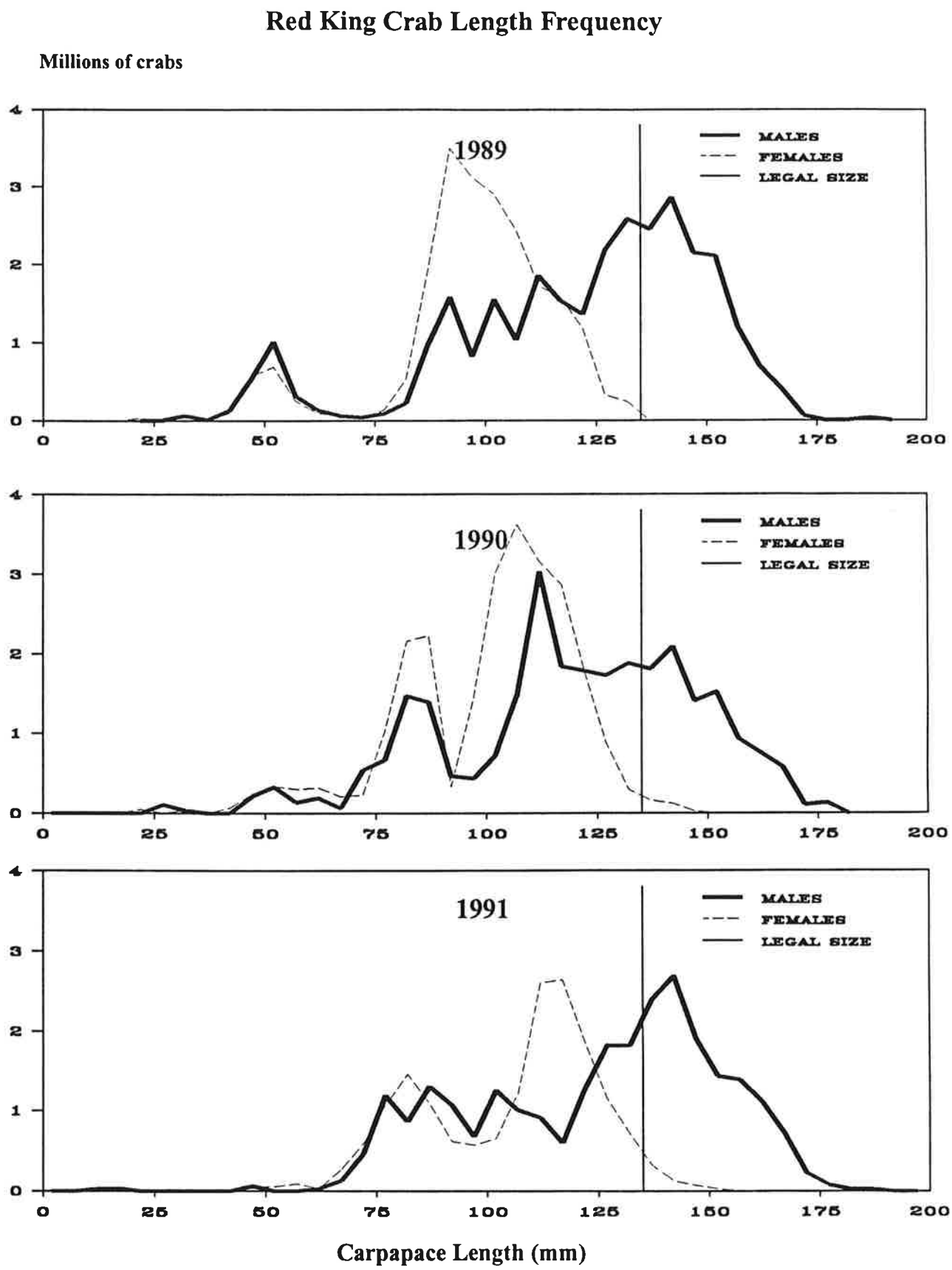



Figure 2. Estimates of abundance for red king crab (*P. camtschaticus*) by 5 mm length classes, 1989-1991. Vertical line indicates lower limit of legal size.

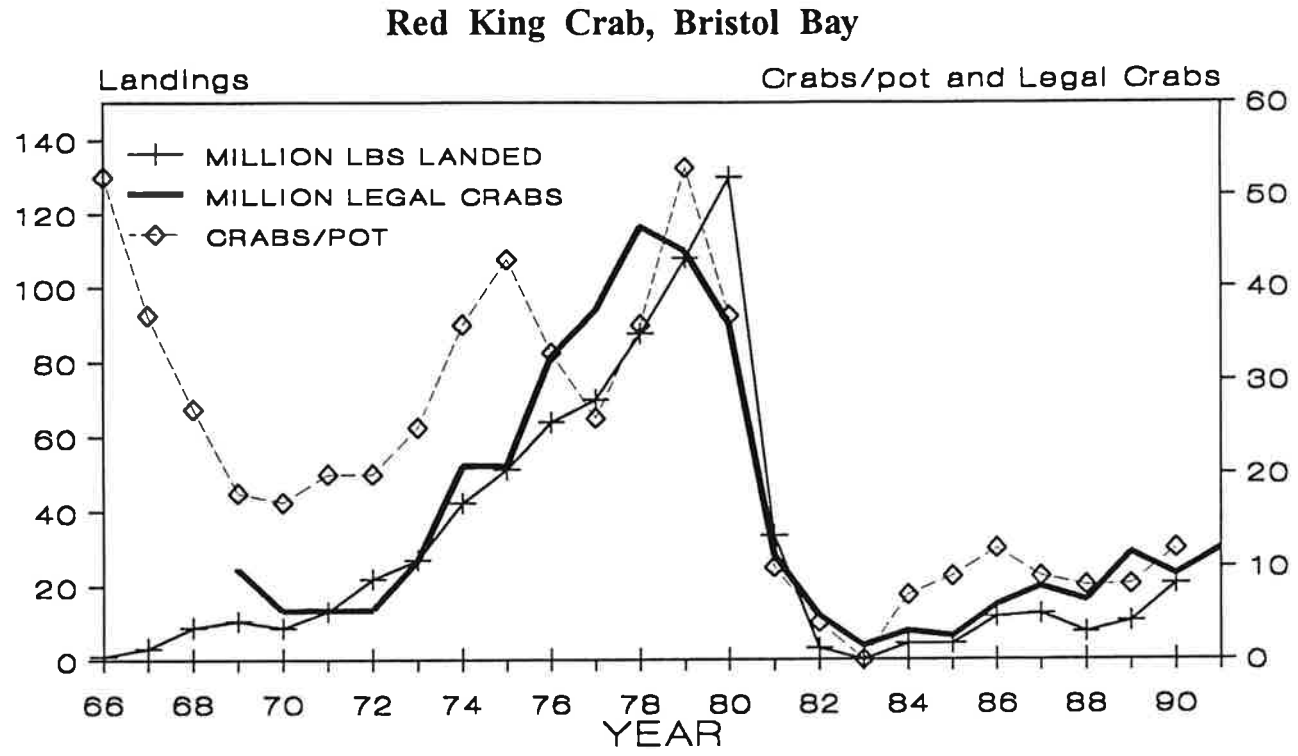



FIGURE 3. U.S. Landings in millions of lbs, catch-per-unit-of-effort as crabs/pot, and abundance of legal red king crabs (*P. camtschaticus*) in millions in Bristol Bay, estimated from NMFS trawl surveys.

19.7% last year). Among mature females, the proportion which had molted and extruded new, uneyed eggs was 96% compared to 97% last year. Fluctuations in the timing of molting, mating, and embryo extrusion may be related to annual variations in water temperature.

The Bristol Bay fishery will open on November 1, 1991 with a guideline harvest of 18.0 million pounds relative to an estimated stock of 72.6 ± 26.0 million pounds. Catch-per-unit-of-effort (CPUE) in recent years has ranged from 8-12 crabs per pot-lift (Fig. 3). The target exploitation rate was set at 25% of the legal male biomass, as determined according to Board of Fisheries policy.

**Pribilof Islands Blue King Crab** (*P. platypus*)

Legal (≥6.5 in, or ≥135 mm cl) males were found primarily to the east of St. Paul Island (Chart 2 and Table 8). Legal crab occurred at temperatures between 2.5 and 5.3°C (average 2.8°C), and at depths between 35 and 53 fm (average 40.1 fm). The estimated abundance of legal males was 1.0 million crabs (Table 2), a non-significant increase of 147% from last year. The number of pre-recruits showed no significant change. The abundance of juveniles (<110 mm cl), showed a non-significant decline of 28%. Size-frequency data (Fig. 4) indicate that recruitment of juveniles to larger size groups has improved, continuing a trend started in 1988. This population is still depressed (Fig. 5), but may be improving. The fishery will not be opened in 1991. Over 87% of sublegal males and 72% of legal males were in new, hardshell condition, the remainder being oldshells.

The estimated abundance of large (≥90 mm cl) females showed a non-significant change from last year's level. Historically, estimates of female abundance have been imprecise due to the preference of females for rocky habitat which is not sampled well by trawls. Among mature females, 61% were

Table 2. Annual abundance estimates (millions of crabs) for blue king crab (*P. platypus*) in the Pribilof District from NMFS surveys.

| | Pribilof District | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males | | | | Females | | | Grand Total |
| Size[1] (mm) | <110 | 110-134 | ≥135 | Total | <90 | ≥90 | Total | |
| Width (in) | <5.2 | 5.2-6.5 | ≥6.5 | | <3.5 | ≥3.5 | | |
| 1974 | 4.4 | 3.1 | 1.9 | 9.4 | 0.6 | 10.9 | 11.5 | 20.9 |
| 1975 | 4.1 | 8.0 | 7.5 | 19.6 | 0.0 | 8.8 | 8.8 | 28.4 |
| 1976 | 10.3 | 2.1 | 3.9 | 16.3 | 0.4 | 17.7 | 18.1 | 34.4 |
| 1977 | 3.2 | 2.2 | 9.4 | 14.8 | 2.2 | 17.5 | 19.7 | 34.5 |
| 1978 | 1.2 | 5.8 | 4.3 | 11.3 | 0.3 | 35.5 | 35.8 | 47.1 |
| 1979 | 6.4 | 1.5 | 4.6 | 12.5 | 5.2 | 2.9 | 8.1 | 20.6 |
| 1980 | 1.9 | 1.4 | 4.2 | 7.5 | 0.8 | 101.9 | 102.7[3] | 110.2 |
| 1981 | 4.8 | 1.4 | 4.2 | 10.4 | 3.4 | 11.6 | 15.0 | 25.4 |
| 1982 | 1.2 | 0.7 | 2.2 | 4.1 | 0.7 | 8.6 | 9.3 | 13.4 |
| 1983 | 0.6 | 0.8 | 1.3 | 2.8 | 0.2 | 9.2 | 9.4 | 12.2 |
| 1984 | 0.5 | 0.3 | 0.6 | 1.3 | 0.3 | 3.1 | 3.4 | 4.8 |
| 1985 | 0.06 | 0.16 | 0.32 | 0.54 | 0.18 | 0.52 | 0.70 | 1.24 |
| 1986 | 0.02 | 0.02 | 0.43 | 0.47 | 0.04 | 1.86 | 1.90 | 2.37 |
| 1987 | 0.57 | 0.08 | 0.73 | 1.38 | 0.39 | 0.58 | 0.97 | 2.35 |
| 1988 | 1.10 | 0.0 | 0.20 | 1.29 | 0.77 | 0.43 | 1.20 | 2.49 |
| 1989 | 3.21 | 0.10 | 0.22 | 3.54 | 2.29 | 1.28 | 3.57 | 7.11 |
| 1990 | 1.84 | 1.24 | 0.41 | 3.48 | 1.82 | 2.66 | 4.48 | 7.96 |
| 1991 | 1.32 | 1.03 | 1.01 | 3.36 | 0.56 | 2.80 | 3.37 | 6.73 |
| Limits[2] | | | | | | | | |
| Lower | 0.26 | 0.47 | 0.30 | 1.40 | -0.05 | 0.59 | 1.01 | 2.4 |
| Upper | 2.37 | 1.59 | 1.72 | 5.31 | 1.17 | 5.02 | 5.72 | 11.0 |
| ±% | 80 | 54 | 70 | 58 | 108 | 79 | 70 | 64 |

1 Carapace length (mm).
2 Mean ± 2 standard errors for most recent year.
3 Female estimates considered unreliable in 1980.

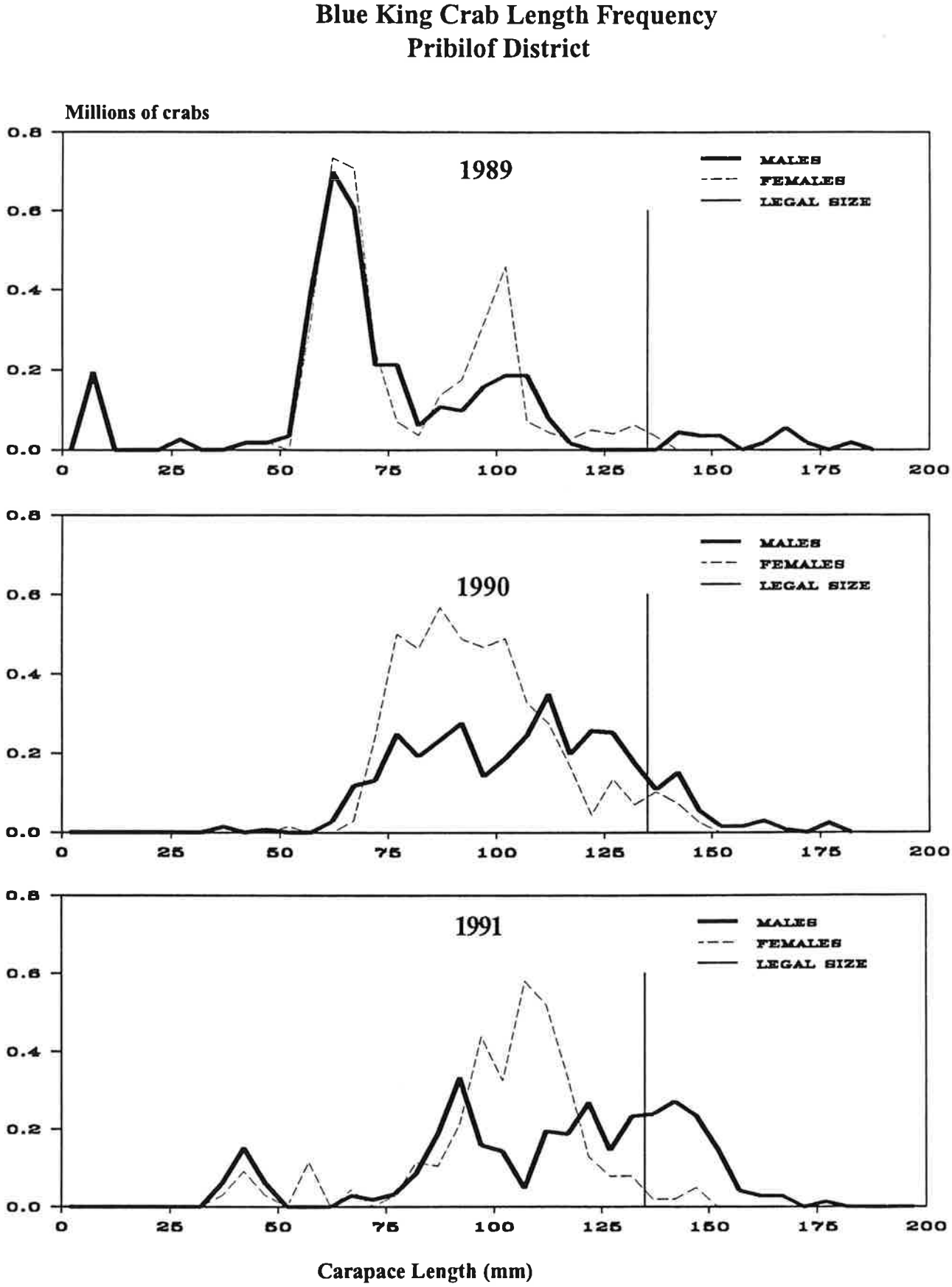



FIGURE 4. Estimates of abundance for Pribilof District blue king crab (*P. platypus*) by 5 mm length classes, 1989-1991. Vertical line indicates lower limit of legal size.

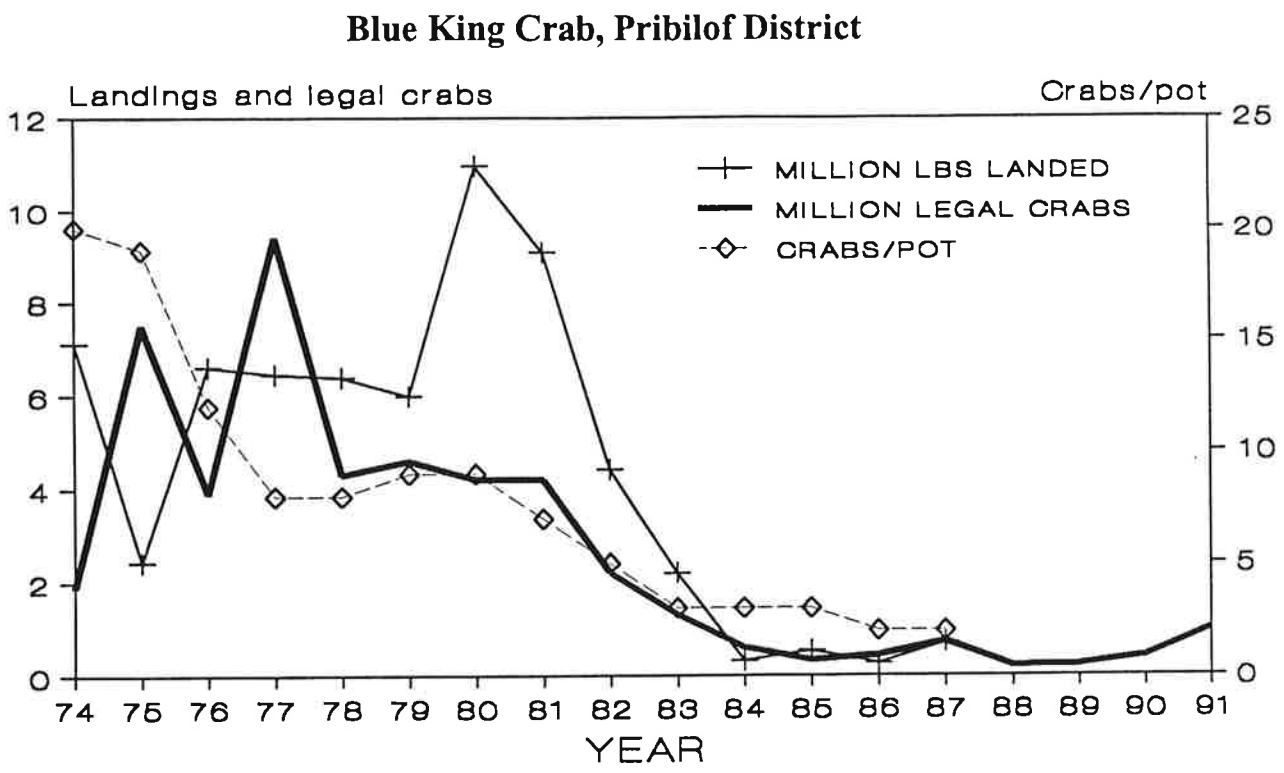



FIGURE 5. U.S. landings in millions of lbs, catch-per-unit-of-effort (CPUE) as abundance of legal blue king crabs (*P. platypus*) in millions in the Pribilof District, estimated from NMFS trawl surveys.

new hardshells, and 39% oldshells. Blue king crab are predominantly biennial spawners. Only a portion of the female population spawns in a given year, while the remainder is in the non-embryo-bearing phase. Among mature females, 43% carried new, uneyed embryos and 40% carried empty embryo cases indicating hatching had recently occurred. Less than 1 % of males, and no females were in molting or soft-shell condition, indicating that molting was completed for 1991.

### St. Matthew Island Blue King Crab
(*P. platypus*)

Legal (≥5.5 in cw, or ≥120 mm cl) males occurred primarily southwest of the island (Chart 2 and Table 8) and were captured at 26 stations in 1991.(vs 12 last year). Legal males were found in depths from 25 to 71 fm (average 50.1 fm) and temperatures from -1.5 to 2.3°C (average 0.7°C). The estimated abundance of legal crabs was 2.2 million crabs (Table 3), a non-significant increase of 31% from last year. The abundance of both pre-recruits and juveniles showed a non-significant increases of 100%. Size-frequency data (Fig. 6) show that pre-recruits have grown into the legal size range over the past year. The population appears stable and may be increasing slightly. The abundance of large females (≥80 mm cl) showed a non-significant increase of 250% but estimates of female abundance are usually imprecise, and may be low due to habitat preference, as explained above. Among legal males, 19% were molting or softshell, 64% were new hardshells, and 16% oldshells. All 16 mature females were hardshell crabs; 11 (69%) showed signs of recent hatching, and one (6%) was carrying new uneyed embryos.

Table 3. Annual abundance estimates (millions of crabs) for blue king crab (*P. platypus*) in the Northern District from NMFS surveys.

| | Northern District | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Males | | | | Females | | | Grand Total |
| Size[1] (mm) | <105 | 105-119 | ≥120 | Total | <80 | ≥80 | Total | |
| Width (in) | <4.3 | 4.3-5.5 | ≥5.5 | | <3.2 | ≥3.2 | | |
| 1978 | 5.6 | 2.4 | 1.8 | 9.8 | 0.8 | 0.4 | 1.2 | 11.0 |
| 1979 | 4.9 | 2.3 | 2.2 | 9.4 | 1.7 | 0.9 | 2.6 | 12.0 |
| 1980 | 3.4 | 2.2 | 2.5 | 8.1 | 0.8 | 2.2 | 3.0 | 11.1 |
| 1981 | 1.2 | 1.8 | 3.1 | 6.3 | 0.0 | 0.5 | 0.5 | 6.8 |
| 1982 | 3.2 | 2.6 | 6.8 | 12.5 | 0.4 | 0.7 | 1.1 | 13.7 |
| 1983 | 1.8 | 1.6 | 3.5 | 6.9 | 0.2 | 2.4 | 2.7 | 9.6 |
| 1984 | 1.4 | 0.6 | 1.6 | 3.6 | 0.2 | 0.5 | 0.7 | 4.3 |
| 1985 | 0.46 | 0.35 | 1.08 | 1.89 | 0.08 | 0.13 | 0.21 | 2.10 |
| 1986 | 0.56 | 0.40 | 0.38 | 1.34 | 0.25 | 0.06 | 0.31 | 1.65 |
| 1987 | 1.07 | 0.73 | 0.74 | 2.53 | 0.46 | 0.22 | 0.68 | 3.21 |
| 1988 | 1.44 | 0.65 | 0.83 | 2.92 | 0.90 | 0.79 | 1.70 | 4.62 |
| 1989 | 4.80 | 0.97 | 1.48 | 7.25 | 1.58 | 1.68 | 3.27 | 10.52 |
| 1990 | 1.44 | 0.75 | 1.66 | 3.85 | 0.45 | 0.20 | 0.65 | 4.50 |
| 1991 | 2.92 | 1.52 | 2.17 | 6.61 | 0.84 | 0.69 | 1.53 | 8.14 |
| Limits[2] | | | | | | | | |
| Lower | -0.15 | 0.78 | 1.41 | 2.51 | -0.44 | -0.33 | -0.77 | 1.75 |
| Upper | 5.99 | 2.27 | 2.93 | 10.70 | 2.12 | 1.71 | 3.83 | 14.53 |
| ±% | 105 | 49 | 35 | 62 | 152 | 148 | 150 | 79 |

1 Carapace length (mm), categories reflect smaller average size in the Northern District; 80 mm is the median size at maturity for females

2 Mean ± 2 standard errors for most recent year.

The 1991 fishery opened on September 1 with a guideline harvest of 3.2 million pounds out of an estimated stock of 8.1 million lbs. The target exploitation rate was 40% of the legal male biomass. In 1990, 31 vessels landed 1.7 million pounds, with an average CPUE of 8 crabs per pot-lift[3]. Preliminary information indicates that 1991 landings were very close to the guideline (Bill Nippes, ADF&G, 211 Mission Road, Kodiak, AK 99615, pers. commun., September 1991).

## Distribution and Abundance of Tanner Crab (*C. bairdi*)

Although the legal minimum size of 5.5 in cw is equivalent to 140 mm cw, legal crabs are defined in this report as ≥ 138 mm cw because of the difference between scientific measure (between spines) and commercial measure (spine tip to spine tip). The data included in Table 4, however, show

3. Alaska Department of Fish and Game, 1990. Westward Region shellfish report to the Alaska Board of Fisheries. ADF&G, Div. of Commercial Fisheries, Westward Regional Office, 211 Mission Road, Kodiak, AK 99615, 325 p.

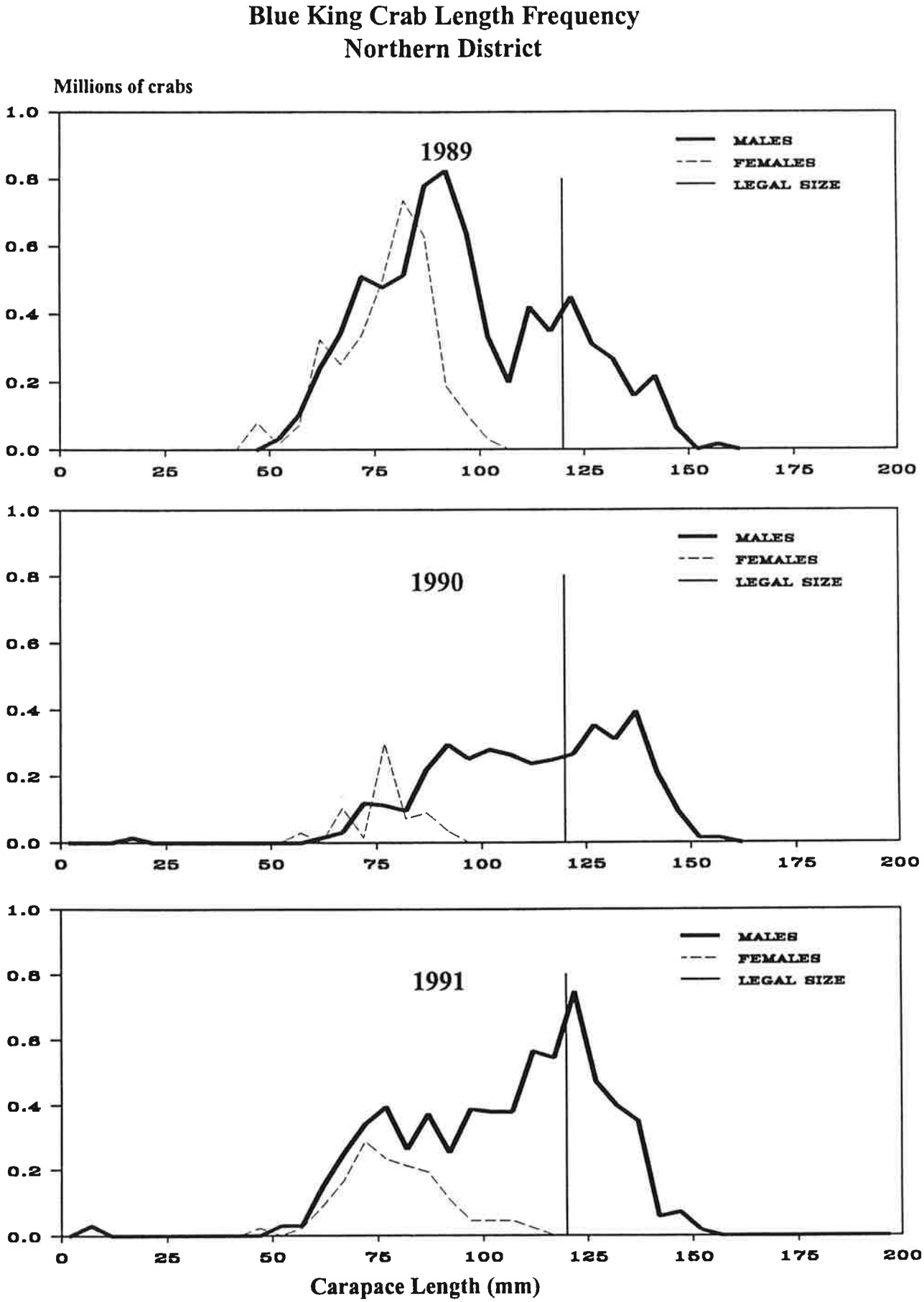



FIGURE 6. Estimates of abundance for St. Matthew Island (Northern District) blue king crab (*P. platypus*) by 5 mm length classes, 1989-1991. Vertical line indicates lower limit of legal size.

## Blue King Crab: Northern District

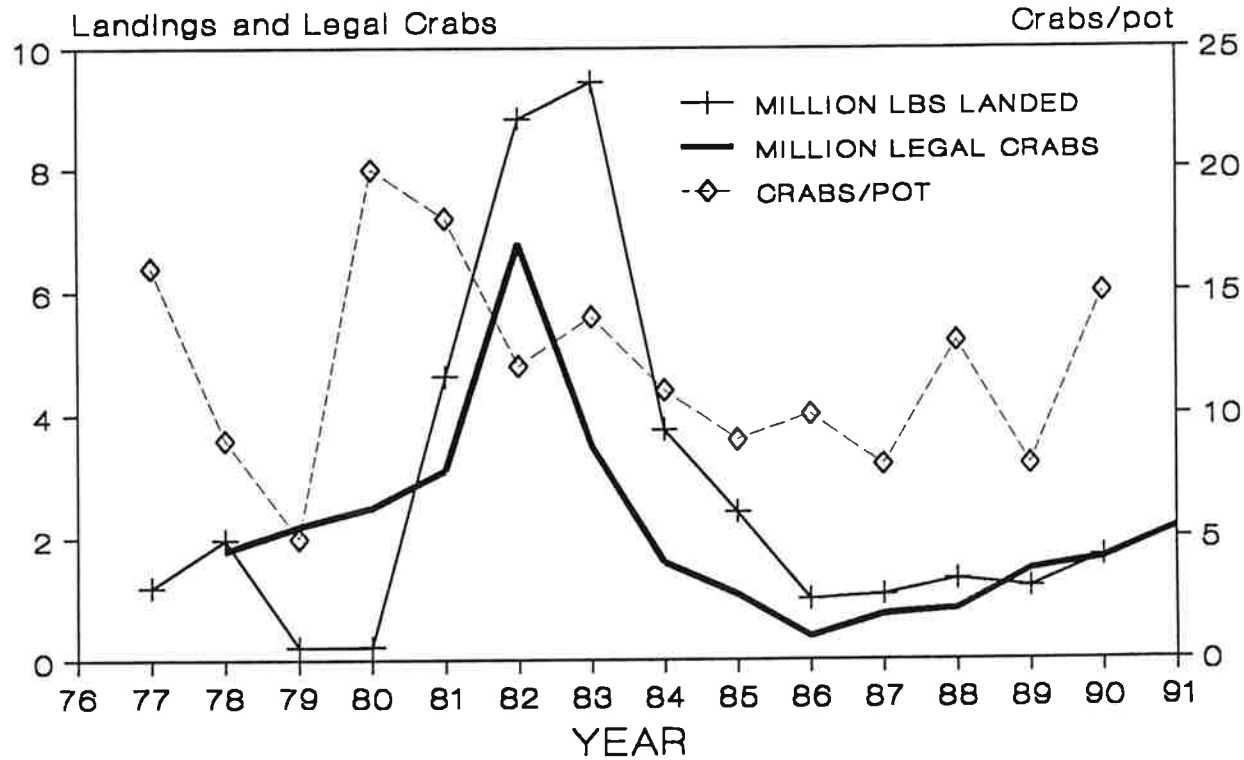



FIGURE 7. U.S. landings in millions of lbs, catch-per-unit-effort (CPUE) as crabs/pot, and the abundance of legal blue king crabs (*P. platypus*) in millions in the Northern District, estimated from the NMFS trawl surveys.

