Northwest and
Alaska
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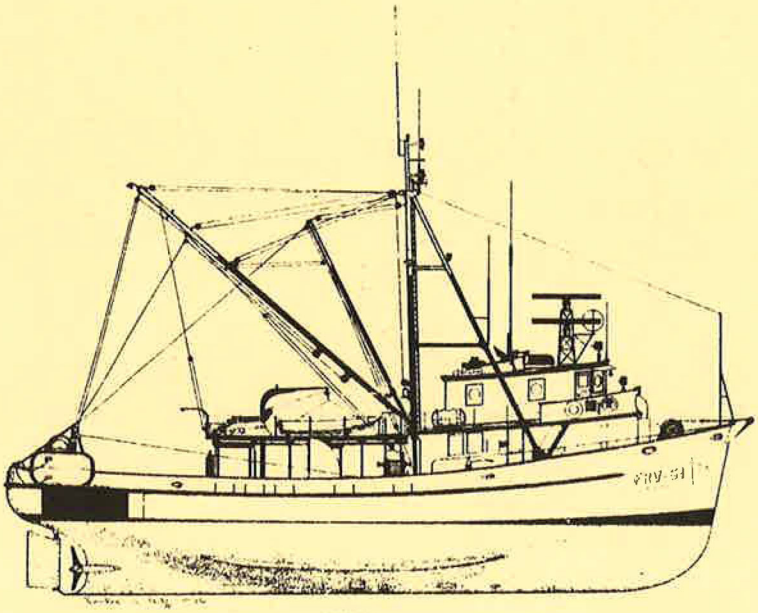
U.S. DEPARTMENT OF COMMERCE

NWAFC PROCESSED REPORT 80-13

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

September 1980



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Northwest and Alaska Fisheries Center Processed Report 80-13

Report to Industry on the

1980

Eastern Bering Sea

King and Tanner Crab Survey

by

R.S. Otto, R.A. MacIntosh, L.A. Gardner and T.M. Armetta

National Marine Fisheries Service
Northwest and Alaska Fisheries Center
Kodiak Facility
P.O. Box 1638
Kodiak, Alaska 99615

September 1980

THE 1980 EASTERN BERING SEA CRAB SURVEY

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

Survey Area and Methods

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

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

Interpreting Tables and Figures

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

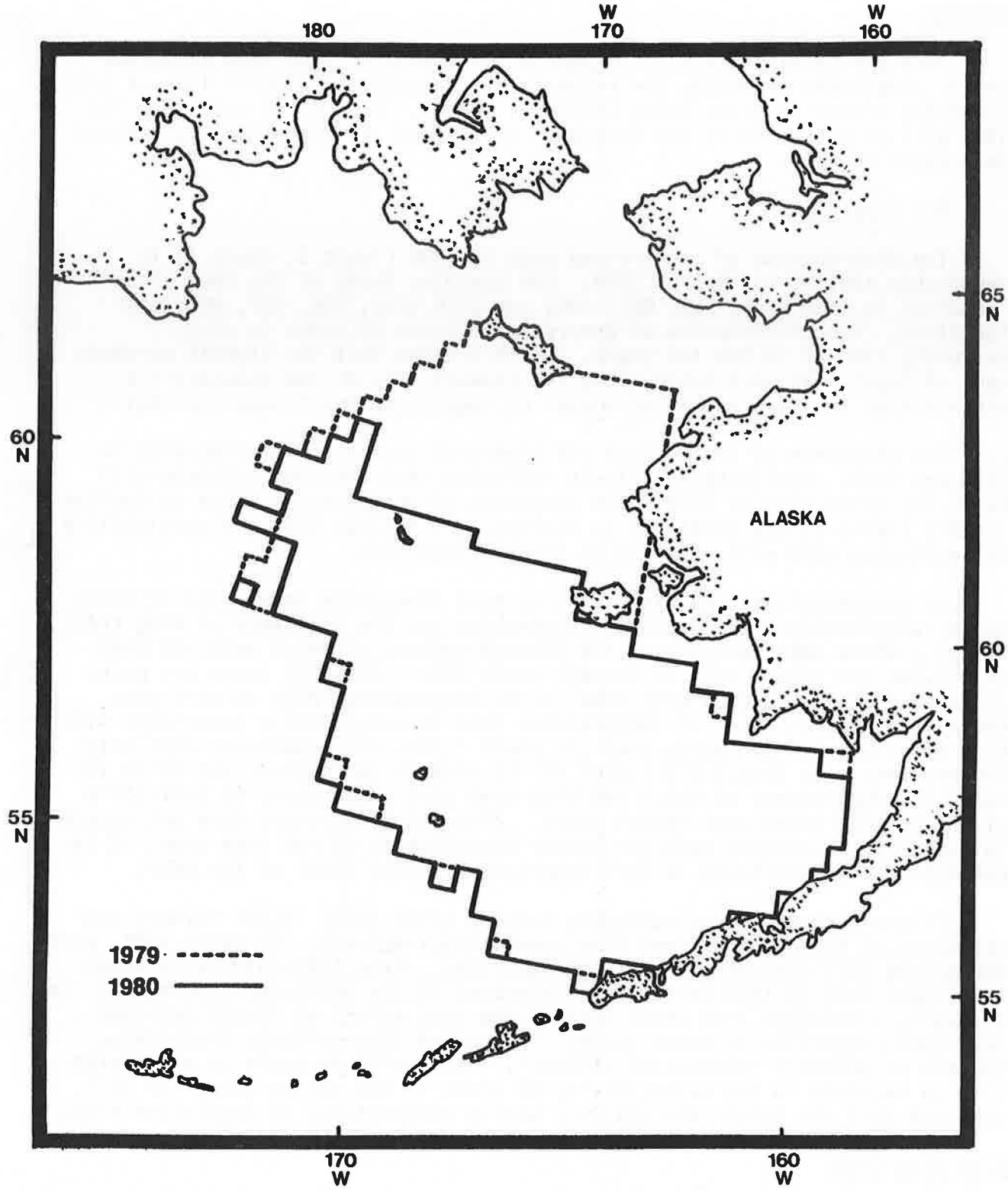


Figure 1 -- NMFS eastern Bering Sea crab survey areas in 1979 and 1980.

Results

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

Red King Crab:

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

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

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

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

Blue King Crab

This species is found in significant concentrations in the vicinity of the Pribilof Islands and St. Matthew Island (Charts 4, 5, and 6). Some blue crab are also found southwest of St. Lawrence Island in the area near the international date line (see Table 4). Populations are generally very sparse in this area, and the crab are mostly small.

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

RED KING CRABS

YEAR	PRE-RECRUITS*	LEGALS*
1969	19.5	9.8
1970	8.4	5.3
** 1972	8.3	5.4
1973	25.9	10.9
1974	31.2	20.8
1975	29.6	21.2
1976	49.3	32.7
1977	63.9	37.6
1978	52.5	46.6
1979	38.8	45.5

PRIBILOF BLUE KING CRABS

YEAR	PRE-RECRUITS*	LEGALS*
1974	3.1	1.9
1975	8.0	7.5
1976	2.1	3.9
1977	2.2	9.4
1978	5.6	4.3
1979	1.5	4.6

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

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

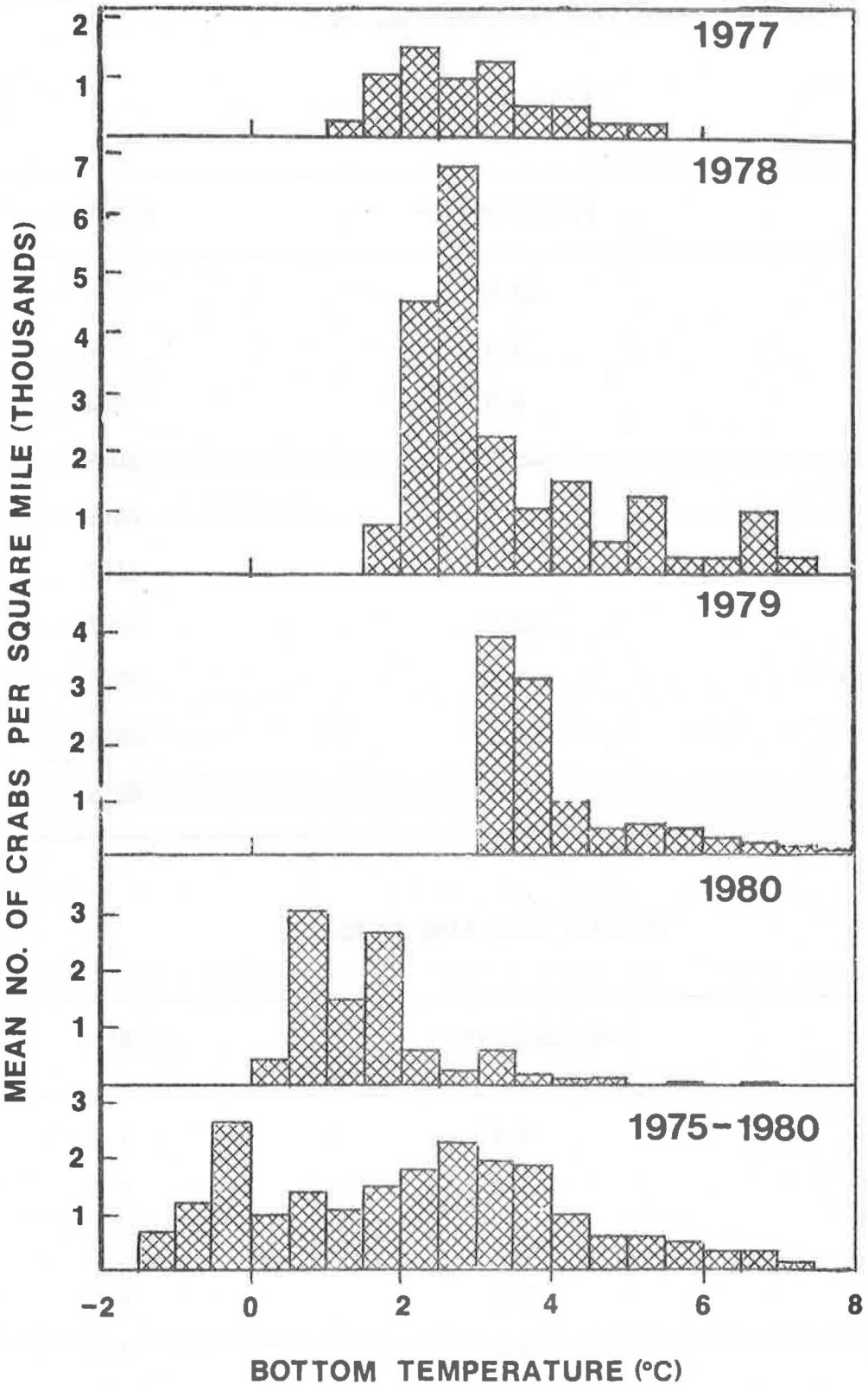


Figure 2. -- Average number of legal-sized male red king crab (Paralithodes camtschatica) per square mile found at various bottom temperatures in the 1975-1980 NMFS Bering Sea surveys. Data are summarized in 0.5 degree intervals.

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

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

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

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

Bairdi Tanner Crab:

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

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

The relationship between the average number of legal bairdi Tanner crab per square mile and bottom temperature during the past four years is shown in Fig. 4. The temperatures at which bairdi crab have been encountered increased from 1977-1979, reflecting the trend toward milder weather during the same period. Generally, colder conditions prevailed in 1980. Differences in bottom temperatures from 1979 to 1980 do not, however, seem to explain difference in the distribution of C. bairdi. The bottom panel of Fig. 4 shows that the highest catches of bairdi Tanner crabs have occurred in the 0-5° range. There

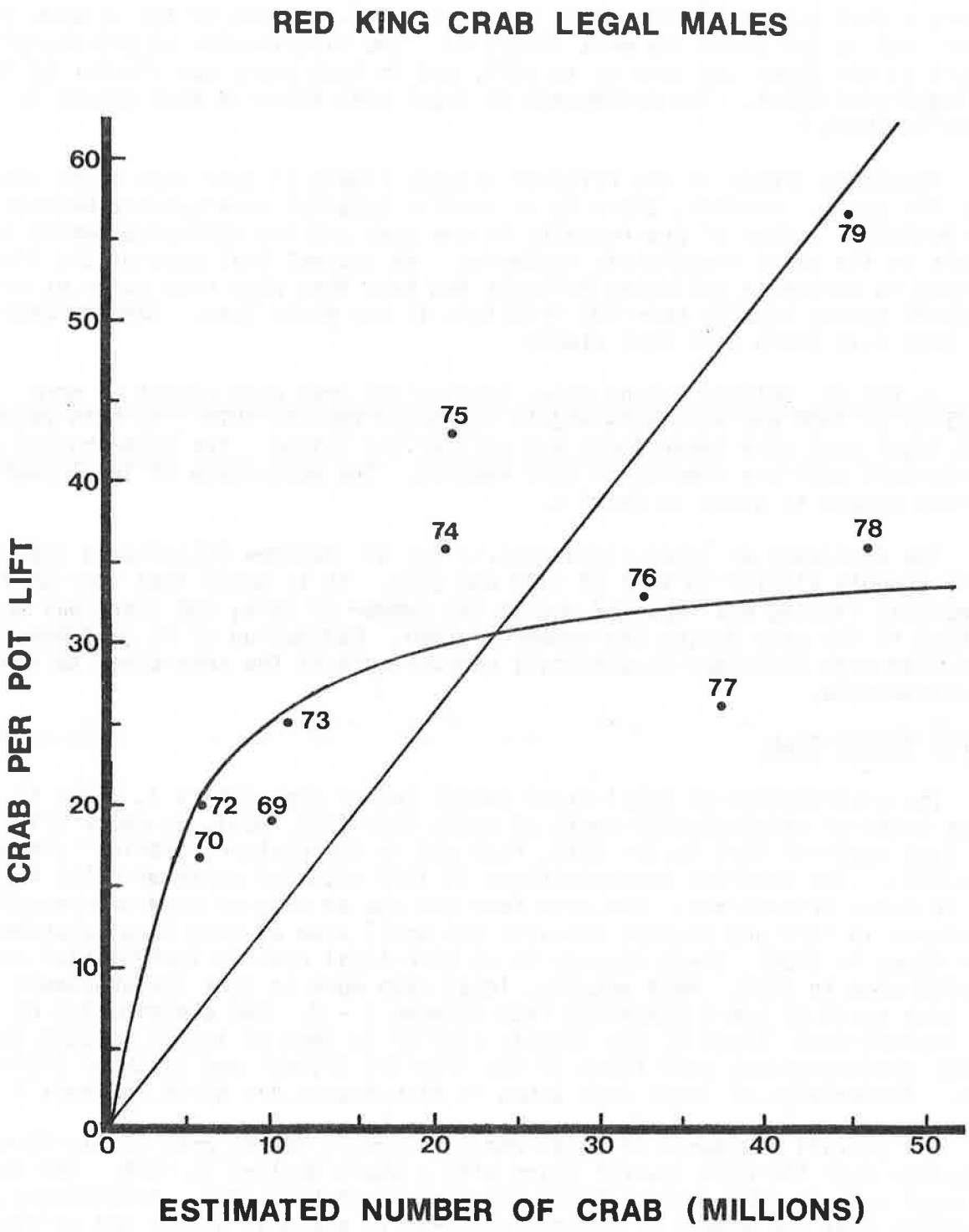


Figure 3. -- Relationship between the season average number of Red King Crab (Paralithodes camtschatica) taken per pot in the U.S. Fishery and estimates of stock size from NMFS trawl surveys in the preceding summer.

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

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

[1]Legal size for calendar year 1977.