"large" crabs as males ≥135 mm, because this is closer to the lower limit of sizes landed, and has been used for a long-term index since 1976.

Large males were widely distributed in Bristol Bay and continental slope areas with regions of relatively high abundance in mid-Bristol Bay and the Pribilof Islands (Chart 3 and Table 9). Legal crab were found from 18 to 97 fm (average 42.2 fm) and at temperatures ranging from -0.8 to 5.5°C with an average temperature of 3.0°C. The estimated abundance of large (≥ 135 mm cw) male *C. bairdi* in the Eastern District is 45.5 million crabs (Table 4), of which 35.1 million are legal size (≥138 mm cw). About 72% of the legal crab were located east of 166°W long. The Eastern District (east of 173°W long.) includes 99.8% of legal males. Note that, prior to 1989, all estimates were presented for the combined Bristol Bay and Pribilof Districts, which included 98.4% of large males in 1988. The estimated total abundance of legal crabs showed a non-significant decrease of 22% from last year. The estimated abundance of pre-recruits (110-134 mm cw) showed a non-significant increase of 37%, and the estimate of small males (<110 mm cw) showed no significant change. This population appears fairly stable at a high level of abundance. Changes in abundance in the past few years may simply be due to imprecision in the survey. Size-frequency data (Fig. 8) show a strong cohort of pre-recruits, many of which may grow into the legal size category next year. A relatively small proportion (8%) of legal males were molting or softshell, whereas new hardshells comprised 58%, and oldshells were 33%.

The abundance of large (≥85 mm cw) females (all districts) showed a non-significant increase of 27%, and the abundance of small (<85 mm)

Table 4. Annual abundance estimates (millions of crabs) for Tanner crab (*C. bairdi*) from NMFS surveys. Data for 1989-present for Eastern District; all prior data for Bristol Bay and the Pribilof Districts.

| | Males | | | | Females | | | Grand Total |
|---|---|---|---|---|---|---|---|---|
| Size[1] (mm) | <110 | 110-134 | ≥135 | Total | <85 | ≥85 | Total | |
| Width (in) | <4.3 | 4.3-5.3 | ≥5.3 | | <3.4 | ≥3.4 | | |
| 1976 | 180.2 | 136.6 | 109.5 | 426.3 | 174.7 | 220.4 | 395.1 | 821.4 |
| 1977 | 255.0 | 116.3 | 92.1 | 463.4 | 328.4 | 215.8 | 544.2 | 1,007.6 |
| 1978 | 124.2 | 81.2 | 45.6 | 251.0 | 116.1 | 73.3 | 189.4 | 440.4 |
| 1979 | 133.1 | 47.7 | 31.5 | 212.3 | 122.6 | 42.1 | 164.7 | 377.0 |
| 1980 | 453.3 | 65.0 | 31.0 | 549.3 | 326.9 | 106.8 | 433.7 | 983.0 |
| 1981 | 303.8 | 24.0 | 14.0 | 341.8 | 324.2 | 79.1 | 403.3 | 745.1 |
| 1982 | 88.8 | 46.9 | 10.1 | 145.8 | 126.4 | 83.6 | 210.0 | 355.8 |
| 1983 | 146.3 | 32.0 | 6.7 | 185.0 | 180.1 | 45.4 | 225.5 | 410.5 |
| 1984 | 85.1 | 21.2 | 5.8 | 112.1 | 107.0 | 33.4 | 140.4 | 252.5 |
| 1985 | 31.1 | 9.4 | 4.4 | 44.9 | 24.2 | 15.6 | 39.8 | 84.7 |
| 1986 | 110.4 | 12.9 | 3.1 | 126.4 | 68.2 | 13.7 | 81.9 | 208.3 |
| 1987 | 230.1 | 19.7 | 8.3 | 258.0 | 193.3 | 35.5 | 228.8 | 486.8 |
| 1988 | 287.3 | 59.7 | 17.4 | 364.4 | 184.8 | 81.0 | 265.8 | 630.2 |
| 1989 | 403.0 | 102.1 | 42.3 | 547.5 | 338.6 | 63.8 | 402.4 | 949.9 |
| 1990 | 286.1 | 78.8 | 53.7 | 418.6 | 266.5 | 97.4 | 363.9 | 782.5 |
| 1991 | 267.2 | 105.4 | 45.5 | 418.1 | 232.1 | 116.8 | 348.9 | 767.0 |
| Limits[2] | | | | | | | | |
| Lower | 189.7 | 61.1 | 29.6 | 309.4 | 141.6 | 71.3 | 226.8 | 536.2 |
| Upper | 344.7 | 149.7 | 61.4 | 526.8 | 322.6 | 162.4 | 471.0 | 997.8 |
| ± % | 27 | 42 | 35 | 26 | 39 | 39 | 35 | 30 |

1 Carapace width (mm).
2 Mean ± 2 standard errors for most recent year.

females showed no significant change from last year. Only 21% of mature females were new hardshells, whereas 78% were oldshells, and <2% were molting or softshell. This is additional evidence that recruitment is slowing as this population nears peak abundance. About 98% of mature females were carrying new, uneyed embryos, suggesting that the period of larval hatching and embryo extrusion was essentially completed by the time of the survey.

The harvest guideline for 1991-92 has been set at 32.8 million lbs, out of an estimated 82.3 ± 29.0 millions lbs. available, for an exploitation rate of 40%. In 1990 about 40.1 million pounds were harvested[3] by 255 vessels, with average CPUE of 19 crabs/pot-lift(Fig.9)(Ken Griffin, ADF&G, P.O. Box 308, Dutch Harbor, AK 99692, pers. commun., September 1991).

## Distribution and Abundance of Snow crab (*C. opilio*)

Although the legal minimum size limit for *C. opilio* is 3.1 in cw (78 mm), processors currently prefer a minimum size of 4.0 inches (102 mm). Therefore, the size ranges for male *C. opilio* used in this report are defined as follows: sublegal, <3.1 in (<78 mm) cw; small, 3.1-4.0 in cw (78-101 mm); large, ≥4.0 in cw (≥102 mm); and very large ≥4.3 in cw (≥110 mm).

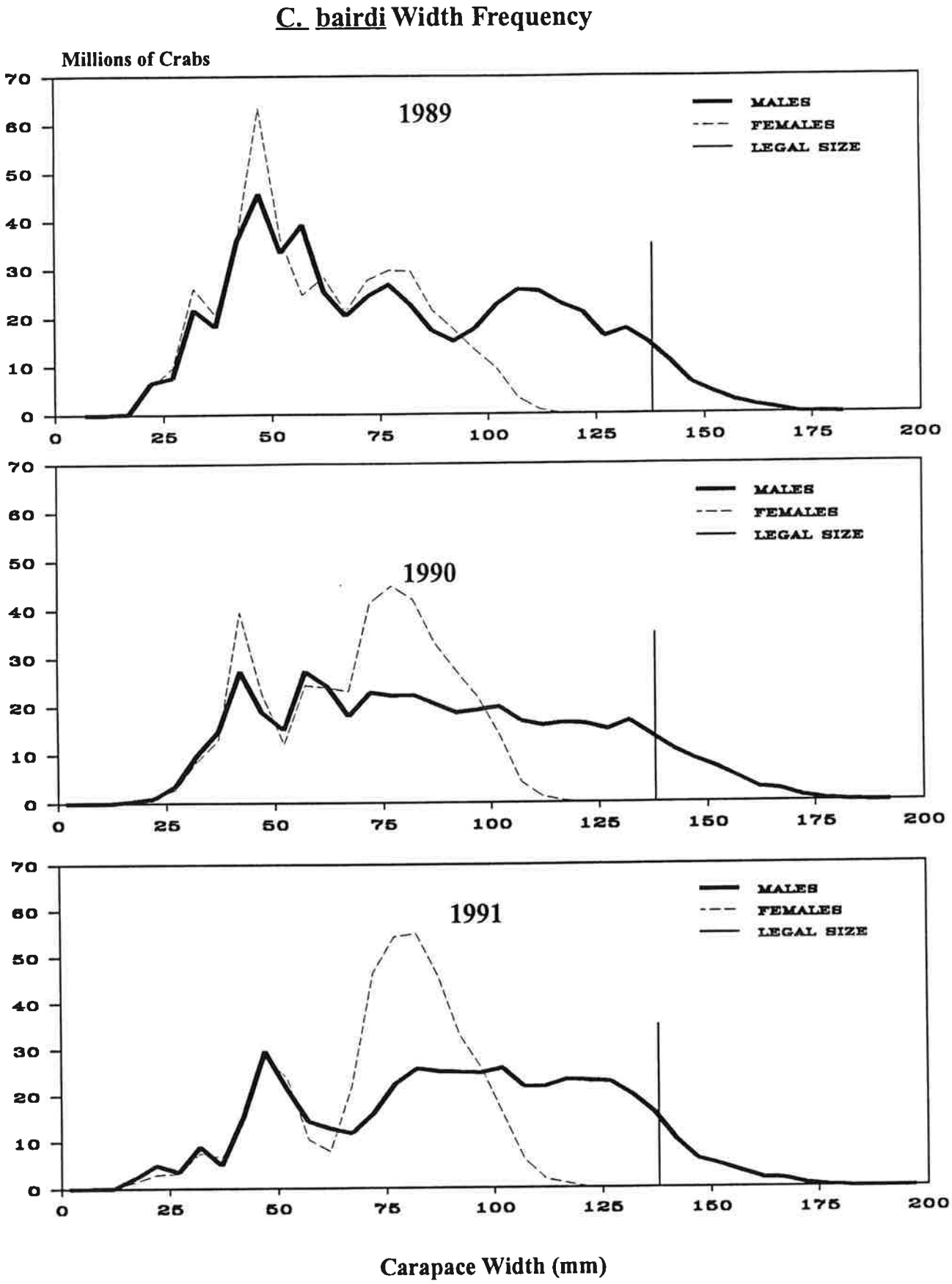



FIGURE 8. Estimates of abundance of *C. bairdi* in Bristol Bay and the Pribilof District by 5 mm width classes, 1989-1991. Vertical line indicates lower limit of legal size.

## C. bairdi, Bristol Bay and Pribilofs

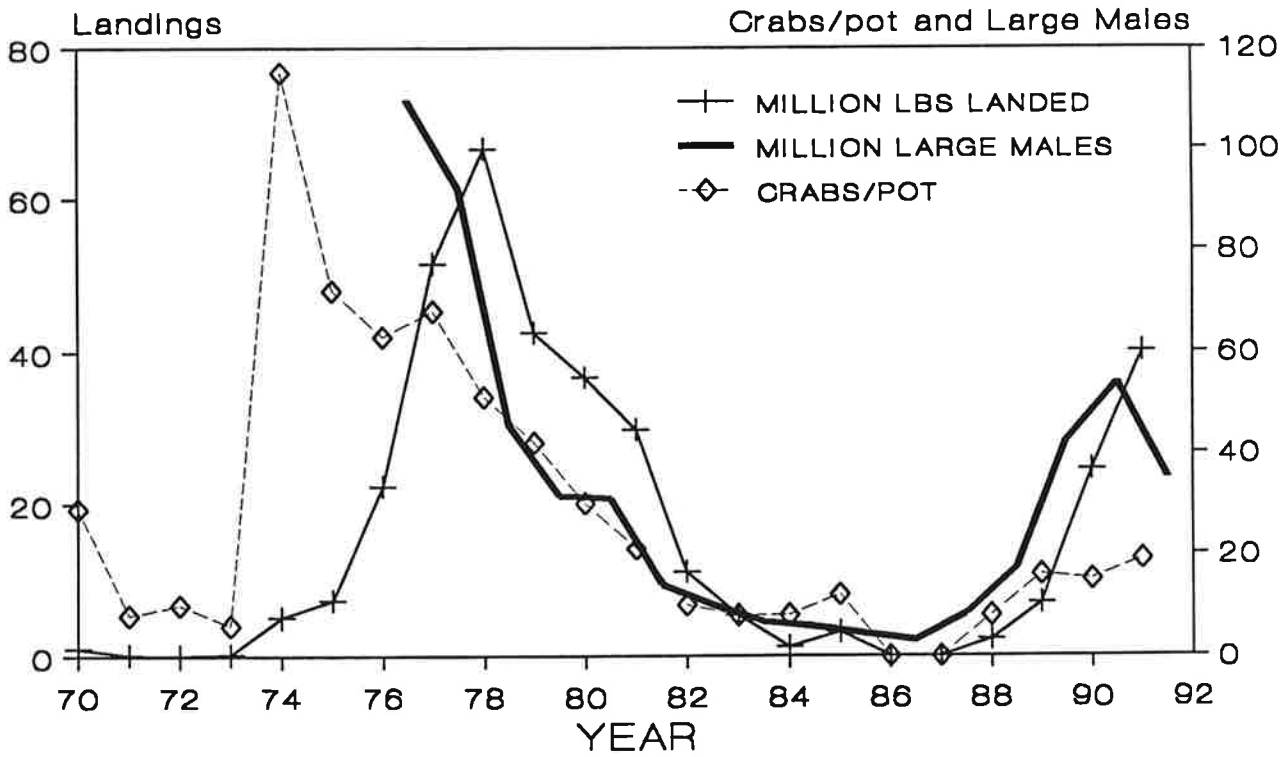



FIGURE 9. U.S. landings in millions of lbs, catch-per-unit-effort (CPUE) as crabs/pot, and the abundance of large male *C. bairdi* in millions in the Bristol Bay and Pribilof Districts (prior to 1989), or the Eastern District (After 1988), estimated from the NMFS trawl surveys.

The distribution of large males showed an area of high concentration northeast of the Pribilof Islands (Chart 4 and Table 10). There were also areas of high abundance in the extreme northwestern portion of the survey area west of St. Matthew Island. Crab larger than 4.0 inches were taken at depths from 24 to 97 fm (average 48.1 fm), and temperatures from -1.6 to 5.5°C (average 1.7°C).

This species has been surveyed since 1978, but the area surveyed prior to 1982 was smaller than the currently surveyed area, and previous estimates probably underestimated the exploitable crab population. Furthermore, the 4-inch (102 mm) size preference was not in use prior to 1984. For these reasons estimates of abundance of large males are not shown for years prior to 1984 (Table 5; Fig. 11).

The estimated number of large (≥102 mm cw) males (Eastern and Western Districts combined) is 484.1 million crabs, a non-significant increase of 15% from last year. Small males (78-101 mm cw) showed a significant decrease of 32%, and very large males (≥110 mm cw) showed a significant increase of 71%. Sublegal males (<3.1 in cw) showed a significant increase of 79%. Increases in larger size groups are primarily due to growth of prerecruit crab, and the population also appears to have had strong recruitment of juvenile crab. The estimated abundance of large female (≥50 mm cw) crabs showed a non-significant increase of 28%, and small females showed a significant increase of 125%. Size-frequency data (Fig. 10) indicate that major recruitment of postlarval crab occurred in the mid-1980's, and recruitment to the fishery has improved as juveniles matured. From 1989 to 1990 a large

Table 5. Annual abundance estimates (all districts combined) for eastern Bering Sea snow crab (*C. opilio*) from NMFS surveys (millions of crab).

| | Males | | | | Females | | | |
|---|---|---|---|---|---|---|---|---|
| Size[1] (mm) | <102 | ≥102 | ≥110 | Total | <50 | ≥50 | Total | Grand |
| Width (in) | <3.7 | ≥4.0 | ≥4.3 | | <2.0 | ≥2.0 | | Total |
| 1982 | * | * | 21.7 | 2073.2 | 402.6 | 2255.8 | 2658.4 | 4731.7 |
| 1983 | * | * | 22.1 | 1858.1 | 673.1 | 1228.4 | 1912.6 | 3759.7 |
| 1984 | 1237.4 | 153.2 | 73.9 | 1390.7 | 610.5 | 581.7 | 1192.2 | 2582.9 |
| 1985 | 547.8 | 74.9 | 40.7 | 622.6 | 258.2 | 123.5 | 381.7 | 1004.3 |
| 1986 | 1179.0 | 83.1 | 45.9 | 1262.0 | 790.6 | 422.0 | 1212.5 | 2474.5 |
| 1987 | 4438.9 | 150.8 | 70.0 | 4589.8 | 2919.3 | 2929.3 | 5848.6 | 10438.4 |
| 1988 | 3467.2 | 171.0 | 90.1 | 3638.2 | 1235.3 | 2322.7 | 3556.0 | 7194.2 |
| 1989 | 3646.1 | 187.1 | 81.2 | 3833.1 | 1922.8 | 3790.7 | 5713.4 | 9546.5 |
| 1990 | 2860.4 | 420.3 | 188.7 | 3280.7 | 1463.3 | 2798.1 | 4261.4 | 7542.1 |
| 1991 | 3971.2 | 484.1 | 323.0 | 4455.0 | 3289.0 | 3575.0 | 6863.9 | 11319.2 |
| East (%)[2] | 67.1 | 78.3 | 78.5 | 68.5 | 59.8 | 60.4 | 60.2 | 63.8 |
| Limits[3] | | | | | | | | |
| Lower | 2700.4 | 343.7 | 216.4 | 3163.3 | 2006.3 | 2037.7 | 4255.6 | 7418.9 |
| Upper | 5245.0 | 624.5 | 429.5 | 5747.4 | 4571.7 | 5112.2 | 9472.2 | 15219.6 |
| ± | 32 | 29 | 33 | 29 | 39 | 43 | 38 | 34 |

1 Carapace width in mm.
2 Proportion of size group in Eastern District.
3 Mean ± 2 standard errors for most recent year.
* Estimates not available at present time.

number of males grew about 20 mm, a larger than expected increment. It also appears that a large number of legal sized but small clawed crab grew into the large size category in 1991. In addition, strong recruitment of postlarval crab has occurred in the last few years. Recruitment patterns in this stock are not entirely clear since recruitment evidently occurs both through localized production and by immigration from unsurveyed areas, perhaps including Soviet waters. Among large male crabs in the Eastern District, 36% were in molting or softshell condition, 51% were newshells indicating a recent molt, and 13% were oldshells (these may have some scratch marks and be slightly duller than newshells, but still fairly clean). Less than 0.1% were very oldshells (dark colored, often with wound marks and/or overgrown with barnacles and other organisms). In the Western District, 15% of large males were molting or softshells, 66% were newshells, 16% were oldshells, and 3% were very oldshells.

Almost no females were molting or softshell, indicating that the female molting period was completed. Oldshells comprised 54% of mature females in the Eastern District, and 85% in the Western District: these proportions are very similar to last year. Considering only mature female crabs, about 87% carried new uneyed embryos (vs 77% last year) indicating that hatching and extrusion were close to completion by the time of the survey.

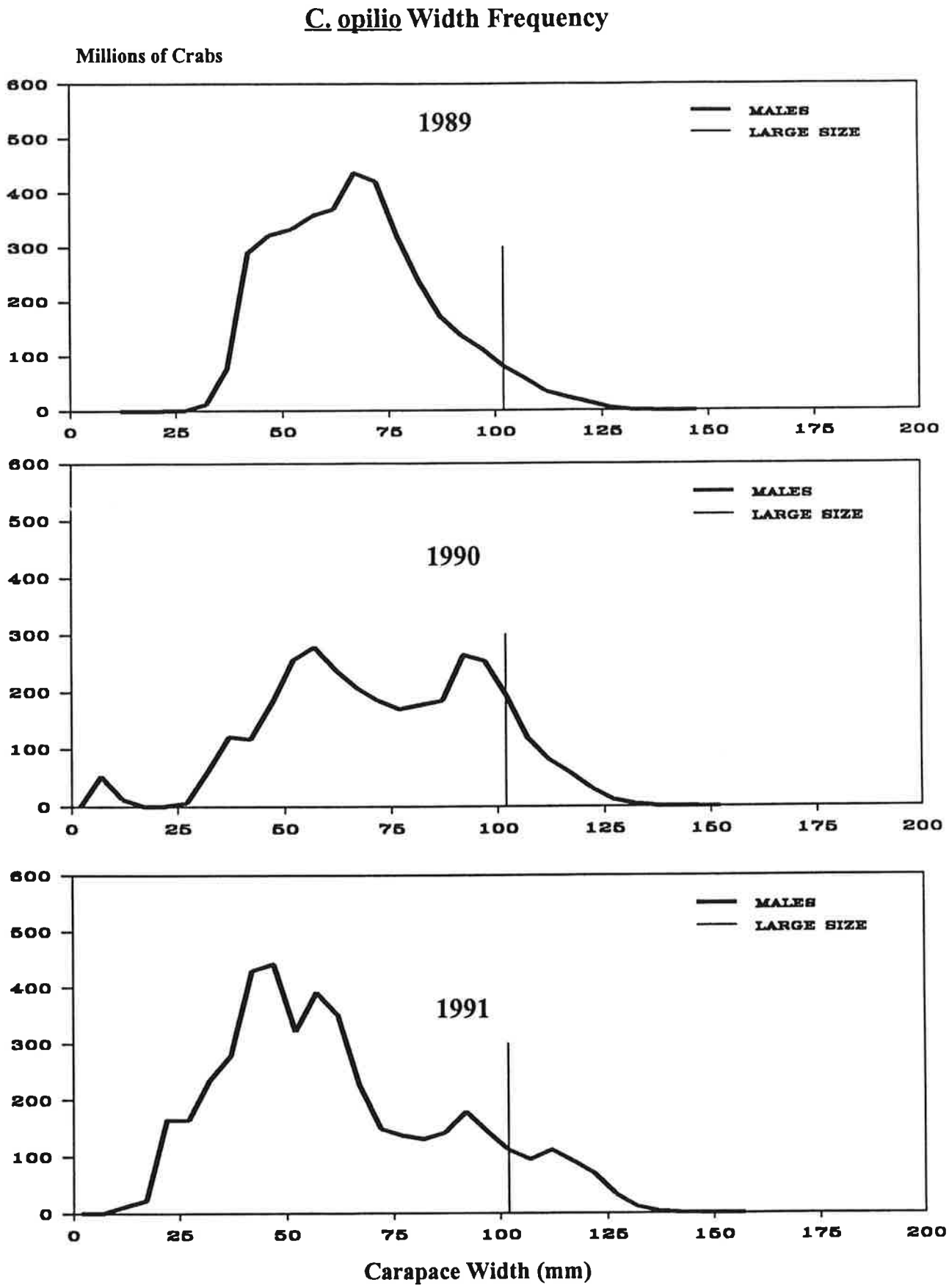



FIGURE 10. Estimates of abundance for male *C. opilio*, all districts combined by 5 mm width classes, 1989-1991. Vertical line indicates minimum size preferred by industry.

## C. opilio, All Districts

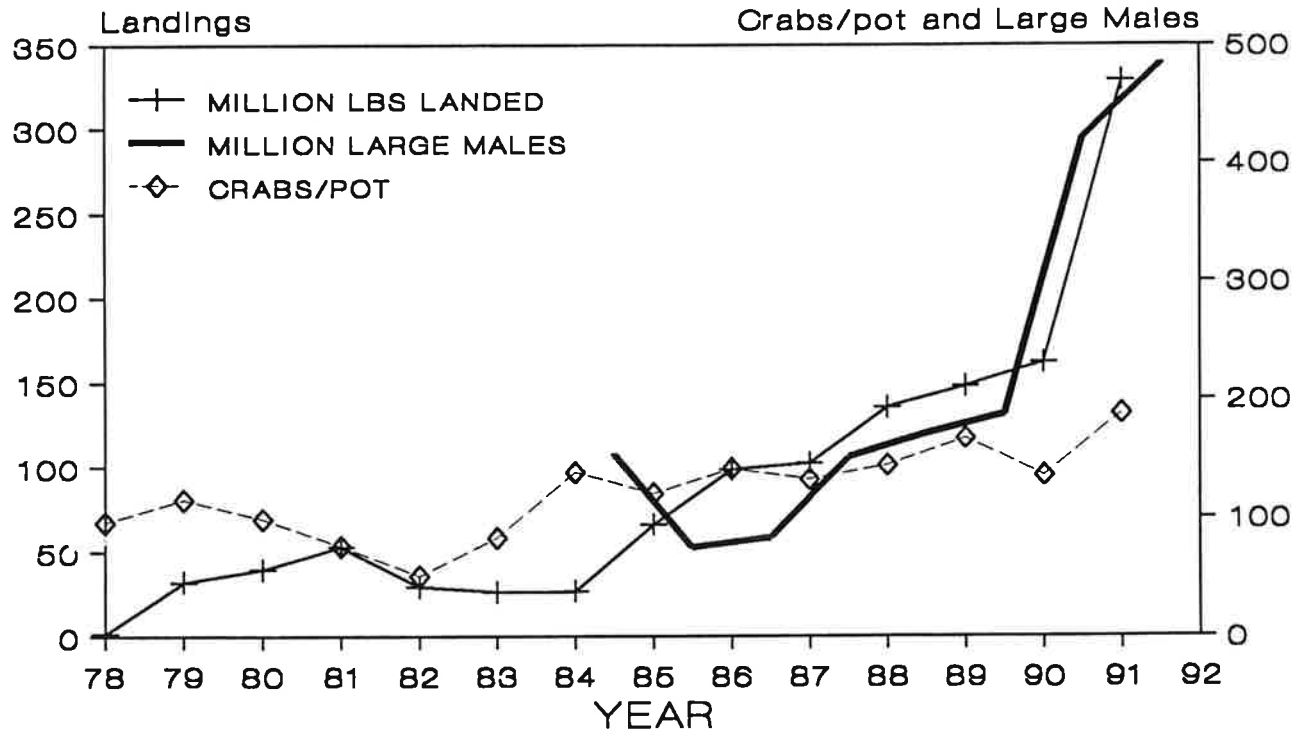



FIGURE 11. U.S. landings in million of lbs, catch-per-unit-effort (CPUE) as crabs/pot, and the abundance of large male (≥102 mm cw) *C. opilio* in millions (all districts combined), estimated from the NMFS trawl surveys.

The harvest guideline for 1991 has been set at 400 million lbs for large crab. Currently there are an estimated 690 (± 200) million pounds of large males (≥4.0 in cw) within the survey area of which 88% by weight exist east of 173°W long. Preliminary 1991 ADF&G statistics[3] indicate that about 328.6 million lbs were landed (Fig. 11) by 228 vessels, with average catches of 188 crabs/pot (Ken Griffin, ADF&G, pers. commun., September 1991).

### Distribution and Abundance of Hair Crab

Hair crab are widely scattered across the EBS (Chart 5 and Table 11). Areas of concentration exist immediately north of the Alaska Peninsula and near the Pribilof Islands. Large hair crab (≥3.5 in or ≥90 mm cl) were taken in 24 to 46 fm (average 32.0 fm) and at temperatures of 2.1 to 5.4°C (average 3.9°C). Large males were 100% of the catch in many areas. We have never found many female or small male crab during the survey and hence have little understanding of their distribution.

Because of their patchy distribution and low densities, estimates of abundance of hair crab are imprecise. The estimated abundance of large male hair crabs has been declining since 1981 and has been very low since 1988 (Table 6). The current estimate of 650,000 shows a non-significant increase of 18% over the past year. The estimated abundance of small (<3.5 in cl) males shows a non-significant decrease of 62% from last year, but is still relatively high and indicative of recent strong juvenile production. The estimated abundance of total females shows a non-significant increase of 53% from last year, but this estimate is unreliable as

indicated above. Size-frequency data (Fig. 12) show improved recruitment of small male crabs in the past 3 years, and may indicate future improvement in the fishable stocks. Shell conditions for hair crab are difficult to determine, and may not be very precise. The majority of males (80%) and females (94%) were new hardshell crabs.

Landings have been largely incidental to Tanner and snow crabbing although there is occasionally some directed effort. No hair crab were landed in the last year. Currently there are an estimated 1.1 million pounds (±57%) of large male crabs. The fishery and markets have both been intermittent and probably will remain so in the near future. There are no guideline harvest levels, closed seasons or size limits for hair crab. CPUE has not been predictable due to low effort in recent years (Fig. 13).