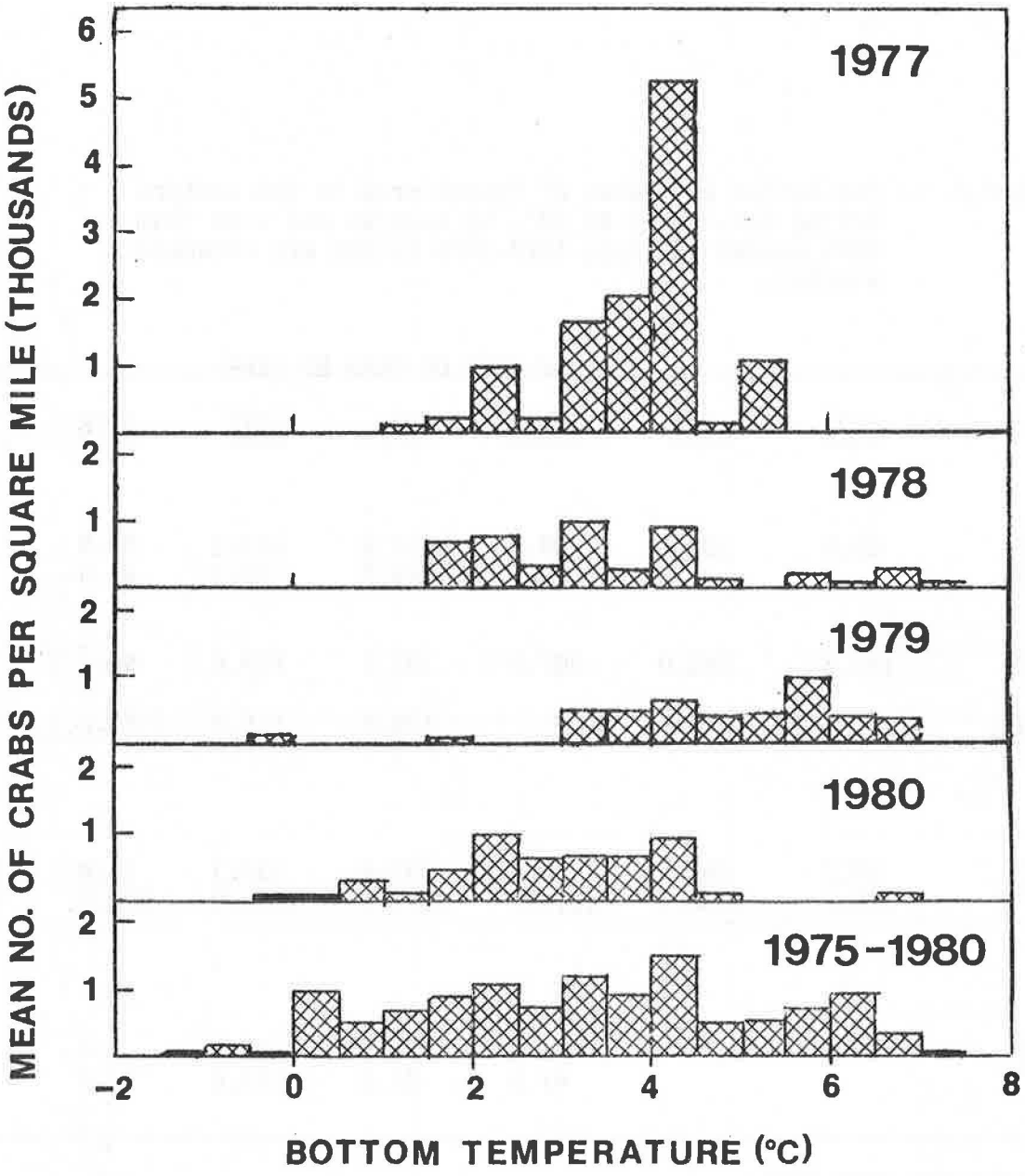


Figure 4. -- Average number of legal-sized male Tanner crab (Chionoecetes bairdi) per square mile found at various bottom temperatures in the 1975-1980 NMFS Bering Sea Surveys. Data Are summarized in 0.5 degree intervals.

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

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

Opilio and Hybrid Tanner Crab:

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

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

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

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

Bottom Temperatures

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

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

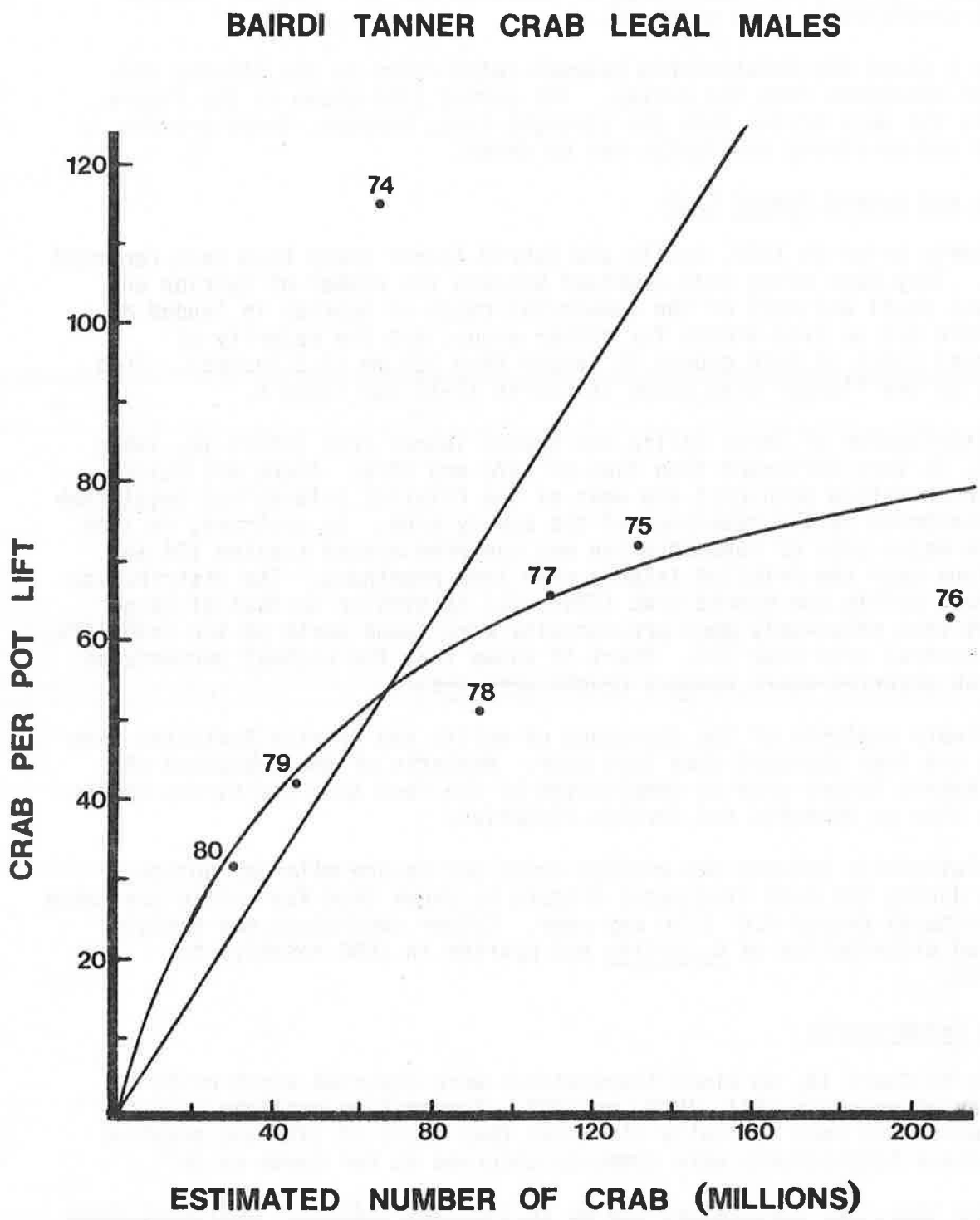


Figure 5. -- Relationship between the season average number of Tanner crab (Chionoecetes bairdi) taken per pot in the U.S. Fishery and estimates of stock size from NMFS trawl surveys in the preceding summer.

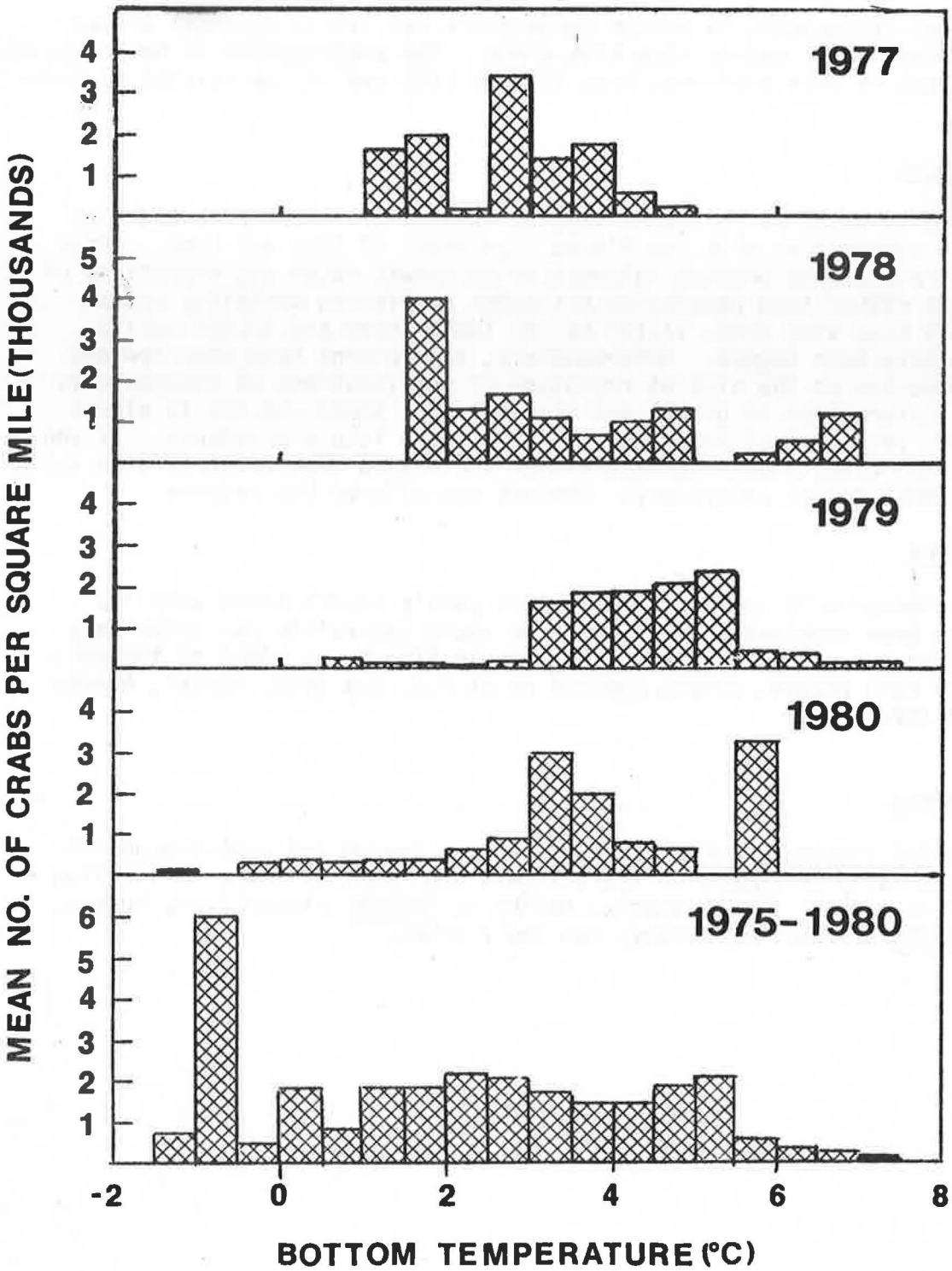


Figure 6. -- Average number of large-sized male Tanner crab (Chionoecetes opilio) per square mile found at various bottom temperatures in the 1975-1980 NMFS Bering Sea surveys. Data Are summarized in 0.5 degree intervals.

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

Tagging Studies

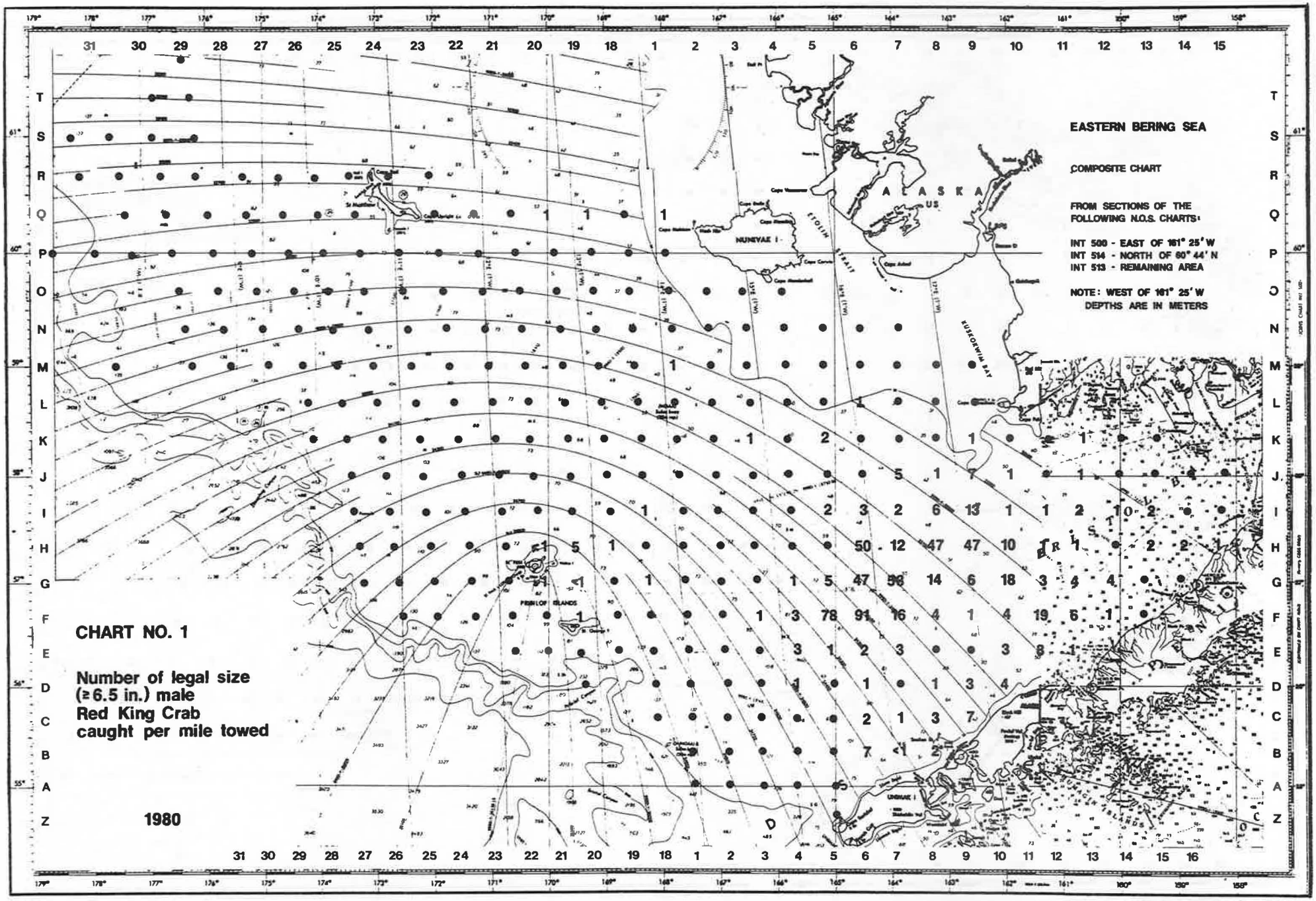
Starting in 1978, we initiated tagging studies of Tanner crab and blue king crab in cooperation with the Alaska Department of Fish and Game. These studies are intended to produce information on growth rates and migrations of these species rather than population estimates or fishing mortality rates. To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