## Bottom Temperatures

The average bottom water temperature in 1991 was 2.3°C as compared to 2.2°C in 1990 and 3.0°C in 1989. The coldest waters were encountered around St. Matthew Island (Chart 6). The warmest waters were found in Kuskokwim Bay and inner Bristol Bay. Most year-to-year variation in temperature is associated with relatively shallow areas of the

Table 6. Annual abundance estimates (millions of crabs) for hair crabs (*Erimacrus isenbeckii*) from NMFS surveys. The size at entry to the U.S. fishery is approximately 90 mm (3.5 in) carapace length.

| | Males | | | Females | | Grand Total |
|---|---|---|---|---|---|---|
| Size[1] (mm) Length (in) | <90 <3.5 | ≥90 ≥3.5 | Total | | Total | |
| 1979 | 6.4 | 16.1 | 22.5 | | 1.6 | 24.1 |
| 1980 | 6.0 | 13.7 | 19.7 | | 3.1 | 22.8 |
| 1981 | 6.1 | 15.9 | 22.0 | | 0.8 | 22.8 |
| 1982 | 1.4 | 7.7 | 9.1 | | 0.4 | 9.5 |
| 1983 | 0.9 | 4.8 | 5.7 | | 0.9 | 6.6 |
| 1984 | 1.1 | 2.9 | 4.0 | | 0.4 | 4.4 |
| 1985 | 0.53 | 2.22 | 2.75 | | 0.22 | 2.97 |
| 1986 | 0.71 | 1.46 | 2.17 | | 0.37 | 2.54 |
| 1987 | 1.95 | 1.19 | 3.14 | | 0.91 | 4.05 |
| 1988 | 3.98 | 0.55 | 4.52 | | 0.85 | 5.37 |
| 1989 | 12.30 | 0.40 | 12.72 | | 0.30 | 13.02 |
| 1990 | 15.58 | 0.55 | 16.14 | | 0.87 | 17.00 |
| 1991 | 5.88 | 0.65 | 6.53 | | 1.33 | 7.86 |
| Limits[2] | | | | | | |
| Lower | 2.18 | 0.28 | 2.61 | 0.46 | 3.08 | |
| Upper | 9.59 | 1.02 | 10.45 | 2.19 | 12.64 | |
| ±% | 63 | 57 | 60 | 65 | 61 | |

1 Carapace length (mm).
2 Mean ± 2 standard errors for most recent year.

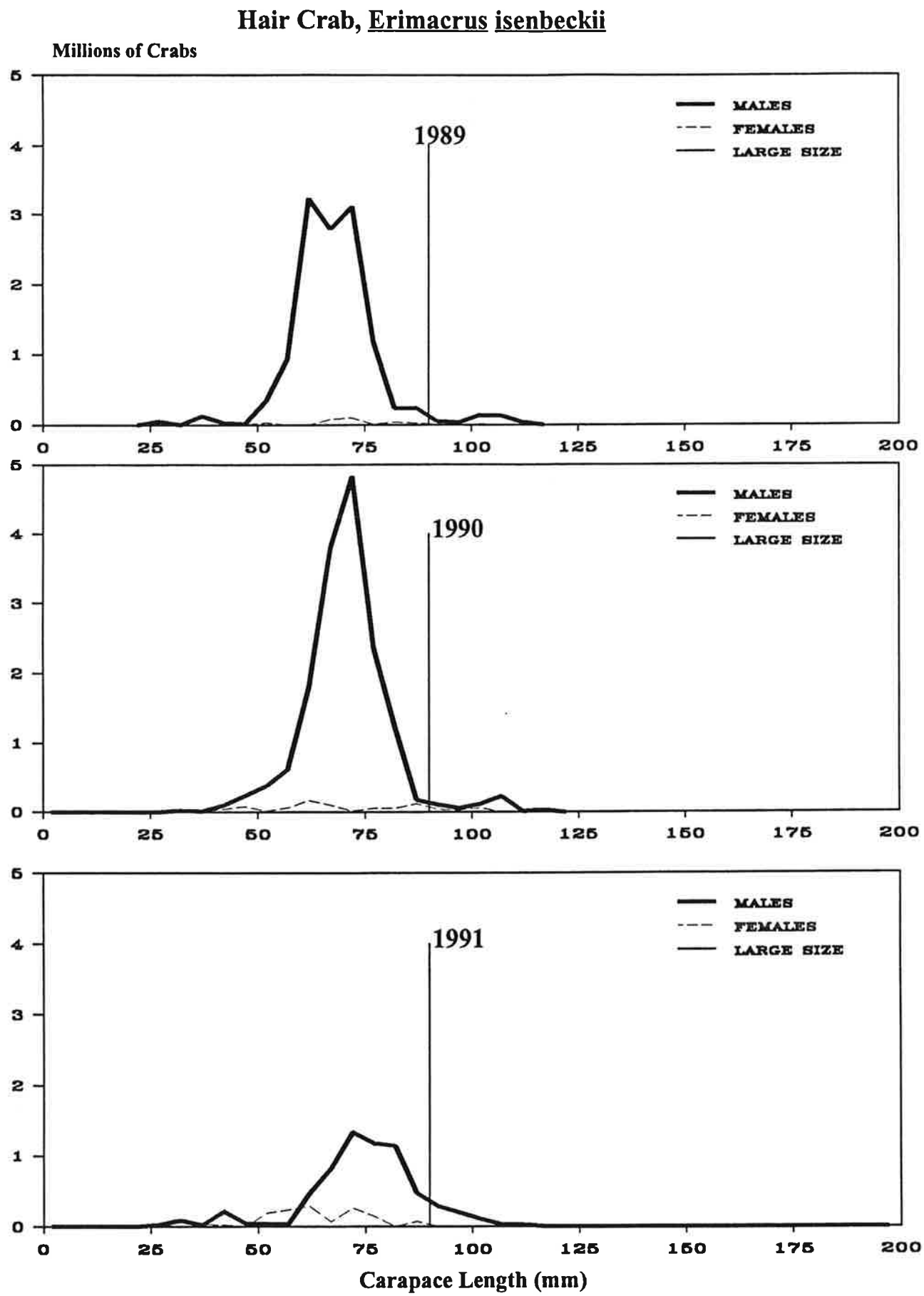



FIGURE 12. Estimates of abundance for hair crab (*E. isenbeckii*) by 5 mm length classes, 1989-1991. Vertical line indicates lower limit of large size group.

## Hair Crab, Erimacrus isenbeckii

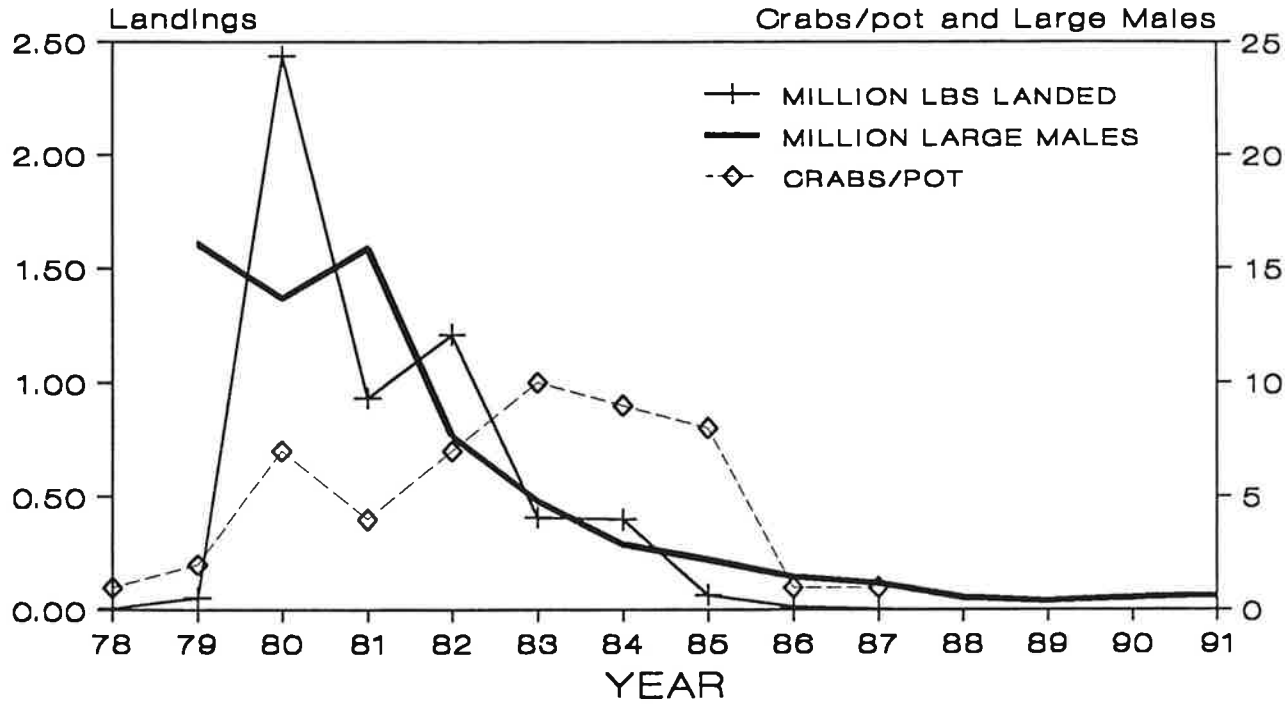



FIGURE 13. U.S. landings in millions of lbs, catch-per-unit-effort (CPUE) as crabs/pot, and the abundance of large male (≥90 mm cl) hair crab (*E. isenbeckii*) in millions (all districts combined), estimated from the NMFS trawl survey.

continental shelf and near shore. There is little year-to-year change in the Pribilof Islands and other shelf edge areas where temperatures are moderated by incursions of deep ocean water. The effect of water temperature on changes in the distribution and abundance of crabs in the eastern Bering Sea is poorly known.

As an index of mean temperature in the area most important to larval and juvenile red king crab growth, the average temperature has been determined from the June survey data for 37 stations along the Alaska Peninsula since 1971. This coastal temperature index for 1991 was 3.61°C (Fig. 14), which is slightly above the 1971-1991 average.

### Summary

In the early or mid-1980's, a major recruitment event occurred for both Tanner and snow crab. In 1990 and 1991, *C. opilio* have continued to grow, increasing the abundance of large crab. Additionally, another major cohort of juvenile *C. opilio* appears to have been produced in the late 1980's. Pribilof Island blue king crabs, as well as hair crab, have also shown improved signs of recruitment of small crab; however, lack of knowledge concerning growth rates of those two species leads to uncertainty about the timing of the event. In contrast, Bristol Bay red king crab and St. Matthew Island blue kings show little sign of recruitment, but the

## Coastal Bottom Temperature Index

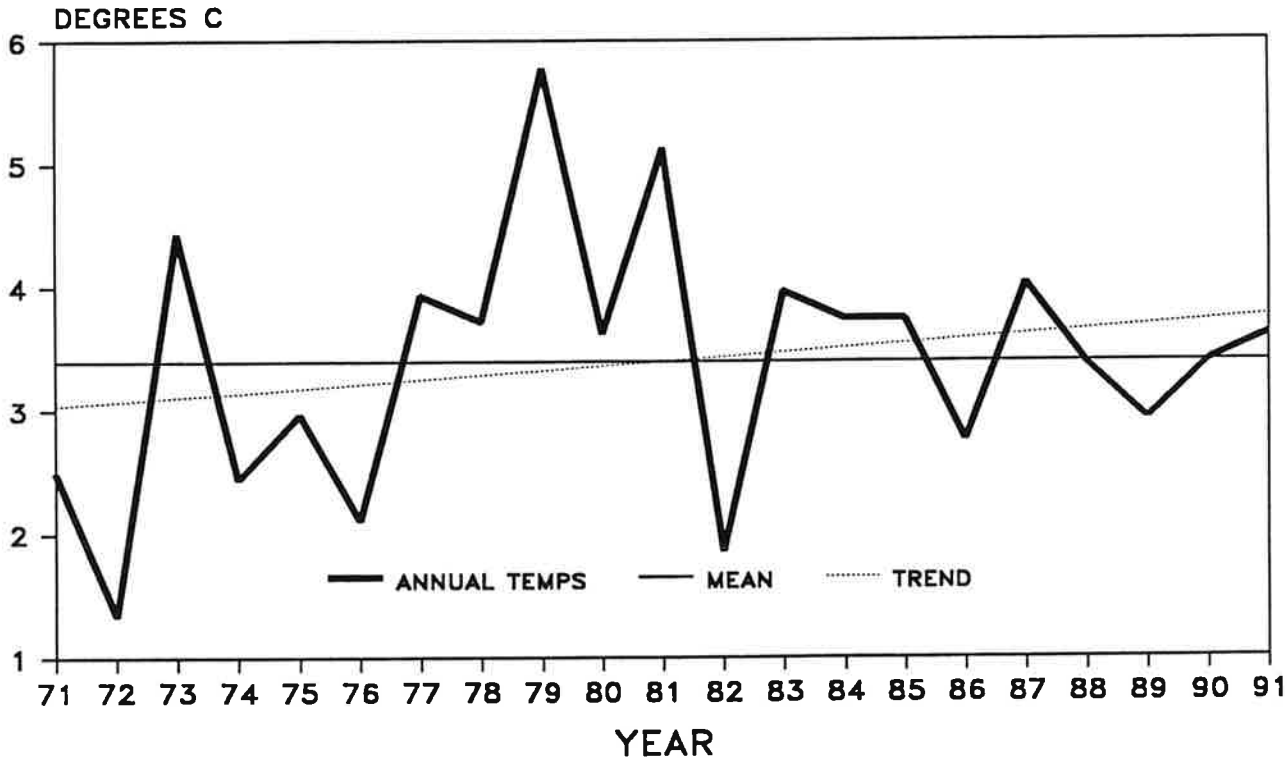



FIGURE 14. Coastal bottom temperature index (mean of 37 survey stations along the Alaska Peninsula in degrees C for 1971-present. Horizontal line is average value over the entire period.

survey has generally been unsuccessful in detecting such crab until they are typically 50-75 mm cl, or 5-8 years of age. Whatever conditions are responsible for such recruitment events may have been limited to the outer shelf area, where it would have affected all but the latter two stocks. Shelf and coastal water temperatures remained in the average range, as they have since 1983.

### A Note on Tagging and Tag Returns

Since 1982, NMFS has tagged a number of crabs each year. These include red, blue and golden (brown) king crabs. In Bristol Bay, we tagged about 10,000 red king crabs in 1985, and several hundred each year through 1990. The purpose of our tagging program is to gather information on growth, migrations, and the frequency of molting. For this reason, we need fairly complete information with returned tags. Tag returns are not used to monitor or close fisheries. All tagged crabs, regardless of size or sex, may be retained for the purpose of tag data recovery. The following information is requested:

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

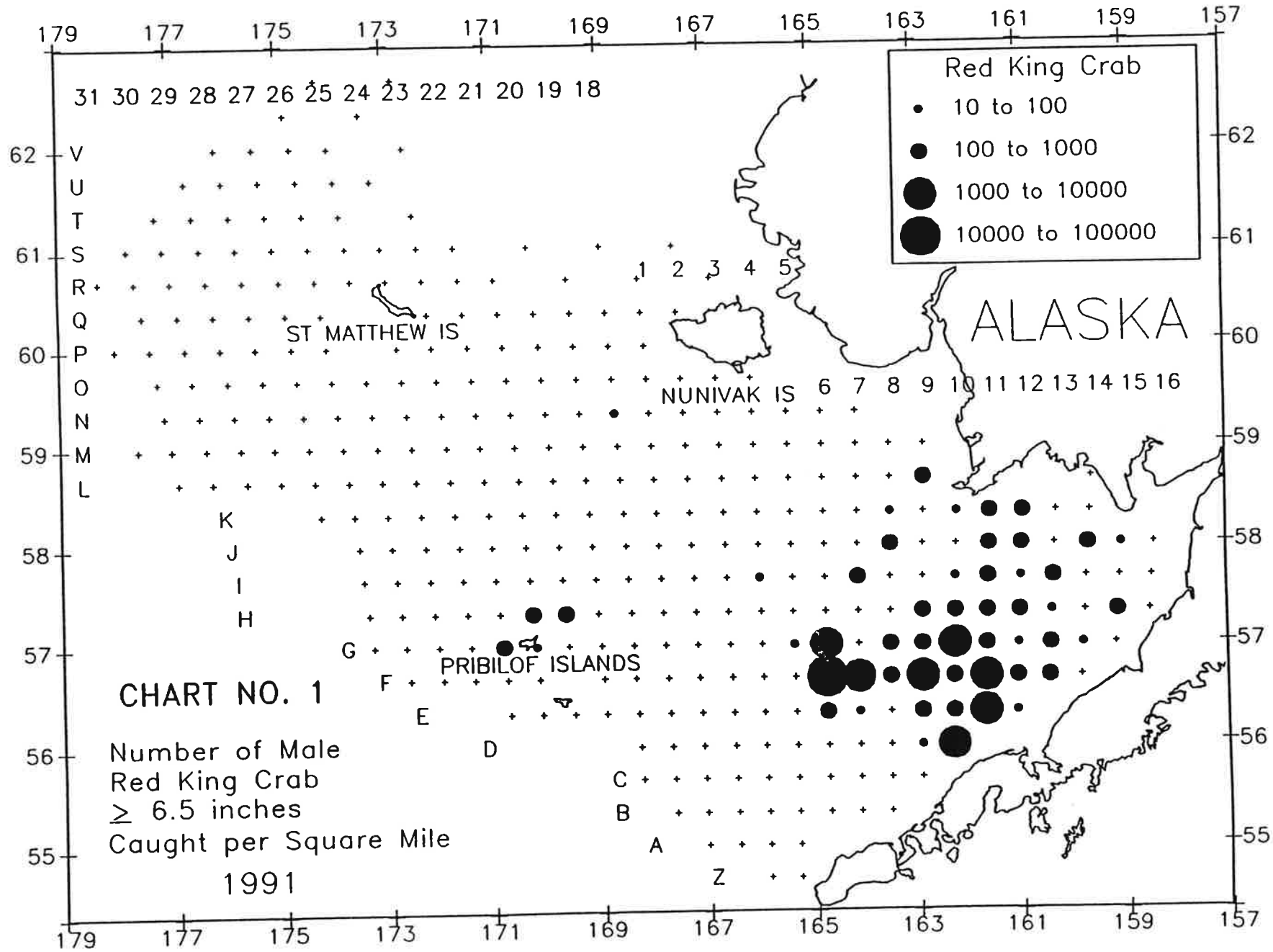
This information will be recorded on stamped data cards and if possible validated by ADF&G biologists before being mailed to the NMFS in Kodiak. The reward will be mailed to the address on the card. Any legal male crab will remain the property of the catcher vessel.

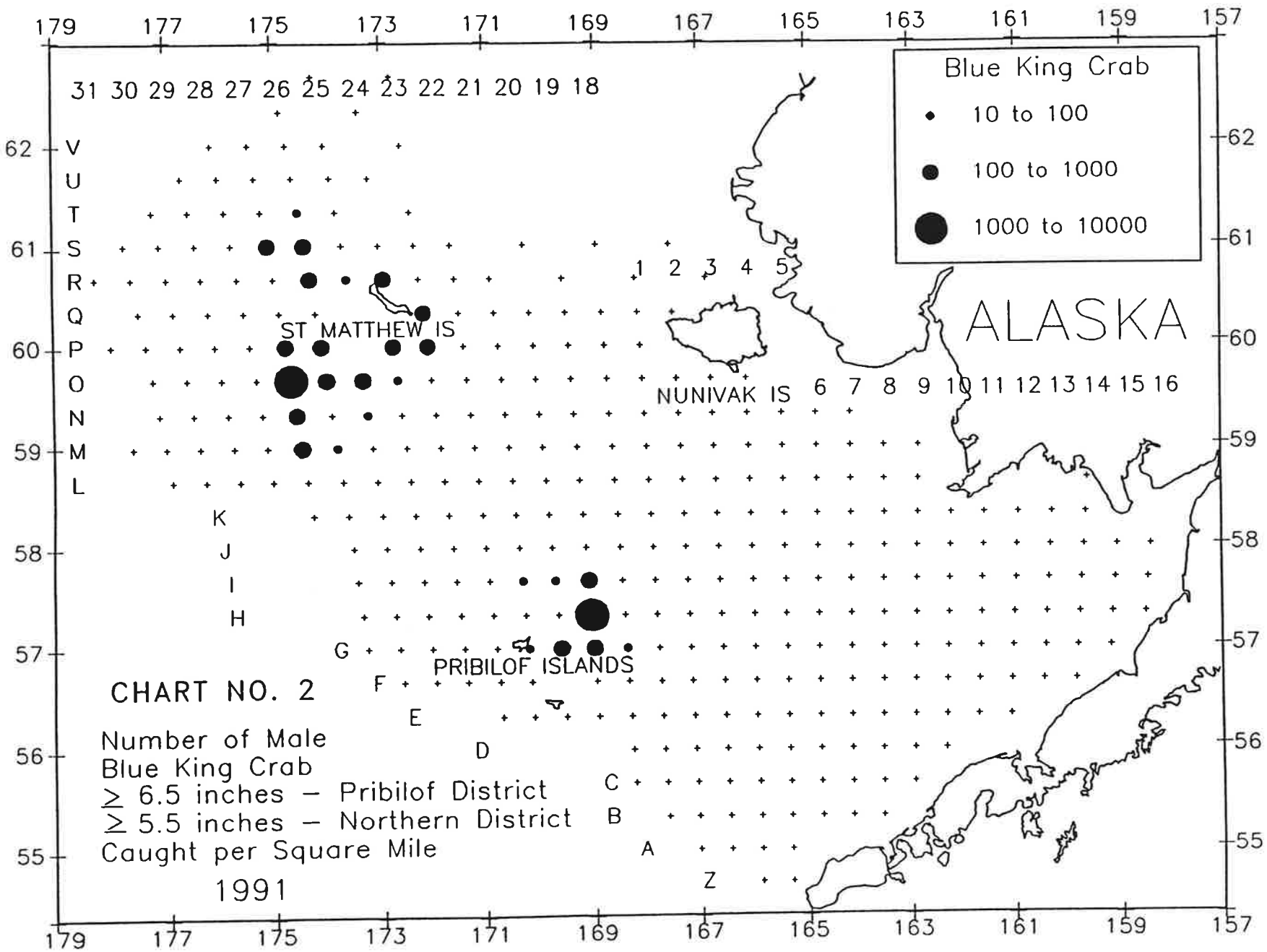
A reward of $10.00 will be paid for all tags returned with complete information with the exception of 70 predetermined numbers. Of these 70 tags, 40 will have a reward value of $25.00, 20 a reward value of $50.00 and 10 a reward value of $100.00. Tags returned without the above information will have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

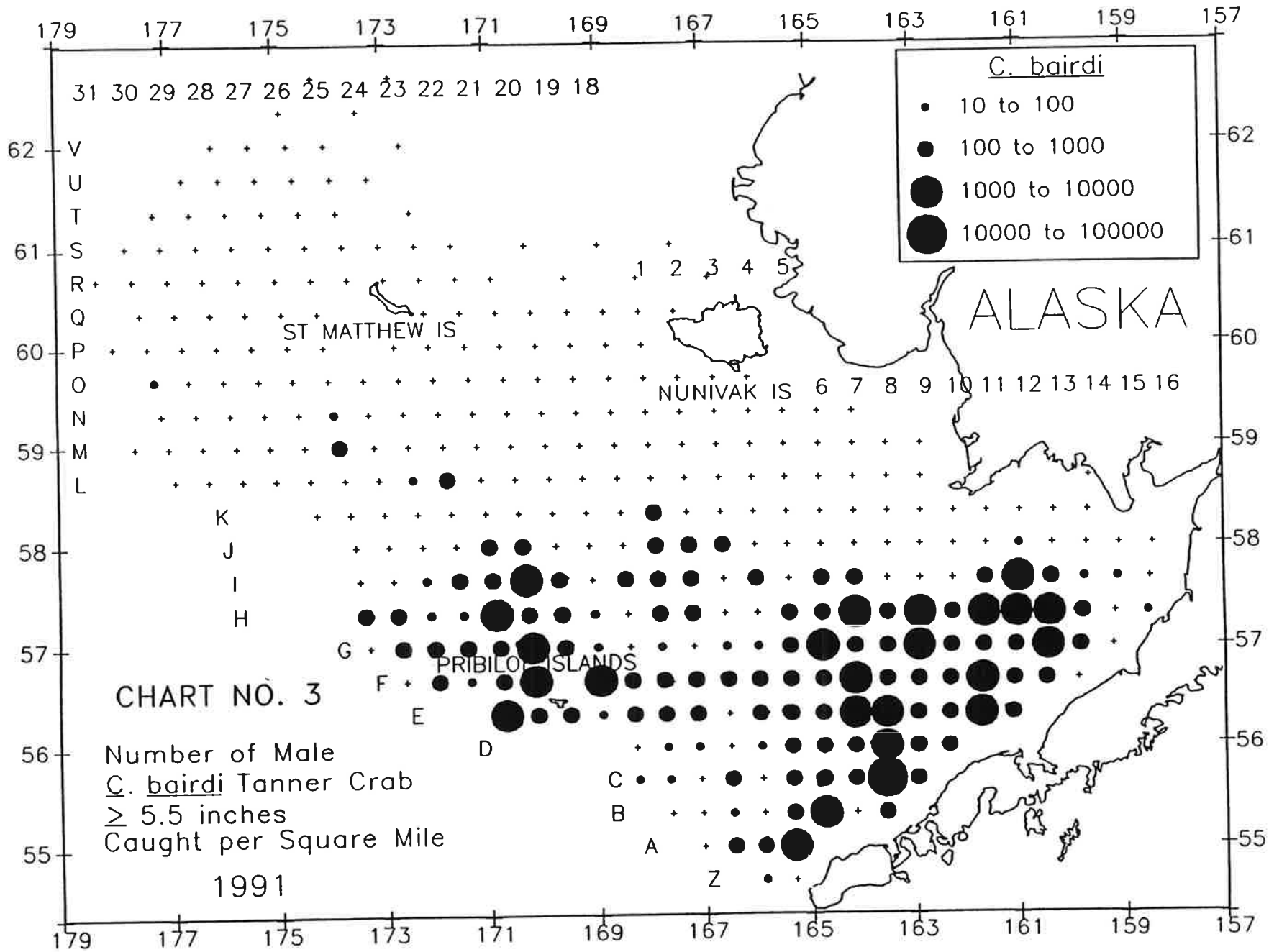
After the fishery is closed and all returns have been checked for completeness and accuracy, six of the returned numbers will be randomly selected by computer. Of these randomly selected numbers, three will have an additional reward value of $200.00 and three will have an additional reward value of $300.00.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

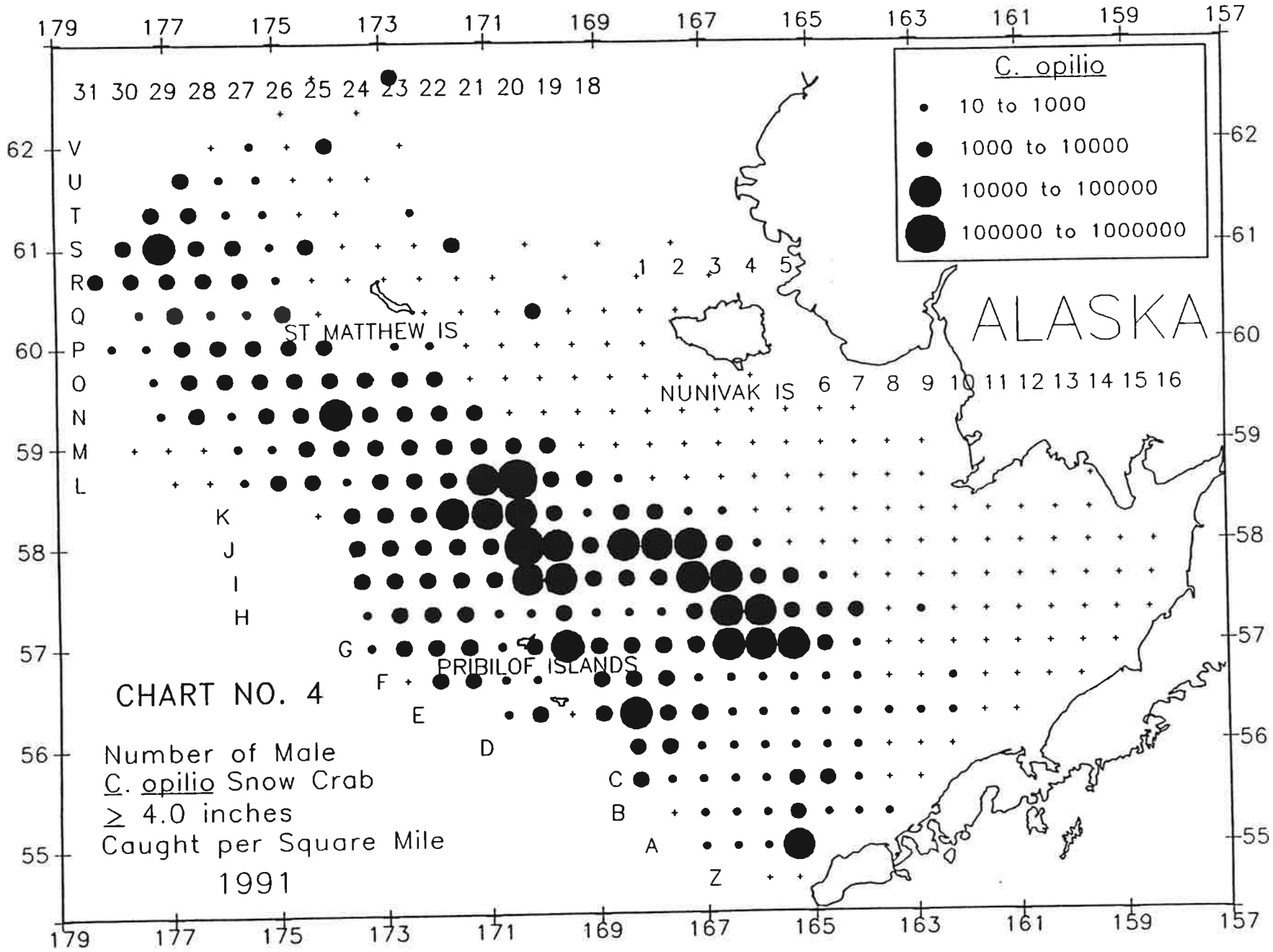
**Acknowledgements**

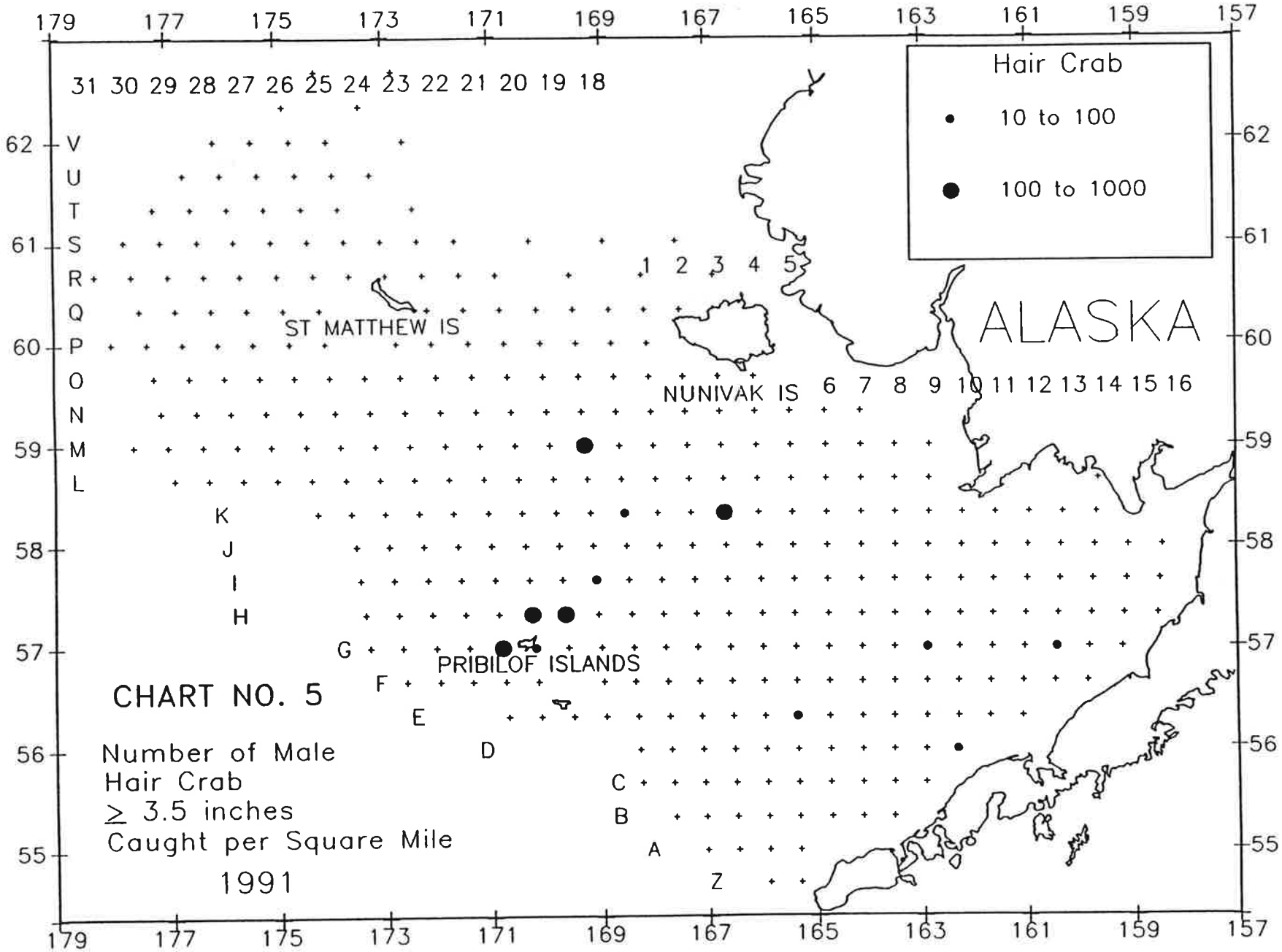
Successful completion of the annual eastern Bering Sea crab-groundfish survey is crucially dependent on the skipper and crews of the participating vessels. We extend special thanks to Mitch Hull and Joe Spicciani(FV Ocean Hope 3), Tom Oswald (RV Alaska), and their crews.


Red King Crab
10 to 100
100 to 1000
1000 to 10000
10000 to 100000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 1
Number of Male
Red King Crab
≥ 6.5 inches
Caught per Square Mile
1991


Blue King Crab
10 to 100
100 to 1000
1000 to 10000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 2
Number of Male
Blue King Crab
≥ 6.5 inches – Pribilof District
≥ 5.5 inches – Northern District
Caught per Square Mile
1991


C. bairdi
10 to 100
100 to 1000
1000 to 10000
10000 to 100000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 3
Number of Male
C. bairdi Tanner Crab
≥ 5.5 inches
Caught per Square Mile
1991


C. opilio
10 to 1000
1000 to 10000
10000 to 100000
100000 to 1000000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 4
Number of Male
C. opilio Snow Crab
≥ 4.0 inches
Caught per Square Mile
1991


Hair Crab
10 to 100
100 to 1000
ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 5
Number of Male
Hair Crab
≥ 3.5 inches
Caught per Square Mile
1991

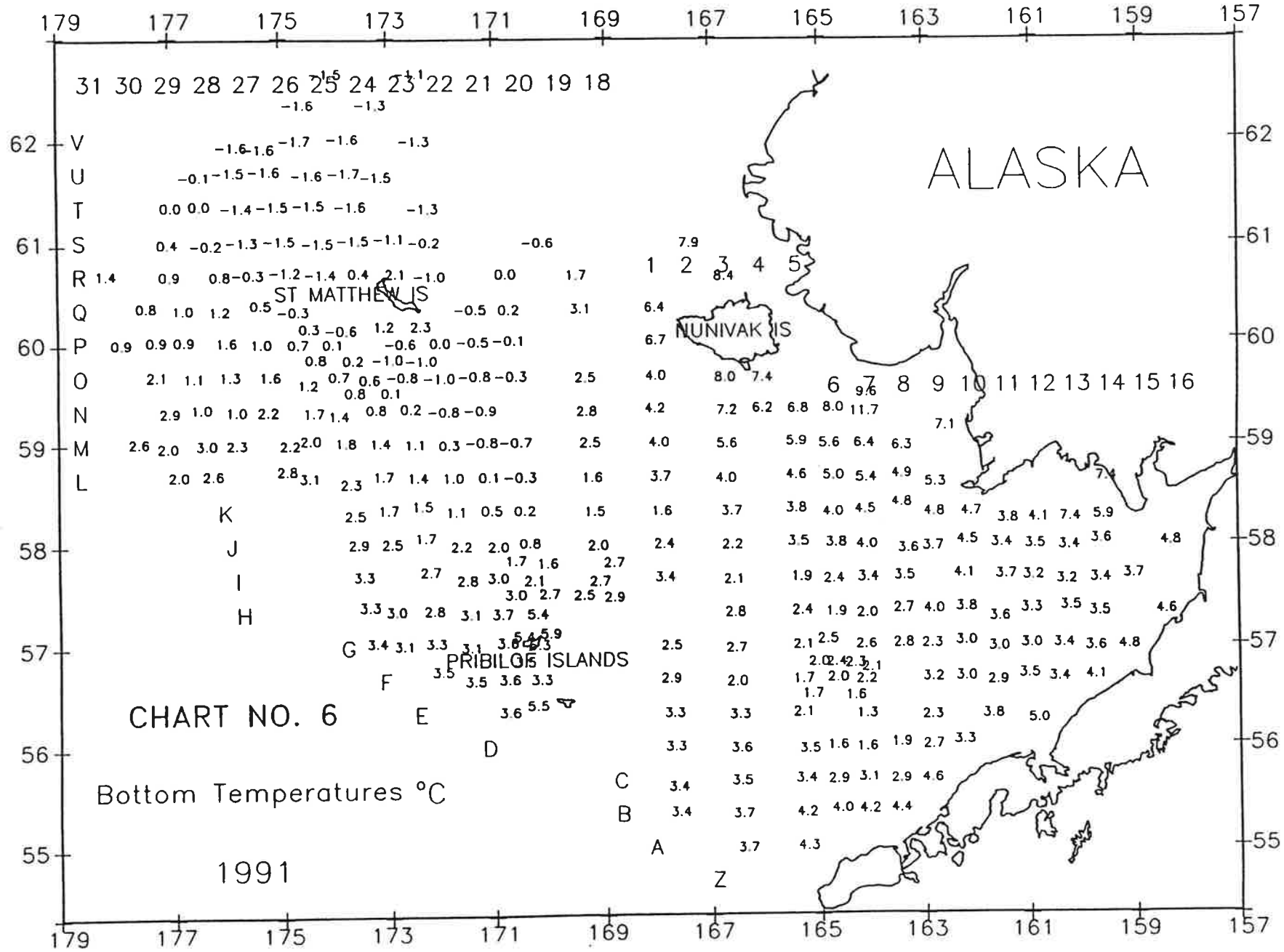

ALASKA
ST MATTHEW IS
NUNIVAK IS
PRIBILOF ISLANDS
CHART NO. 6
Bottom Temperatures °C
1991

TABLE 7 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| D09 | 6/21 | 56-01 | 162-47 | Y33994 Z47198 | 42 | 2.7 | 0.0 | 0.0 | 0.0 | 73.0 | 73.0 | 100.0 |
| D10 | 6/15 | 56-03 | 162-12 | Y33891 Z46967 | 42 | 3.3 | 1301.0 | 163.0 | 650.0 | 1789.0 | 3903.0 | 45.8 |
| E06 | 6/22 | 56-20 | 164-34 | Y34209 Z47905 | 48 | | 0.0 | 0.0 | 0.0 | 313.0 | 313.0 | 100.0 |
| E07 | 6/22 | 56-19 | 164-02 | Y34121 Z47695 | 46 | 1.3 | 0.0 | 0.0 | 0.0 | 76.0 | 76.0 | 100.0 |
| E09 | 6/21 | 56-18 | 162-48 | Y33920 Z47201 | 43 | 2.3 | 0.0 | 0.0 | 77.0 | 154.0 | 231.0 | 66.7 |
| E10 | 6/15 | 56-22 | 162-11 | Y33806 Z46957 | 48 | | 20367.0 | 2239.0 | 373.0 | 746.0 | 23725.0 | 3.1 |
| E11 | 6/14 | 56-19 | 161-40 | Y33739 Z46749 | 34 | 3.8 | 4969.0 | 186.0 | 497.0 | 1056.0 | 6708.0 | 15.7 |
| E12 | 6/12 | 56-16 | 160-49 | Y33626 Z46409 | 18 | 5.0 | 0.0 | 0.0 | 0.0 | 66.0 | 66.0 | 100.0 |
| F06 | 6/23 | 56-40 | 164-34 | Y34115 Z47910 | 40 | 2.0 | 0.0 | 615.0 | 7308.0 | 32538.0 | 40462.0 | 80.4 |
| F07 | 6/23 | 56-49 | 164-15 | Y34014 Z47778 | 39 | 2.3 | 0.0 | 0.0 | 157.0 | 2520.0 | 2677.0 | 94.1 |
| F07 | 6/22 | 56-47 | 163-56 | Y33973 Z47655 | 39 | 2.1 | 81.0 | 0.0 | 2419.0 | 4194.0 | 6694.0 | 62.7 |
| F07 | 6/22 | 56-40 | 164-03 | Y34027 Z47699 | 40 | 2.2 | 0.0 | 0.0 | 556.0 | 4286.0 | 4841.0 | 88.5 |
| F07 | 6/23 | 56-30 | 164-15 | Y34108 Z47779 | 44 | 1.6 | 0.0 | 0.0 | 81.0 | 813.0 | 894.0 | 90.9 |
| F08 | 6/20 | 56-43 | 163-21 | Y33893 Z47420 | 41 | | 87.0 | 87.0 | 261.0 | 609.0 | 1044.0 | 58.3 |
| F09 | 6/20 | 56-41 | 162-47 | Y33811 Z47192 | 38 | 3.2 | 315.0 | 384.0 | 709.0 | 1339.0 | 2756.0 | 48.6 |
| F10 | 6/15 | 56-41 | 162-10 | Y33710 Z46943 | 39 | 3.0 | 1983.0 | 413.0 | 248.0 | 413.0 | 3057.0 | 13.5 |
| F11 | 6/14 | 56-39 | 161-34 | Y33632 Z46706 | 50 | 2.9 | 598.0 | 342.0 | 1111.0 | 1197.0 | 3248.0 | 36.9 |
| F12 | 6/12 | 56-43 | 160-59 | Y33525 Z46468 | 38 | 3.5 | 1130.0 | 261.0 | 87.0 | 435.0 | 1913.0 | 22.7 |
| F13 | 6/11 | 56-40 | 160-25 | Y33454 Z46241 | 34 | 3.4 | 423.0 | 634.0 | 141.0 | 141.0 | 1338.0 | 10.5 |
| F14 | 6/08 | 56-42 | 159-44 | Y33354 Z45967 | 19 | 4.1 | 0.0 | 0.0 | 72.0 | 0.0 | 72.0 | 0.0 |
| G05 | 6/23 | 56-50 | 164-55 | Y34129 Z48050 | 39 | 2.0 | 0.0 | 0.0 | 0.0 | 78.0 | 78.0 | 100.0 |
| G06 | 6/24 | 57-04 | 164-45 | Y34023 Z47977 | 37 | 2.5 | 0.0 | 0.0 | 0.0 | 79.0 | 79.0 | 100.0 |
| G06 | 6/23 | 56-50 | 164-36 | Y34072 Z47919 | 39 | 2.4 | 0.0 | 0.0 | 254.0 | 5424.0 | 5678.0 | 95.5 |
| G08 | 6/20 | 57-01 | 163-21 | Y33794 Z47410 | 36 | 2.8 | 152.0 | 0.0 | 379.0 | 455.0 | 985.0 | 46.2 |
| G09 | 6/20 | 57-01 | 162-48 | Y33708 Z47193 | 32 | 2.3 | 227.0 | 76.0 | 227.0 | 758.0 | 1288.0 | 58.9 |
| G10 | 6/15 | 57-02 | 162-10 | Y33597 Z46934 | 32 | 3.0 | 763.0 | 1069.0 | 305.0 | 1145.0 | 3282.0 | 34.9 |
| G11 | 6/14 | 56-59 | 161-33 | Y33524 Z46691 | 38 | 3.0 | 331.0 | 83.0 | 0.0 | 165.0 | 579.0 | 28.5 |
| G12 | 6/12 | 57-01 | 160-56 | Y33425 Z46443 | 33 | 3.0 | 840.0 | 84.0 | 336.0 | 84.0 | 1344.0 | 6.3 |
| G13 | 6/11 | 57-01 | 160-20 | Y33338 Z46198 | 36 | 3.4 | 2044.0 | 949.0 | 0.0 | 292.0 | 3285.0 | 8.9 |
| G14 | 6/09 | 56-59 | 159-44 | Y33268 Z45960 | 32 | 3.6 | 1699.0 | 1634.0 | 65.0 | 65.0 | 3464.0 | 1.9 |
| H08 | 6/20 | 57-21 | 163-20 | Y33672 Z47393 | 29 | 2.7 | 0.0 | 0.0 | 85.0 | 0.0 | 85.0 | 0.0 |
| H09 | 6/20 | 57-21 | 162-45 | Y33584 Z47165 | 25 | 4.0 | 159.0 | 0.0 | 0.0 | 317.0 | 476.0 | 66.6 |
| H10 | 6/15 | 57-22 | 162-09 | Y33483 Z46922 | 28 | 3.8 | 81.0 | 81.0 | 81.0 | 569.0 | 813.0 | 70.0 |
| H11 | 6/14 | 57-16 | 161-32 | Y33424 Z46675 | 31 | 3.6 | 1667.0 | 2803.0 | 682.0 | 909.0 | 6061.0 | 15.0 |

NOTE: PRE-RECRUIT = 5.2-6.5 IN. WIDTH; LEGAL = 6.5 IN. OR GREATER IN WIDTH FOR AREA S. OF 58:39N
PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH FOR AREA N. OF 58:39N

TABLE 7 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE RED KING CRAB WERE TAKEN (Cont)

| | | | | | | | NJMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| H12 | 6/12 | 57-21 | 160-56 | Y33310 Z46433 | 32 | 3.3 | 1441.0 | 593.0 | 85.0 | 339.0 | 2458.0 | 13.8 |
| H13 | 6/11 | 57-22 | 160-12 | Y33201 Z46136 | 32 | 3.5 | 776.0 | 259.0 | 259.0 | 86.0 | 1379.0 | 6.2 |
| H14 | 6/09 | 57-19 | 159-39 | Y33148 Z45920 | 31 | 3.5 | 391.0 | 703.0 | 0.0 | 0.0 | 1094.0 | 0.0 |
| H15 | 6/07 | 57-20 | 159-02 | X18724 Z45673 | 27 | | 303.0 | 76.0 | 0.0 | 152.0 | 530.0 | 28.7 |
| H20 | 7/12 | 57-19 | 169-35 | Y34903 Z49890 | 35 | | 0.0 | 0.0 | 0.0 | 234.0 | 234.0 | 100.0 |
| I04 | 6/30 | 57-39 | 165-53 | Y34005 Z48394 | 36 | | 0.0 | 0.0 | 0.0 | 72.0 | 72.0 | 100.0 |
| I07 | 6/25 | 57-40 | 164-00 | Y33664 Z47645 | 27 | 3.4 | 0.0 | 0.0 | 0.0 | 265.0 | 265.0 | 100.0 |
| I10 | 6/19 | 57-42 | 162-11 | Y33365 Z46925 | 25 | 4.1 | 69.0 | 139.0 | 69.0 | 69.0 | 347.0 | 19.9 |
| I11 | 6/14 | 57-41 | 161-24 | Y33257 Z46613 | 28 | 3.7 | 625.0 | 1094.0 | 0.0 | 625.0 | 2344.0 | 26.7 |
| I12 | 6/13 | 57-40 | 160-53 | Y33190 Z46410 | 31 | 3.2 | 1870.0 | 1057.0 | 81.0 | 81.0 | 3090.0 | 2.6 |
| I13 | 6/10 | 57-38 | 160-16 | Y33120 Z46159 | 29 | 3.2 | 1361.0 | 1088.0 | 544.0 | 204.0 | 3198.0 | 6.4 |
| I14 | 6/09 | 57-39 | 159-38 | Y33033 Z45908 | 27 | 3.4 | 0.0 | 323.0 | 0.0 | 0.0 | 323.0 | 0.0 |
| I16 | 6/07 | 57-37 | 158-22 | X18735 Z45404 | 18 | | 167.0 | 167.0 | 0.0 | 0.0 | 334.0 | 0.0 |
| J08 | 6/19 | 57-56 | 163-13 | Y33426 Z47326 | 23 | 3.6 | 0.0 | 0.0 | 0.0 | 144.0 | 144.0 | 100.0 |
| J09 | 6/19 | 57-58 | 162-46 | Y33346 Z47143 | 23 | 3.7 | 0.0 | 0.0 | 172.0 | 0.0 | 172.0 | 0.0 |
| J10 | 6/19 | 58-01 | 162-07 | Y33227 Z46889 | 22 | 4.5 | 0.0 | 0.0 | 159.0 | 0.0 | 159.0 | 0.0 |
| J11 | 6/13 | 58-00 | 161-29 | Y33148 Z46638 | 30 | 3.4 | 1371.0 | 565.0 | 0.0 | 161.0 | 2097.0 | 7.7 |
| J12 | 6/13 | 57-59 | 160-51 | Y33070 Z46392 | 25 | 3.5 | 3462.0 | 2769.0 | 77.0 | 154.0 | 6462.0 | 2.4 |
| J14 | 6/09 | 58-02 | 159-36 | Y32894 Z45901 | 22 | 3.6 | 156.0 | 0.0 | 156.0 | 469.0 | 781.0 | 60.1 |
| J15 | 6/08 | 58-00 | 158-56 | Y32826 Z45637 | 23 | | 78.0 | 0.0 | 0.0 | 78.0 | 156.0 | 50.0 |
| J16 | 6/07 | 58-00 | 158-18 | Y32751 Z45388 | 17 | 4.8 | 74.0 | 74.0 | 0.0 | 0.0 | 148.0 | 0.0 |
| K03 | 7/04 | 58-19 | 166-32 | Y33787 Z48552 | 24 | 3.7 | 83.0 | 0.0 | 0.0 | 0.0 | 83.0 | 0.0 |
| K06 | 6/26 | 58-18 | 164-38 | Y33482 Z47843 | 23 | 4.0 | 0.0 | 0.0 | 82.0 | 0.0 | 82.0 | 0.0 |
| K08 | 6/18 | 58-24 | 163-21 | Y33243 Z47346 | 19 | 4.8 | 0.0 | 0.0 | 71.0 | 71.0 | 142.0 | 50.0 |
| K09 | 6/18 | 58-18 | 162-44 | Y33197 Z47116 | 17 | 4.8 | 0.0 | 76.0 | 153.0 | 0.0 | 229.0 | 0.0 |
| K10 | 6/19 | 58-18 | 162-03 | Y33098 Z46849 | 26 | 4.7 | 165.0 | 0.0 | 83.0 | 83.0 | 330.0 | 25.2 |
| K11 | 6/13 | 58-14 | 161-22 | Y33037 Z46586 | 24 | 3.8 | 79.0 | 79.0 | 157.0 | 157.0 | 473.0 | 33.2 |
| K12 | 6/13 | 58-14 | 160-47 | Y32958 Z46361 | 18 | 4.1 | 459.0 | 183.0 | 183.0 | 183.0 | 1009.0 | 18.1 |
| L02 | 7/04 | 58-40 | 167-13 | Y33689 Z48724 | 24 | | 78.0 | 0.0 | 0.0 | 0.0 | 78.0 | 0.0 |
| L04 | 6/29 | 58-39 | 165-56 | Y33504 Z48278 | 20 | | 0.0 | 0.0 | 147.0 | 0.0 | 147.0 | 0.0 |
| L05 | 6/29 | 58-40 | 165-19 | Y33397 Z48051 | 20 | 4.6 | 85.0 | 0.0 | 169.0 | 0.0 | 254.0 | 0.0 |
| L06 | 6/26 | 58-40 | 164-37 | Y33297 Z47798 | 19 | 5.0 | 81.0 | 0.0 | 0.0 | 0.0 | 81.0 | 0.0 |
| L09 | 6/18 | 58-36 | 162-43 | Y33060 Z47090 | 15 | 5.3 | 80.0 | 0.0 | 80.0 | 160.0 | 320.0 | 50.0 |
| M03 | 7/04 | 58-59 | 166-36 | Y33402 Z48446 | 17 | 5.6 | 0.0 | 0.0 | 81.0 | 0.0 | 81.0 | 0.0 |
| M04 | 6/29 | 59-00 | 165-56 | Y33305 Z48217 | 16 | | 0.0 | 0.0 | 83.0 | 0.0 | 83.0 | 0.0 |
| N18 | 7/07 | 59-19 | 168-34 | Y33418 Z48951 | 22 | | 0.0 | 85.0 | 0.0 | 85.0 | 171.0 | 49.7 |

NOTE: PRE-RECRUIT = 5.2-6.5 IN. WIDTH; LEGAL = 6.5 IN. OR GREATER IN WIDTH FOR AREA S. OF 58:39N
PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH FOR AREA N. OF 58:39N

TABLE 8 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BLUE KING CRAB WERE TAKEN

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| G01 | 7/08 | 57-00 | 167-41 | Y34615 Z49159 | 41 | 2.5 | 0.0 | 0.0 | 91.0 | 0.0 | 91.0 | 0.0 |
| G05 | 6/30 | 57-00 | 165-13 | Y34125 Z48162 | 38 | 2.1 | 0.0 | 0.0 | 79.0 | 0.0 | 79.0 | 0.0 |
| G18 | 7/08 | 56-58 | 168-20 | Y34761 Z49416 | 46 | | 0.0 | 0.0 | 167.0 | 83.0 | 250.0 | 33.2 |
| G19 | 7/12 | 57-10 | 168-38 | Y34762 Z49535 | 43 | | 508.0 | 424.0 | 1186.0 | 424.0 | 2542.0 | 16.7 |
| G19 | 7/11 | 56-51 | 168-38 | Y34861 Z49532 | 53 | | 0.0 | 0.0 | 0.0 | 252.0 | 252.0 | 100.0 |
| G19 | 7/11 | 57-00 | 168-56 | Y34887 Z49658 | 44 | | 336.0 | 84.0 | 504.0 | 252.0 | 1176.0 | 21.4 |
| G20 | 7/11 | 57-08 | 169-21 | Y34931 Z49819 | 40 | | 3276.0 | 345.0 | 172.0 | 172.0 | 3966.0 | 4.3 |
| G20 | 7/10 | 56-50 | 169-17 | Y34997 Z49779 | 44 | | 1024.0 | 79.0 | 157.0 | 157.0 | 1418.0 | 11.1 |
| G20 | 7/11 | 57-00 | 169-32 | Y35015 Z49894 | 35 | | 2966.0 | 85.0 | 169.0 | 169.0 | 3390.0 | 5.0 |
| G21 | 7/11 | 56-51 | 169-53 | Y35103 Z49993 | 40 | | 1220.0 | 0.0 | 325.0 | 0.0 | 1545.0 | 0.0 |
| G21 | 7/21 | 57-01 | 170-10 | Y35132 Z50121 | 36 | 5.3 | 108.0 | 0.0 | 108.0 | 108.0 | 323.0 | 33.4 |
| G21 | 7/21 | 57-08 | 169-57 | Y35077 Z50065 | 25 | 5.9 | 120.0 | 0.0 | 0.0 | 0.0 | 120.0 | 0.0 |
| G22 | 7/22 | 57-06 | 170-27 | X18660 Y35118 | 25 | 5.4 | 1184.0 | 1184.0 | 0.0 | 0.0 | 2368.0 | 0.0 |
| H18 | 7/08 | 57-19 | 168-22 | Y34640 Z49410 | 41 | | 0.0 | 0.0 | 263.0 | 0.0 | 263.0 | 0.0 |
| H19 | 7/12 | 57-29 | 168-45 | Y34650 Z49542 | 38 | 2.9 | 244.0 | 0.0 | 244.0 | 244.0 | 732.0 | 33.3 |
| H19 | 7/12 | 57-20 | 169-00 | Y34770 Z49659 | 40 | | 3361.0 | 1885.0 | 1311.0 | 2131.0 | 8689.0 | 24.5 |
| H20 | 7/12 | 57-19 | 169-35 | Y34903 Z49890 | 35 | | 78.0 | 156.0 | 156.0 | 0.0 | 391.0 | 0.0 |
| H21 | 7/21 | 57-19 | 170-11 | X18715 Y35008 | 27 | 5.4 | 0.0 | 132.0 | 0.0 | 0.0 | 132.0 | 0.0 |
| I18 | 7/08 | 57-39 | 168-24 | Y34486 Z49374 | 39 | | 0.0 | 263.0 | 0.0 | 0.0 | 263.0 | 0.0 |
| I19 | 7/13 | 57-38 | 169-01 | Y34616 Z49608 | 37 | 2.7 | 0.0 | 81.0 | 163.0 | 1220.0 | 1463.0 | 83.4 |
| I20 | 7/12 | 57-30 | 169-19 | Y34753 Z49751 | 37 | 2.5 | 894.0 | 1463.0 | 244.0 | 81.0 | 2683.0 | 3.0 |
| I20 | 7/13 | 57-41 | 169-38 | Y34685 Z49796 | 39 | | 0.0 | 0.0 | 0.0 | 76.0 | 76.0 | 100.0 |
| I21 | 7/20 | 57-31 | 169-58 | X18698 Y34847 | 37 | 2.7 | 0.0 | 159.0 | 79.0 | 159.0 | 397.0 | 40.1 |
| I21 | 7/20 | 57-39 | 170-14 | X18625 Y34771 | 39 | 2.1 | 125.0 | 0.0 | 0.0 | 0.0 | 125.0 | 0.0 |
| I22 | 7/20 | 57-30 | 170-35 | X18576 Y34869 | 40 | 3.0 | 260.0 | 0.0 | 0.0 | 0.0 | 260.0 | 0.0 |
| J20 | 7/13 | 57-50 | 169-20 | Y34539 Z49654 | 37 | | 0.0 | 0.0 | 85.0 | 0.0 | 85.0 | 0.0 |
| z23 | 7/28 | 63-19 | 172-36 | X17320 Y30903 | 34 | -1.6 | 81.0 | 0.0 | 0.0 | 0.0 | 81.0 | 0.0 |
| L04 | 6/29 | 58-39 | 165-56 | Y33504 Z48278 | 20 | | 0.0 | 74.0 | 0.0 | 0.0 | 74.0 | 0.0 |
| M26 | 7/31 | 59-01 | 173-43 | X17462 Y33697 | 66 | 1.8 | 0.0 | 0.0 | 82.0 | 82.0 | 164.0 | 50.0 |
| M27 | 8/05 | 59-02 | 174-22 | X17266 Y33642 | 71 | 2.0 | 0.0 | 0.0 | 246.0 | 164.0 | 410.0 | 40.0 |
| N25 | 7/31 | 59-20 | 173-08 | X17602 Y33521 | 55 | 0.8 | 0.0 | 0.0 | 0.0 | 83.0 | 83.0 | 100.0 |
| N26 | 7/31 | 59-17 | 173-50 | X17413 Y33527 | 63 | 1.4 | 0.0 | 163.0 | 0.0 | 0.0 | 163.0 | 0.0 |
| N27 | 7/30 | 59-19 | 174-18 | X17280 Y33486 | 66 | 1.7 | 0.0 | 87.0 | 174.0 | 348.0 | 609.0 | 57.1 |
| O24 | 7/25 | 59-39 | 172-36 | X17708 Y33323 | 47 | -0.8 | 0.0 | 0.0 | 0.0 | 68.0 | 68.0 | 100.0 |
| O25 | 7/25 | 59-30 | 172-51 | X17660 Y33420 | 53 | 0.1 | 0.0 | 163.0 | 81.0 | 163.0 | 407.0 | 40.0 |
| O25 | 7/30 | 59-38 | 173-16 | X17543 Y33325 | 53 | 0.6 | 0.0 | 0.0 | 0.0 | 165.0 | 165.0 | 100.0 |
| O25 | 7/30 | 59-49 | 173-34 | X17449 Y33197 | 53 | 0.2 | 0.0 | 252.0 | 504.0 | 672.0 | 1429.0 | 47.0 |
| O26 | 7/30 | 59-30 | 173-32 | X17483 Y33400 | 56 | 0.8 | 0.0 | 0.0 | 0.0 | 254.0 | 254.0 | 100.0 |

NOTE: PRE-RECRUIT = 5.2-6.5 IN. WIDTH; LEGAL = 6.5 IN. OR GREATER IN WIDTH FOR AREA S. OF 58:39N
PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH FOR AREA N. OF 58:39N

TABLE 8 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BLUE KING CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| O26 | 7/30 | 59-40 | 173-50 | X17392 Y33288 | 57 | 0.7 | 0.0 | 0.0 | 81.0 | 163.0 | 244.0 | 66.8 |
| O27 | 7/30 | 59-35 | 174-25 | X17239 Y33318 | 65 | 1.2 | 0.0 | 313.0 | 1094.0 | 1016.0 | 2422.0 | 41.9 |
| P18 | 7/07 | 59-58 | 168-40 | Y32953 Z48776 | 22 | | 0.0 | 88.0 | 0.0 | 0.0 | 88.0 | 0.0 |
| P23 | 7/26 | 60-09 | 172-18 | X17713 Y32985 | 30 | 2.3 | 1600.0 | 5600.0 | 1067.0 | 800.0 | 9067.0 | 8.8 |
| P24 | 7/26 | 60-09 | 173-00 | X17557 Y32986 | 33 | 1.2 | 4949.0 | 4242.0 | 909.0 | 1212.0 | 11313.0 | 10.7 |
| P24 | 7/26 | 59-59 | 172-38 | X17662 Y33104 | 37 | -0.6 | 0.0 | 95.0 | 0.0 | 190.0 | 286.0 | 66.4 |
| P24 | 7/26 | 59-50 | 172-52 | X17622 Y33203 | 45 | -1.0 | 0.0 | 0.0 | 0.0 | 115.0 | 115.0 | 100.0 |
| P26 | 7/30 | 59-59 | 173-57 | X17343 Y33089 | 53 | 0.1 | 0.0 | 76.0 | 458.0 | 840.0 | 1374.0 | 61.1 |
| P26 | 7/30 | 60-07 | 173-44 | X17386 Y33007 | 48 | -0.6 | 0.0 | 0.0 | 130.0 | 130.0 | 260.0 | 50.0 |
| P27 | 7/30 | 59-50 | 174-16 | X17269 Y33173 | 61 | 0.8 | 85.0 | 171.0 | 85.0 | 598.0 | 940.0 | 63.6 |
| P27 | 7/30 | 59-59 | 174-36 | X17176 Y33075 | 61 | 0.7 | 0.0 | 0.0 | 83.0 | 0.0 | 83.0 | 0.0 |
| P27 | 7/30 | 60-08 | 174-23 | X17223 Y32986 | 57 | 0.3 | 0.0 | 0.0 | 74.0 | 221.0 | 294.0 | 75.2 |
| Q23 | 7/26 | 60-19 | 172-04 | X17742 Y32874 | 31 | | 0.0 | 256.0 | 0.0 | 128.0 | 385.0 | 33.2 |
| Q26 | 7/29 | 60-22 | 174-16 | X17240 Y32839 | 52 | | 0.0 | 0.0 | 79.0 | 0.0 | 79.0 | 0.0 |
| Q27 | 7/30 | 60-18 | 174-37 | X17156 Y32878 | 58 | -0.3 | 0.0 | 0.0 | 84.0 | 0.0 | 84.0 | 0.0 |
| R24 | 7/27 | 60-40 | 172-46 | X17552 Y32637 | 25 | 2.1 | 0.0 | 82.0 | 410.0 | 328.0 | 820.0 | 40.0 |
| R25 | 7/29 | 60-41 | 173-28 | X17404 Y32644 | 35 | 0.4 | 0.0 | 163.0 | 81.0 | 81.0 | 325.0 | 24.9 |
| R26 | 7/29 | 60-40 | 174-07 | X17259 Y32654 | 49 | -1.4 | 0.0 | 0.0 | 0.0 | 152.0 | 152.0 | 100.0 |
| R27 | 8/06 | 60-41 | 174-46 | X17105 Y32642 | 55 | -1.2 | 0.0 | 90.0 | 90.0 | 0.0 | 180.0 | 0.0 |
| S26 | 7/29 | 60-59 | 174-10 | X17228 Y32461 | 47 | -1.5 | 0.0 | 0.0 | 0.0 | 254.0 | 254.0 | 100.0 |
| S27 | 8/06 | 61-00 | 174-53 | X17068 Y32453 | 52 | -1.5 | 0.0 | 81.0 | 81.0 | 163.0 | 325.0 | 50.2 |
| T23 | 7/27 | 61-19 | 172-11 | X17591 Y32181 | 34 | -1.3 | 81.0 | 0.0 | 0.0 | 0.0 | 81.0 | 0.0 |
| T26 | 7/29 | 61-21 | 174-19 | X17170 Y32230 | 44 | -1.5 | 0.0 | 0.0 | 0.0 | 78.0 | 78.0 | 100.0 |