Questionnaires

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

Acknowledgement

Successful completion of the annual eastern Bering Sea crab-groundfish survey is crucially dependent on the skippers and crews of the participating vessels. This year we extend special thanks to OREGON skipper Perry Buholm, OCEAN HARVESTER skipper Oluf Vedoy, and their crews.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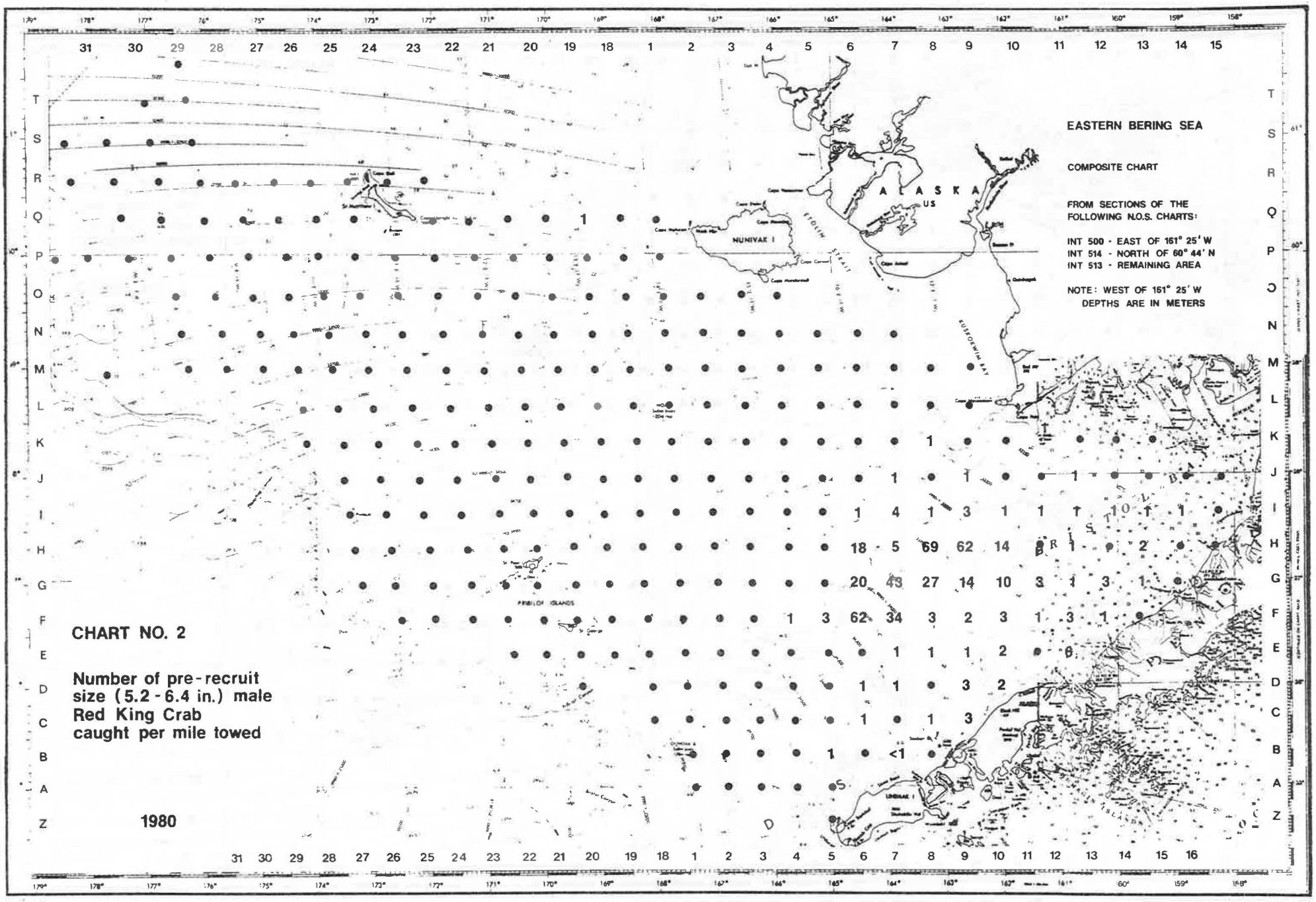
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
ALASKA
NUNIVAK I.
ETOLIN STRAIT
KUSKOKWIM BAY
PRIBILOF ISLANDS
UNIMAK I.
CHART NO. 1
Number of legal size (≥6.5 in.) male Red King Crab caught per mile towed
1980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COMPOSITE CHART
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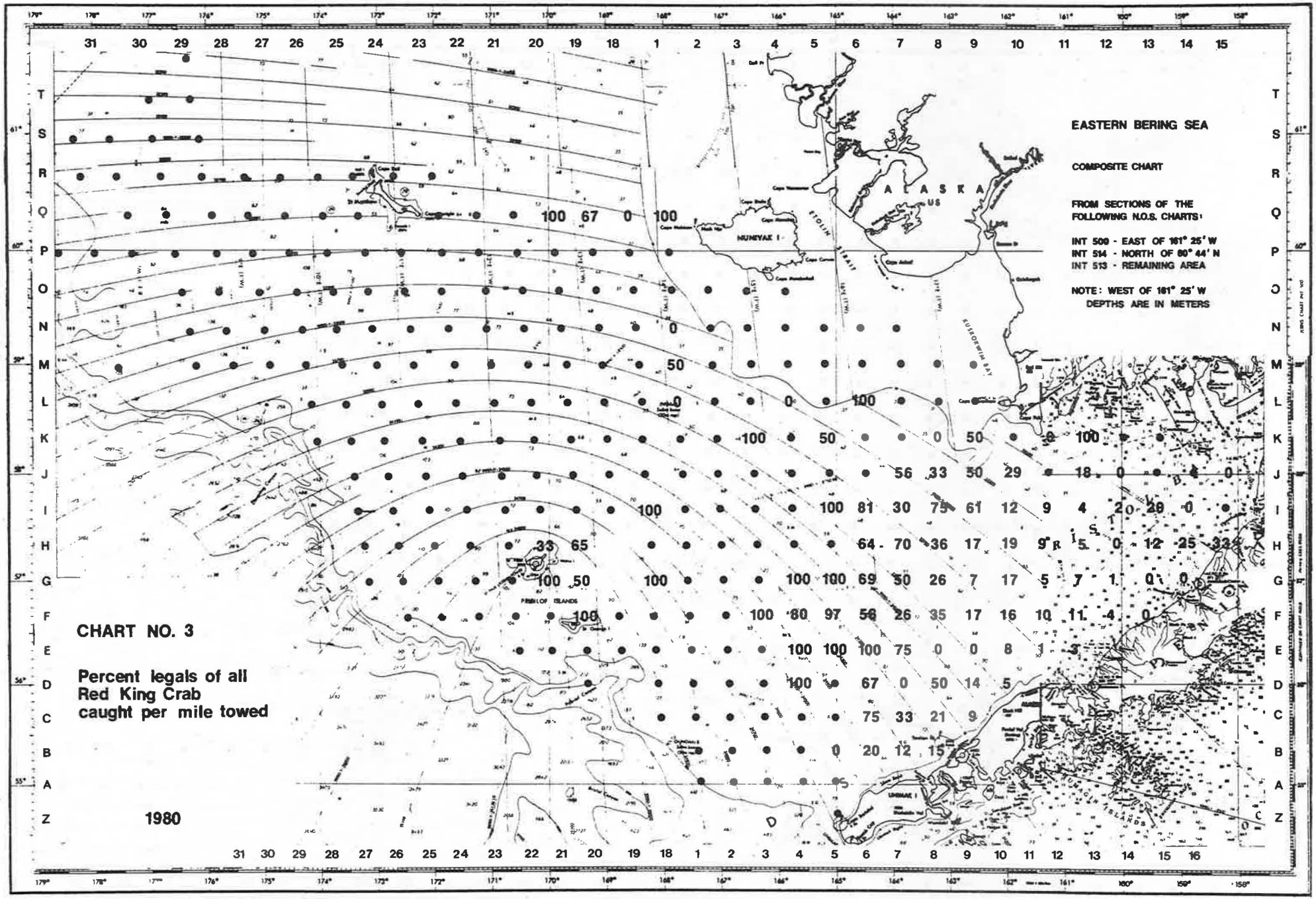
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
ALASKA
US
NUNIVAK I
ETOLIN STRAIT
KUSKOKWIM BAY
PRIBILOF ISLANDS
CHART NO. 2
Number of pre-recruit size (5.2 - 6.4 in.) male Red King Crab caught per mile towed
1980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COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
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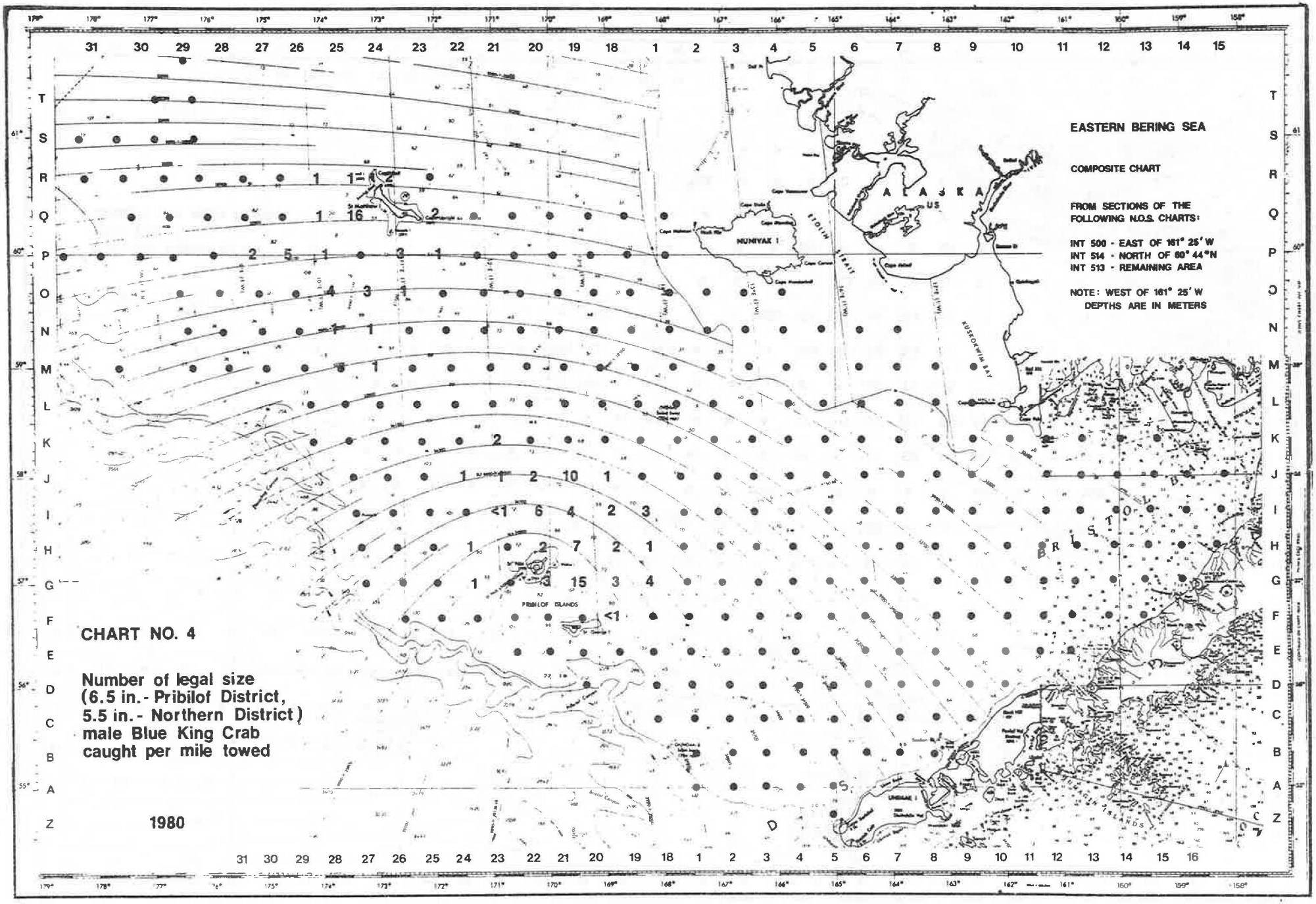
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 3
Percent legals of all Red King Crab caught per mile towed
1980
ALASKA
NUNIVAK I.
PRIBILOF ISLANDS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COMPOSITE CHART
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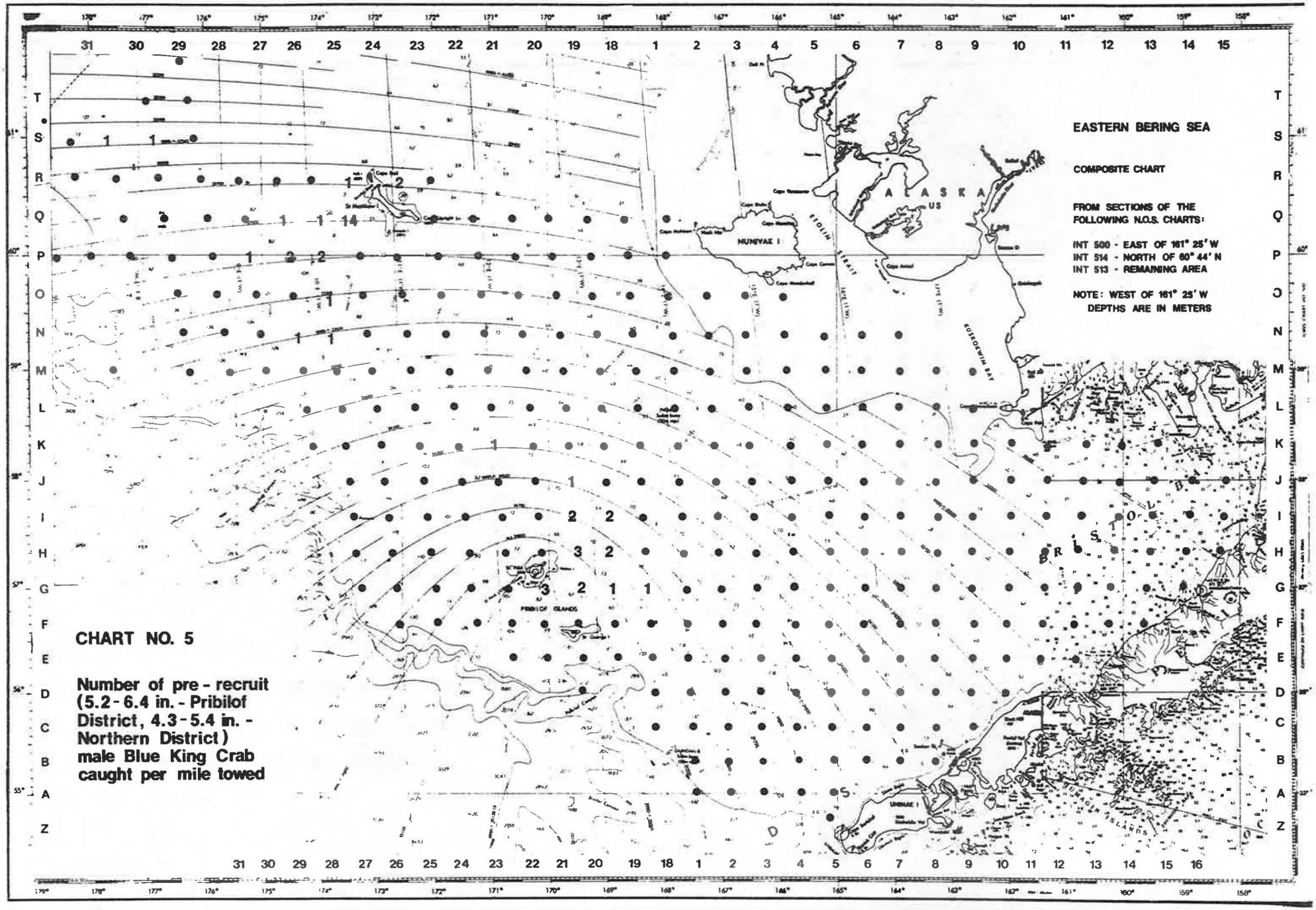
INT 514 - NORTH OF 60° 44°N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 4
Number of legal size (6.5 in.- Pribilof District, 5.5 in.- Northern District) male Blue King Crab caught per mile towed