NOTE: PRE-RECRUIT = 5.2-6.5 IN. WIDTH; LEGAL = 6.5 IN. OR GREATER IN WIDTH FOR AREA S. OF 58:39N
PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH FOR AREA N. OF 58:39N

TABLE 9 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| A02 | 7/02 | 55-01 | 166-56 | Y34822 Z48680 | 85 | | 63311.0 | 43394.0 | 424.0 | 0.0 | 107129.0 | 0.0 |
| A03 | 7/02 | 54-59 | 166-16 | Y34731 Z48453 | 78 | 3.7 | 17825.0 | 10476.0 | 1667.0 | 952.0 | 30920.0 | 3.1 |
| A04 | 7/01 | 54-59 | 165-44 | Y34654 Z48268 | 72 | | 19028.0 | 2569.0 | 833.0 | 139.0 | 22570.0 | 0.6 |
| A05 | 7/01 | 55-00 | 165-08 | Y34563 Z48056 | 60 | 4.3 | 26212.0 | 8842.0 | 6079.0 | 2210.0 | 43343.0 | 5.1 |
| B01 | 7/09 | 55-21 | 167-32 | Y34876 Z48931 | 80 | 3.4 | 4297.0 | 3672.0 | 625.0 | 0.0 | 8594.0 | 0.0 |
| B02 | 7/02 | 55-20 | 166-57 | Y34795 Z48735 | 78 | | 44769.0 | 56807.0 | 1345.0 | 0.0 | 102920.0 | 0.0 |
| B03 | 7/02 | 55-20 | 166-21 | Y34705 Z48522 | 72 | 3.7 | 36417.0 | 34167.0 | 2000.0 | 83.0 | 72667.0 | 0.1 |
| B04 | 7/01 | 55-19 | 165-48 | Y34621 Z48320 | 67 | | 5211.0 | 2676.0 | 282.0 | 0.0 | 8169.0 | 0.0 |
| B05 | 7/01 | 55-20 | 165-10 | Y34517 Z48090 | 60 | 4.2 | 541.0 | 811.0 | 991.0 | 180.0 | 2523.0 | 7.1 |
| B06 | 6/22 | 55-22 | 164-30 | Y34407 Z47847 | 56 | 4.0 | 138824.0 | 3679.0 | 6833.0 | 6482.0 | 155818.0 | 4.2 |
| B07 | 6/21 | 55-22 | 164-00 | Y34327 Z47654 | 40 | 4.2 | 2195.0 | 5122.0 | 122.0 | 0.0 | 7439.0 | 0.0 |
| B08 | 6/21 | 55-22 | 163-24 | Y34233 Z47429 | 30 | 4.4 | 3750.0 | 16875.0 | 4063.0 | 469.0 | 25156.0 | 1.9 |
| C01 | 7/09 | 55-36 | 167-34 | Y34858 Z48982 | 74 | 3.4 | 2326.0 | 543.0 | 388.0 | 78.0 | 3334.0 | 2.3 |
| C02 | 7/02 | 55-40 | 166-59 | Y34761 Z48789 | 75 | | 2149.0 | 3884.0 | 248.0 | 0.0 | 6281.0 | 0.0 |
| C03 | 7/02 | 55-39 | 166-22 | Y34663 Z48565 | 69 | 3.5 | 3704.0 | 2037.0 | 1111.0 | 370.0 | 7223.0 | 5.1 |
| C04 | 7/01 | 55-39 | 165-48 | Y34569 Z48350 | 65 | | 5966.0 | 756.0 | 336.0 | 0.0 | 7058.0 | 0.0 |
| C05 | 7/01 | 55-41 | 165-10 | Y34460 Z48117 | 59 | 3.4 | 1525.0 | 678.0 | 678.0 | 339.0 | 3220.0 | 10.5 |
| C06 | 6/22 | 55-40 | 164-35 | Y34363 Z47888 | 53 | 2.9 | 27868.0 | 24265.0 | 368.0 | 147.0 | 52647.0 | 0.3 |
| C07 | 6/22 | 55-41 | 164-01 | Y34266 Z47670 | 51 | 3.1 | 3008.0 | 5285.0 | 5041.0 | 813.0 | 14146.0 | 5.7 |
| C08 | 6/21 | 55-40 | 163-24 | Y34172 Z47435 | 45 | 2.9 | 13658.0 | 16690.0 | 63550.0 | 23109.0 | 117008.0 | 19.7 |
| C09 | 6/21 | 55-40 | 162-49 | Y34077 Z47206 | 27 | 4.6 | 7867.0 | 24773.0 | 4843.0 | 559.0 | 38041.0 | 1.5 |
| C18 | 7/09 | 55-41 | 168-10 | Y34939 Z49199 | 75 | | 488.0 | 163.0 | 81.0 | 81.0 | 813.0 | 10.0 |
| D01 | 7/09 | 56-00 | 167-37 | Y34820 Z49060 | 72 | 3.3 | 3629.0 | 1774.0 | 726.0 | 81.0 | 6210.0 | 1.3 |
| D02 | 7/02 | 56-01 | 167-00 | Y34712 Z48835 | 74 | | 397.0 | 1270.0 | 159.0 | 79.0 | 1905.0 | 4.1 |
| D03 | 7/02 | 55-59 | 166-23 | Y34609 Z48598 | 67 | 3.6 | 1081.0 | 1081.0 | 450.0 | 0.0 | 2613.0 | 0.0 |
| D04 | 7/01 | 55-59 | 165-48 | Y34506 Z48377 | 61 | | 0.0 | 0.0 | 204.0 | 68.0 | 272.0 | 25.0 |
| D05 | 7/01 | 55-59 | 165-06 | Y34388 Z48106 | 52 | 3.5 | 2764.0 | 488.0 | 407.0 | 407.0 | 4065.0 | 10.0 |
| D06 | 6/22 | 56-01 | 164-35 | Y34291 Z47903 | 51 | 1.6 | 7667.0 | 5014.0 | 1087.0 | 145.0 | 13913.0 | 1.0 |
| D07 | 6/22 | 55-59 | 164-02 | Y34203 Z47690 | 49 | 1.6 | 14160.0 | 2880.0 | 1440.0 | 640.0 | 19120.0 | 3.3 |
| D08 | 6/21 | 56-02 | 163-23 | Y34085 Z47434 | 49 | 1.9 | 35109.0 | 3782.0 | 2437.0 | 1765.0 | 43092.0 | 4.1 |
| D09 | 6/21 | 56-01 | 162-47 | Y33994 Z47198 | 42 | 2.7 | 1387.0 | 876.0 | 803.0 | 876.0 | 3942.0 | 22.2 |
| D10 | 6/15 | 56-03 | 162-12 | Y33891 Z46967 | 42 | 3.3 | 1463.0 | 813.0 | 650.0 | 163.0 | 3089.0 | 5.3 |
| D18 | 7/09 | 56-00 | 168-12 | Y34917 Z49267 | 83 | | 88.0 | 88.0 | 0.0 | 0.0 | 176.0 | 0.0 |
| E01 | 7/09 | 56-20 | 167-38 | Y34770 Z49105 | 71 | 3.3 | 1271.0 | 2712.0 | 763.0 | 254.0 | 5000.0 | 5.1 |
| E02 | 7/02 | 56-19 | 167-01 | Y34660 Z48868 | 63 | | 948.0 | 431.0 | 603.0 | 172.0 | 2155.0 | 8.0 |
| E03 | 7/02 | 56-19 | 166-24 | Y34546 Z48631 | 56 | 3.3 | 769.0 | 0.0 | 598.0 | 0.0 | 1367.0 | 0.0 |

NOTE: PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH

TABLE 9 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| E04 | 6/30 | 56-19 | 165-48 | Y34432 Z48391 | 51 | | 400.0 | 67.0 | 667.0 | 200.0 | 1333.0 | 15.0 |
| E05 | 6/30 | 56-20 | 165-13 | Y34321 Z48161 | 46 | 2.1 | 4298.0 | 1322.0 | 579.0 | 165.0 | 6364.0 | 2.6 |
| E06 | 6/22 | 56-20 | 164-34 | Y34209 Z47905 | 48 | | 5781.0 | 3438.0 | 2734.0 | 859.0 | 12812.0 | 6.7 |
| E07 | 6/22 | 56-19 | 164-02 | Y34121 Z47695 | 46 | 1.3 | 31851.0 | 985.0 | 3030.0 | 3485.0 | 39351.0 | 8.9 |
| E08 | 6/21 | 56-22 | 163-23 | Y33999 Z47435 | 47 | | 32894.0 | 1441.0 | 2373.0 | 1186.0 | 37894.0 | 3.1 |
| E09 | 6/21 | 56-18 | 162-48 | Y33920 Z47201 | 43 | 2.3 | 1538.0 | 769.0 | 615.0 | 462.0 | 3384.0 | 13.7 |
| E10 | 6/15 | 56-22 | 162-11 | Y33806 Z46957 | 48 | | 1322.0 | 1240.0 | 1157.0 | 661.0 | 4380.0 | 15.1 |
| E11 | 6/14 | 56-19 | 161-40 | Y33739 Z46749 | 34 | 3.8 | 807.0 | 1677.0 | 2422.0 | 1118.0 | 6024.0 | 18.6 |
| E12 | 6/12 | 56-16 | 160-49 | Y33626 Z46409 | 18 | 5.0 | 0.0 | 397.0 | 265.0 | 132.0 | 795.0 | 16.6 |
| E18 | 7/09 | 56-20 | 168-15 | Y34885 Z49338 | 86 | | 2033.0 | 2846.0 | 3089.0 | 407.0 | 8374.0 | 4.9 |
| E19 | 7/10 | 56-21 | 168-52 | Y34987 Z49556 | 70 | | 14088.0 | 8772.0 | 1404.0 | 88.0 | 24351.0 | 0.4 |
| E20 | 7/10 | 56-23 | 169-32 | Y35078 Z49773 | 71 | | 0.0 | 1404.0 | 0.0 | 175.0 | 1579.0 | 11.1 |
| E21 | 7/22 | 56-25 | 170-12 | Y35132 Z49952 | 62 | 5.5 | 7374.0 | 11212.0 | 1010.0 | 101.0 | 19697.0 | 0.5 |
| E22 | 7/23 | 56-21 | 170-42 | X18269 Z50020 | 66 | 3.6 | 11484.0 | 7344.0 | 2500.0 | 1016.0 | 22343.0 | 4.5 |
| F01 | 7/08 | 56-41 | 167-42 | Y34711 Z49157 | 55 | 2.9 | 96.0 | 192.0 | 192.0 | 192.0 | 673.0 | 28.5 |
| F02 | 7/03 | 56-41 | 167-03 | Y34580 Z48901 | 53 | | 410.0 | 1803.0 | 902.0 | 164.0 | 3279.0 | 5.0 |
| F03 | 7/03 | 56-39 | 166-27 | Y34473 Z48663 | 45 | 2.0 | 12427.0 | 656.0 | 1557.0 | 164.0 | 14804.0 | 1.1 |
| F04 | 6/30 | 56-39 | 165-51 | Y34355 Z48420 | 44 | | 9375.0 | 694.0 | 1042.0 | 139.0 | 11250.0 | 1.2 |
| F05 | 6/30 | 56-40 | 165-13 | Y34233 Z48167 | 40 | 1.7 | 1322.0 | 2397.0 | 1322.0 | 0.0 | 5041.0 | 0.0 |
| F05 | 6/23 | 56-31 | 165-02 | Y34243 Z48096 | 43 | 1.7 | 9606.0 | 7244.0 | 1654.0 | 394.0 | 18897.0 | 2.1 |
| F06 | 6/23 | 56-40 | 164-34 | Y34115 Z47910 | 40 | 2.0 | 308.0 | 538.0 | 1462.0 | 231.0 | 2539.0 | 9.1 |
| F07 | 6/22 | 56-40 | 164-03 | Y34027 Z47699 | 40 | 2.2 | 3254.0 | 397.0 | 2143.0 | 1746.0 | 7540.0 | 23.2 |
| F07 | 6/23 | 56-49 | 164-15 | Y34014 Z47778 | 39 | 2.3 | 945.0 | 1024.0 | 1496.0 | 1339.0 | 4803.0 | 27.9 |
| F07 | 6/22 | 56-47 | 163-56 | Y33973 Z47655 | 39 | 2.1 | 323.0 | 484.0 | 242.0 | 645.0 | 1694.0 | 38.1 |
| F07 | 6/23 | 56-30 | 164-15 | Y34108 Z47779 | 44 | 1.6 | 20325.0 | 1220.0 | 5122.0 | 3496.0 | 30162.0 | 11.6 |
| F08 | 6/20 | 56-43 | 163-21 | Y33893 Z47420 | 41 | | 609.0 | 1565.0 | 1913.0 | 696.0 | 4783.0 | 14.6 |
| F09 | 6/20 | 56-41 | 162-47 | Y33811 Z47192 | 38 | 3.2 | 157.0 | 1024.0 | 1417.0 | 551.0 | 3149.0 | 17.5 |
| F10 | 6/15 | 56-41 | 162-10 | Y33710 Z46943 | 39 | 3.0 | 2149.0 | 3223.0 | 579.0 | 496.0 | 6447.0 | 7.7 |
| F11 | 6/14 | 56-39 | 161-34 | Y33632 Z46706 | 50 | 2.9 | 22876.0 | 513.0 | 940.0 | 1795.0 | 26124.0 | 6.9 |
| F12 | 6/12 | 56-43 | 160-59 | Y33525 Z46468 | 38 | 3.5 | 5391.0 | 3217.0 | 870.0 | 957.0 | 10434.0 | 9.2 |
| F13 | 6/11 | 56-40 | 160-25 | Y33454 Z46241 | 34 | 3.4 | 1972.0 | 4366.0 | 1197.0 | 282.0 | 7817.0 | 3.6 |
| F14 | 6/08 | 56-42 | 159-44 | Y33354 Z45967 | 19 | 4.1 | 72.0 | 144.0 | 72.0 | 0.0 | 288.0 | 0.0 |
| F18 | 7/09 | 56-39 | 168-18 | Y34835 Z49388 | 59 | | 165.0 | 83.0 | 661.0 | 165.0 | 1074.0 | 15.4 |
| F19 | 7/10 | 56-39 | 168-53 | Y34952 Z49614 | 56 | | 4262.0 | 1148.0 | 2459.0 | 1803.0 | 9672.0 | 18.6 |
| F21 | 7/23 | 56-40 | 170-08 | X18544 Z50011 | 52 | 3.3 | 32787.0 | 6048.0 | 4032.0 | 1855.0 | 44722.0 | 4.1 |

NOTE: PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH

TABLE 9 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| F22 | 7/23 | 56-40 | 170-42 | X18407 Z50104 | 62 | 3.6 | 6029.0 | 1618.0 | 1029.0 | 441.0 | 9117.0 | 4.8 |
| F23 | 7/23 | 56-39 | 171-19 | X18200 Z50144 | 65 | 3.5 | 1707.0 | 976.0 | 244.0 | 81.0 | 3008.0 | 2.7 |
| F24 | 7/23 | 56-45 | 171-56 | X18007 Z50171 | 67 | 3.5 | 3259.0 | 2301.0 | 383.0 | 288.0 | 6231.0 | 4.6 |
| F25 | 8/01 | 56-39 | 172-34 | X17739 Y34914 | 74 | | 172.0 | 517.0 | 0.0 | 0.0 | 689.0 | 0.0 |
| G01 | 7/08 | 57-00 | 167-41 | Y34615 Z49159 | 41 | 2.5 | 1273.0 | 1455.0 | 273.0 | 91.0 | 3091.0 | 2.9 |
| G02 | 7/03 | 57-01 | 167-04 | Y34486 Z48911 | 41 | | 2520.0 | 2439.0 | 813.0 | 0.0 | 5772.0 | 0.0 |
| G03 | 7/03 | 56-59 | 166-28 | Y34375 Z48669 | 39 | 2.7 | 1120.0 | 1680.0 | 1040.0 | 80.0 | 3920.0 | 2.0 |
| G04 | 6/30 | 56-59 | 165-51 | Y34251 Z48417 | 40 | | 2500.0 | 2361.0 | 69.0 | 69.0 | 5000.0 | 1.4 |
| G05 | 6/30 | 57-00 | 165-13 | Y34125 Z48162 | 38 | 2.1 | 2126.0 | 1417.0 | 630.0 | 315.0 | 4488.0 | 7.0 |
| G05 | 6/23 | 56-50 | 164-55 | Y34129 Z48050 | 39 | 2.0 | 310.0 | 1318.0 | 1783.0 | 310.0 | 3721.0 | 8.3 |
| G06 | 6/23 | 56-50 | 164-36 | Y34072 Z47919 | 39 | 2.4 | 763.0 | 1017.0 | 1949.0 | 85.0 | 3814.0 | 2.2 |
| G06 | 6/24 | 57-04 | 164-45 | Y34023 Z47977 | 37 | 2.5 | 6457.0 | 7437.0 | 11832.0 | 6592.0 | 32318.0 | 20.4 |
| G07 | 6/24 | 57-00 | 164-03 | Y33917 Z47693 | 36 | 2.6 | 323.0 | 161.0 | 726.0 | 161.0 | 1371.0 | 11.7 |
| G08 | 6/20 | 57-01 | 163-21 | Y33794 Z47410 | 36 | 2.8 | 379.0 | 530.0 | 303.0 | 682.0 | 1894.0 | 36.0 |
| G09 | 6/20 | 57-01 | 162-48 | Y33708 Z47193 | 32 | 2.3 | 3030.0 | 1288.0 | 1591.0 | 2197.0 | 8106.0 | 27.1 |
| G10 | 6/15 | 57-02 | 162-10 | Y33597 Z46934 | 32 | 3.0 | 13969.0 | 5267.0 | 1145.0 | 687.0 | 21068.0 | 3.3 |
| G11 | 6/14 | 56-59 | 161-33 | Y33524 Z46691 | 38 | 3.0 | 0.0 | 413.0 | 248.0 | 579.0 | 1240.0 | 46.7 |
| G12 | 6/12 | 57-01 | 160-56 | Y33425 Z46443 | 33 | 3.0 | 1176.0 | 252.0 | 840.0 | 420.0 | 2689.0 | 15.6 |
| G13 | 6/11 | 57-01 | 160-20 | Y33338 Z46198 | 36 | 3.4 | 511.0 | 438.0 | 1387.0 | 3869.0 | 6204.0 | 62.4 |
| G14 | 6/09 | 56-59 | 159-44 | Y33268 Z45960 | 32 | 3.6 | 196.0 | 327.0 | 719.0 | 131.0 | 1372.0 | 9.5 |
| G18 | 7/08 | 56-58 | 168-20 | Y34761 Z49416 | 46 | | 583.0 | 667.0 | 417.0 | 0.0 | 1666.0 | 0.0 |
| G19 | 7/12 | 57-10 | 168-38 | Y34762 Z49535 | 43 | | 1610.0 | 1949.0 | 339.0 | 85.0 | 3983.0 | 2.1 |
| G19 | 7/11 | 56-51 | 168-38 | Y34861 Z49532 | 53 | | 0.0 | 1681.0 | 1345.0 | 0.0 | 3025.0 | 0.0 |
| G19 | 7/11 | 57-00 | 168-56 | Y34887 Z49658 | 44 | | 252.0 | 252.0 | 84.0 | 0.0 | 588.0 | 0.0 |
| G20 | 7/11 | 57-08 | 169-21 | Y34931 Z49819 | 40 | | 4828.0 | 1207.0 | 1552.0 | 517.0 | 8104.0 | 6.4 |
| G20 | 7/11 | 57-00 | 169-32 | Y35015 Z49894 | 35 | | 2004.0 | 1503.0 | 3506.0 | 0.0 | 7013.0 | 0.0 |
| G20 | 7/10 | 56-50 | 169-17 | Y34997 Z49779 | 44 | | 1654.0 | 472.0 | 1417.0 | 551.0 | 4095.0 | 13.5 |
| G21 | 7/11 | 56-51 | 169-53 | Y35103 Z49993 | 40 | | 34526.0 | 4602.0 | 10226.0 | 6903.0 | 56256.0 | 12.3 |
| G21 | 7/21 | 57-01 | 170-10 | Y35132 Z50121 | 36 | 5.3 | 8172.0 | 18833.0 | 27578.0 | 5045.0 | 59628.0 | 8.5 |
| G21 | 7/21 | 57-08 | 169-57 | Y35077 Z50065 | 25 | 5.9 | 361.0 | 2048.0 | 361.0 | 0.0 | 2771.0 | 0.0 |
| G22 | 7/21 | 57-02 | 170-45 | X18531 Y35087 | 48 | 3.6 | 4000.0 | 3600.0 | 800.0 | 667.0 | 9067.0 | 7.4 |
| G22 | 7/22 | 57-06 | 170-27 | X18660 Y35118 | 25 | 5.4 | 789.0 | 1579.0 | 1711.0 | 1184.0 | 5263.0 | 22.5 |
| G22 | 7/23 | 56-50 | 170-26 | X18563 Z50118 | 55 | 3.5 | 5932.0 | 8644.0 | 85.0 | 763.0 | 15424.0 | 4.9 |
| G23 | 7/24 | 56-59 | 171-24 | X18268 Y35000 | 60 | 3.1 | 873.0 | 317.0 | 397.0 | 159.0 | 1746.0 | 9.1 |
| G24 | 7/24 | 57-02 | 172-03 | X18022 Y34888 | 65 | 3.3 | 2222.0 | 1197.0 | 342.0 | 171.0 | 3931.0 | 4.4 |
| G25 | 8/01 | 57-00 | 172-39 | X17785 Y34809 | 67 | 3.1 | 7025.0 | 10331.0 | 331.0 | 496.0 | 18182.0 | 2.7 |
| G26 | 8/01 | 57-02 | 173-10 | X17587 Y34726 | 75 | 3.4 | 5100.0 | 3200.0 | 0.0 | 0.0 | 8300.0 | 0.0 |

NOTE:PRE-RECRUIT = 4.3-5.5 IN. WIDTH;LEGAL = 5.5 IN. OR GREATER IN WIDTH

TABLE 9 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| H01 | 7/08 | 57-20 | 167-45 | Y34502 Z49162 | 39 | | 1322.0 | 1488.0 | 248.0 | 165.0 | 3223.0 | 5.1 |
| H02 | 7/03 | 57-19 | 167-07 | Y34381 Z48911 | 39 | | 2500.0 | 4091.0 | 1136.0 | 833.0 | 8561.0 | 9.7 |
| H03 | 7/03 | 57-20 | 166-29 | Y34250 Z48658 | 37 | 2.8 | 3534.0 | 6638.0 | 517.0 | 0.0 | 10689.0 | 0.0 |
| H04 | 6/30 | 57-20 | 165-52 | Y34131 Z48410 | 38 | | 1578.0 | 19942.0 | 1578.0 | 0.0 | 23098.0 | 0.0 |
| H05 | 6/30 | 57-21 | 165-13 | Y34006 Z48153 | 35 | 2.4 | 2033.0 | 29894.0 | 2457.0 | 410.0 | 34794.0 | 1.2 |
| H06 | 6/25 | 57-20 | 164-35 | Y33898 Z47900 | 35 | 1.9 | 3008.0 | 13659.0 | 2195.0 | 894.0 | 19756.0 | 4.5 |
| H07 | 6/24 | 57-19 | 164-01 | Y33805 Z47673 | 34 | 2.0 | 1290.0 | 8952.0 | 3952.0 | 1935.0 | 16129.0 | 12.0 |
| H08 | 6/20 | 57-21 | 163-20 | Y33672 Z47393 | 29 | 2.7 | 254.0 | 1695.0 | 1780.0 | 593.0 | 4322.0 | 13.7 |
| H09 | 6/20 | 57-21 | 162-45 | Y33584 Z47165 | 25 | 4.0 | 10000.0 | 15873.0 | 3254.0 | 1746.0 | 30873.0 | 5.7 |
| H10 | 6/15 | 57-22 | 162-09 | Y33483 Z46922 | 28 | 3.8 | 2602.0 | 5772.0 | 1545.0 | 488.0 | 10407.0 | 4.7 |
| H11 | 6/14 | 57-16 | 161-32 | Y33424 Z46675 | 31 | 3.6 | 1439.0 | 1515.0 | 3182.0 | 4848.0 | 10984.0 | 44.1 |
| H12 | 6/12 | 57-21 | 160-56 | Y33310 Z46433 | 32 | 3.3 | 424.0 | 85.0 | 847.0 | 1780.0 | 3136.0 | 56.8 |
| H13 | 6/11 | 57-22 | 160-12 | Y33201 Z46136 | 32 | 3.5 | 259.0 | 0.0 | 603.0 | 1121.0 | 1983.0 | 56.5 |
| H14 | 6/09 | 57-19 | 159-39 | Y33148 Z45920 | 31 | 3.5 | 234.0 | 391.0 | 234.0 | 781.0 | 1640.0 | 47.6 |
| H15 | 6/07 | 57-20 | 159-02 | X18724 Z45673 | 27 | | 152.0 | 379.0 | 303.0 | 0.0 | 834.0 | 0.0 |
| H16 | 6/07 | 57-20 | 158-24 | Y32988 Z45420 | 18 | 4.6 | 0.0 | 0.0 | 89.0 | 89.0 | 179.0 | 49.7 |
| H18 | 7/08 | 57-19 | 168-22 | Y34640 Z49410 | 41 | | 4474.0 | 4737.0 | 0.0 | 0.0 | 9211.0 | 0.0 |
| H19 | 7/12 | 57-20 | 169-00 | Y34770 Z49659 | 40 | | 820.0 | 1066.0 | 984.0 | 82.0 | 2951.0 | 2.8 |
| H19 | 7/12 | 57-29 | 168-45 | Y34650 Z49542 | 38 | 2.9 | 1463.0 | 976.0 | 81.0 | 0.0 | 2520.0 | 0.0 |
| H20 | 7/12 | 57-19 | 169-35 | Y34903 Z49890 | 35 | | 21906.0 | 2734.0 | 2031.0 | 391.0 | 27062.0 | 1.4 |
| H21 | 7/21 | 57-19 | 170-11 | X18715 Y35008 | 27 | 5.4 | 0.0 | 0.0 | 526.0 | 132.0 | 658.0 | 20.1 |
| H22 | 7/21 | 57-19 | 170-50 | X18523 Y34964 | 44 | 3.7 | 8594.0 | 1016.0 | 3047.0 | 3984.0 | 16641.0 | 23.9 |
| H23 | 7/24 | 57-19 | 171-24 | X18306 Y35882 | 54 | 3.1 | 394.0 | 315.0 | 315.0 | 79.0 | 1103.0 | 7.2 |
| H24 | 7/24 | 57-21 | 172-05 | X18049 Y34766 | 61 | 2.8 | 0.0 | 2016.0 | 403.0 | 81.0 | 2500.0 | 3.2 |
| H25 | 8/01 | 57-21 | 172-48 | X17773 Y34667 | 63 | 3.0 | 1563.0 | 3125.0 | 0.0 | 234.0 | 4922.0 | 4.8 |
| H26 | 8/01 | 57-23 | 173-18 | X17589 Y34580 | 67 | 3.3 | 48136.0 | 15763.0 | 339.0 | 339.0 | 64577.0 | 0.5 |
| I01 | 7/08 | 57-40 | 167-47 | Y34356 Z49137 | 36 | 3.4 | 3263.0 | 5199.0 | 560.0 | 240.0 | 9262.0 | 2.6 |
| I02 | 7/03 | 57-41 | 167-07 | Y34220 Z48875 | 38 | | 1200.0 | 6175.0 | 2000.0 | 400.0 | 9775.0 | 4.1 |
| I03 | 7/03 | 57-39 | 166-30 | Y34117 Z48636 | 35 | 2.1 | 800.0 | 5520.0 | 640.0 | 0.0 | 6960.0 | 0.0 |
| I04 | 6/30 | 57-39 | 165-53 | Y34005 Z48394 | 36 | | 290.0 | 2464.0 | 1739.0 | 217.0 | 4710.0 | 4.6 |
| I05 | 6/30 | 57-40 | 165-14 | Y33874 Z48133 | 32 | 1.9 | 11016.0 | 6016.0 | 234.0 | 0.0 | 17266.0 | 0.0 |
| I06 | 6/25 | 57-39 | 164-38 | Y33777 Z47897 | 29 | 2.4 | 5859.0 | 10000.0 | 1797.0 | 469.0 | 18125.0 | 2.6 |
| I07 | 6/25 | 57-40 | 164-00 | Y33664 Z47645 | 27 | 3.4 | 4690.0 | 10442.0 | 973.0 | 354.0 | 16460.0 | 2.2 |
| I08 | 6/20 | 57-40 | 163-19 | Y33548 Z47373 | 26 | 3.5 | 147.0 | 515.0 | 0.0 | 0.0 | 662.0 | 0.0 |
| I09 | 6/20 | 57-40 | 162-41 | Y33455 Z47125 | 23 | | 328.0 | 656.0 | 246.0 | 0.0 | 1230.0 | 0.0 |
| I10 | 6/19 | 57-42 | 162-11 | Y33365 Z46925 | 25 | 4.1 | 1528.0 | 2153.0 | 139.0 | 0.0 | 3820.0 | 0.0 |
| I11 | 6/14 | 57-41 | 161-24 | Y33257 Z46613 | 28 | 3.7 | 2031.0 | 2344.0 | 313.0 | 156.0 | 4844.0 | 3.2 |
| I12 | 6/13 | 57-40 | 160-53 | Y33190 Z46410 | 31 | 3.2 | 4797.0 | 4634.0 | 1789.0 | 1870.0 | 13090.0 | 14.3 |