1980
PRIBILOF ISLANDS
NUNIVAK I
ALASKA
KUSKOKWIM BAY
BRISTOL BAY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COMPOSITE CHART
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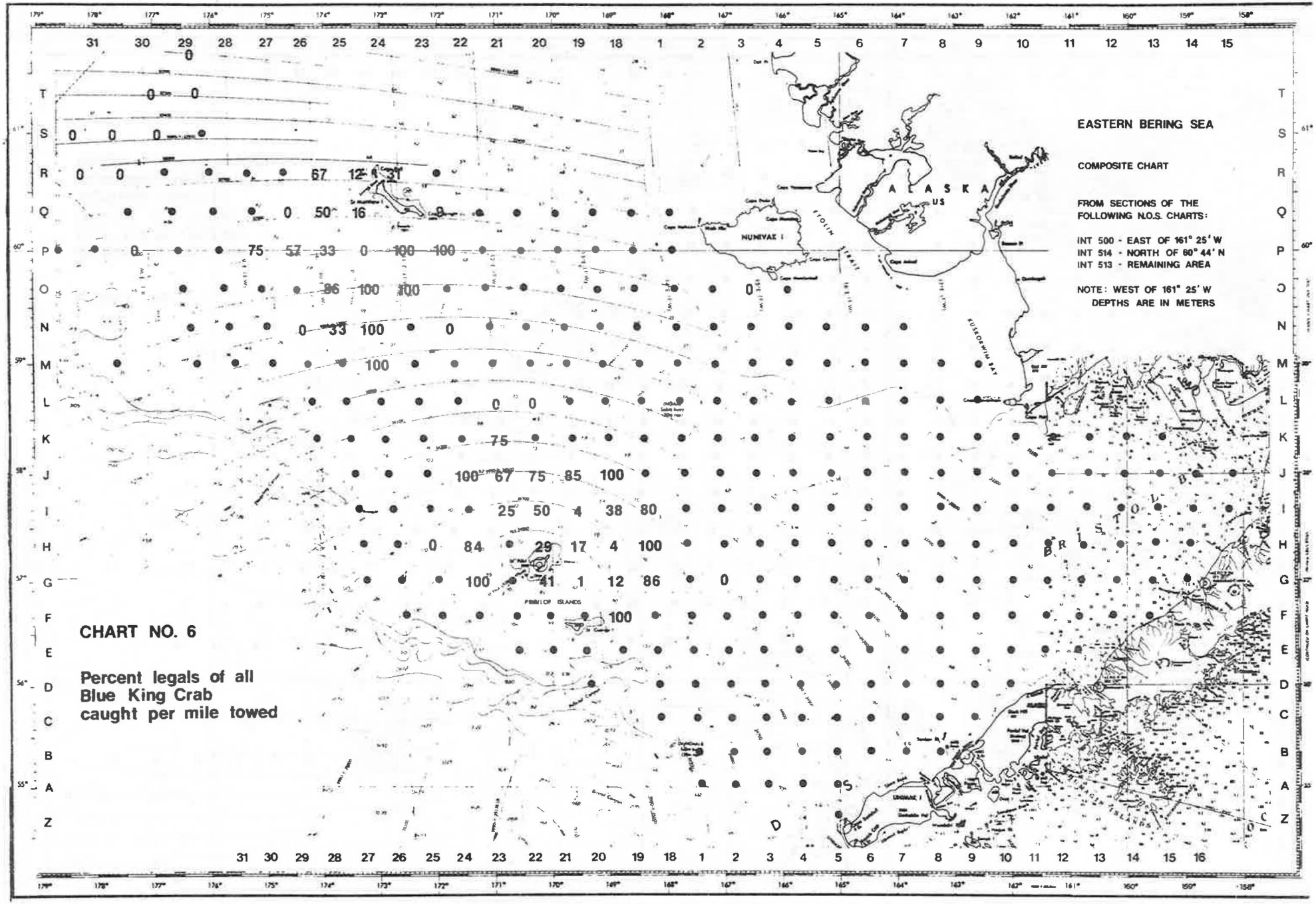
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
ALASKA
HUNIVAK I
KUSKOKWIM BAY
PRIBILOF ISLANDS
CHART NO. 5
Number of pre-recruit (5.2-6.4 in. - Pribilof District, 4.3-5.4 in. - Northern District) male Blue King Crab caught per mile towed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COMPOSITE CHART
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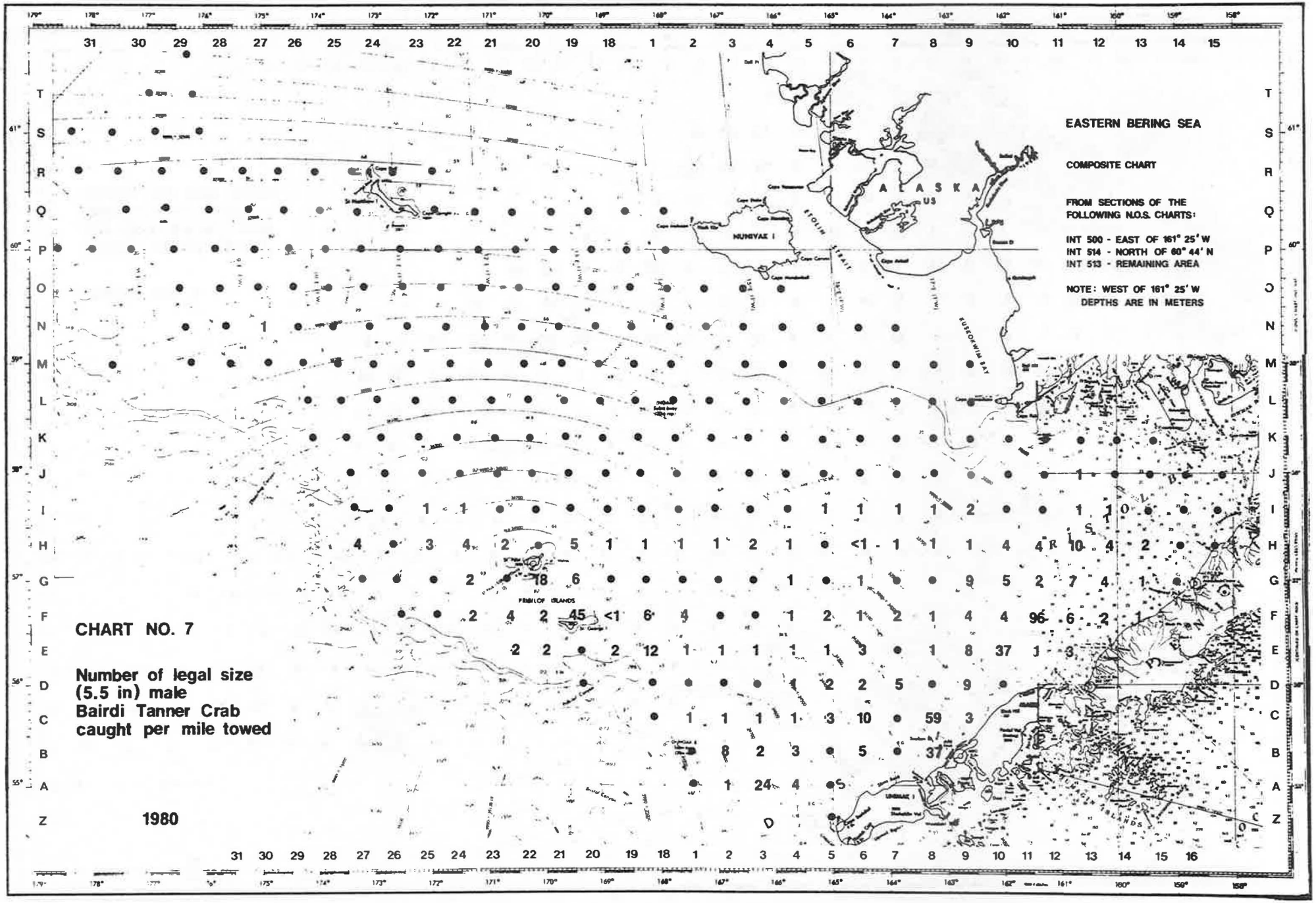
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 6
Percent legals of all Blue King Crab caught per mile towed
ALASKA
NUNIVAK I
PRIBILOF ISLANDS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COMPOSITE CHART
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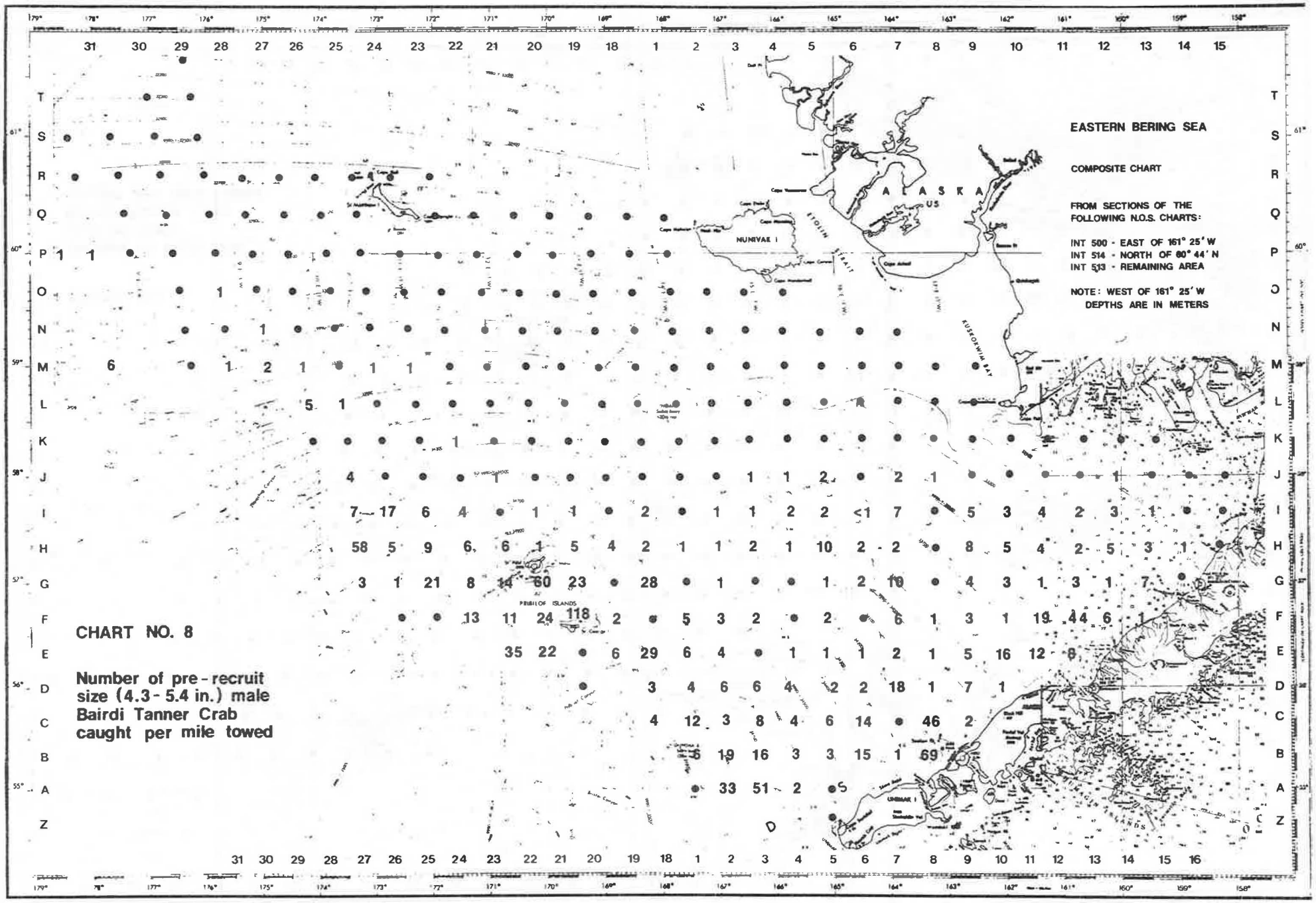
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 7
Number of legal size (5.5 in) male Bairdi Tanner Crab caught per mile towed
1980
ALASKA
NUNIVAK I
KUSKOKWIM BAY
PRIBILOF ISLANDS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COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
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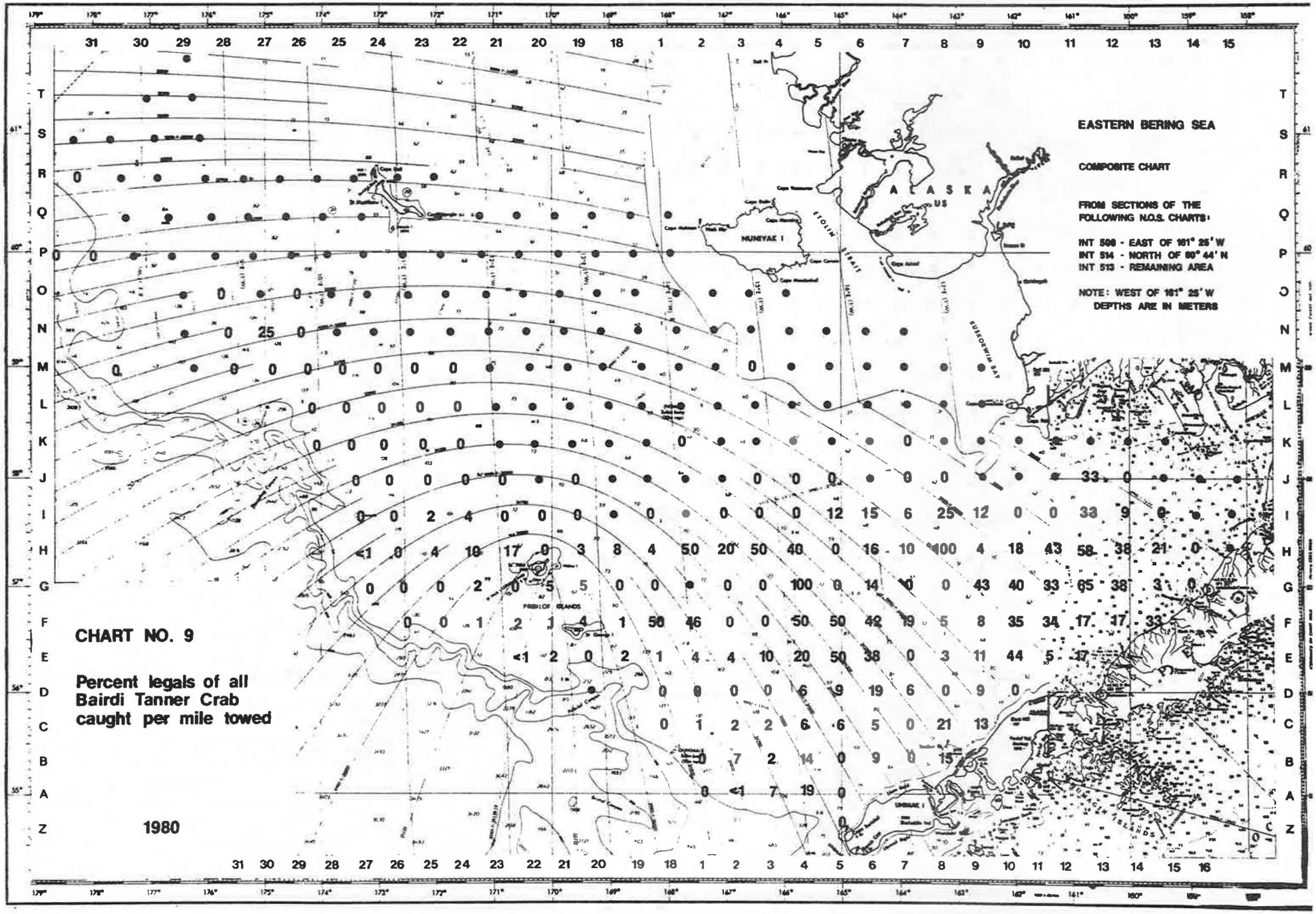
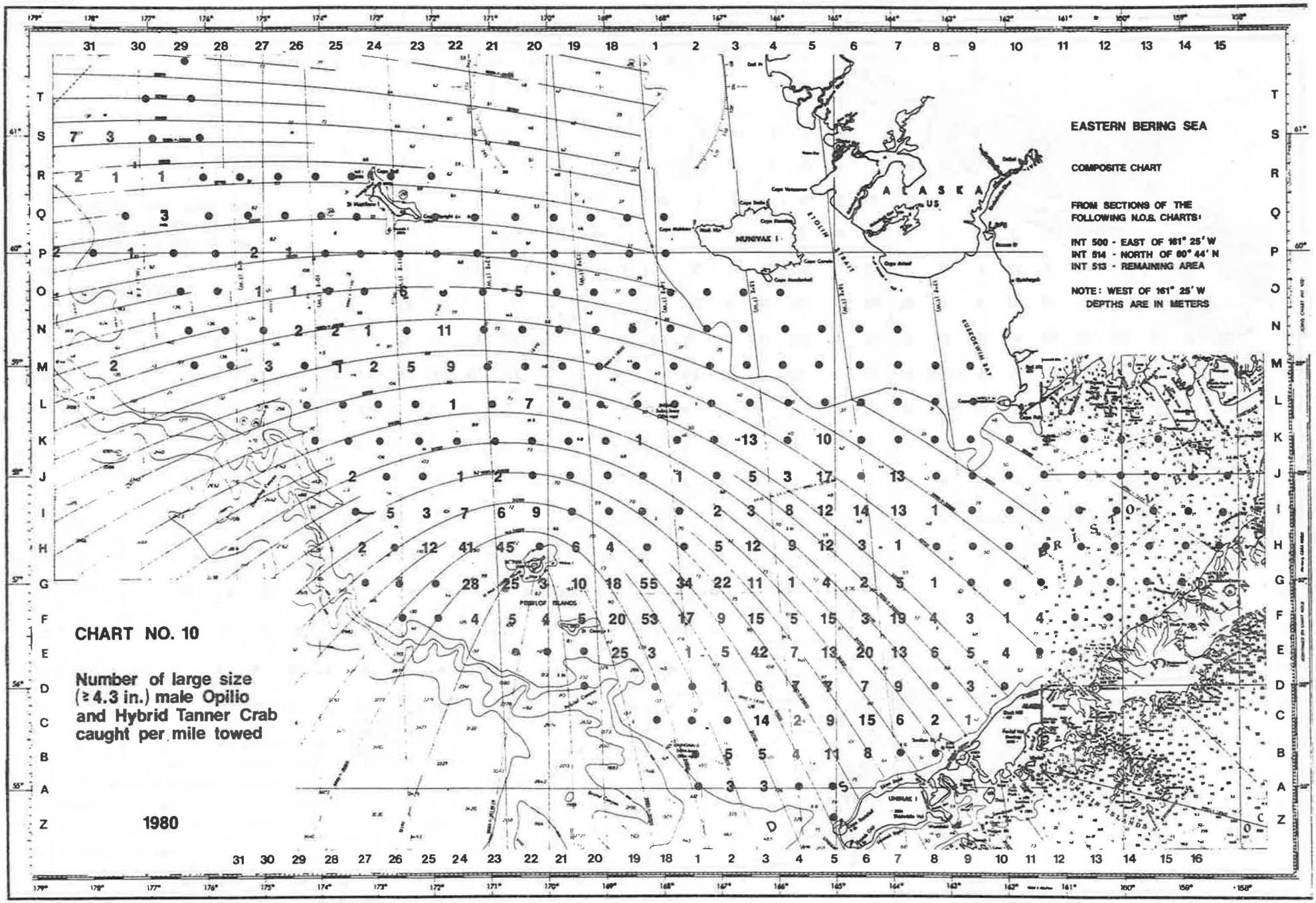
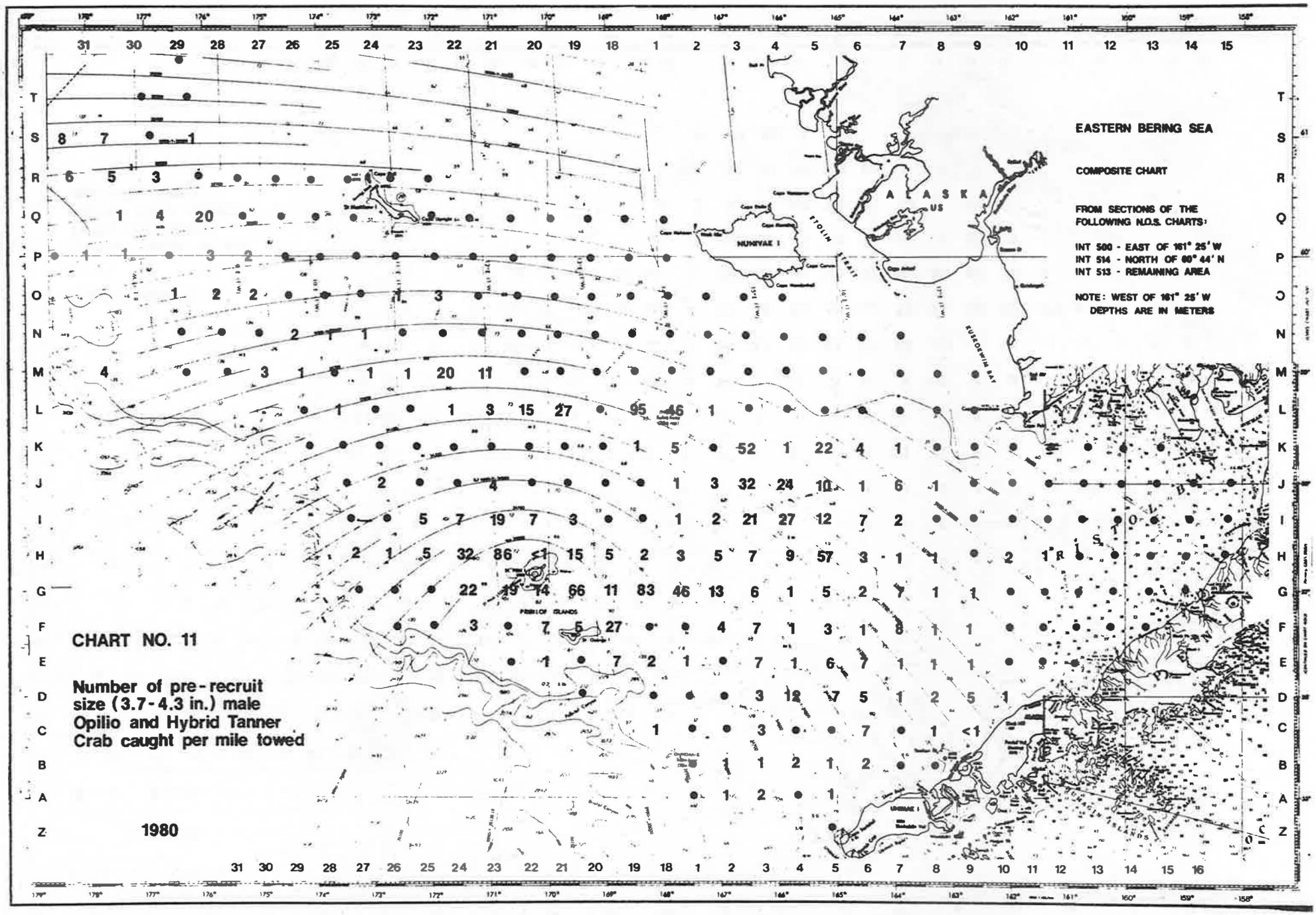
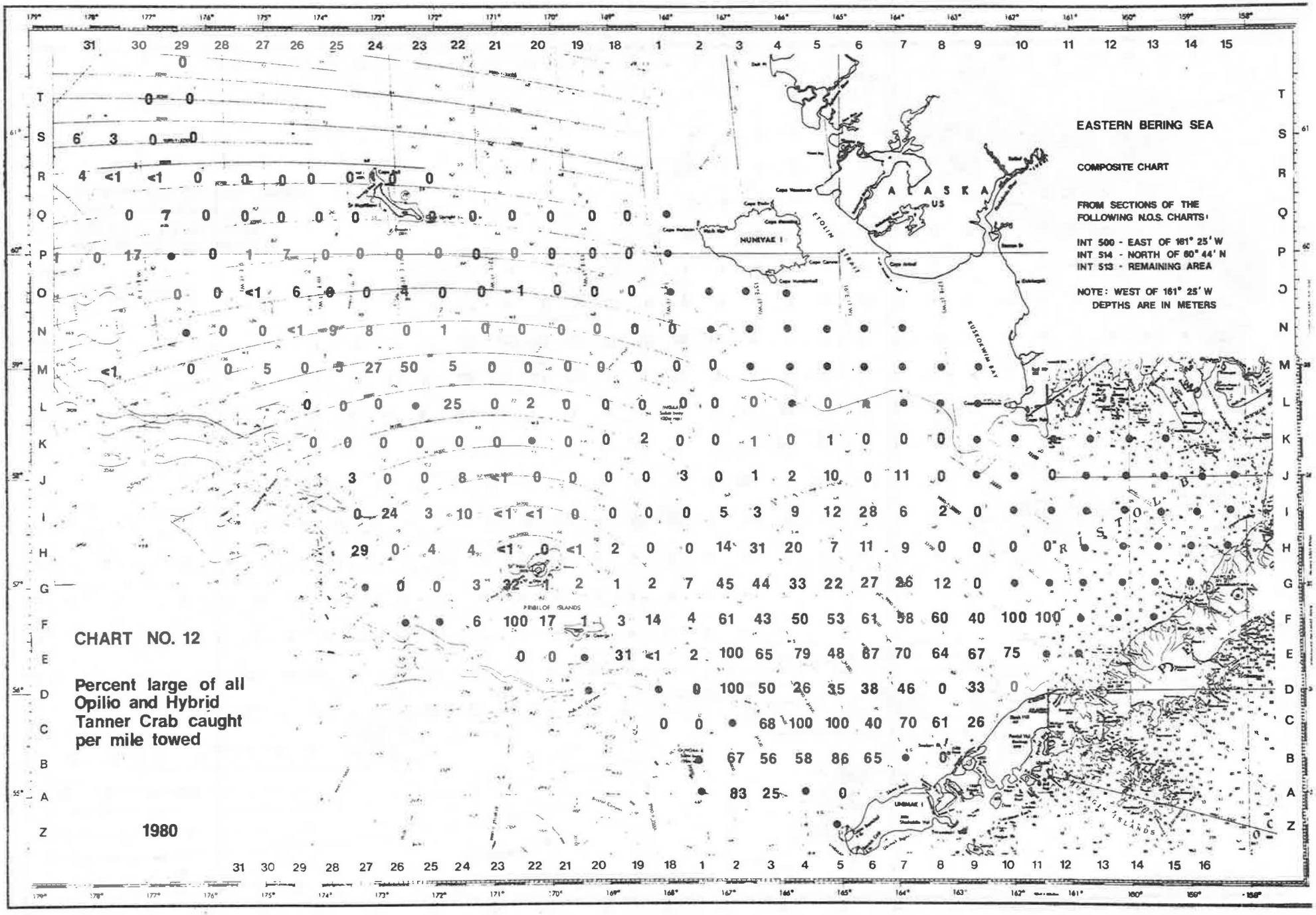
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
ALASKA
NUNIVAK I
ETOLIN STRAIT
KUSKOKWIM BAY
PRIBILOF ISLANDS
CHART NO. 8
Number of pre-recruit size (4.3-5.4 in.) male Bairdi Tanner Crab caught per mile towed


EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 9
Percent legals of all Bairdi Tanner Crab caught per mile towed
1980
ALASKA
US
NUNIVAK I
ETOLIN STRAIT
KUSKOKWIM BAY
PRIBILOF ISLANDS


EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 10
Number of large size (≥ 4.3 in.) male Opilio and Hybrid Tanner Crab caught per mile towed
1980
ALASKA
U.S.
NUNIVAK I.
PRIBILOF ISLANDS
UNIMAK I.
ALEUTIAN ISLANDS


EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 11
Number of pre-recruit size (3.7-4.3 in.) male Opilio and Hybrid Tanner Crab caught per mile towed
1980
ALASKA
NUNIVAK I
ETOLIN STRAIT
KUSKOKWIM BAY
PRIBILOF ISLANDS
UNIMAK I


EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 12
Percent large of all Opilio and Hybrid Tanner Crab caught per mile towed
1980
ALASKA
NUNIVAK I
PRIBILOF ISLANDS
UNIMAK I

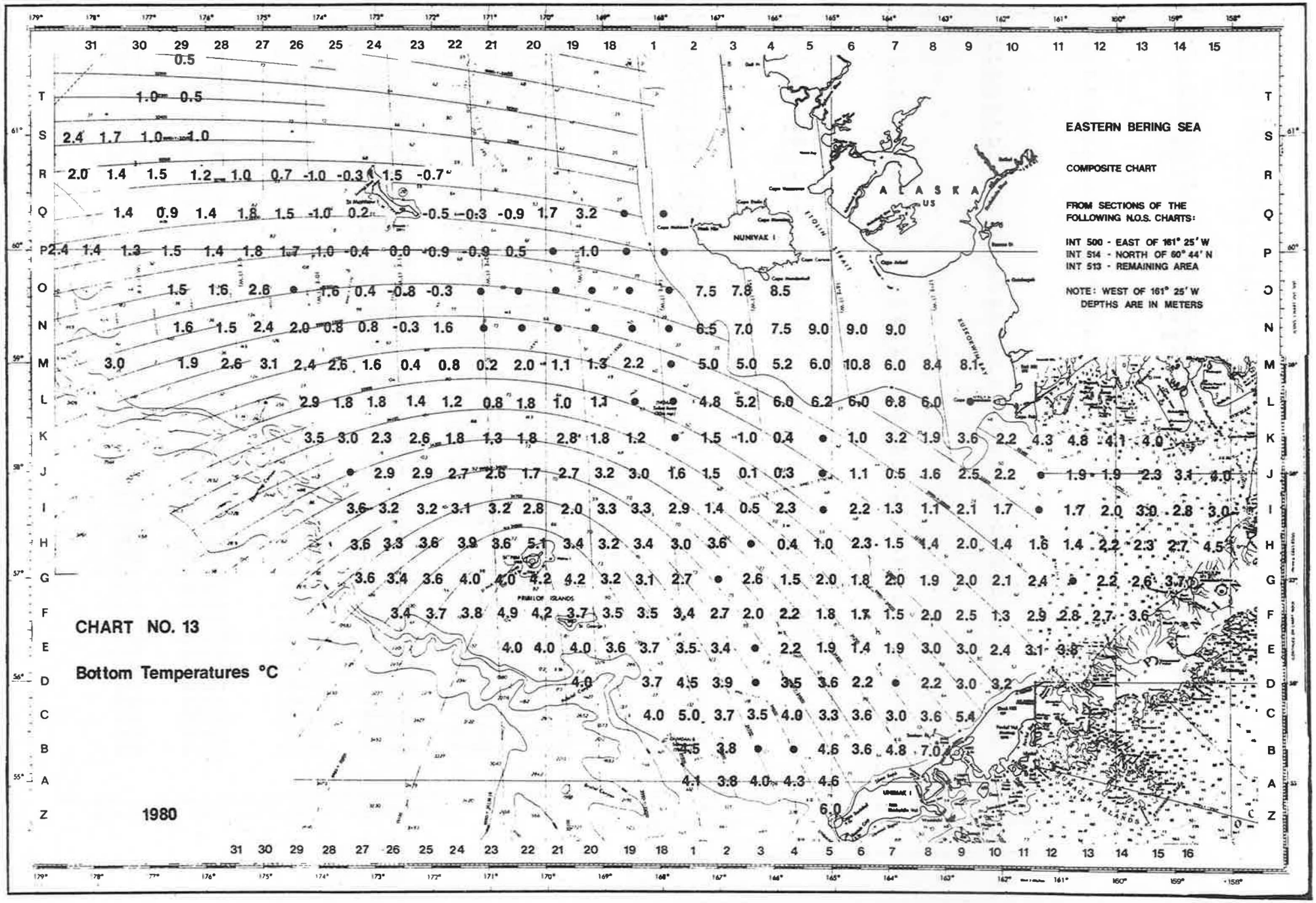

EASTERN BERING SEA
COMPOSITE CHART
FROM SECTIONS OF THE FOLLOWING N.O.S. CHARTS:
INT 500 - EAST OF 161° 25' W
INT 514 - NORTH OF 60° 44' N
INT 513 - REMAINING AREA
NOTE: WEST OF 161° 25' W DEPTHS ARE IN METERS
CHART NO. 13
Bottom Temperatures °C
1980
ALASKA
NUNIVAK I
PRIBILOF ISLANDS

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
B05	06/22	55:21	165:10	X18428 Y48088	53	4.6	0.	0.	1.	0.	1.	0.0
B06	06/22	55:20	164:35	X18448 Y47367	55	3.6	27.	0.	0.	7.	34.	20.5
B07	06/22	55:20	164:00	X18465 Y47655	41	4.0	1.	0.	0.	1.	2.	50.0
B07	07/07	55:20	164:01	Y34336 Z47657	38	5.6	4.	0.	1.	0.	5.	0.0
B08	05/31	55:20	163:25	X47430 Y34243	28		22.	0.	0.	3.	26.	12.9
B08	07/07	55:20	163:26	Y34246 Z47434	25	7.0	1.	0.	0.	1.	2.	50.0
C06	05/27	55:40	164:36	X47894 Y34368	51	3.6	0.	0.	1.	2.	3.	75.0
C07	05/28	55:41	165:00	X47661 Y34264	50	3.0	2.	0.	0.	1.	2.	33.3
C08	05/31	55:40	163:24	X47430 Y34171	42	3.2	10.	0.	1.	3.	14.	21.4
C08	07/07	55:40	163:24	Y34172 Z47432	42	4.0	8.	0.	1.	2.	12.	21.4
C09	05/31	58:40	162:51	X47214 Y34085	27	3.9	108.	33.	6.	14.	161.	8.7
C09	07/07	55:40	162:52	Y34090 Z47228	29	7.0	2.	1.	0.	0.	2.	0.0
D04	05/12	56:00	165:47	X18552 Y34501	59	3.5	0.	0.	0.	1.	1.	100.0
D06	05/16	56:00	164:35	Y34286 Z47091	50	2.2	0.	0.	1.	1.	2.	66.7
D07	05/28	55:59	163:59	X47670 Y34198	43		0.	0.	1.	0.	1.	0.0
D08	05/16	56:00	163:24	Y34097 Z47439	48	2.2	1.	0.	0.	1.	1.	50.0
D09	05/31	56:00	162:49	X47207 Y34001	42	3.0	13.	1.	3.	3.	19.	14.3
D10	05/18	56:00	162:14	Y33910 Z46976	39	3.2	61.	2.	2.	4.	68.	5.2
E04	05/13	56:20	165:48	X18617 Y34429	51	2.2	0.	0.	0.	3.	3.	100.0
E05	05/27	56:20	165:12	X48155 Y34323	46	1.9	0.	0.	0.	1.	1.	100.0
E06	05/16	56:21	164:35	X18631 Y34195	47	1.4	0.	0.	0.	2.	2.	100.0
E07	05/28	55:20	164:01	X47682 Y34114	45	1.9	0.	0.	1.	3.	4.	75.0
E08	05/16	56:19	163:23	Y34011 Z47435	48	3.0	0.	0.	1.	0.	1.	0.0
E09	05/31	56:20	162:49	X47198 Y33911	42	3.0	5.	0.	1.	0.	5.	0.0
E10	05/18	56:20	162:12	Y33813 Z46958	43	2.4	29.	8.	2.	3.	41.	7.6
E11	05/29	56:20	161:38	Y33731 Z46733	35	3.1	647.	338.	0.	8.	993.	0.8
E12	05/29	56:20	161:00	Y33637 Z46480	29	3.8	5.	13.	6.	1.	25.	2.7
F03	05/23	56:40	166:26	X48652 Y34464	45	2.0	0.	0.	0.	1.	1.	100.0
F04	05/13	56:40	165:50	X18668 Y34350	43	2.2	0.	0.	1.	3.	3.	80.0
F05	05/27	56:40	165:14	X48169 Y34326	40	1.8	0.	0.	3.	78.	81.	96.6
F06	05/15	56:40	164:36	X18672 Y34114	41	1.4	0.	3.	48.	113.	163.	69.0
F06	07/06	56:40	164:36	Y34123 Z47918	40	2.0	0.	3.	76.	70.	149.	46.9
F07	05/28	56:40	164:00	X48678 Y34018	40	1.5	1.	12.	34.	16.	63.	26.1
F08	05/18	56:40	163:23	Y33914 Z47431	41	2.0	1.	3.	3.	4.	11.	35.3
F09	05/31	56:40	162:47	X47191 Y33816	38	2.5	4.	1.	2.	1.	9.	16.7
F10	05/18	56:40	162:11	Y33721 Z46947	39	1.3	17.	1.	3.	4.	25.	15.8
F11	05/20	56:40	161:35	Y33629 Z46708	50	2.9	165.	4.	1.	19.	189.	10.2
F12	05/28	56:39	160:59	Y33540 Z46466	38	2.8	46.	4.	3.	6.	59.	10.6
F13	05/28	56:40	160:22	Y33450 Z46218	32	2.7	14.	0.	1.	1.	15.	4.0
F14	05/28	56:40	159:46	Y33368 Z45976	19	3.6	1.	0.	0.	0.	1.	0.0
F20	06/10	56:31	169:48	X49879 Y35105	46	3.7	0.	0.	0.	1.	1.	100.0
G04	05/13	57:00	165:51	X18709 Y34250	41	1.5	0.	0.	0.	1.	1.	100.0
G05	05/26	57:00	165:13	X48165 Y34131	37	2.0	0.	0.	0.	5.	5.	100.0
G06	05/15	57:00	164:36	X18707 Y34007	37	1.7	0.	0.	2.	27.	29.	93.5
G06	07/06	57:00	164:36	Y34014 Z47916	37	2.0	1.	2.	38.	68.	108.	62.4