NOTE: PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH

TABLE 9 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| I13 | 6/10 | 57-38 | 160-16 | Y33120 Z46159 | 29 | 3.2 | 408.0 | 340.0 | 204.0 | 136.0 | 1088.0 | 12.5 |
| I14 | 6/09 | 57-39 | 159-38 | Y33033 Z45908 | 27 | 3.4 | 403.0 | 726.0 | 161.0 | 81.0 | 1371.0 | 5.9 |
| I15 | 6/08 | 57-41 | 159-01 | Y32944 Z45662 | 26 | 3.7 | 275.0 | 734.0 | 183.0 | 92.0 | 1284.0 | 7.2 |
| I18 | 7/08 | 57-39 | 168-24 | Y34486 Z49374 | 39 | | 0.0 | 263.0 | 526.0 | 263.0 | 1053.0 | 25.0 |
| I19 | 7/13 | 57-49 | 168-45 | Y34460 Z49466 | 38 | 2.7 | 1905.0 | 2858.0 | 0.0 | 0.0 | 4763.0 | 0.0 |
| I19 | 7/13 | 57-38 | 169-01 | Y34616 Z49608 | 37 | 2.7 | 1301.0 | 1951.0 | 81.0 | 0.0 | 3334.0 | 0.0 |
| I20 | 7/12 | 57-30 | 169-19 | Y34753 Z49751 | 37 | 2.5 | 488.0 | 813.0 | 488.0 | 569.0 | 2358.0 | 24.1 |
| I20 | 7/13 | 57-41 | 169-38 | Y34685 Z49796 | 39 | | 353.0 | 1766.0 | 3533.0 | 707.0 | 6358.0 | 11.1 |
| I21 | 7/20 | 57-31 | 169-58 | X18698 Y34847 | 37 | 2.7 | 827.0 | 1378.0 | 12953.0 | 6339.0 | 21497.0 | 29.5 |
| I21 | 7/20 | 57-49 | 170-00 | X18625 Y34634 | 39 | 1.6 | 357.0 | 1905.0 | 2024.0 | 1548.0 | 5833.0 | 26.5 |
| I21 | 7/20 | 57-39 | 170-14 | X18625 Y34771 | 39 | 2.1 | 1000.0 | 4014.0 | 16246.0 | 6880.0 | 28140.0 | 24.4 |
| I22 | 7/20 | 57-30 | 170-35 | X18576 Y34869 | 40 | 3.0 | 0.0 | 519.0 | 519.0 | 519.0 | 1558.0 | 33.3 |
| I22 | 7/20 | 57-40 | 170-54 | X18453 Y34736 | 46 | 3.0 | 494.0 | 1358.0 | 1111.0 | 123.0 | 3087.0 | 4.0 |
| I23 | 7/24 | 57-39 | 171-28 | X18274 Y34697 | 53 | 2.8 | 488.0 | 1138.0 | 488.0 | 325.0 | 2439.0 | 13.3 |
| I24 | 7/24 | 57-44 | 172-09 | X18033 Y34573 | 60 | 2.7 | 0.0 | 1301.0 | 163.0 | 81.0 | 1545.0 | 5.2 |
| I25 | 8/01 | 57-39 | 172-47 | X17800 Y34532 | 65 | | 1681.0 | 21009.0 | 0.0 | 0.0 | 22690.0 | 0.0 |
| I26 | 8/01 | 57-41 | 173-24 | X17575 Y34439 | 82 | 3.3 | 12332.0 | 25559.0 | 0.0 | 0.0 | 37891.0 | 0.0 |
| J01 | 7/08 | 58-00 | 167-48 | Y34184 Z49081 | 36 | [illegible] 4 | 649.0 | 2596.0 | 433.0 | 216.0 | 3894.0 | 5.5 |
| J02 | 7/03 | 58-00 | 167-10 | Y34074 Z48848 | 36 | | 638.0 | 1276.0 | 1276.0 | 638.0 | 3827.0 | 16.7 |
| J03 | 7/03 | 57-59 | 166-31 | Y33959 Z48601 | 32 | 2.2 | 259.0 | 1466.0 | 603.0 | 259.0 | 2587.0 | 10.0 |
| J04 | 6/29 | 57-59 | 165-54 | Y33848 Z48365 | 31 | | 267.0 | 933.0 | 267.0 | 0.0 | 1467.0 | 0.0 |
| J05 | 6/29 | 58-01 | 165-17 | Y33728 Z48123 | 26 | 3.5 | 167.0 | 333.0 | 0.0 | 0.0 | 500.0 | 0.0 |
| J06 | 6/25 | 58-00 | 164-35 | Y33614 Z47851 | 23 | 3.8 | 0.0 | 83.0 | 83.0 | 0.0 | 167.0 | 0.0 |
| J07 | 6/25 | 57-59 | 164-01 | Y33531 Z47632 | 24 | 4.0 | 0.0 | 231.0 | 77.0 | 0.0 | 308.0 | 0.0 |
| J08 | 6/19 | 57-56 | 163-13 | Y33426 Z47326 | 23 | 3.6 | 0.0 | 72.0 | 0.0 | 0.0 | 72.0 | 0.0 |
| J09 | 6/19 | 57-58 | 162-46 | Y33346 Z47143 | 23 | 3.7 | 0.0 | 86.0 | 0.0 | 0.0 | 86.0 | 0.0 |
| J11 | 6/13 | 58-00 | 161-29 | Y33148 Z46638 | 30 | 3.4 | 0.0 | 81.0 | 0.0 | 0.0 | 81.0 | 0.0 |
| J12 | 6/13 | 57-59 | 160-51 | Y33070 Z46392 | 25 | 3.5 | 77.0 | 231.0 | 0.0 | 77.0 | 385.0 | 20.0 |
| J13 | 6/10 | 57-58 | 160-13 | Y32991 Z46138 | 27 | 3.4 | 0.0 | 0.0 | 77.0 | 0.0 | 77.0 | 0.0 |
| J18 | 7/08 | 57-58 | 168-26 | Y34314 Z49315 | 38 | | 1745.0 | 2908.0 | 0.0 | 0.0 | 4653.0 | 0.0 |
| J19 | 7/13 | 57-59 | 169-03 | Y34400 Z49516 | 37 | 2.0 | 2716.0 | 3457.0 | 123.0 | 0.0 | 6296.0 | 0.0 |
| J20 | 7/13 | 58-00 | 169-42 | Y34472 Z49702 | 39 | | 3322.0 | 3691.0 | 1107.0 | 0.0 | 8120.0 | 0.0 |
| J20 | 7/13 | 57-50 | 169-20 | Y34539 Z49654 | 37 | | 4732.0 | 5069.0 | 676.0 | 0.0 | 10477.0 | 0.0 |
| J21 | 7/19 | 58-01 | 170-19 | X18523 Y34503 | 40 | 0.8 | 0.0 | 0.0 | 694.0 | 694.0 | 1388.0 | 50.0 |
| J22 | 7/20 | 57-58 | 170-54 | X18399 Y34526 | 46 | 2.0 | 0.0 | 123.0 | 123.0 | 123.0 | 370.0 | 33.2 |

NOTE: PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH

TABLE 9 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| J22 | 7/19 | 57-50 | 170-35 | X18507 Y34633 | 42 | 1.7 | 161.0 | 161.0 | 161.0 | 161.0 | 645.0 | 25.0 |
| J23 | 7/24 | 57-59 | 171-34 | X18205 Y34484 | 53 | 2.2 | 2149.0 | 1405.0 | 248.0 | 0.0 | 3802.0 | 0.0 |
| J24 | 7/24 | 58-04 | 172-14 | X17985 Y34373 | 58 | 1.7 | 0.0 | 1328.0 | 391.0 | 0.0 | 1719.0 | 0.0 |
| J25 | 7/31 | 58-00 | 172-52 | X17773 Y34343 | 59 | 2.5 | 248.0 | 1405.0 | 165.0 | 0.0 | 1818.0 | 0.0 |
| J26 | 7/31 | 58-00 | 173-29 | X17555 Y34277 | 66 | 2.9 | 2018.0 | 263.0 | 0.0 | 0.0 | 2281.0 | 0.0 |
| K01 | 7/07 | 58-19 | 167-51 | Y34000 Z49021 | 32 | 1.6 | 0.0 | 894.0 | 488.0 | 163.0 | 1545.0 | 10.6 |
| K02 | 7/04 | 58-21 | 167-11 | Y33880 Z48785 | 28 | | 0.0 | 0.0 | 238.0 | 0.0 | 238.0 | 0.0 |
| K03 | 7/04 | 58-19 | 166-32 | Y33787 Z48552 | 24 | 3.7 | 0.0 | 165.0 | 0.0 | 0.0 | 165.0 | 0.0 |
| K04 | 6/29 | 58-19 | 165-55 | Y33684 Z48323 | 24 | | 0.0 | 0.0 | 78.0 | 0.0 | 78.0 | 0.0 |
| K10 | 6/19 | 58-18 | 162-03 | Y33098 Z46849 | 26 | 4.7 | 0.0 | 83.0 | 0.0 | 0.0 | 83.0 | 0.0 |
| K12 | 6/13 | 58-14 | 160-47 | Y32958 Z46361 | 18 | 4.1 | 92.0 | 0.0 | 0.0 | 0.0 | 92.0 | 0.0 |
| K19 | 7/13 | 58-19 | 169-06 | Y34182 Z49423 | 36 | 1.5 | 241.0 | 120.0 | 0.0 | 0.0 | 361.0 | 0.0 |
| K20 | 7/13 | 58-21 | 169-44 | Y34221 Z49578 | 39 | | 1334.0 | 1867.0 | 267.0 | 0.0 | 3468.0 | 0.0 |
| K23 | 7/24 | 58-19 | 171-39 | X18133 Y34255 | 52 | 1.1 | 2063.0 | 635.0 | 79.0 | 0.0 | 2777.0 | 0.0 |
| K24 | 7/24 | 58-23 | 172-17 | X17940 Y34178 | 57 | 1.5 | 0.0 | 806.0 | 403.0 | 0.0 | 1210.0 | 0.0 |
| K25 | 7/31 | 58-20 | 172-56 | X17741 Y34150 | 59 | 1.7 | 2034.0 | 1949.0 | 254.0 | 0.0 | 4237.0 | 0.0 |
| K26 | 7/31 | 58-17 | 173-33 | X17536 Y34122 | 64 | 2.5 | 8352.0 | 1978.0 | 330.0 | 0.0 | 10660.0 | 0.0 |
| K27 | 8/05 | 58-23 | 174-19 | X17280 Y34000 | 110 | | 2750.0 | 4333.0 | 0.0 | 0.0 | 7083.0 | 0.0 |
| L03 | 7/04 | 58-39 | 166-38 | Y33615 Z48526 | 21 | 4.0 | 0.0 | 76.0 | 0.0 | 0.0 | 76.0 | 0.0 |
| L20 | 7/13 | 58-41 | 169-48 | Y33984 Z49470 | 38 | | 0.0 | 706.0 | 353.0 | 0.0 | 1059.0 | 0.0 |
| L23 | 7/25 | 58-39 | 171-42 | X18068 Y34024 | 50 | 1.0 | 164.0 | 0.0 | 0.0 | 164.0 | 328.0 | 50.0 |
| L24 | 7/25 | 58-40 | 172-22 | X17886 Y33992 | 57 | 1.4 | 0.0 | 1391.0 | 348.0 | 87.0 | 1826.0 | 4.8 |
| L25 | 7/31 | 58-40 | 173-01 | X17691 Y33942 | 61 | 1.7 | 1948.0 | 1169.0 | 519.0 | 0.0 | 3636.0 | 0.0 |
| L26 | 7/31 | 58-36 | 173-38 | X17506 Y33942 | 70 | 2.3 | 8793.0 | 20647.0 | 431.0 | 0.0 | 29871.0 | 0.0 |
| L27 | 8/05 | 58-40 | 174-23 | X17262 Y33847 | 93 | 3.1 | 4148.0 | 5037.0 | 0.0 | 0.0 | 9185.0 | 0.0 |
| L28 | 8/05 | 58-44 | 174-49 | X17126 Y33776 | 95 | 2.8 | 763.0 | 508.0 | 0.0 | 0.0 | 1271.0 | 0.0 |
| L29 | 8/06 | 58-40 | 175-34 | X16875 Y33746 | 73 | | 118.0 | 471.0 | 0.0 | 0.0 | 589.0 | 0.0 |
| L30 | 8/12 | 58-41 | 176-11 | X16679 Y33686 | 75 | 2.6 | 952.0 | 397.0 | 0.0 | 0.0 | 1349.0 | 0.0 |
| L31 | 8/12 | 58-41 | 176-49 | X16470 Y33638 | 73 | 2.0 | 3333.0 | 2262.0 | 0.0 | 0.0 | 5595.0 | 0.0 |
| M20 | 7/14 | 59-00 | 169-49 | Y33744 Z49357 | 35 | | 736.0 | 1473.0 | 0.0 | 0.0 | 2209.0 | 0.0 |
| M21 | 7/18 | 59-00 | 170-30 | X18272 Y33778 | 39 | -0.7 | 0.0 | 477.0 | 0.0 | 0.0 | 477.0 | 0.0 |
| M23 | 7/25 | 58-59 | 171-47 | X18000 Y33800 | 47 | 0.3 | 0.0 | 81.0 | 0.0 | 0.0 | 81.0 | 0.0 |
| M24 | 7/25 | 58-59 | 172-25 | X17834 Y33774 | 55 | 1.1 | 0.0 | 0.0 | 85.0 | 0.0 | 85.0 | 0.0 |
| M25 | 7/31 | 59-00 | 173-05 | X17649 Y33737 | 58 | 1.4 | 84.0 | 1933.0 | 672.0 | 0.0 | 2689.0 | 0.0 |
| M26 | 7/31 | 59-01 | 173-43 | X17462 Y33697 | 66 | 1.8 | 26508.0 | 11123.0 | 7663.0 | 247.0 | 45541.0 | 0.5 |

NOTE: PRE-RECRUIT = 4.3-5.5 IN. WIDTH; LEGAL = 5.5 IN. OR GREATER IN WIDTH

TABLE 9 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LEGAL | TOTAL | PERCENT LEGAL |
| M27 | 8/05 | 59-02 | 174-22 | X17266 Y33642 | 71 | 2.0 | 7869.0 | 10179.0 | 574.0 | 0.0 | 18622.0 | 0.0 |
| M28 | 8/05 | 58-59 | 174-45 | X17148 Y33643 | 72 | 2.2 | 1597.0 | 588.0 | 0.0 | 0.0 | 2185.0 | 0.0 |
| M29 | 8/06 | 58-59 | 175-44 | X16842 Y33572 | 74 | 2.3 | 2540.0 | 4762.0 | 238.0 | 0.0 | 7540.0 | 0.0 |
| M30 | 8/12 | 58-59 | 176-18 | X16668 Y33534 | 75 | 3.0 | 3866.0 | 7143.0 | 252.0 | 0.0 | 11261.0 | 0.0 |
| M31 | 8/11 | 58-58 | 177-01 | X16439 Y33493 | 73 | 2.0 | 1102.0 | 472.0 | 0.0 | 0.0 | 1574.0 | 0.0 |
| M32 | 8/11 | 59-01 | 177-33 | X16277 Y33434 | 74 | 2.6 | 413.0 | 744.0 | 83.0 | 0.0 | 1239.0 | 0.0 |
| N01 | 7/07 | 59-20 | 167-58 | Y33339 Z48778 | 20 | 4.2 | 0.0 | 79.0 | 0.0 | 0.0 | 79.0 | 0.0 |
| N22 | 7/18 | 59-19 | 171-08 | X18086 Y33559 | 41 | -0.9 | 0.0 | 340.0 | 0.0 | 0.0 | 340.0 | 0.0 |
| N25 | 7/31 | 59-20 | 173-08 | X17602 Y33521 | 55 | 0.8 | 0.0 | 413.0 | 83.0 | 0.0 | 496.0 | 0.0 |
| N26 | 7/31 | 59-17 | 173-50 | X17413 Y33527 | 63 | 1.4 | 976.0 | 2764.0 | 407.0 | 81.0 | 4228.0 | 1.9 |
| N27 | 7/30 | 59-19 | 174-18 | X17280 Y33486 | 66 | 1.7 | 3739.0 | 1478.0 | 435.0 | 0.0 | 5652.0 | 0.0 |
| N28 | 8/12 | 59-19 | 175-09 | X17030 Y33433 | 74 | 2.2 | 3553.0 | 1974.0 | 132.0 | 0.0 | 5658.0 | 0.0 |
| N29 | 8/06 | 59-19 | 175-44 | X16856 Y33400 | 75 | 1.0 | 1870.0 | 2683.0 | 488.0 | 0.0 | 5041.0 | 0.0 |
| N30 | 8/11 | 59-21 | 176-23 | X16665 Y33348 | 75 | 1.0 | 3415.0 | 2195.0 | 244.0 | 0.0 | 5854.0 | 0.0 |
| N31 | 8/11 | 59-19 | 176-58 | X16487 Y33330 | 80 | 2.9 | 1074.0 | 1322.0 | 83.0 | 0.0 | 2479.0 | 0.0 |
| O25 | 7/25 | 59-30 | 172-51 | X17660 Y33420 | 53 | 0.1 | 0.0 | 163.0 | 81.0 | 0.0 | 244.0 | 0.0 |
| O26 | 7/30 | 59-30 | 173-32 | X17483 Y33400 | 56 | 0.8 | 0.0 | 424.0 | 85.0 | 0.0 | 508.0 | 0.0 |
| O27 | 7/30 | 59-35 | 174-25 | X17239 Y33318 | 65 | 1.2 | 1484.0 | 2344.0 | 156.0 | 0.0 | 3984.0 | 0.0 |
| O28 | 8/13 | 59-40 | 175-07 | X17042 Y33241 | 69 | 1.6 | 122.0 | 0.0 | 0.0 | 0.0 | 122.0 | 0.0 |
| O29 | 8/07 | 59-40 | 175-52 | X16832 Y33208 | 75 | 1.3 | 0.0 | 579.0 | 0.0 | 0.0 | 579.0 | 0.0 |
| O30 | 8/11 | 59-39 | 176-31 | X16643 Y33183 | 75 | 1.1 | 1240.0 | 1074.0 | 248.0 | 0.0 | 2562.0 | 0.0 |
| O31 | 8/10 | 59-40 | 177-12 | X16447 Y33140 | 97 | 2.1 | 20115.0 | 1652.0 | 2261.0 | 87.0 | 24115.0 | 0.4 |
| P23 | 7/26 | 60-09 | 172-18 | X17713 Y32985 | 30 | 2.3 | 0.0 | 133.0 | 0.0 | 0.0 | 133.0 | 0.0 |
| P23 | 7/26 | 59-59 | 171-56 | X17812 Y33096 | 36 | 0.0 | 345.0 | 1724.0 | 0.0 | 0.0 | 2069.0 | 0.0 |
| P24 | 7/26 | 59-59 | 172-38 | X17662 Y33104 | 37 | -0.[illegible] | 286.0 | 667.0 | 0.0 | 0.0 | 953.0 | 0.0 |
| P24 | 7/26 | 59-50 | 172-52 | X17622 Y33203 | 45 | -1.[illegible] | 1149.0 | 575.0 | 0.0 | 0.0 | 1724.0 | 0.0 |
| P26 | 7/30 | 59-59 | 173-57 | X17343 Y33089 | 53 | 0.1 | 0.0 | 0.0 | 76.0 | 0.0 | 76.0 | 0.0 |
| P27 | 7/30 | 59-59 | 174-36 | X17176 Y33075 | 61 | 0.7 | 0.0 | 83.0 | 0.0 | 0.0 | 83.0 | 0.0 |
| P31 | 8/10 | 60-01 | 177-13 | X16471 Y32971 | 75 | 0.9 | 887.0 | 726.0 | 0.0 | 0.0 | 1613.0 | 0.0 |
| P32 | 8/10 | 59-59 | 177-52 | X16290 Y32957 | 77 | 0.9 | 588.0 | 824.0 | 118.0 | 0.0 | 1529.0 | 0.0 |
| R27 | 8/06 | 60-41 | 174-46 | X17105 Y32642 | 55 | -1.2 | 631.0 | 0.0 | 0.0 | 0.0 | 631.0 | 0.0 |
| R31 | 8/09 | 60-39 | 177-28 | X16444 Y32635 | 81 | | 118.0 | 0.0 | 0.0 | 0.0 | 118.0 | 0.0 |
| R32 | 8/09 | 60-40 | 178-08 | X16277 Y32615 | 89 | 1.4 | 83.0 | 0.0 | 0.0 | 0.0 | 83.0 | 0.0 |
| S31 | 8/08 | 61-01 | 177-34 | X16442 Y32442 | 74 | | 0.0 | 84.0 | 0.0 | 0.0 | 84.0 | 0.0 |
| Z04 | 7/01 | 54-49 | 165-31 | Y34642 Z48174 | 91 | | 9156.0 | 10584.0 | 130.0 | 65.0 | 19935.0 | 0.3 |
| Z05 | 7/01 | 54-44 | 165-09 | Y34599 Z48036 | 49 | 5.1 | 1053.0 | 1579.0 | 3816.0 | 1711.0 | 8158.0 | 21.0 |

NOTE:PRE-RECRUIT = 4.3-5.5 IN. WIDTH;LEGAL = 5.5 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| z23 | 7/28 | 63-19 | 172-36 | X17320 Y30903 | 34 | -1.6 | 105911.0 | 166695.0 | 0.0 | 921.0 | 273527.0 | 0.3 |
| A02 | 7/02 | 55-01 | 166-56 | Y34822 Z48680 | 85 | | 0.0 | 0.0 | 0.0 | 85.0 | 85.0 | 100.0 |
| A03 | 7/02 | 54-59 | 166-16 | Y34731 Z48453 | 78 | 3.7 | 0.0 | 0.0 | 79.0 | 238.0 | 317.0 | 75.1 |
| A04 | 7/01 | 54-59 | 165-44 | Y34654 Z48268 | 72 | | 0.0 | 69.0 | 69.0 | 278.0 | 417.0 | 66.7 |
| A05 | 7/01 | 55-00 | 165-08 | Y34563 Z48056 | 60 | 4.3 | 0.0 | 854.0 | 1538.0 | 13327.0 | 15719.0 | 84.8 |
| B01 | 7/09 | 55-21 | 167-32 | Y34876 Z48931 | 80 | 3.4 | 391.0 | 78.0 | 156.0 | 0.0 | 625.0 | 0.0 |
| B02 | 7/02 | 55-20 | 166-57 | Y34795 Z48735 | 78 | | 1092.0 | 0.0 | 252.0 | 336.0 | 1680.0 | 20.0 |
| B03 | 7/02 | 55-20 | 166-21 | Y34705 Z48522 | 72 | 3.7 | 500.0 | 417.0 | 417.0 | 417.0 | 1750.0 | 23.8 |
| B04 | 7/01 | 55-19 | 165-48 | Y34621 Z48320 | 67 | | 0.0 | 0.0 | 141.0 | 211.0 | 352.0 | 59.9 |
| B05 | 7/01 | 55-20 | 165-10 | Y34517 Z48090 | 60 | 4.2 | 90.0 | 90.0 | 541.0 | 1622.0 | 2342.0 | 69.3 |
| B06 | 6/22 | 55-22 | 164-30 | Y34407 Z47847 | 56 | 4.0 | 0.0 | 469.0 | 156.0 | 234.0 | 859.0 | 27.2 |
| B07 | 6/21 | 55-22 | 164-00 | Y34327 Z47654 | 40 | 4.2 | 0.0 | 122.0 | 244.0 | 244.0 | 610.0 | 40.0 |
| B08 | 6/21 | 55-22 | 163-24 | Y34233 Z47429 | 30 | 4.4 | 0.0 | 78.0 | 0.0 | 78.0 | 156.0 | 50.0 |
| C01 | 7/09 | 55-36 | 167-34 | Y34858 Z48982 | 74 | 3.4 | 7752.0 | 78.0 | 388.0 | 853.0 | 9070.0 | 9.4 |
| C02 | 7/02 | 55-40 | 166-59 | Y34761 Z48789 | 75 | | 14876.0 | 165.0 | 248.0 | 248.0 | 15537.0 | 1.6 |
| C03 | 7/02 | 55-39 | 166-22 | Y34663 Z48565 | 69 | 3.5 | 0.0 | 0.0 | 93.0 | 185.0 | 278.0 | 66.5 |
| C04 | 7/01 | 55-39 | 165-48 | Y34569 Z48350 | 65 | | 168.0 | 168.0 | 168.0 | 84.0 | 588.0 | 14.3 |
| C05 | 7/01 | 55-41 | 165-10 | Y34460 Z48117 | 59 | 3.4 | 254.0 | 593.0 | 593.0 | 1610.0 | 3051.0 | 52.8 |
| C06 | 6/22 | 55-40 | 164-35 | Y34363 Z47888 | 53 | 2.9 | 441.0 | 1029.0 | 1176.0 | 1397.0 | 4044.0 | 34.5 |
| C07 | 6/22 | 55-41 | 164-01 | Y34266 Z47670 | 51 | 3.1 | 0.0 | 325.0 | 732.0 | 325.0 | 1382.0 | 23.5 |
| C08 | 6/21 | 55-40 | 163-24 | Y34172 Z47435 | 45 | 2.9 | 0.0 | 85.0 | 171.0 | 0.0 | 256.0 | 0.0 |
| C09 | 6/21 | 55-40 | 162-49 | Y34077 Z47206 | 27 | 4.6 | 0.0 | 76.0 | 0.0 | 0.0 | 76.0 | 0.0 |
| C18 | 7/09 | 55-41 | 168-10 | Y34939 Z49199 | 75 | | 0.0 | 0.0 | 81.0 | 1545.0 | 1626.0 | 95.0 |
| D01 | 7/09 | 56-00 | 167-37 | Y34820 Z49060 | 72 | 3.3 | 403.0 | 323.0 | 1371.0 | 1613.0 | 3709.0 | 43.5 |
| D02 | 7/02 | 56-01 | 167-00 | Y34712 Z48835 | 74 | | 556.0 | 0.0 | 159.0 | 635.0 | 1350.0 | 47.0 |
| D03 | 7/02 | 55-59 | 166-23 | Y34609 Z48598 | 67 | 3.6 | 270.0 | 90.0 | 0.0 | 450.0 | 811.0 | 55.5 |
| D04 | 7/01 | 55-59 | 165-48 | Y34506 Z48377 | 61 | | 136.0 | 136.0 | 272.0 | 680.0 | 1224.0 | 55.6 |
| D05 | 7/01 | 55-59 | 165-06 | Y34388 Z48106 | 52 | 3.5 | 650.0 | 163.0 | 488.0 | 407.0 | 1707.0 | 23.8 |
| D06 | 6/22 | 56-01 | 164-35 | Y34291 Z47903 | 51 | 1.6 | 0.0 | 725.0 | 942.0 | 652.0 | 2319.0 | 28.1 |
| D07 | 6/22 | 55-59 | 164-02 | Y34203 Z47690 | 49 | 1.6 | 0.0 | 320.0 | 800.0 | 640.0 | 1760.0 | 36.4 |
| D08 | 6/21 | 56-02 | 163-23 | Y34085 Z47434 | 49 | 1.9 | 0.0 | 504.0 | 168.0 | 0.0 | 672.0 | 0.0 |
| D09 | 6/21 | 56-01 | 162-47 | Y33994 Z47198 | 42 | 2.7 | 0.0 | 73.0 | 0.0 | 0.0 | 73.0 | 0.0 |
| D18 | 7/09 | 56-00 | 168-12 | Y34917 Z49267 | 83 | | 0.0 | 88.0 | 526.0 | 2719.0 | 3333.0 | 81.6 |
| E01 | 7/09 | 56-20 | 167-38 | Y34770 Z49105 | 71 | 3.3 | 339.0 | 593.0 | 4492.0 | 6356.0 | 11780.0 | 54.0 |
| E02 | 7/02 | 56-19 | 167-01 | Y34660 Z48868 | 63 | | 0.0 | 431.0 | 172.0 | 1466.0 | 2069.0 | 70.9 |

NOTE:PRE-RECRUIT = 3.1-4.0 IN. WIDTH;LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | PERCENT |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | LARGE |
| E03 | 7/02 | 56-19 | 166-24 | Y34546 Z48631 | 56 | 3.3 | 513.0 | 85.0 | 256.0 | 769.0 | 1624.0 | 47.4 |
| E04 | 6/30 | 56-19 | 165-48 | Y34432 Z48391 | 51 | | 200.0 | 0.0 | 133.0 | 267.0 | 600.0 | 44.5 |
| E05 | 6/30 | 56-20 | 165-13 | Y34321 Z48161 | 46 | 2.1 | 0.0 | 661.0 | 248.0 | 413.0 | 1322.0 | 31.2 |
| E06 | 6/22 | 56-20 | 164-34 | Y34209 Z47905 | 48 | | 0.0 | 313.0 | 156.0 | 469.0 | 938.0 | 50.0 |
| E07 | 6/22 | 56-19 | 164-02 | Y34121 Z47695 | 46 | 1.3 | 0.0 | 606.0 | 227.0 | 76.0 | 909.0 | 8.4 |
| E08 | 6/21 | 56-22 | 163-23 | Y33999 Z47435 | 47 | | 0.0 | 593.0 | 339.0 | 169.0 | 1102.0 | 15.3 |
| E09 | 6/21 | 56-18 | 162-48 | Y33920 Z47201 | 43 | 2.3 | 0.0 | 77.0 | 154.0 | 77.0 | 308.0 | 25.0 |
| E10 | 6/15 | 56-22 | 162-11 | Y33806 Z46957 | 48 | | 0.0 | 0.0 | 0.0 | 83.0 | 83.0 | 100.0 |
| E18 | 7/09 | 56-20 | 168-15 | Y34885 Z49338 | 86 | | 0.0 | 560.0 | 6158.0 | 14742.0 | 21460.0 | 68.7 |
| E19 | 7/10 | 56-21 | 168-52 | Y34987 Z49556 | 70 | | 33526.0 | 789.0 | 3421.0 | 1754.0 | 39491.0 | 4.4 |
| E20 | 7/10 | 56-23 | 169-32 | Y35078 Z49773 | 71 | | 1228.0 | 0.0 | 0.0 | 0.0 | 1228.0 | 0.0 |
| E21 | 7/22 | 56-25 | 170-12 | Y35132 Z49952 | 62 | 5.5 | 106776.0 | 1717.0 | 2929.0 | 1313.0 | 112736.0 | 1.2 |
| E22 | 7/23 | 56-21 | 170-42 | X18269 Z50020 | 66 | 3.6 | 15292.0 | 234.0 | 781.0 | 234.0 | 16542.0 | 1.4 |
| F01 | 7/08 | 56-41 | 167-42 | Y34711 Z49157 | 55 | 2.9 | 96.0 | 481.0 | 5096.0 | 5865.0 | 11538.0 | 50.8 |
| F02 | 7/03 | 56-41 | 167-03 | Y34580 Z48901 | 53 | | 9672.0 | 1639.0 | 1311.0 | 902.0 | 13524.0 | 6.7 |
| F03 | 7/03 | 56-39 | 166-27 | Y34473 Z48663 | 45 | 2.0 | 574.0 | 656.0 | 410.0 | 328.0 | 1967.0 | 16.7 |
| F04 | 6/30 | 56-39 | 165-51 | Y34355 Z48420 | 44 | | 0.0 | 417.0 | 278.0 | 625.0 | 1319.0 | 47.4 |
| F05 | 6/30 | 56-40 | 165-13 | Y34233 Z48167 | 40 | 1.7 | 83.0 | 248.0 | 0.0 | 909.0 | 1240.0 | 73.3 |
| F05 | 6/23 | 56-31 | 165-02 | Y34243 Z48096 | 43 | 1.7 | 0.0 | 472.0 | 236.0 | 787.0 | 1496.0 | 52.6 |
| F06 | 6/23 | 56-40 | 164-34 | Y34115 Z47910 | 40 | 2.0 | 0.0 | 231.0 | 154.0 | 538.0 | 923.0 | 58.3 |
| F07 | 6/23 | 56-49 | 164-15 | Y34014 Z47778 | 39 | 2.3 | 0.0 | 709.0 | 787.0 | 945.0 | 2441.0 | 38.7 |
| F07 | 6/22 | 56-47 | 163-56 | Y33973 Z47655 | 39 | 2.1 | 0.0 | 242.0 | 323.0 | 161.0 | 726.0 | 22.2 |
| F07 | 6/22 | 56-40 | 164-03 | Y34027 Z47699 | 40 | 2.2 | 0.0 | 317.0 | 238.0 | 79.0 | 635.0 | 12.4 |
| F07 | 6/23 | 56-30 | 164-15 | Y34108 Z47779 | 44 | 1.6 | 0.0 | 1707.0 | 894.0 | 813.0 | 3415.0 | 23.8 |
| F08 | 6/20 | 56-43 | 163-21 | Y33893 Z47420 | 41 | | 87.0 | 522.0 | 87.0 | 0.0 | 696.0 | 0.0 |
| F09 | 6/20 | 56-41 | 162-47 | Y33811 Z47192 | 38 | 3.2 | 0.0 | 157.0 | 79.0 | 0.0 | 236.0 | 0.0 |
| F10 | 6/15 | 56-41 | 162-10 | Y33710 Z46943 | 39 | 3.0 | 0.0 | 83.0 | 0.0 | 83.0 | 165.0 | 50.3 |
| F11 | 6/14 | 56-39 | 161-34 | Y33632 Z46706 | 50 | 2.9 | 0.0 | 256.0 | 256.0 | 0.0 | 513.0 | 0.0 |
| F18 | 7/09 | 56-39 | 168-18 | Y34835 Z49388 | 59 | | 496.0 | 998.0 | 12143.0 | 7652.0 | 21288.0 | 35.9 |
| F19 | 7/10 | 56-39 | 168-53 | Y34952 Z49614 | 56 | | 46044.0 | 1311.0 | 4098.0 | 1148.0 | 52601.0 | 2.2 |
| F21 | 7/23 | 56-40 | 170-08 | X18544 Z50011 | 52 | 3.3 | 0.0 | 645.0 | 726.0 | 403.0 | 1774.0 | 22.7 |
| F22 | 7/23 | 56-40 | 170-42 | X18407 Z50104 | 62 | 3.6 | 147.0 | 221.0 | 1324.0 | 809.0 | 2500.0 | 32.4 |
| F23 | 7/23 | 56-39 | 171-19 | X18200 Z50144 | 65 | 3.5 | 175177.0 | 2114.0 | 6504.0 | 2195.0 | 185990.0 | 1.2 |
| F24 | 7/23 | 56-45 | 171-56 | X18007 Z50171 | 67 | 3.5 | 65473.0 | 913.0 | 25554.0 | 3042.0 | 94982.0 | 3.2 |
| G01 | 7/08 | 57-00 | 167-41 | Y34615 Z49159 | 41 | 2.5 | 2091.0 | 4636.0 | 6818.0 | 4636.0 | 18182.0 | 25.5 |

NOTE: PRE-RECRUIT = 3.1-4.0 IN. WIDTH; LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| G02 | 7/03 | 57-01 | 167-04 | Y34486 Z48911 | 41 | | 569.0 | 1138.0 | 1057.0 | 1870.0 | 4634.0 | 40.4 |
| G03 | 7/03 | 56-59 | 166-28 | Y34375 Z48669 | 39 | 2.7 | 160.0 | 302.0 | 1358.0 | 22185.0 | 24005.0 | 92.4 |
| G04 | 6/30 | 56-59 | 165-51 | Y34251 Z48417 | 40 | | 278.0 | 625.0 | 486.0 | 15208.0 | 16597.0 | 91.6 |
| G05 | 6/30 | 57-00 | 165-13 | Y34125 Z48162 | 38 | 2.1 | 79.0 | 1194.0 | 1194.0 | 28251.0 | 30718.0 | 92.0 |
| G05 | 6/23 | 56-50 | 164-55 | Y34129 Z48050 | 39 | 2.0 | 0.0 | 310.0 | 620.0 | 1860.0 | 2791.0 | 66.6 |
| G06 | 6/23 | 56-50 | 164-36 | Y34072 Z47919 | 39 | 2.4 | 0.0 | 169.0 | 169.0 | 932.0 | 1271.0 | 73.3 |
| G06 | 6/24 | 57-04 | 164-45 | Y34023 Z47977 | 37 | 2.5 | 0.0 | 315.0 | 236.0 | 2520.0 | 3071.0 | 82.1 |
| G07 | 6/24 | 57-00 | 164-03 | Y33917 Z47693 | 36 | 2.6 | 0.0 | 0.0 | 0.0 | 242.0 | 242.0 | 100.0 |
| G08 | 6/20 | 57-01 | 163-21 | Y33794 Z47410 | 36 | 2.8 | 0.0 | 152.0 | 0.0 | 0.0 | 152.0 | 0.0 |
| G09 | 6/20 | 57-01 | 162-48 | Y33708 Z47193 | 32 | 2.3 | 0.0 | 227.0 | 0.0 | 0.0 | 227.0 | 0.0 |
| G12 | 6/12 | 57-01 | 160-56 | Y33425 Z46443 | 33 | 3.0 | 0.0 | 0.0 | 84.0 | 0.0 | 84.0 | 0.0 |
| G13 | 6/11 | 57-01 | 160-20 | Y33338 Z46198 | 36 | 3.4 | 0.0 | 73.0 | 0.0 | 0.0 | 73.0 | 0.0 |
| G18 | 7/08 | 56-58 | 168-20 | Y34761 Z49416 | 46 | | 833.0 | 7968.0 | 13863.0 | 6215.0 | 28879.0 | 21.5 |
| G19 | 7/12 | 57-10 | 168-38 | Y34762 Z49535 | 43 | | 3220.0 | 4153.0 | 4322.0 | 1780.0 | 13474.0 | 13.2 |
| G19 | 7/11 | 56-51 | 168-38 | Y34861 Z49532 | 53 | | 251595.0 | 7895.0 | 7887.0 | 2941.0 | 270317.0 | 1.1 |
| G19 | 7/11 | 57-00 | 168-56 | Y34887 Z49658 | 44 | | 504.0 | 1933.0 | 6555.0 | 3697.0 | 12689.0 | 29.1 |
| G20 | 7/11 | 57-08 | 169-21 | Y34931 Z49819 | 40 | | 49740.0 | 1552.0 | 3276.0 | 2931.0 | 57499.0 | 5.1 |
| G20 | 7/11 | 57-00 | 169-32 | Y35015 Z49894 | 35 | | 0.0 | 501.0 | 5510.0 | 115708.0 | 121718.0 | 95.1 |
| G20 | 7/10 | 56-50 | 169-17 | Y34997 Z49779 | 44 | | 787.0 | 394.0 | 1575.0 | 1654.0 | 4409.0 | 37.5 |
| G21 | 7/11 | 56-51 | 169-53 | Y35103 Z49993 | 40 | | 325.0 | 253.0 | 0.0 | 10106.0 | 10683.0 | 94.6 |
| G21 | 7/21 | 57-01 | 170-10 | Y35132 Z50121 | 36 | 5.3 | 0.0 | 215.0 | 0.0 | 108.0 | 323.0 | 33.4 |
| G22 | 7/21 | 57-02 | 170-45 | X18531 Y35087 | 48 | 3.6 | 0.0 | 400.0 | 933.0 | 1333.0 | 2667.0 | 50.0 |
| G22 | 7/22 | 57-06 | 170-27 | X18660 Y35118 | 25 | 5.4 | 132.0 | 0.0 | 0.0 | 0.0 | 132.0 | 0.0 |
| G22 | 7/23 | 56-50 | 170-26 | X18563 Z50118 | 55 | 3.5 | 678.0 | 593.0 | 932.0 | 1102.0 | 3305.0 | 33.3 |
| G23 | 7/24 | 56-59 | 171-24 | X18268 Y35000 | 60 | 3.1 | 10556.0 | 556.0 | 6429.0 | 1825.0 | 19366.0 | 9.4 |
| G24 | 7/24 | 57-02 | 172-03 | X18022 Y34888 | 65 | 3.3 | 1709.0 | 1157.0 | 15045.0 | 2700.0 | 20611.0 | 13.1 |
| G25 | 8/01 | 57-00 | 172-39 | X17785 Y34809 | 67 | 3.1 | 6033.0 | 0.0 | 4132.0 | 2149.0 | 12314.0 | 17.5 |
| G26 | 8/01 | 57-02 | 173-10 | X17587 Y34726 | 75 | 3.4 | 900.0 | 400.0 | 0.0 | 300.0 | 1600.0 | 18.8 |
| H01 | 7/08 | 57-20 | 167-45 | Y34502 Z49162 | 39 | | 2231.0 | 1157.0 | 1901.0 | 744.0 | 6033.0 | 12.3 |
| H02 | 7/03 | 57-19 | 167-07 | Y34381 Z48911 | 39 | | 1515.0 | 2105.0 | 1504.0 | 9624.0 | 14748.0 | 65.3 |
| H03 | 7/03 | 57-20 | 166-29 | Y34250 Z48658 | 37 | 2.8 | 690.0 | 4022.0 | 4372.0 | 23782.0 | 32866.0 | 72.4 |
| H04 | 6/30 | 57-20 | 165-52 | Y34131 Z48410 | 38 | | 1291.0 | 717.0 | 861.0 | 17790.0 | 20659.0 | 86.1 |
| H05 | 6/30 | 57-21 | 165-13 | Y34006 Z48153 | 35 | 2.4 | 244.0 | 488.0 | 244.0 | 3333.0 | 4309.0 | 77.3 |
| H06 | 6/25 | 57-20 | 164-35 | Y33898 Z47900 | 35 | 1.9 | 976.0 | 4065.0 | 569.0 | 4146.0 | 9756.0 | 42.5 |
| H07 | 6/24 | 57-19 | 164-01 | Y33805 Z47673 | 34 | 2.0 | 81.0 | 726.0 | 161.0 | 1290.0 | 2258.0 | 57.1 |

NOTE:PRE-RECRUIT = 3.1-4.0 IN. WIDTH;LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | PERCENT |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | LARGE |
| H09 | 6/20 | 57-21 | 162-45 | Y33584 Z47165 | 25 | 4.0 | 0.0 | 0.0 | 0.0 | 79.0 | 79.0 | 100.0 |
| H11 | 6/14 | 57-16 | 161-32 | Y33424 Z46675 | 31 | 3.6 | 0.0 | 76.0 | 0.0 | 0.0 | 76.0 | 0.0 |
| H18 | 7/08 | 57-19 | 168-22 | Y34640 Z49410 | 41 | | 39474.0 | 18684.0 | 5263.0 | 526.0 | 63948.0 | 0.8 |
| H19 | 7/12 | 57-29 | 168-45 | Y34650 Z49542 | 38 | 2.9 | 6911.0 | 2602.0 | 1626.0 | 650.0 | 11789.0 | 5.5 |
| H19 | 7/12 | 57-20 | 169-00 | Y34770 Z49659 | 40 | | 0.0 | 738.0 | 902.0 | 738.0 | 2377.0 | 31.0 |
| H20 | 7/12 | 57-19 | 169-35 | Y34903 Z49890 | 35 | | 0.0 | 914.0 | 3839.0 | 9324.0 | 14078.0 | 66.2 |
| H21 | 7/21 | 57-19 | 170-11 | X18715 Y35008 | 27 | 5.4 | 0.0 | 0.0 | 0.0 | 132.0 | 132.0 | 100.0 |
| H22 | 7/21 | 57-19 | 170-50 | X18523 Y34964 | 44 | 3.7 | 0.0 | 0.0 | 156.0 | 313.0 | 469.0 | 66.7 |
| H23 | 7/24 | 57-19 | 171-24 | X18306 Y35882 | 54 | 3.1 | 66543.0 | 1339.0 | 4094.0 | 1890.0 | 73866.0 | 2.6 |
| H24 | 7/24 | 57-21 | 172-05 | X18049 Y34766 | 61 | 2.8 | 266633.0 | 2903.0 | 11613.0 | 1452.0 | 282601.0 | 0.5 |
| H25 | 8/01 | 57-21 | 172-48 | X17773 Y34667 | 63 | 3.0 | 159473.0 | 1406.0 | 7969.0 | 2578.0 | 171426.0 | 1.5 |
| H26 | 8/01 | 57-23 | 173-18 | X17589 Y34580 | 67 | 3.3 | 508.0 | 339.0 | 1441.0 | 593.0 | 2881.0 | 20.6 |
| I01 | 7/08 | 57-40 | 167-47 | Y34356 Z49137 | 36 | 3.4 | 46501.0 | 34425.0 | 12031.0 | 9040.0 | 101997.0 | 8.9 |
| I02 | 7/03 | 57-41 | 167-07 | Y34220 Z48875 | 38 | | 66142.0 | 22361.0 | 14803.0 | 40407.0 | 143714.0 | 28.1 |
| I03 | 7/03 | 57-39 | 166-30 | Y34117 Z48636 | 35 | 2.1 | 6080.0 | 5841.0 | 14337.0 | 22302.0 | 48560.0 | 45.9 |
| I04 | 6/30 | 57-39 | 165-53 | Y34005 Z48394 | 36 | | 145.0 | 942.0 | 1159.0 | 6232.0 | 8478.0 | 73.5 |
| I05 | 6/30 | 57-40 | 165-14 | Y33874 Z48133 | 32 | 1.9 | 625.0 | 3359.0 | 547.0 | 2109.0 | 6641.0 | 31.8 |
| I06 | 6/25 | 57-39 | 164-38 | Y33777 Z47897 | 29 | 2.4 | 0.0 | 0.0 | 78.0 | 156.0 | 234.0 | 66.7 |
| I11 | 6/14 | 57-41 | 161-24 | Y33257 Z46613 | 28 | 3.7 | 0.0 | 0.0 | 78.0 | 0.0 | 78.0 | 0.0 |
| I18 | 7/08 | 57-39 | 168-24 | Y34486 Z49374 | 39 | | 626390.0 | 227615.0 | 5789.0 | 1053.0 | 860848.0 | 0.1 |
| I19 | 7/13 | 57-49 | 168-45 | Y34460 Z49466 | 38 | 2.7 | 265762.0 | 92398.0 | 6668.0 | 1905.0 | 365733.0 | 0.5 |
| I19 | 7/13 | 57-38 | 169-01 | Y34616 Z49608 | 37 | 2.7 | 33411.0 | 10894.0 | 2602.0 | 1707.0 | 48614.0 | 3.5 |
| I20 | 7/12 | 57-30 | 169-19 | Y34753 Z49751 | 37 | 2.5 | 569.0 | 1057.0 | 1301.0 | 732.0 | 3658.0 | 20.0 |
| I20 | 7/13 | 57-41 | 169-38 | Y34685 Z49796 | 39 | | 26847.0 | 7065.0 | 16956.0 | 36738.0 | 87606.0 | 41.9 |
| I21 | 7/20 | 57-31 | 169-58 | X18698 Y34847 | 37 | 2.7 | 2480.0 | 1654.0 | 7441.0 | 24804.0 | 36379.0 | 68.2 |
| I21 | 7/20 | 57-49 | 170-00 | X18625 Y34634 | 39 | 1.6 | 34808.0 | 12651.0 | 5839.0 | 28871.0 | 82169.0 | 35.1 |
| I21 | 7/20 | 57-39 | 170-14 | X18625 Y34771 | 39 | 2.1 | 21195.0 | 7515.0 | 4652.0 | 15029.0 | 48391.0 | 31.1 |
| I22 | 7/20 | 57-30 | 170-35 | X18576 Y34869 | 40 | 3.0 | 1429.0 | 519.0 | 1299.0 | 2338.0 | 5585.0 | 41.9 |
| I22 | 7/20 | 57-40 | 170-54 | X18453 Y34736 | 46 | 3.0 | 34518.0 | 2593.0 | 1975.0 | 864.0 | 39950.0 | 2.2 |
| I23 | 7/24 | 57-39 | 171-28 | X18274 Y34697 | 53 | 2.8 | 187334.0 | 1951.0 | 5772.0 | 1138.0 | 196196.0 | 0.6 |
| I24 | 7/24 | 57-44 | 172-09 | X18033 Y34573 | 60 | 2.7 | 307419.0 | 1626.0 | 7154.0 | 3415.0 | 319614.0 | 1.1 |
| I25 | 8/01 | 57-39 | 172-47 | X17800 Y34532 | 65 | | 315847.0 | 2521.0 | 7479.0 | 2437.0 | 328284.0 | 0.7 |
| I26 | 8/01 | 57-41 | 173-24 | X17575 Y34439 | 82 | 3.3 | 0.0 | 0.0 | 41282.0 | 1106.0 | 42388.0 | 2.6 |
| J01 | 7/08 | 58-00 | 167-48 | Y34184 Z49081 | 36 | 2.4 | 24014.0 | 62522.0 | 20120.0 | 15144.0 | 121800.0 | 12.4 |
| J02 | 7/03 | 58-00 | 167-10 | Y34074 Z48848 | 36 | | 363563.0 | 449670.0 | 15308.0 | 46562.0 | 875103.0 | 5.3 |

NOTE:PRE-RECRUIT = 3.1-4.0 IN. WIDTH;LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| J03 | 7/03 | 57-59 | 166-31 | Y33959 Z48601 | 32 | 2.2 | 1724.0 | 3103.0 | 3362.0 | 6121.0 | 14310.0 | 42.8 |
| J04 | 6/29 | 57-59 | 165-54 | Y33848 Z48365 | 31 | | 267.0 | 533.0 | 0.0 | 133.0 | 934.0 | 14.2 |
| J18 | 7/08 | 57-58 | 168-26 | Y34314 Z49315 | 38 | | 543230.0 | 270054.0 | 27915.0 | 15702.0 | 856900.0 | 1.8 |
| J19 | 7/13 | 57-59 | 169-03 | Y34400 Z49516 | 37 | 2.0 | 37549.0 | 27351.0 | 3907.0 | 2605.0 | 71412.0 | 3.6 |
| J20 | 7/13 | 58-00 | 169-42 | Y34472 Z49702 | 39 | | 60061.0 | 28051.0 | 10334.0 | 30634.0 | 129080.0 | 23.7 |
| J20 | 7/13 | 57-50 | 169-20 | Y34539 Z49654 | 37 | | 84803.0 | 48329.0 | 21292.0 | 18926.0 | 173350.0 | 10.9 |
| J21 | 7/19 | 58-01 | 170-19 | X18523 Y34503 | 40 | 0.8 | 2776.0 | 1388.0 | 11797.0 | 155444.0 | 171405.0 | 90.7 |
| J22 | 7/19 | 57-50 | 170-35 | X18507 Y34633 | 42 | 1.7 | 968.0 | 1452.0 | 1613.0 | 11129.0 | 15162.0 | 73.4 |
| J22 | 7/20 | 57-58 | 170-54 | X18399 Y34526 | 46 | 2.0 | 617.0 | 123.0 | 988.0 | 4815.0 | 6543.0 | 73.6 |
| J23 | 7/24 | 57-59 | 171-34 | X18205 Y34484 | 53 | 2.2 | 21539.0 | 4132.0 | 13388.0 | 4876.0 | 43936.0 | 11.1 |
| J24 | 7/24 | 58-04 | 172-14 | X17985 Y34373 | 58 | 1.7 | 318080.0 | 4453.0 | 11953.0 | 5859.0 | 340346.0 | 1.7 |
| J25 | 7/31 | 58-00 | 172-52 | X17773 Y34343 | 59 | 2.5 | 30107.0 | 4780.0 | 17298.0 | 7283.0 | 59468.0 | 12.2 |
| J26 | 7/31 | 58-00 | 173-29 | X17555 Y34277 | 66 | 2.9 | 319737.0 | 5494.0 | 12891.0 | 2747.0 | 340869.0 | 0.8 |
| K01 | 7/07 | 58-19 | 167-51 | Y34000 Z49021 | 32 | 1.6 | 41730.0 | 297419.0 | 3677.0 | 7213.0 | 350040.0 | 2.1 |
| K02 | 7/04 | 58-21 | 167-11 | Y33880 Z48785 | 28 | | 7143.0 | 17381.0 | 238.0 | 714.0 | 25476.0 | 2.8 |
| K03 | 7/04 | 58-19 | 166-32 | Y33787 Z48552 | 24 | 3.7 | 83.0 | 496.0 | 83.0 | 83.0 | 744.0 | 11.2 |
| K18 | 7/08 | 58-19 | 168-28 | Y34095 Z49226 | 36 | | 203466.0 | 280454.0 | 3528.0 | 5488.0 | 492936.0 | 1.1 |
| K19 | 7/13 | 58-19 | 169-06 | Y34182 Z49423 | 36 | 1.5 | 71903.0 | 45377.0 | 3157.0 | 789.0 | 121225.0 | 0.7 |
| K20 | 7/13 | 58-21 | 169-44 | Y34221 Z49578 | 39 | | 104246.0 | 42343.0 | 4268.0 | 7470.0 | 158327.0 | 4.7 |
| K21 | 7/19 | 58-20 | 170-24 | X18434 Y34271 | 40 | 0.2 | 102323.0 | 29396.0 | 37866.0 | 62280.0 | 231866.0 | 26.9 |
| K22 | 7/19 | 58-20 | 171-00 | X18302 Y34272 | 45 | 0.5 | 767.0 | 1022.0 | 28106.0 | 40881.0 | 70776.0 | 57.8 |
| K23 | 7/24 | 58-19 | 171-39 | X18133 Y34255 | 52 | 1.1 | 1905.0 | 2152.0 | 34971.0 | 19100.0 | 58128.0 | 32.9 |
| K24 | 7/24 | 58-23 | 172-17 | X17940 Y34178 | 57 | 1.5 | 867712.0 | 6290.0 | 13306.0 | 4597.0 | 891906.0 | 0.5 |
| K25 | 7/31 | 58-20 | 172-56 | X17741 Y34150 | 59 | 1.7 | 5763.0 | 932.0 | 5508.0 | 3475.0 | 15678.0 | 22.2 |
| K26 | 7/31 | 58-17 | 173-33 | X17536 Y34122 | 64 | 2.5 | 96923.0 | 3763.0 | 15053.0 | 1646.0 | 117386.0 | 1.4 |
| K27 | 8/05 | 58-23 | 174-19 | X17280 Y34000 | 110 | | 0.0 | 83.0 | 0.0 | 0.0 | 83.0 | 0.0 |
| L01 | 7/07 | 58-40 | 167-52 | Y33785 Z48937 | 24 | 3.7 | 0.0 | 175.0 | 0.0 | 0.0 | 175.0 | 0.0 |
| L02 | 7/04 | 58-40 | 167-13 | Y33689 Z48724 | 24 | | 0.0 | 313.0 | 78.0 | 0.0 | 391.0 | 0.0 |
| L03 | 7/04 | 58-39 | 166-38 | Y33615 Z48526 | 21 | 4.0 | 0.0 | 76.0 | 76.0 | 0.0 | 152.0 | 0.0 |
| L18 | 7/07 | 58-39 | 168-29 | Y33873 Z49131 | 30 | | 2339.0 | 11048.0 | 1210.0 | 403.0 | 15000.0 | 2.7 |
| L19 | 7/13 | 58-39 | 169-09 | Y33948 Z49320 | 33 | 1.6 | 92523.0 | 367920.0 | 0.0 | 1348.0 | 461790.0 | 0.3 |
| L20 | 7/13 | 58-41 | 169-48 | Y33984 Z49470 | 38 | | 183922.0 | 100787.0 | 6355.0 | 4943.0 | 296007.0 | 1.7 |
| L21 | 7/19 | 58-39 | 170-26 | X18358 Y34029 | 40 | -0.3 | 262865.0 | 137287.0 | 52492.0 | 143344.0 | 595988.0 | 24.1 |
| L22 | 7/19 | 58-40 | 171-03 | X18228 Y34035 | 45 | 0.1 | 1148.0 | 12052.0 | 31564.0 | 39024.0 | 83788.0 | 46.6 |

NOTE: PRE-RECRUIT = 3.1-4.0 IN. WIDTH; LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| L23 | 7/25 | 58-39 | 171-42 | X18068 Y34024 | 50 | 1.0 | 5410.0 | 1311.0 | 12213.0 | 5984.0 | 24918.0 | 24.0 |
| L24 | 7/25 | 58-40 | 172-22 | X17886 Y33992 | 57 | 1.4 | 1565.0 | 4348.0 | 8174.0 | 3304.0 | 17391.0 | 19.0 |
| L25 | 7/31 | 58-40 | 173-01 | X17691 Y33942 | 61 | 1.7 | 60723.0 | 2468.0 | 7792.0 | 8182.0 | 79165.0 | 10.3 |
| L26 | 7/31 | 58-36 | 173-38 | X17506 Y33942 | 70 | 2.3 | 0.0 | 862.0 | 4569.0 | 603.0 | 6034.0 | 10.0 |
| L27 | 8/05 | 58-40 | 174-23 | X17262 Y33847 | 93 | 3.1 | 0.0 | 0.0 | 338779.0 | 9324.0 | 348103.0 | 2.7 |
| L28 | 8/05 | 58-44 | 174-49 | X17126 Y33776 | 95 | 2.8 | 0.0 | 905.0 | 85101.0 | 8148.0 | 94154.0 | 8.7 |
| L29 | 8/06 | 58-40 | 175-34 | X16875 Y33746 | 73 | | 0.0 | 0.0 | 118.0 | 235.0 | 353.0 | 66.6 |
| L31 | 8/12 | 58-41 | 176-49 | X16470 Y33638 | 73 | 2.0 | 238.0 | 238.0 | 0.0 | 0.0 | 476.0 | 0.0 |
| M01 | 7/07 | 59-00 | 167-53 | Y33561 Z48851 | 21 | 4.0 | 0.0 | 81.0 | 0.0 | 0.0 | 81.0 | 0.0 |
| M18 | 7/07 | 59-00 | 168-32 | Y33643 Z49041 | 26 | | 855.0 | 2051.0 | 0.0 | 0.0 | 2906.0 | 0.0 |
| M19 | 7/14 | 59-00 | 169-11 | Y33701 Z49210 | 28 | 2.5 | 4444.0 | 19365.0 | 159.0 | 0.0 | 23968.0 | 0.0 |
| M20 | 7/14 | 59-00 | 169-49 | Y33744 Z49357 | 35 | | 233584.0 | 186407.0 | 11046.0 | 2209.0 | 433245.0 | 0.5 |
| M21 | 7/18 | 59-00 | 170-30 | X18272 Y33778 | 39 | -0.7 | 164692.0 | 88636.0 | 26686.0 | 2383.0 | 282397.0 | 0.8 |
| M22 | 7/18 | 59-00 | 171-07 | X18147 Y33786 | 42 | -0.8 | 24138.0 | 30474.0 | 26853.0 | 8750.0 | 90215.0 | 9.7 |
| M23 | 7/25 | 58-59 | 171-47 | X18000 Y33800 | 47 | 0.3 | 19675.0 | 22166.0 | 21550.0 | 2873.0 | 66265.0 | 4.3 |
| M24 | 7/25 | 58-59 | 172-25 | X17834 Y33774 | 55 | 1.1 | 169.0 | 2542.0 | 6441.0 | 4407.0 | 13559.0 | 32.5 |
| M25 | 7/31 | 59-00 | 173-05 | X17649 Y33737 | 58 | 1.4 | 51298.0 | 1429.0 | 3613.0 | 3193.0 | 59533.0 | 5.4 |
| M26 | 7/31 | 59-01 | 173-43 | X17462 Y33697 | 66 | 1.8 | 18541.0 | 837.0 | 4882.0 | 4185.0 | 28445.0 | 14.7 |
| M27 | 8/05 | 59-02 | 174-22 | X17266 Y33642 | 71 | 2.0 | 328.0 | 0.0 | 14459.0 | 1377.0 | 16164.0 | 8.5 |
| M28 | 8/05 | 58-59 | 174-45 | X17148 Y33643 | 72 | 2.2 | 168.0 | 0.0 | 5714.0 | 420.0 | 6302.0 | 6.7 |
| M29 | 8/06 | 58-59 | 175-44 | X16842 Y33572 | 74 | 2.3 | 238.0 | 0.0 | 317.0 | 79.0 | 635.0 | 12.4 |
| M30 | 8/12 | 58-59 | 176-18 | X16668 Y33534 | 75 | 3.0 | 588.0 | 252.0 | 0.0 | 0.0 | 840.0 | 0.0 |
| M31 | 8/11 | 58-58 | 177-01 | X16439 Y33493 | 73 | 2.0 | 0.0 | 79.0 | 0.0 | 0.0 | 79.0 | 0.0 |
| N01 | 7/07 | 59-20 | 167-58 | Y33339 Z48778 | 20 | 4.2 | 79.0 | 0.0 | 0.0 | 0.0 | 79.0 | 0.0 |
| N03 | 7/04 | 59-19 | 166-36 | Y33192 Z48374 | 14 | 7.2 | 0.0 | 83.0 | 0.0 | 0.0 | 83.0 | 0.0 |
| N18 | 7/07 | 59-19 | 168-34 | Y33418 Z48951 | 22 | | 85.0 | 256.0 | 0.0 | 0.0 | 341.0 | 0.0 |
| N19 | 7/14 | 59-19 | 169-15 | Y33480 Z49121 | 26 | 2.8 | 115.0 | 1264.0 | 0.0 | 0.0 | 1379.0 | 0.0 |
| N20 | 7/14 | 59-20 | 169-52 | Y33509 Z49254 | 34 | | 126923.0 | 228462.0 | 8462.0 | 0.0 | 363846.0 | 0.0 |
| N21 | 7/18 | 59-21 | 170-32 | X18200 Y33531 | 35 | | 55812.0 | 69254.0 | 11396.0 | 0.0 | 136462.0 | 0.0 |
| N22 | 7/18 | 59-19 | 171-08 | X18086 Y33559 | 41 | -0.9 | 55476.0 | 67047.0 | 10551.0 | 2382.0 | 135456.0 | 1.8 |
| N23 | 7/25 | 59-19 | 171-49 | X17938 Y33567 | 43 | -0.8 | 92709.0 | 53400.0 | 19717.0 | 3492.0 | 169317.0 | 2.1 |
| N24 | 7/25 | 59-21 | 172-29 | X17772 Y33536 | 49 | 0.2 | 5268.0 | 12857.0 | 10714.0 | 9643.0 | 38482.0 | 25.1 |
| N25 | 7/31 | 59-20 | 173-08 | X17602 Y33521 | 55 | 0.8 | 331.0 | 826.0 | 4380.0 | 4628.0 | 10166.0 | 45.5 |
| N26 | 7/31 | 59-17 | 173-50 | X17413 Y33527 | 63 | 1.4 | 650.0 | 2795.0 | 8151.0 | 15138.0 | 26734.0 | 56.6 |