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

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

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED: FEMALES	MALES (SEE NOTE): SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
G07	05/28	57:00	164:00	X47672 Y33913	36	2.0	4.	5.	43.	53.	105.	50.5
G08	05/19	57:00	163:22	Y33806 Z47423	36	1.9	3.	11.	27.	14.	55.	25.6
G09	05/30	57:00	162:47	X47184 Y33708	31	2.0	29.	32.	14.	6.	81.	7.4
G10	05/20	56:59	162:10	Y33615 Z46936	34	2.1	60.	14.	10.	18.	102.	17.3
G11	05/20	57:20	163:22	Y33692 Z47412	29	2.4	44.	12.	3.	3.	63.	5.0
G12	05/26	56:59	160:56	Y33432 Z46442	35		48.	4.	1.	4.	57.	6.6
G13	05/28	57:00	160:20	Y33345 Z46200	35	2.2	180.	120.	3.	4.	308.	1.4
G14	05/27	56:59	159:42	Y33261 Z45947	30	2.6	3.	1.	1.	0.	5.	0.0
G15	05/27	56:59	159:07	Y33184 Z45711	16	3.7	225.	203.	0.	0.	428.	0.0
G18	06/20	57:00	168:20	Y34757 Z49416	44	3.1	0.	0.	0.	1.	1.	100.0
G20	06/09	56:59	169:33	X49899 Y35025	42	4.5	1.	0.	0.	1.	2.	50.0
G21	06/15	57:00	170:10	X18686 Y35132	37	4.5	0.	0.	0.	2.	2.	100.0
H06	05/15	57:19	164:37	X18732 Y33394	36	2.3	1.	0.	0.	7.	7.	92.9
H06	07/06	57:20	164:38	Y33906 Z47918	34	2.3	0.	18.	37.	94.	149.	63.1
H07	05/29	57:19	164:00	X47665 Y33799	33	1.5	0.	0.	5.	12.	18.	70.0
H08	05/19	57:00	161:34	Y33521 Z46693	37	1.4	0.	13.	69.	47.	129.	36.3
H09	05/30	57:20	162:46	X47170 Y33594	25	2.0	59.	109.	62.	47.	277.	17.0
H10	05/20	57:20	162:09	Y33497 Z46920	28	1.4	19.	10.	14.	10.	52.	19.1
H11	05/20	57:20	161:32	Y33404 Z46672	30	1.6	6.	0.	0.	1.	7.	9.1
H12	05/26	57:20	160:55	Y33319 Z46430	35	1.4	25.	1.	1.	1.	28.	4.8
H13	05/26	57:20	160:17	Y33230 Z46175	32	2.2	13.	1.	0.	0.	15.	0.0
H14	05/26	57:20	159:39	Y33146 Z45920	30	2.3	10.	0.	2.	2.	14.	12.0
H15	05/27	57:20	159:03	Y33096 Z45678	26	2.7	4.	1.	0.	2.	7.	25.0
H16	05/27	57:19	158:17	Y32997 Z45373	11	4.5	1.	1.	0.	1.	2.	33.3
H19	06/08	57:10	169:19	X49803 Y34915	38	3.1	2.	0.	0.	1.	3.	33.3
H19	06/12	57:20	168:59	Y34765 Z49646	39	3.4	0.	0.	0.	1.	1.	100.0
H20	06/08	57:20	169:36	X49896 Y34905	33	2.9	0.	0.	0.	1.	1.	100.0
H20	06/10	57:10	169:54	X50037 Y35049	25	3.8	6.	0.	0.	10.	16.	63.2
H21	06/13	57:20	170:12	X18714 Y35003	29	5.1	1.	1.	0.	1.	3.	33.3
I05	05/26	57:39	165:15	X48142 Y33885	33		0.	0.	0.	2.	2.	100.0
I06	05/15	57:39	164:37	Y33772 Z47392	29	0.8	0.	0.	0.	1.	1.	100.0
I06	07/06	57:40	164:38	Y33774 Z47997	22	3.5	0.	0.	2.	6.	7.	77.8
I07	05/29	57:39	163:59	X47644 Y33669	27	1.3	2.	0.	4.	2.	8.	30.0
I08	05/19	57:40	163:21	Y33562 Z47392	26	1.1	1.	0.	1.	6.	8.	75.0
I09	05/30	57:40	162:45	X47147 Y33461	23	2.1	4.	2.	3.	13.	21.	60.9
I10	05/20	57:40	162:08	Y33372 Z46902	26	1.7	6.	1.	1.	1.	10.	11.8
I11	05/20	57:40	161:29	Y33279 Z46649	29		7.	5.	1.	1.	14.	9.1
I12	05/26	57:40	160:52	Y33193 Z46402	31	1.7	26.	17.	1.	2.	46.	4.1
I13	05/26	57:40	160:16	Y33111 Z46159	30	2.0	23.	19.	1.	1.	43.	1.7
I14	05/25	57:40	159:37	Y33029 Z45907	26	3.0	5.	2.	1.	2.	9.	20.0
I15	05/25	57:40	159:01	Y32953 Z45663	26	2.8	0.	0.	1.	0.	1.	0.0
I18	06/13	57:40	168:24	Y34482 Z49371	38	3.3	0.	0.	0.	1.	1.	100.0
J07	05/29	58:00	164:00	X47629 Y33527	24	0.5	3.	0.	1.	5.	8.	55.6
J08	05/19	58:00	163:21	Y33422 Z47371	23	1.6	1.	0.	0.	1.	2.	33.3
J09	05/30	58:00	162:44	X47133 Y33326	21	2.5	5.	1.	1.	7.	14.	50.0

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

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
J10	05/20	58:00	162:07	Y33235 Z46885	20	2.2	3.	0.	0.	1.	4.	28.6
J12	05/22	58:00	160:50	Y33062 Z46384	24	1.9	5.	0.	1.	1.	7.	18.2
J13	05/22	58:00	160:12	Y32980 Z46136	27	1.9	3.	1.	0.	0.	3.	0.0
J16	05/24	57:59	158:19	Y32757 Z45391	18	4.0	47.	65.	0.	0.	112.	0.0
K03	05/24	58:20	166:33	X48558 Y33785	25	1.0	0.	0.	0.	1.	1.	100.0
K05	05/25	58:19	165:16	X48037 Y33576	23		2.	0.	0.	2.	4.	50.0
K08	05/19	58:20	163:22	Y33279 Z47356	20	1.9	0.	0.	1.	0.	1.	0.0
K09	05/29	58:20	162:43	X47107 Y33181	16	3.6	1.	0.	0.	1.	2.	50.0
K11	05/22	58:20	161:23	Y33002 Z46595	17	4.3	1.	0.	1.	0.	1.	0.0
K12	05/22	58:19	160:46	Y32922 Z46353	11	4.8	0.	0.	0.	1.	1.	100.0
L01	06/07	58:40	167:52	Y33773 Z48937	25		1.	0.	0.	0.	1.	0.0
L04	07/15	58:40	165:49	Y33483 Z48237	19	6.0	1.	0.	0.	0.	1.	0.0
L06	07/15	59:40	164:34	Y33295 Z47780	20	6.0	0.	0.	0.	1.	1.	100.0
M01	06/08	59:00	167:53	Y33565 Z48850	22		1.	0.	0.	1.	1.	50.0
N01	06/08	59:20	167:55	Y33345 Z48768	21		0.	1.	0.	0.	1.	0.0
Q01	06/08	60:20	167:59	Y32643 Z48510	17		0.	0.	0.	1.	1.	100.0
Q18	06/09	60:20	168:41	Y32701 Z48680	19		0.	1.	0.	0.	1.	0.0
Q19	07/05	60:20	169:20	Y32748 Z48922	23	3.2	0.	0.	1.	1.	2.	66.7
Q20	07/05	60:20	170:02	Y32789 Z48961	29	1.7	0.	0.	0.	1.	1.	100.0

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

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
F19	06/20	56:40	168:54	Y34951 Z49613	56	3.5	0.	0.	0.	1.	1.	100.0
G02	06/06	57:00	167:05	Y34488 Z48911	40		1.	0.	0.	0.	1.	0.0
G18	06/20	57:00	168:20	Y34757 Z49416	44	3.1	0.	0.	1.	4.	4.	85.7
G19	06/08	56:49	169:18	X49787 Y35004	42	3.0	11.	11.	3.	5.	29.	15.6
G19	06/20	57:00	168:57	Y34890 Z49662	44	3.3	5.	7.	0.	1.	13.	5.3
G20	06/09	56:59	169:33	X49899 Y35025	42	4.5	2222.	6.	5.	30.	2263.	1.3
G20	06/10	56:50	169:55	X49996 Y35107	39	3.9	0.	2.	0.	0.	2.	0.0
G21	06/15	57:00	170:10	X18686 Y35132	37	4.5	5.	0.	5.	7.	17.	40.9
G23	07/23	57:09	171:26	------ ------	57	4.0	0.	0.	0.	3.	3.	100.0
G23	07/23	57:09	171:26	X18279 Y34945	57	4.0	0.	0.	0.	3.	3.	100.0
H18	06/13	57:20	168:22	Y34638 Z49409	40	3.4	0.	0.	0.	1.	1.	100.0
H19	06/08	57:10	169:19	X49803 Y34915	38	3.1	5.	3.	0.	0.	8.	0.0
H19	06/12	57:20	168:59	Y34765 Z49646	39	3.4	38.	35.	5.	3.	81.	4.1
H20	06/08	57:20	169:36	X49896 Y34905	33	2.9	4.	1.	2.	7.	14.	53.3
H20	06/10	57:10	169:54	X50037 Y35049	25	3.8	42.	12.	4.	6.	63.	9.2
H21	06/13	57:20	170:12	X18714 Y35003	29	5.1	7.	1.	1.	4.	13.	28.6
H23	06/16	57:20	171:29	X18278 Y34864	54		0.	0.	0.	1.	1.	100.0
H23	07/20	57:16	171:24	X18306 Y34904	55	4.2	0.	0.	0.	7.	7.	100.0
H23	07/22	57:10	171:28	X18269 Y34934	57	3.8	1.	0.	0.	2.	2.	75.0
H23	07/22	57:10	171:27	X18277 Y34937	57	3.8	0.	1.	0.	0.	1.	0.0
H23	07/23	57:10	171:26	X18287 Y34940	57	4.0	0.	0.	0.	1.	1.	100.0
H23	07/24	57:10	171:29	X18264 Y34933	57	3.8	0.	1.	0.	0.	1.	0.0
H24	07/21	57:11	171:54	X18105 Y34862	60	3.8	0.	1.	0.	0.	1.	0.0
I18	06/13	57:40	168:24	Y34482 Z49371	38	3.3	1.	0.	0.	3.	3.	80.0
I19	06/13	57:40	168:02	Y34603 Z49602	37	3.3	0.	1.	2.	2.	5.	37.5
I20	06/11	57:49	169:40	X18698 Y00705	37		4.	2.	3.	2.	10.	18.2
I20	06/11	57:29	169:59	X18704 Y34870	36	2.0	170.	5.	1.	6.	182.	3.3
I21	06/11	57:40	170:16	X18616 Y34755	38	2.1	7.	2.	1.	10.	20.	50.0
I21	06/13	57:30	170:38	X18585 Y34980	41	3.6	1.	1.	0.	2.	4.	50.0
I22	06/13	57:40	170:54	X18457 Y34744	45	3.0	2.	0.	0.	1.	3.	25.0
J19	06/13	58:00	169:04	Y34398 Z49519	37	3.2	0.	0.	0.	1.	1.	100.0
J20	06/11	57:50	169:57	X18628 Y00618	38		1.	0.	2.	15.	18.	83.3
J20	06/13	58:00	169:42	Y34476 Z49701	38	2.7	0.	0.	1.	6.	6.	88.9
J21	06/14	58:00	170:20	Y34514 Z49843	41	1.7	1.	0.	0.	2.	3.	75.0
J22	06/13	57:50	171:16	X18321 Y34606	49	3.0	0.	1.	0.	0.	1.	0.0
J22	06/14	58:00	170:58	Y34512 Z49938	47	2.2	0.	0.	0.	2.	2.	100.0
J23	06/14	58:00	171:36	Y34473 Z49994	53	2.7	0.	0.	0.	1.	1.	100.0
K22	06/15	59:20	171:01	Y34277 Z49822	45	1.3	0.	0.	1.	2.	3.	75.0
L21	06/16	58:40	170:26	Y34029 Z49605	40	1.8	0.	1.	0.	0.	1.	0.0
L22	06/16	58:40	171:05	Y34036 Z49708	45	0.8	0.	1.	0.	0.	1.	0.0
M25	06/25	59:00	173:05	Y33745 Z49794	59	1.6	0.	0.	0.	1.	1.	100.0
N23	06/24	59:20	171:50	Y33560 Z49573	44	1.6	1.	0.	0.	0.	1.	0.0
N25	06/25	59:20	173:09	Y33529 Z49701	55	0.8	0.	0.	0.	1.	1.	100.0
N26	06/25	59:20	173:48	Y33499 Z49745	60	0.8	0.	1.	1.	1.	2.	33.3
N27	06/30	59:19	174:27	X17239 Y33474	64	2.0	0.	0.	1.	0.	1.	0.0

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

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
Q03	07/17	59:40	166:24	Y32950 Z46240	15	7.8	2.	0.	0.	0.	2.	0.0
Q24	06/24	59:40	172:34	Y33323 Z49547	46	-0.8	0.	0.	0.	1.	1.	100.0
Q25	06/24	59:40	173:14	Y33311 Z49610	52	0.4	0.	0.	0.	3.	3.	100.0
Q26	06/24	59:40	173:52	Y33294 Z49659	67	1.6	0.	0.	1.	4.	5.	85.7
P23	07/04	60:03	171:57	Y33088 Z49370	36	-0.9	0.	0.	0.	1.	1.	100.0
P24	07/13	60:00	172:38	Y33093 Z49452	36	0.0	0.	0.	0.	3.	3.	100.0
P25	07/13	60:00	173:18	Y33092 Z49517	40	-0.4	0.	3.	0.	0.	3.	0.0
P26	07/13	60:00	173:56	Y33084 Z49572	52	1.0	0.	0.	2.	1.	4.	33.3
P27	07/12	60:00	174:36	Y33067 Z49618	59	1.7	0.	1.	2.	5.	8.	57.1
P28	07/12	60:00	175:16	Y33050 Z49658	64	1.8	0.	0.	1.	2.	2.	75.0
P31	07/11	60:00	177:12	Y32982 Z49743	76	1.3	0.	1.	0.	0.	1.	0.0
Q23	07/05	60:20	172:04	Y32865 Z49283	32	-0.5	5.	15.	0.	2.	23.	8.8
Q25	07/13	60:19	173:24	Y32877 Z49430	32	0.2	28.	45.	14.	16.	103.	15.5
Q26	07/13	60:19	174:04	Y32875 Z49490	50	-1.0	0.	0.	1.	1.	1.	50.0
Q27	07/12	60:20	174:42	Y32864 Z49537	56	1.5	0.	0.	1.	0.	1.	0.0
R24	07/07	60:40	172:47	Y32656 Z49278	24	1.5	1.	2.	2.	2.	8.	30.8
R25	07/07	60:40	173:28	Y32658 Z49342	36	-0.3	0.	4.	1.	1.	6.	12.5
R26	07/07	60:40	174:08	Y32671 Z49412	48	-1.0	0.	1.	0.	1.	2.	66.7
R31	07/10	60:40	177:29	Y32631 Z49609	79	1.4	1.	0.	0.	0.	1.	0.0
R32	07/10	60:40	178:10	Y32619 Z49636	89	2.0	0.	1.	0.	0.	1.	0.0
S30	07/09	61:00	176:58	Y32461 Z49510	55	1.0	1.	0.	1.	0.	1.	0.0
S31	07/09	61:00	177:38	Y32457 Z49543	74	1.7	1.	0.	1.	0.	2.	0.0
S32	07/09	60:59	178:18	Y32454 Z49573	86	2.4	1.	1.	0.	0.	1.	0.0
T29	07/08	61:20	176:18	Y32274 Z49390	58	0.5	0.	1.	0.	0.	1.	0.0
T30	07/09	61:20	176:56	Y32282 Z49432	64	1.0	1.	0.	0.	0.	1.	0.0
U29	07/08	61:39	176:26	Y32096 Z49323	58	0.5	0.	1.	0.	0.	1.	0.0