NOTE: PRE-RECRUIT = 3.1-4.0 IN. WIDTH; LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| N27 | 7/30 | 59-19 | 174-18 | X17280 Y33486 | 66 | 1.7 | 114904.0 | 5391.0 | 6783.0 | 1043.0 | 128121.0 | 0.8 |
| N28 | 8/12 | 59-19 | 175-09 | X17030 Y33433 | 74 | 2.2 | 211539.0 | 1556.0 | 16899.0 | 3335.0 | 233330.0 | 1.4 |
| N29 | 8/06 | 59-19 | 175-44 | X16856 Y33400 | 75 | 1.0 | 7724.0 | 488.0 | 1301.0 | 732.0 | 10244.0 | 7.1 |
| N30 | 8/11 | 59-21 | 176-23 | X16665 Y33348 | 75 | 1.0 | 2114.0 | 813.0 | 3252.0 | 1789.0 | 7968.0 | 22.5 |
| N31 | 8/11 | 59-19 | 176-58 | X16487 Y33330 | 80 | 2.9 | 331.0 | 496.0 | 413.0 | 83.0 | 1323.0 | 6.3 |
| O18 | 7/07 | 59-39 | 168-37 | Y33182 Z48862 | 22 | | 78.0 | 1328.0 | 0.0 | 0.0 | 1406.0 | 0.0 |
| O20 | 7/14 | 59-39 | 169-55 | Y33275 Z49154 | 32 | | 129873.0 | 331898.0 | 0.0 | 0.0 | 461771.0 | 0.0 |
| O21 | 7/18 | 59-39 | 170-35 | X18130 Y33302 | 36 | -0.3 | 30093.0 | 64817.0 | 8681.0 | 0.0 | 103591.0 | 0.0 |
| O22 | 7/17 | 59-40 | 171-15 | X18005 Y33319 | 39 | -0.8 | 97065.0 | 52803.0 | 7765.0 | 0.0 | 157634.0 | 0.0 |
| O23 | 7/25 | 59-49 | 172-14 | X17772 Y33218 | 40 | -1.0 | 344637.0 | 157670.0 | 17257.0 | 4707.0 | 524272.0 | 0.9 |
| O23 | 7/25 | 59-39 | 171-54 | X17871 Y33336 | 42 | -1.0 | 107821.0 | 75469.0 | 15465.0 | 3712.0 | 202466.0 | 1.8 |
| O24 | 7/25 | 59-39 | 172-36 | X17708 Y33323 | 47 | -0.8 | 351233.0 | 65539.0 | 13490.0 | 2260.0 | 432523.0 | 0.5 |
| O25 | 7/25 | 59-30 | 172-51 | X17660 Y33420 | 53 | 0.1 | 2195.0 | 1626.0 | 11870.0 | 3740.0 | 19431.0 | 19.2 |
| O25 | 7/30 | 59-38 | 173-16 | X17543 Y33325 | 53 | 0.6 | 496.0 | 165.0 | 2727.0 | 4711.0 | 8099.0 | 58.2 |
| O25 | 7/30 | 59-49 | 173-34 | X17449 Y33197 | 53 | 0.2 | 0.0 | 336.0 | 1933.0 | 10840.0 | 13109.0 | 82.7 |
| O26 | 7/30 | 59-30 | 173-32 | X17483 Y33400 | 56 | 0.8 | 424.0 | 424.0 | 3220.0 | 7203.0 | 11271.0 | 63.9 |
| O26 | 7/30 | 59-40 | 173-50 | X17392 Y33288 | 57 | 0.7 | 0.0 | 0.0 | 650.0 | 2683.0 | 3333.0 | 80.5 |
| O27 | 7/30 | 59-35 | 174-25 | X17239 Y33318 | 65 | 1.2 | 3984.0 | 1016.0 | 1875.0 | 1406.0 | 8281.0 | 17.0 |
| O28 | 8/13 | 59-40 | 175-07 | X17042 Y33241 | 69 | 1.6 | 559202.0 | 10534.0 | 15464.0 | 2689.0 | 587890.0 | 0.5 |
| O29 | 8/07 | 59-40 | 175-52 | X16832 Y33208 | 75 | 1.3 | 1405.0 | 8057.0 | 117191.0 | 5127.0 | 131780.0 | 3.9 |
| O30 | 8/11 | 59-39 | 176-31 | X16643 Y33183 | 75 | 1.1 | 661.0 | 1503.0 | 11858.0 | 3006.0 | 17028.0 | 17.7 |
| O31 | 8/10 | 59-40 | 177-12 | X16447 Y33140 | 97 | 2.1 | 1304.0 | 87.0 | 174.0 | 522.0 | 2087.0 | 25.0 |
| P18 | 7/07 | 59-58 | 168-40 | Y32953 Z48776 | 22 | | 88.0 | 351.0 | 0.0 | 0.0 | 439.0 | 0.0 |
| P20 | 7/14 | 60-00 | 169-58 | Y33024 Z49051 | 31 | | 30425.0 | 71802.0 | 0.0 | 0.0 | 102227.0 | 0.0 |
| P21 | 7/17 | 60-01 | 170-37 | X18061 Y33047 | 35 | -0.1 | 9322.0 | 41186.0 | 2034.0 | 0.0 | 52542.0 | 0.0 |
| P22 | 7/17 | 60-00 | 171-17 | X17944 Y33079 | 37 | -0.5 | 163364.0 | 67267.0 | 3392.0 | 0.0 | 234023.0 | 0.0 |
| P23 | 7/26 | 60-09 | 172-18 | X17713 Y32985 | 30 | 2.3 | 1467.0 | 1600.0 | 0.0 | 133.0 | 3200.0 | 4.2 |
| P23 | 7/26 | 59-59 | 171-56 | X17812 Y33096 | 36 | 0.0 | 35345.0 | 32276.0 | 931.0 | 621.0 | 69173.0 | 0.9 |
| P24 | 7/26 | 59-50 | 172-52 | X17622 Y33203 | 45 | -1.0 | 233046.0 | 113793.0 | 3218.0 | 1264.0 | 351322.0 | 0.4 |
| P24 | 7/26 | 60-09 | 173-00 | X17557 Y32986 | 33 | 1.2 | 1212.0 | 1212.0 | 808.0 | 0.0 | 3232.0 | 0.0 |
| P24 | 7/26 | 59-59 | 172-38 | X17662 Y33104 | 37 | -0.6 | 14549.0 | 9524.0 | 1048.0 | 0.0 | 25120.0 | 0.0 |
| P26 | 7/30 | 59-59 | 173-57 | X17343 Y33089 | 53 | 0.1 | 1756.0 | 1069.0 | 3740.0 | 3206.0 | 9771.0 | 32.8 |
| P26 | 7/30 | 60-07 | 173-44 | X17386 Y33007 | 48 | -0.6 | 105948.0 | 19481.0 | 11169.0 | 1429.0 | 138026.0 | 1.0 |

NOTE: PRE-RECRUIT = 3.1-4.0 IN. WIDTH; LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| P27 | 7/30 | 60-08 | 174-23 | X17223 Y32986 | 57 | 0.3 | 221.0 | 2068.0 | 12251.0 | 1432.0 | 15973.0 | 9.0 |
| P27 | 7/30 | 59-50 | 174-16 | X17269 Y33173 | 61 | 0.8 | 98595.0 | 2866.0 | 13851.0 | 5970.0 | 121282.0 | 4.9 |
| P27 | 7/30 | 59-59 | 174-36 | X17176 Y33075 | 61 | 0.7 | 667.0 | 1537.0 | 10121.0 | 1794.0 | 14118.0 | 12.7 |
| P28 | 8/13 | 59-59 | 175-17 | X17991 Y33049 | 65 | 1.0 | 68847.0 | 5122.0 | 8537.0 | 2927.0 | 85432.0 | 3.4 |
| P29 | 8/07 | 60-00 | 175-55 | X16823 Y33023 | 70 | 1.6 | 179590.0 | 2250.0 | 8250.0 | 1417.0 | 191507.0 | 0.7 |
| P30 | 8/10 | 60-01 | 176-42 | X16610 Y32990 | 78 | 0.9 | 17209.0 | 581.0 | 4535.0 | 2093.0 | 24418.0 | 8.6 |
| P31 | 8/10 | 60-01 | 177-13 | X16471 Y32971 | 75 | 0.9 | 4677.0 | 2258.0 | 5323.0 | 726.0 | 12983.0 | 5.6 |
| P32 | 8/10 | 59-59 | 177-52 | X16290 Y32957 | 77 | 0.9 | 2118.0 | 353.0 | 1294.0 | 118.0 | 3883.0 | 3.0 |
| Q20 | 7/14 | 60-20 | 170-02 | Y32786 Z48961 | 29 | | 41390.0 | 100889.0 | 0.0 | 4311.0 | 146591.0 | 2.9 |
| Q21 | 7/17 | 60-19 | 170-41 | X17999 Y32827 | 33 | 0.2 | 13576.0 | 45695.0 | 993.0 | 0.0 | 60265.0 | 0.0 |
| Q22 | 7/17 | 60-19 | 171-19 | X17886 Y32850 | 35 | -0.5 | 106013.0 | 57084.0 | 1747.0 | 0.0 | 164844.0 | 0.0 |
| Q23 | 7/26 | 60-19 | 172-04 | X17742 Y32874 | 31 | | 0.0 | 15000.0 | 1538.0 | 0.0 | 16538.0 | 0.0 |
| Q26 | 7/29 | 60-22 | 174-16 | X17240 Y32839 | 52 | | 45714.0 | 23214.0 | 8884.0 | 0.0 | 77813.0 | 0.0 |
| Q27 | 7/30 | 60-18 | 174-37 | X17156 Y32878 | 58 | -0.3 | 2605.0 | 22715.0 | 16599.0 | 1456.0 | 43376.0 | 3.4 |
| Q28 | 8/13 | 60-22 | 175-17 | X16989 Y32830 | 60 | 0.5 | 3256.0 | 814.0 | 9419.0 | 698.0 | 14186.0 | 4.9 |
| Q29 | 8/07 | 60-19 | 176-03 | X16794 Y32847 | 67 | 1.2 | 31331.0 | 508.0 | 1780.0 | 593.0 | 34212.0 | 1.7 |
| Q30 | 8/10 | 60-19 | 176-43 | X16620 Y32824 | 76 | 1.0 | 1544747.0 | 6649.0 | 8383.0 | 1879.0 | 1561657.0 | 0.1 |
| Q31 | 8/09 | 60-21 | 177-24 | X16444 Y32793 | 82 | 0.8 | 69395.0 | 598.0 | 1880.0 | 598.0 | 72472.0 | 0.8 |
| R21 | 7/15 | 60-40 | 170-44 | Y32576 Z48981 | 31 | 0.0 | 22931.0 | 96636.0 | 0.0 | 0.0 | 119567.0 | 0.0 |
| R22 | 7/15 | 60-40 | 171-27 | Y32609 Z49094 | 35 | | 122559.0 | 187181.0 | 4457.0 | 0.0 | 314196.0 | 0.0 |
| R23 | 7/27 | 60-39 | 172-04 | X17697 Y32641 | 33 | -1.0 | 226763.0 | 164535.0 | 0.0 | 0.0 | 391298.0 | 0.0 |
| R24 | 7/27 | 60-40 | 172-46 | X17552 Y32637 | 25 | 2.1 | 1097350.0 | 1267849.0 | 0.0 | 0.0 | 2365199.0 | 0.0 |
| R25 | 7/29 | 60-41 | 173-28 | X17404 Y32644 | 35 | 0.4 | 10407.0 | 20407.0 | 163.0 | 0.0 | 30976.0 | 0.0 |
| R26 | 7/29 | 60-40 | 174-07 | X17259 Y32654 | 49 | -1.4 | 72955.0 | 71302.0 | 9835.0 | 0.0 | 154092.0 | 0.0 |
| R27 | 8/06 | 60-41 | 174-46 | X17105 Y32642 | 55 | -1.2 | 4144.0 | 46847.0 | 12613.0 | 601.0 | 64204.0 | 0.9 |
| R28 | 8/07 | 60-40 | 175-27 | X16942 Y32655 | 61 | -0.3 | 1949.0 | 4068.0 | 14915.0 | 3220.0 | 24152.0 | 13.3 |
| R29 | 8/07 | 60-39 | 176-02 | X16802 Y32657 | 64 | 0.8 | 45585.0 | 726.0 | 5887.0 | 1613.0 | 53811.0 | 3.0 |
| R30 | 8/09 | 60-39 | 176-58 | X16572 Y32643 | 73 | 0.9 | 2800.0 | 997.0 | 8139.0 | 5481.0 | 17416.0 | 31.5 |
| R31 | 8/09 | 60-39 | 177-28 | X16444 Y32635 | 81 | | 353.0 | 118.0 | 4235.0 | 3529.0 | 8235.0 | 42.9 |
| R32 | 8/09 | 60-40 | 178-08 | X16277 Y32615 | 89 | 1.4 | 2135008.0 | 4607.0 | 11518.0 | 4838.0 | 2155971.0 | 0.2 |
| S18 | 7/06 | 60-59 | 168-41 | Y32220 Z48500 | 19 | | 0.0 | 163.0 | 0.0 | 0.0 | 163.0 | 0.0 |
| S20 | 7/15 | 60-59 | 170-05 | Y32316 Z48777 | 25 | -0.6 | 61632.0 | 149010.0 | 780.0 | 0.0 | 211422.0 | 0.0 |
| S22 | 7/15 | 60-59 | 171-31 | Y32384 Z49008 | 34 | | 90966.0 | 92366.0 | 1399.0 | 2799.0 | 187530.0 | 1.5 |
| S23 | 7/27 | 60-59 | 172-10 | X17635 Y32409 | 34 | -0.2 | 70524.0 | 96686.0 | 0.0 | 0.0 | 167210.0 | 0.0 |

NOTE: PRE-RECRUIT = 3.1-4.0 IN. WIDTH; LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 10 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE OPILIO SNOW CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| S24 | 7/27 | 61-01 | 172-49 | X17504 Y32402 | 38 | -1.1 | 33781.0 | 47017.0 | 0.0 | 0.0 | 80798.0 | 0.0 |
| S25 | 7/29 | 61-00 | 173-30 | X17367 Y32430 | 41 | -1.5 | 98411.0 | 115689.0 | 2254.0 | 0.0 | 216354.0 | 0.0 |
| S26 | 7/29 | 60-59 | 174-10 | X17228 Y32461 | 47 | -1.5 | 71763.0 | 106689.0 | 30665.0 | 1278.0 | 210395.0 | 0.6 |
| S27 | 8/06 | 61-00 | 174-53 | X17068 Y32453 | 52 | -1.5 | 4472.0 | 25290.0 | 12444.0 | 401.0 | 42607.0 | 0.9 |
| S28 | 8/07 | 60-59 | 175-34 | X16911 Y32466 | 58 | -1.3 | 1597.0 | 3866.0 | 9916.0 | 1681.0 | 17059.0 | 9.9 |
| S29 | 8/07 | 60-57 | 176-13 | X16757 Y32484 | 62 | -0.2 | 2619.0 | 1071.0 | 7262.0 | 2500.0 | 13452.0 | 18.6 |
| S30 | 8/09 | 60-58 | 177-00 | X16574 Y32471 | 68 | 0.4 | 3577.0 | 4194.0 | 26309.0 | 12583.0 | 46663.0 | 27.0 |
| S31 | 8/08 | 61-01 | 177-34 | X16442 Y32442 | 74 | | 168.0 | 840.0 | 6483.0 | 4562.0 | 12053.0 | 37.8 |
| T23 | 7/27 | 61-19 | 172-11 | X17591 Y32181 | 34 | -1.3 | 112300.0 | 76410.0 | 386.0 | 772.0 | 189868.0 | 0.4 |
| T25 | 7/29 | 61-20 | 173-33 | X17329 Y32216 | 40 | -1.6 | 94021.0 | 65702.0 | 0.0 | 0.0 | 159723.0 | 0.0 |
| T26 | 7/29 | 61-21 | 174-19 | X17170 Y32230 | 44 | -1.5 | 73736.0 | 82473.0 | 3411.0 | 0.0 | 159620.0 | 0.0 |
| T27 | 8/06 | 61-20 | 175-00 | X17028 Y32250 | 50 | -1.5 | 9281.0 | 27104.0 | 5503.0 | 236.0 | 42124.0 | 0.6 |
| T28 | 8/07 | 61-19 | 175-39 | X16884 Y32272 | 56 | -1.4 | 6053.0 | 13881.0 | 6941.0 | 174.0 | 27048.0 | 0.6 |
| T29 | 8/08 | 61-21 | 176-24 | X16719 Y32267 | 59 | 0.0 | 28185.0 | 1067.0 | 11431.0 | 2744.0 | 43427.0 | 6.3 |
| T30 | 8/08 | 61-20 | 176-56 | X16599 Y32278 | 64 | 0.0 | 1667.0 | 1615.0 | 8883.0 | 3069.0 | 15234.0 | 20.1 |
| U24 | 7/27 | 61-38 | 173-04 | X17396 Y32008 | 37 | -1.5 | 218322.0 | 148595.0 | 0.0 | 0.0 | 366917.0 | 0.0 |
| U25 | 7/29 | 61-40 | 173-39 | X17282 Y32007 | 38 | -1.7 | 177083.0 | 143690.0 | 0.0 | 0.0 | 320773.0 | 0.0 |
| U26 | 7/29 | 61-39 | 174-21 | X17148 Y32047 | 43 | -1.6 | 134243.0 | 116064.0 | 2553.0 | 0.0 | 252860.0 | 0.0 |
| U27 | 8/06 | 61-41 | 175-09 | X16984 Y32047 | 49 | -1.6 | 15333.0 | 31237.0 | 2921.0 | 76.0 | 49567.0 | 0.2 |
| U28 | 8/07 | 61-40 | 175-48 | X16847 Y32072 | 54 | -1.5 | 30886.0 | 26113.0 | 5574.0 | 100.0 | 62673.0 | 0.2 |
| U29 | 8/08 | 61-38 | 176-26 | X16715 Y32109 | 57 | -0.1 | 1057.0 | 3203.0 | 13657.0 | 1855.0 | 19772.0 | 9.4 |
| V23 | 7/27 | 61-59 | 172-20 | X17489 Y31739 | 29 | -1.3 | 238081.0 | 432591.0 | 0.0 | 0.0 | 670672.0 | 0.0 |
| V25 | 7/29 | 62-00 | 173-41 | X17250 Y31796 | 33 | -1.6 | 188939.0 | 245358.0 | 0.0 | 1312.0 | 435609.0 | 0.3 |
| V26 | 7/28 | 61-59 | 174-34 | X17084 Y31847 | 41 | -1.7 | 192629.0 | 219631.0 | 0.0 | 0.0 | 412260.0 | 0.0 |
| V27 | 8/06 | 61-54 | 175-15 | X16956 Y31921 | 48 | -1.6 | 14065.0 | 18314.0 | 1057.0 | 81.0 | 33517.0 | 0.2 |
| V28 | 8/07 | 61-55 | 175-44 | X16855 Y31927 | 53 | -1.6 | 40785.0 | 37043.0 | 4321.0 | 0.0 | 82150.0 | 0.0 |
| W24 | 7/28 | 62-21 | 173-10 | X17315 Y31551 | 39 | -1.3 | 318560.0 | 309106.0 | 0.0 | 0.0 | 627666.0 | 0.0 |
| W26 | 7/28 | 62-21 | 174-30 | X17077 Y31629 | 39 | -1.6 | 274304.0 | 290552.0 | 0.0 | 0.0 | 564856.0 | 0.0 |
| X23 | 7/28 | 62-39 | 172-25 | X17409 Y31305 | 28 | -1.1 | 60204.0 | 219682.0 | 0.0 | 2562.0 | 282448.0 | 0.9 |
| X25 | 7/28 | 62-39 | 174-00 | X17150 Y31417 | 39 | -1.5 | 142017.0 | 160581.0 | 0.0 | 0.0 | 302598.0 | 0.0 |
| Y24 | 7/28 | 63-00 | 173-12 | X17254 Y31148 | 37 | -1.6 | 116702.0 | 185351.0 | 0.0 | 1144.0 | 303197.0 | 0.4 |
| Z05 | 7/01 | 54-44 | 165-09 | Y34599 Z48036 | 49 | 5.1 | 0.0 | 132.0 | 0.0 | 921.0 | 1053.0 | 87.5 |

NOTE:PRE-RECRUIT = 3.1-4.0 IN. WIDTH;LARGE = 4.0 IN. OR GREATER IN WIDTH

TABLE 11 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE KOREAN HAIR CRAB WERE TAKEN

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| D10 | 6/15 | 56-03 | 162-12 | Y33891 Z46967 | 42 | 3.3 | 0.0 | 81.0 | 0.0 | 81.0 | 163.0 | 49.7 |
| E05 | 6/30 | 56-20 | 165-13 | Y34321 Z48161 | 46 | 2.1 | 0.0 | 0.0 | 0.0 | 83.0 | 83.0 | 100.0 |
| E07 | 6/22 | 56-19 | 164-02 | Y34121 Z47695 | 46 | 1.3 | 0.0 | 76.0 | 0.0 | 0.0 | 76.0 | 0.0 |
| E11 | 6/14 | 56-19 | 161-40 | Y33739 Z46749 | 34 | 3.8 | 186.0 | 124.0 | 0.0 | 0.0 | 310.0 | 0.0 |
| E12 | 6/12 | 56-16 | 160-49 | Y33626 Z46409 | 18 | 5.0 | 0.0 | 0.0 | 66.0 | 0.0 | 66.0 | 0.0 |
| F13 | 6/11 | 56-40 | 160-25 | Y33454 Z46241 | 34 | 3.4 | 0.0 | 141.0 | 70.0 | 0.0 | 211.0 | 0.0 |
| F24 | 7/23 | 56-45 | 171-56 | X18007 Z50171 | 67 | 3.5 | 52.0 | 0.0 | 0.0 | 0.0 | 52.0 | 0.0 |
| G01 | 7/08 | 57-00 | 167-41 | Y34615 Z49159 | 41 | [illegible] | 91.0 | 0.0 | 0.0 | 0.0 | 91.0 | 0.0 |
| G02 | 7/03 | 57-01 | 167-04 | Y34486 Z48911 | 41 | | 0.0 | 0.0 | 81.0 | 0.0 | 81.0 | 0.0 |
| G09 | 6/20 | 57-01 | 162-48 | Y33708 Z47193 | 32 | 2.3 | 0.0 | 0.0 | 0.0 | 76.0 | 76.0 | 100.0 |
| G11 | 6/14 | 56-59 | 161-33 | Y33524 Z46691 | 38 | 3.0 | 83.0 | 0.0 | 0.0 | 0.0 | 83.0 | 0.0 |
| G13 | 6/11 | 57-01 | 160-20 | Y33338 Z46198 | 36 | 3.4 | 146.0 | 584.0 | 584.0 | 73.0 | 1387.0 | 5.3 |
| G14 | 6/09 | 56-59 | 159-44 | Y33268 Z45960 | 32 | 3.6 | 65.0 | 65.0 | 65.0 | 0.0 | 196.0 | 0.0 |
| G18 | 7/08 | 56-58 | 168-20 | Y34761 Z49416 | 46 | | 167.0 | 83.0 | 0.0 | 0.0 | 250.0 | 0.0 |
| G19 | 7/12 | 57-10 | 168-38 | Y34762 Z49535 | 43 | | 0.0 | 0.0 | 85.0 | 0.0 | 85.0 | 0.0 |
| G21 | 7/11 | 56-51 | 169-53 | Y35103 Z49993 | 40 | | 1138.0 | 813.0 | 813.0 | 81.0 | 2845.0 | 2.8 |
| G21 | 7/21 | 57-01 | 170-10 | Y35132 Z50121 | 36 | 5.3 | 108.0 | 0.0 | 215.0 | 108.0 | 431.0 | 25.1 |
| G21 | 7/21 | 57-08 | 169-57 | Y35077 Z50065 | 25 | 5.9 | 241.0 | 964.0 | 361.0 | 0.0 | 1566.0 | 0.0 |
| G22 | 7/22 | 57-06 | 170-27 | X18660 Y35118 | 25 | 5.4 | 526.0 | 3816.0 | 3553.0 | 526.0 | 8421.0 | 6.2 |
| H12 | 6/12 | 57-21 | 160-56 | Y33310 Z46433 | 32 | 3.3 | 85.0 | 169.0 | 0.0 | 0.0 | 254.0 | 0.0 |
| H13 | 6/11 | 57-22 | 160-12 | Y33201 Z46136 | 32 | 3.5 | 172.0 | 86.0 | 86.0 | 0.0 | 344.0 | 0.0 |
| H15 | 6/07 | 57-20 | 159-02 | X18724 Z45673 | 27 | | 0.0 | 76.0 | 0.0 | 0.0 | 76.0 | 0.0 |
| H18 | 7/08 | 57-19 | 168-22 | Y34640 Z49410 | 41 | | 0.0 | 1053.0 | 0.0 | 0.0 | 1053.0 | 0.0 |
| H19 | 7/12 | 57-20 | 169-00 | Y34770 Z49659 | 40 | | 0.0 | 164.0 | 164.0 | 0.0 | 328.0 | 0.0 |
| H20 | 7/12 | 57-19 | 169-35 | Y34903 Z49890 | 35 | | 78.0 | 625.0 | 1953.0 | 234.0 | 2891.0 | 8.1 |
| H21 | 7/21 | 57-19 | 170-11 | X18715 Y35008 | 27 | 5.4 | 0.0 | 526.0 | 658.0 | 263.0 | 1447.0 | 18.2 |
| I01 | 7/08 | 57-40 | 167-47 | Y34356 Z49137 | 36 | 3.4 | 0.0 | 80.0 | 0.0 | 0.0 | 80.0 | 0.0 |
| I11 | 6/14 | 57-41 | 161-24 | Y33257 Z46613 | 28 | 3.7 | 313.0 | 313.0 | 234.0 | 0.0 | 860.0 | 0.0 |
| I12 | 6/13 | 57-40 | 160-53 | Y33190 Z46410 | 31 | 3.2 | 325.0 | 163.0 | 0.0 | 0.0 | 488.0 | 0.0 |
| I13 | 6/10 | 57-38 | 160-16 | Y33120 Z46159 | 29 | 3.2 | 136.0 | 0.0 | 0.0 | 0.0 | 136.0 | 0.0 |
| I19 | 7/13 | 57-49 | 168-45 | Y34460 Z49466 | 38 | 2.7 | 0.0 | 0.0 | 81.0 | 0.0 | 81.0 | 0.0 |
| I19 | 7/13 | 57-38 | 169-01 | Y34616 Z49608 | 37 | 2.7 | 81.0 | 81.0 | 244.0 | 163.0 | 569.0 | 28.6 |
| I20 | 7/12 | 57-30 | 169-19 | Y34753 Z49751 | 37 | 2.5 | 0.0 | 0.0 | 81.0 | 0.0 | 81.0 | 0.0 |
| I20 | 7/13 | 57-41 | 169-38 | Y34685 Z49796 | 39 | | 0.0 | 153.0 | 0.0 | 0.0 | 153.0 | 0.0 |

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

TABLE 11 DATA FROM THE 1991 EASTERN BERING SEA TRAWL SURVEY WHERE KOREAN HAIR CRAB WERE TAKEN (Cont)

| | | | | | | | NUMBER PER SQUARE MILE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | MALES (SEE NOTE) | | | | |
| STATION | DATE | LATITUDE | LONGITUDE | LORAN C | DEPTH FTMS | BOTTOM TEMP | FEMALES | SMALL | PRERECRUIT | LARGE | TOTAL | PERCENT LARGE |
| I21 | 7/20 | 57-31 | 169-58 | X18698 Y34847 | 37 | 2.7 | 0.0 | 0.0 | 79.0 | 0.0 | 79.0 | 0.0 |
| J01 | 7/08 | 58-00 | 167-48 | Y34184 Z49081 | 36 | 2.4 | 0.0 | 0.0 | 81.0 | 0.0 | 81.0 | 0.0 |
| J20 | 7/13 | 57-50 | 169-20 | Y34539 Z49654 | 37 | | 85.0 | 0.0 | 85.0 | 0.0 | 170.0 | 0.0 |
| K03 | 7/04 | 58-19 | 166-32 | Y33787 Z48552 | 24 | 3.7 | 0.0 | 0.0 | 0.0 | 165.0 | 165.0 | 100.0 |
| K18 | 7/08 | 58-19 | 168-28 | Y34095 Z49226 | 36 | | 0.0 | 0.0 | 0.0 | 81.0 | 81.0 | 100.0 |
| K19 | 7/13 | 58-19 | 169-06 | Y34182 Z49423 | 36 | 1.5 | 0.0 | 0.0 | 120.0 | 0.0 | 120.0 | 0.0 |
| L19 | 7/13 | 58-39 | 169-09 | Y33948 Z49320 | 33 | 1.6 | 0.0 | 0.0 | 123.0 | 0.0 | 123.0 | 0.0 |
| M01 | 7/07 | 59-00 | 167-53 | Y33561 Z48851 | 21 | 4.0 | 0.0 | 81.0 | 0.0 | 0.0 | 81.0 | 0.0 |
| M19 | 7/14 | 59-00 | 169-11 | Y33701 Z49210 | 28 | 2.5 | 0.0 | 0.0 | 0.0 | 317.0 | 317.0 | 100.0 |
| N18 | 7/07 | 59-19 | 168-34 | Y33418 Z48951 | 22 | | 85.0 | 0.0 | 171.0 | 0.0 | 256.0 | 0.0 |
| O18 | 7/07 | 59-39 | 168-37 | Y33182 Z48862 | 22 | | 0.0 | 0.0 | 78.0 | 0.0 | 78.0 | 0.0 |
| P21 | 7/17 | 60-01 | 170-37 | X18061 Y33047 | 35 | -0.1 | 85.0 | 0.0 | 0.0 | 0.0 | 85.0 | 0.0 |
| R19 | 7/14 | 60-39 | 169-26 | Y32512 Z48746 | 22 | 1.7 | 0.0 | 357.0 | 0.0 | 0.0 | 357.0 | 0.0 |
| S18 | 7/06 | 60-59 | 168-41 | Y32220 Z48500 | 19 | | 81.0 | 0.0 | 0.0 | 0.0 | 81.0 | 0.0 |
| Z04 | 7/01 | 54-49 | 165-31 | Y34642 Z48174 | 91 | | 0.0 | 65.0 | 0.0 | 0.0 | 65.0 | 0.0 |

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