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

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

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

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

TABLE 5 DATA FROM THE 1983 EASTERN BERING SEA TRAWL SURVEY WHERE BAIRDI TANNER CRAB WERE TAKEN (CONTINUED)

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED: FEMALES	MALES (SEE NOTE): SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
E08	05/16	56:19	163:23	Y34011 Z47435	48	3.0	9.	12.	1.	1.	23.	2.8
E09	05/31	56:20	162:49	X47198 Y33911	42	3.0	20.	41.	5.	8.	75.	11.0
E10	05/18	56:20	162:12	Y33818 Z46958	43	2.4	30.	1.	16.	37.	84.	44.0
E11	05/29	55:20	161:38	Y33731 Z46733	35	3.1	8.	3.	12.	1.	24.	4.9
E12	05/29	56:20	161:00	Y33637 Z46480	29	3.8	1.	4.	8.	3.	15.	17.4
E18	06/06	56:20	168:15	Y49335 Y34886	82	3.7	733.	592.	29.	12.	1367.	0.9
E19	06/06	56:20	168:50	X49539 Y34982	76	3.6	38.	65.	6.	2.	111.	1.5
E20	06/21	56:20	169:29	X18485 Y49744	78	4.0	3.	7.	0.	0.	11.	0.0
E21	06/21	57:20	170:05	X18398 Y49901	58	4.0	21.	51.	22.	2.	95.	1.8
E22	06/21	56:19	170:41	X18259 Y50008	64	4.0	1200.	157.	35.	2.	1394.	0.2
F01	06/20	56:40	167:40	Y34707 Z49139	51	3.4	0.	0.	5.	4.	9.	46.2
F02	06/06	56:40	167:04	Y34587 Z48903	52	2.7	0.	1.	3.	0.	4.	0.0
F03	05/23	56:40	166:26	X48652 Y34464	45	2.0	1.	1.	2.	0.	3.	0.0
F04	05/13	56:40	165:50	X18668 Y34350	43	2.2	1.	0.	0.	1.	1.	50.0
F05	05/27	56:40	165:14	X48169 Y34326	40	1.8	0.	0.	2.	2.	4.	50.0
F06	05/15	56:40	164:36	X18672 Y34114	41	1.4	0.	2.	0.	1.	3.	20.0
F06	07/06	56:40	164:36	Y34123 Z47918	40	2.0	1.	0.	0.	2.	2.	66.7
F07	05/28	56:40	164:00	X48678 Y34018	40	1.5	1.	2.	6.	2.	11.	18.8
F08	05/18	56:40	163:23	Y33914 Z47431	41	2.0	6.	4.	1.	1.	12.	5.3
F09	05/31	56:40	162:47	X47191 Y33816	38	2.5	24.	18.	3.	4.	48.	7.5
F10	05/18	56:40	162:11	Y33721 Z46947	39	1.3	2.	5.	1.	4.	11.	35.3
F11	05/20	56:40	161:35	Y33629 Z46708	50	2.9	163.	2.	19.	96.	280.	34.4
F12	05/28	56:39	160:59	Y33540 Z46466	38	2.8	22.	4.	4.	6.	36.	17.2
F13	05/28	56:40	160:22	Y33450 Z46218	32	2.7	4.	2.	6.	2.	14.	16.7
F14	05/28	56:40	159:46	Y33368 Z45976	19	3.6	0.	1.	1.	1.	2.	33.3
F18	06/20	56:40	168:17	Y34830 Z49379	58	3.5	0.	6.	0.	6.	12.	50.0
F19	06/06	56:30	169:15	X49709 Y35032	52	3.5	22.	35.	5.	1.	63.	1.4
F20	06/10	56:31	169:48	X49879 Y35105	46	3.7	482.	645.	118.	45.	1291.	3.5
F21	06/18	56:31	170:32	X18385 Y35138	61	4.0	27.	145.	12.	1.	185.	0.3
F21	06/18	56:40	170:08	X18541 Z50007	52	4.5	17.	179.	35.	3.	234.	1.3
F22	06/18	56:40	170:44	X18399 Y35127	60	4.9	72.	105.	11.	4.	192.	2.1
F23	06/17	56:40	171:21	X18195 Y35070	63	3.8	251.	118.	13.	2.	384.	0.6
F24	06/22	56:40	171:56	Y34993 Z50164	71	3.7	201.	458.	0.	0.	659.	0.0
F25	06/27	56:40	172:34	Y34913 Z50172	77	3.4	44.	35.	0.	0.	79.	0.0
G02	06/06	57:00	167:05	Y34488 Z48911	40		1.	0.	1.	0.	1.	0.0
G03	05/23	57:00	166:28	X48668 Y34368	39	2.6	0.	1.	0.	0.	1.	0.0
G04	05/13	57:00	165:51	X18709 Y34250	41	1.5	0.	0.	0.	1.	1.	100.0
G05	05/26	57:00	165:13	X48165 Y34131	37	2.0	0.	1.	1.	0.	2.	0.0
G06	05/15	57:00	164:36	X18707 Y34007	37	1.7	1.	3.	2.	0.	6.	0.0
G06	07/06	57:00	164:36	Y34014 Z47916	37	2.0	1.	0.	3.	2.	5.	28.6
G07	05/28	57:00	164:00	X47672 Y33913	36	2.0	5.	5.	10.	0.	20.	0.0
G08	05/19	57:00	163:22	Y33806 Z47423	36	1.9	1.	1.	0.	0.	2.	0.0
G09	05/30	57:00	162:47	X47184 Y33708	31	2.0	3.	5.	4.	9.	21.	42.9
G10	05/20	56:59	162:10	Y33615 Z46936	34	2.1	2.	2.	3.	5.	12.	40.0
G11	05/20	57:20	163:22	Y33692 Z47412	29	2.4	1.	1.	1.	2.	6.	33.3

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

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
G12	05/28	56:59	160:56	Y33432 Z46442	35		0.	1.	3.	7.	11.	64.7
G13	05/28	57:00	160:20	Y33345 Z46200	33	2.2	3.	4.	1.	4.	12.	38.1
G14	05/27	56:59	159:42	Y33261 Z45947	30	2.6	7.	9.	7.	1.	23.	2.9
G15	05/27	56:59	159:07	Y33184 Z45711	16	3.7	0.	0.	1.	0.	1.	0.0
G18	06/20	57:00	168:20	Y34757 Z49416	44	3.1	0.	0.	28.	0.	28.	0.0
G19	06/20	57:00	168:57	Y34890 Z49662	44	3.3	13.	0.	0.	0.	13.	0.0
G20	06/09	56:59	169:33	X49899 Y35025	42	4.5	11.	8.	5.	5.	29.	18.8
G20	06/10	56:50	169:55	X49996 Y35107	39	3.9	93.	63.	42.	7.	205.	3.3
G21	06/15	57:00	170:10	X18686 Y35132	37	4.5	185.	268.	102.	34.	588.	5.8
G21	06/17	56:50	170:28	X18544 Y35136	54	3.9	28.	144.	17.	2.	192.	0.9
G22	06/16	57:00	170:47	X18503 Y35092	50	4.0	5.	55.	14.	0.	74.	0.0
G23	06/17	57:00	171:23	X18278 Y35002	58	5.0	14.	89.	23.	1.	126.	0.7
G23	07/20	57:10	171:30	X18254 Y34929	58	3.8	15.	64.	3.	1.	83.	1.7
G23	07/21	57:10	171:30	X18260 Y34931	58	3.8	25.	74.	8.	3.	111.	2.8
G23	07/22	57:09	171:26	X18283 Y34945	57	3.8	4.	20.	8.	7.	39.	17.2
G23	07/23	57:09	171:26	------ ------	57	4.0	16.	41.	5.	0.	62.	0.0
G23	07/23	57:09	171:26	X18279 Y34945	57	4.0	14.	52.	3.	0.	69.	0.0
G24	06/22	57:00	172:02	Y34903 Z50181	68	3.6	394.	171.	21.	0.	586.	0.0
G25	06/27	56:59	172:39	Y34815 Z50179	64	3.4	5.	23.	1.	0.	29.	0.0
G26	06/28	56:50	173:15	X17548 Y34730	75	3.6	315.	949.	3.	0.	1267.	0.0
H01	06/18	57:20	167:44	Y34505 Z49156	40	3.0	0.	0.	1.	1.	1.	50.0
H02	06/06	57:20	167:07	Y34375 Z48911	38	3.6	0.	1.	1.	1.	4.	20.0
H03	05/23	57:20	166:28	X48654 Y34248	37		0.	0.	2.	2.	4.	50.0
H04	05/14	57:20	165:52	X18736 Y34134	38	0.4	0.	1.	1.	1.	3.	40.0
H05	05/26	57:20	165:14	X48159 Y34016	35	1.0	0.	9.	10.	0.	19.	0.0
H06	05/15	57:19	164:37	X18732 Y33894	36	2.3	0.	1.	2.	0.	2.	0.0
H06	07/06	57:20	164:38	Y33906 Z47918	34	2.3	0.	1.	2.	1.	3.	25.0
H07	05/29	57:19	164:00	X47665 Y33799	33	1.5	0.	3.	2.	1.	6.	10.0
H08	05/19	57:00	161:34	Y33521 Z46693	37	1.4	0.	0.	0.	1.	1.	100.0
H09	05/30	57:20	162:46	X47170 Y33594	25	2.0	1.	10.	8.	1.	20.	3.6
H10	05/20	57:20	162:09	Y33497 Z46920	28	1.4	4.	6.	5.	4.	20.	17.6
H11	05/20	57:20	161:32	Y33404 Z46672	30	1.6	1.	0.	4.	4.	9.	42.9
H12	05/26	57:20	160:55	Y33319 Z46430	35	1.4	2.	3.	2.	10.	17.	57.7
H13	05/26	57:20	160:17	Y33230 Z46175	32	2.2	1.	0.	5.	4.	11.	37.5
H14	05/26	57:20	159:39	Y33146 Z45920	30	2.3	1.	4.	3.	2.	11.	21.1
H15	05/27	57:20	159:03	Y33096 Z45678	26	2.7	0.	1.	1.	0.	2.	0.0
H18	06/13	57:20	168:22	Y34638 Z49409	40	3.4	5.	9.	2.	1.	17.	3.7
H19	06/08	57:10	169:19	X49803 Y34915	33	3.1	1.	9.	5.	1.	16.	5.6
H19	06/12	57:20	169:59	Y34765 Z49646	39	3.4	1.	1.	2.	1.	5.	14.3
H20	06/08	57:20	169:36	X49896 Y34905	33	2.9	18.	0.	0.	0.	18.	0.0
H20	06/10	57:10	169:54	X50037 Y35049	25	3.8	92.	173.	10.	10.	285.	3.5
H21	06/13	57:20	170:12	X18714 Y35003	29	5.1	10.	25.	3.	0.	37.	0.0
H22	06/16	57:20	170:50	X18524 Y34961	44	3.7	3.	2.	5.	0.	10.	0.0
H22	06/16	57:10	171:11	X18388 Y34980	53	3.6	3.	2.	7.	5.	17.	27.3
H23	06/16	57:20	171:29	X18278 Y34664	54		22.	1.	2.	2.	26.	6.5

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

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

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED: FEMALES	MALES (SEE NOTE): SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
H23	07/20	57:10	171:24	X18298 Y34942	56	4.2	0.	29.	2.	2.	33.	6.7
H23	07/20	57:16	171:24	X18306 Y34904	55	4.2	13.	6.	1.	4.	24.	18.4
H23	07/21	57:11	171:26	X18286 Y34935	57	3.8	6.	22.	3.	4.	35.	11.3
H23	07/22	57:10	171:28	X18269 Y34934	57	3.8	17.	49.	9.	4.	78.	4.5
H23	07/22	57:10	171:27	X18277 Y34937	57	3.8	14.	41.	8.	7.	71.	10.4
H23	07/23	57:10	171:26	X18287 Y34940	57	4.0	9.	38.	3.	1.	51.	2.4
H23	07/24	57:10	171:28	X18272 Y34934	57	3.8	6.	23.	11.	5.	44.	10.6
H23	07/24	57:10	171:27	X18278 Y34938	57	3.8	6.	21.	17.	12.	56.	21.4
H23	07/24	57:10	171:29	X18264 Y34933	57	3.8	8.	13.	10.	4.	34.	10.9
H24	06/22	57:20	172:06	Y34773 Z50158	59	3.4	18.	47.	7.	3.	74.	3.6
H24	07/21	57:11	171:54	X18105 Y34862	60	3.8	39.	64.	11.	4.	118.	3.4
H25	06/27	57:20	172:43	Y34688 Z50159	63	3.3	9.	93.	5.	0.	107.	0.0
H26	06/28	56:20	173:20	X17569 Y34600	64	3.6	510.	385.	58.	4.	957.	0.4
I02	06/07	57:40	167:08	Y34234 Z48683	37	1.4	1.	4.	1.	0.	6.	0.0
I03	05/24	57:39	166:30	X48634 Y34115	35	0.5	0.	2.	1.	0.	3.	0.0
I04	05/14	57:40	165:53	X18749 Y33998	35	2.3	0.	1.	2.	0.	3.	0.0
I05	05/26	57:39	165:15	X48142 Y33885	33		0.	3.	2.	1.	7.	12.5
I06	05/15	57:39	164:37	Y33772 Z47892	29	0.8	0.	4.	0.	1.	5.	22.2
I06	07/06	57:40	164:38	Y33774 Z47997	22	3.5	0.	2.	1.	0.	2.	0.0
I07	05/29	57:39	163:59	X47644 Y33669	27	1.3	2.	5.	7.	1.	14.	5.9
I08	05/19	57:40	163:21	Y33562 Z47392	26	1.1	0.	2.	0.	1.	3.	25.0
I09	05/30	57:40	162:45	X47147 Y33461	23	2.1	3.	6.	5.	2.	15.	11.8
I10	05/20	57:40	162:08	Y33372 Z46902	26	1.7	0.	1.	3.	0.	4.	0.0
I11	05/20	57:40	161:29	Y33279 Z46649	29		0.	1.	4.	0.	4.	0.0
I12	05/26	57:40	160:52	Y33193 Z46402	31	1.7	1.	0.	2.	1.	4.	33.3
I13	05/26	57:40	160:16	Y33111 Z46159	30	2.0	3.	1.	3.	1.	8.	9.1
I14	05/25	57:40	159:37	Y33029 Z45907	26	3.0	1.	0.	1.	0.	1.	0.0
I18	06/13	57:40	168:24	Y34482 Z49371	38	3.3	0.	0.	2.	0.	2.	0.0
I20	06/11	57:49	169:40	X18698 Y00705	37		1.	0.	2.	0.	3.	0.0
I20	06/11	57:29	169:59	X18704 Y34870	36	2.0	1.	1.	0.	0.	2.	0.0
I21	06/11	57:40	170:16	X18616 Y34755	38	2.1	0.	1.	1.	0.	2.	0.0
I21	06/13	57:30	170:38	X18585 Y34880	41	3.6	2.	0.	2.	0.	4.	0.0
I22	06/13	57:40	170:54	X18457 Y34744	45	3.0	1.	0.	0.	0.	1.	0.0
I22	06/14	57:29	171:11	X18388 Y34825	50	3.4	2.	2.	0.	0.	3.	0.0
I23	06/14	57:39	171:32	X18253 Y34691	53	3.1	6.	9.	4.	1.	20.	4.5
I24	06/22	57:40	172:10	Y34609 Z50104	59	3.2	6.	18.	6.	1.	31.	2.2
I25	06/27	57:40	172:48	Y34529 Z50113	65	3.2	172.	255.	17.	0.	443.	0.0
I26	06/28	57:40	173:24	X17573 Y34450	78	3.6	1080.	280.	7.	0.	1367.	0.0
J03	05/24	57:59	166:30	X48598 Y33960	32	0.1	0.	4.	1.	0.	5.	0.0
J04	05/14	58:00	165:54	X18748 Y33848	30	0.3	0.	3.	1.	0.	4.	0.0
J05	05/26	58:05	165:14	X48105 Y33730	28		0.	0.	2.	0.	2.	0.0
J07	05/29	58:00	164:00	X47629 Y33527	24	0.5	1.	8.	2.	0.	11.	0.0
J08	05/19	58:00	163:21	Y33422 Z47371	23	1.6	6.	1.	1.	0.	8.	0.0
J12	05/22	58:00	160:50	Y33062 Z46384	24	1.9	0.	1.	0.	1.	2.	33.3
J13	05/22	58:00	160:12	Y32980 Z46136	27	1.9	0.	0.	1.	0.	1.	0.0

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

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LEGAL	TOTAL	PERCENT LEGAL
J20	06/11	57:50	169:57	X18628 Y00618	38		0.	1.	0.	0.	1.	0.0
J20	06/13	58:00	169:42	Y34476 Z49701	38	2.7	0.	1.	0.	0.	1.	0.0
J22	06/13	57:50	171:16	X18321 Y34606	49	3.0	0.	0.	1.	0.	1.	0.0
J23	06/14	58:00	171:36	Y34473 Z49994	53	2.7	1.	0.	0.	0.	1.	0.0
J24	06/23	58:00	172:14	Y34417 Z50027	57	2.9	13.	10.	0.	0.	23.	0.0
J25	06/26	58:00	172:52	Y34352 Z50047	60	2.9	76.	101.	0.	0.	177.	0.0
J26	06/29	58:00	173:24	X17562 Y34285	61		292.	442.	4.	0.	738.	0.0
K01	06/07	58:20	167:50	Y33995 Z49012	33		0.	1.	0.	0.	1.	0.0
K07	05/29	58:20	164:00	X47548 Y33372	21	3.2	1.	0.	0.	0.	1.	0.0
K23	06/14	58:20	171:39	Y34254 Z49890	52	1.8	0.	1.	1.	0.	1.	0.0
K24	06/23	58:20	172:18	Y34210 Z49937	56	2.6	3.	9.	0.	0.	12.	0.0
K25	06/26	58:20	172:56	Y34158 Z49969	60	2.3	31.	33.	0.	0.	64.	0.0
K26	06/29	58:20	173:34	X17530 Y34099	60	3.0	258.	835.	0.	0.	1094.	0.0
K27	07/03	58:20	174:14	X17308 Y34036	76	3.5	181.	335.	0.	0.	516.	0.0
L23	06/23	58:40	171:43	Y34024 Z49783	50	1.2	0.	1.	0.	0.	1.	0.0
L24	06/23	58:40	172:22	Y34994 Z49841	56	1.4	0.	1.	0.	0.	1.	0.0
L25	06/26	58:40	173:00	Y33954 Z49883	62	1.8	6.	19.	0.	0.	25.	0.0
L26	06/26	58:40	173:38	Y33908 Z49913	69	1.8	27.	56.	1.	0.	84.	0.0
L27	06/29	58:40	174:16	X17301 Y33856	83	2.9	1221.	440.	5.	0.	1666.	0.0
M03	07/04	59:00	166:36	X18658 Y33396	18	5.0	13.	18.	0.	0.	31.	0.0
M23	06/23	59:00	171:47	Y33792 Z49678	47	0.8	0.	3.	0.	0.	3.	0.0
M24	06/25	59:00	172:26	Y33773 Z49744	54	0.4	0.	1.	1.	0.	1.	0.0
M25	06/25	59:00	173:05	Y33745 Z49794	59	1.6	1.	3.	1.	0.	5.	0.0
M26	06/26	59:00	173:43	Y33709 Z49832	65	2.6	3.	4.	0.	0.	7.	0.0
M27	06/30	59:00	174:22	X17269 Y33667	68	2.4	32.	19.	1.	0.	52.	0.0
M28	07/01	59:00	175:03	X17062 Y33618	69	3.1	15.	65.	2.	0.	83.	0.0
M29	07/01	59:00	175:43	X16850 Y33572	71	2.6	3.	8.	1.	0.	12.	0.0
M30	07/02	59:00	176:18	X16668 Y33532	72	1.9	0.	1.	0.	0.	1.	0.0
M32	07/02	59:00	177:36	X16262 Y33439	71	3.0	415.	206.	6.	0.	627.	0.0
N27	06/30	59:19	174:27	X17239 Y33474	64	2.0	2.	3.	0.	0.	5.	0.0
N28	06/30	59:20	175:06	X17049 Y33430	70	2.4	0.	2.	1.	1.	4.	25.0
N29	07/01	59:00	175:45	X16854 Y33401	72	1.5	2.	2.	0.	0.	3.	0.0
O27	06/30	59:39	174:27	X17230 Y33278	61		0.	1.	0.	0.	1.	0.0
O29	07/01	59:40	175:52	X16831 Y33210	73	1.6	0.	1.	1.	0.	2.	0.0
P32	07/11	60:00	177:55	Y32953 Z49765	78	1.4	7.	1.	1.	0.	9.	0.0
P33	07/11	60:05	178:43	Y32879 Z49768	81	2.4	25.	8.	1.	0.	35.	0.0
R32	07/10	60:40	173:10	Y32619 Z49636	89	2.0	0.	1.	0.	0.	1.	0.0
Z05	07/09	:	1 :	------ ------	0	6.0	7.	5.	0.	0.	12.	0.0

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

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

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED: FEMALES	MALES (SEE NOTE): SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
A02	05/31	55:00	166:56	Y34823 Z48679	86	3.8	0.	0.	1.	3.	3.	83.3
A03	05/22	55:00	160:21	X48476 Y34740	76	4.0	6.	0.	2.	3.	11.	25.0
A05	07/09	55:00	165:09	Y34564 Z48056	59	4.6	0.	0.	1.	0.	1.	0.0
B02	05/31	55:20	166:58	Y34797 Z48735	77	3.9	1.	1.	1.	5.	7.	66.7
B03	05/22	55:20	166:20	X48516 Y34703	70		2.	1.	1.	5.	9.	55.6
B04	05/12	55:20	165:46	X18398 Y34617	66		0.	1.	2.	4.	6.	58.3
B05	06/22	55:21	165:10	X18428 Y48088	58	4.6	0.	1.	1.	11.	13.	85.7
B06	06/22	55:20	164:35	X18443 Y47867	55	3.6	0.	2.	2.	8.	13.	64.7
B08	05/31	55:20	163:25	X47430 Y34243	28		0.	2.	0.	0.	2.	0.0
C01	06/01	55:39	167:35	Y34856 Z48995	74	5.0	0.	1.	0.	0.	1.	0.0
C03	05/22	55:40	166:22	X48563 Y34660	67	3.5	1.	3.	3.	14.	20.	68.2
C04	05/12	55:40	165:48	X18480 Y34565	65	4.0	0.	0.	0.	2.	2.	100.0
C05	05/27	55:40	165:10	X48109 Y34460	58	3.3	0.	0.	0.	9.	9.	100.0
C06	05/27	55:40	164:36	X47894 Y34368	51	3.6	1.	14.	7.	15.	37.	40.0
C07	05/28	55:41	165:00	X47661 Y34264	50	3.0	0.	2.	0.	6.	8.	70.0
C08	05/31	55:40	163:24	X47430 Y34171	42	3.2	0.	0.	1.	0.	1.	0.0
C08	07/07	55:40	163:24	Y34172 Z47432	42	4.0	0.	0.	2.	4.	6.	71.4
C09	05/31	58:40	162:51	X47214 Y34085	27	3.9	0.	2.	0.	1.	3.	33.3
C09	07/07	55:40	162:52	Y34090 Z47228	29	7.0	0.	0.	1.	0.	1.	0.0
C18	06/05	53:40	168:11	X49193 Y34942	72	4.0	0.	0.	1.	0.	1.	0.0
D01	06/01	55:59	167:36	Y34821 Z49053	73	4.5	0.	1.	0.	0.	1.	0.0
D02	06/01	56:00	167:00	Y34717 Z48833	75	3.9	0.	0.	0.	1.	1.	100.0
D03	05/22	56:00	166:24	X48606 Y34611	65		1.	3.	3.	6.	13.	50.0
D04	05/12	56:00	165:47	X18552 Y34501	59	3.5	1.	8.	12.	7.	28.	25.5
D05	05/27	56:00	165:11	X48137 Y34397	51	3.6	0.	5.	7.	7.	19.	34.8
D06	05/16	56:00	164:35	Y34286 Z47891	50	2.2	1.	6.	5.	7.	19.	38.5
D07	05/28	55:59	163:59	X47670 Y34198	48		1.	9.	1.	9.	20.	45.5
D08	05/16	56:00	163:24	Y34097 Z47439	48	2.2	0.	2.	2.	0.	3.	0.0
D09	05/31	56:00	162:49	X47207 Y34001	42	3.0	0.	1.	5.	3.	8.	33.3
D10	05/18	56:00	162:14	Y33910 Z46976	39	3.2	0.	1.	1.	0.	1.	0.0
E01	06/20	56:20	167:39	Y34775 Z49109	72	3.5	43.	0.	1.	1.	44.	1.5
E02	06/06	56:20	167:02	Y34657 Z48872	62	3.4	0.	0.	0.	5.	5.	100.0
E03	05/23	56:19	166:24	X48643 Y34551	55		14.	2.	7.	42.	64.	64.9
E04	05/13	56:20	165:48	X18617 Y34429	51	2.2	0.	1.	1.	7.	9.	78.6
E05	05/27	56:20	165:12	X48155 Y34323	46	1.9	1.	7.	6.	13.	27.	48.5
E06	05/16	56:21	164:35	X18631 Y34195	47	1.4	1.	2.	7.	20.	30.	66.7
E07	05/28	55:20	164:01	X47682 Y34114	45	1.9	1.	4.	1.	13.	18.	70.0
E08	05/16	56:19	163:23	Y34011 Z47435	48	3.0	0.	2.	1.	6.	9.	64.3
E09	05/31	56:20	162:49	X47198 Y33911	42	3.0	0.	2.	1.	5.	8.	66.7
E10	05/18	56:20	162:12	Y33818 Z46958	43	2.4	0.	1.	0.	4.	5.	75.0
E18	06/06	56:20	168:15	X49335 Y34886	82	3.7	1025.	11.	2.	3.	1041.	0.3
E19	06/06	56:20	168:50	X49539 Y34982	76	3.6	21.	29.	7.	25.	82.	30.6
E21	06/21	57:20	170:05	X18398 Y49901	58	4.0	0.	0.	1.	0.	1.	0.0
E22	06/21	56:19	170:41	X18259 Y50008	64	4.0	0.	1.	0.	0.	1.	0.0
F01	06/20	56:40	167:40	Y34707 Z49139	51	3.4	429.	4.	0.	17.	451.	3.8

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

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

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED: FEMALES	MALES (SEE NOTE): SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
F02	06/06	56:40	167:04	Y34587 Z48903	52	2.7	1.	1.	4.	9.	14.	60.9
F03	05/23	56:40	166:26	X48652 Y34464	45	2.0	5.	7.	7.	15.	35.	42.9
F04	05/13	56:40	165:50	X18668 Y34350	43	2.2	2.	2.	1.	5.	9.	50.0
F05	05/27	56:40	165:14	X48169 Y34326	40	1.8	4.	6.	3.	15.	27.	53.3
F06	05/15	56:40	164:36	X18672 Y34114	41	1.4	0.	1.	1.	3.	5.	55.6
F06	07/06	56:40	164:36	Y34123 Z47918	40	2.0	0.	1.	1.	3.	5.	66.7
F07	05/28	56:40	164:00	X48678 Y34018	40	1.5	0.	6.	8.	19.	32.	57.8
F08	05/18	56:40	163:23	Y33914 Z47431	41	2.0	0.	1.	1.	4.	6.	60.0
F09	05/31	56:40	162:47	X47191 Y33816	38	2.5	0.	3.	1.	3.	7.	40.0
F10	05/18	56:40	162:11	Y33721 Z46947	39	1.3	0.	0.	0.	1.	1.	100.0
F11	05/20	56:40	161:35	Y33629 Z46708	50	2.9	0.	0.	0.	4.	4.	100.0
F18	06/20	56:40	168:17	Y34830 Z49379	58	3.5	318.	23.	0.	53.	395.	13.5
F19	06/06	56:30	169:15	X49709 Y35032	52	3.5	3.	4.	1.	0.	7.	0.0
F19	06/20	56:40	168:54	Y34951 Z49613	56	3.5	1255.	185.	53.	39.	1532.	2.6
F20	06/10	56:31	169:48	X49879 Y35105	46	3.7	308.	24.	5.	5.	341.	1.3
F21	06/18	56:40	170:08	X18541 Z50007	52	4.5	0.	19.	14.	7.	40.	17.5
F21	06/18	56:31	170:32	X18385 Y35136	61	4.0	0.	2.	1.	0.	2.	0.0
F22	06/18	56:40	170:44	X18399 Y35127	60	4.9	0.	0.	0.	5.	5.	100.0
F23	06/17	56:40	171:21	X18195 Y35070	63	3.8	42.	12.	3.	4.	62.	6.3
G01	06/19	57:00	167:42	Y34622 Z49162	42	2.7	309.	126.	46.	34.	514.	6.7
G02	06/06	57:00	167:05	Y34488 Z48911	40		1.	13.	13.	22.	49.	44.6
G03	05/23	57:00	166:28	X48668 Y34368	39	2.6	2.	6.	6.	11.	25.	44.0
G04	05/13	57:00	165:51	X18709 Y34250	41	1.5	0.	1.	1.	1.	2.	33.3
G05	05/26	57:00	165:13	X48165 Y34131	37	2.0	1.	8.	5.	4.	18.	21.7
G06	05/15	57:00	164:36	X18707 Y34007	37	1.7	1.	4.	3.	1.	8.	8.3
G06	07/06	57:00	164:36	Y34014 Z47916	37	2.0	0.	2.	1.	3.	6.	50.0
G07	05/28	57:00	164:00	X47672 Y33913	36	2.0	0.	7.	7.	5.	19.	26.3
G08	05/19	57:00	163:22	Y33806 Z47423	36	1.9	0.	4.	1.	1.	5.	12.5
G09	05/30	57:00	162:47	X47184 Y33708	31	2.0	0.	1.	1.	0.	2.	0.0
G18	06/20	57:00	168:20	Y34757 Z49416	44	3.1	1658.	525.	83.	55.	2321.	2.4
G19	06/08	56:49	169:18	X49787 Y35004	42	3.0	2018.	264.	9.	9.	2300.	0.4
G19	06/20	57:00	168:57	Y34890 Z49662	44	3.3	669.	259.	13.	27.	969.	2.8
G20	06/09	56:59	169:33	X49899 Y35025	42	4.5	15.	273.	131.	16.	435.	3.8
G20	06/10	56:50	169:55	X49996 Y35107	39	3.9	668.	31.	2.	3.	704.	0.5
G21	06/15	57:00	170:10	X18686 Y35132	37	4.5	583.	80.	22.	3.	688.	0.4
G21	06/17	56:50	170:28	X18544 Y35136	54	3.9	2.	11.	7.	3.	22.	14.8
G22	06/16	57:00	170:47	X18508 Y35092	50	4.0	8.	25.	19.	25.	77.	31.9
G23	06/17	57:00	171:23	X18278 Y35002	58	5.0	576.	31.	23.	24.	654.	3.6
G23	07/20	57:10	171:30	X18254 Y34929	58	3.8	832.	41.	17.	26.	916.	2.9
G23	07/21	57:10	171:30	X18260 Y34931	58	3.8	503.	38.	19.	28.	587.	4.8
G23	07/22	57:09	171:26	X18283 Y34945	57	3.8	235.	40.	21.	30.	326.	9.2
G23	07/23	57:09	171:26	------ ------	57	4.0	1785.	30.	12.	11.	1838.	0.6
G23	07/23	57:09	171:26	X18279 Y34945	57	4.0	1869.	109.	43.	47.	2058.	2.3
G24	06/22	57:00	172:02	Y34903 Z50181	68	3.6	32.	0.	0.	0.	32.	0.0
G25	06/27	56:59	172:39	Y34815 Z50179	64	3.4	0.	3.	0.	0.	3.	0.0

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

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

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED: FEMALES	MALES (SEE NOTE): SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
H01	06/18	57:20	167:44	Y34505 Z49156	40	3.0	0.	16.	3.	0.	19.	0.0
H02	06/06	57:20	167:07	Y34375 Z48911	38	3.6	1.	25.	5.	5.	36.	14.0
H03	05/23	57:20	166:28	X48654 Y34246	37		0.	19.	7.	12.	38.	31.0
H04	05/14	57:20	165:52	X18736 Y34134	38	0.4	3.	25.	9.	9.	46.	20.3
H05	05/26	57:20	165:14	X48159 Y34016	35	1.0	2.	109.	57.	12.	181.	6.9
H06	05/15	57:19	164:37	X18732 Y33894	36	2.3	2.	16.	5.	2.	25.	8.2
H06	07/06	57:20	164:38	Y33906 Z47918	34	2.3	6.	16.	0.	3.	25.	13.3
H07	05/29	57:19	164:00	X47665 Y33799	33	1.5	2.	10.	1.	1.	14.	8.7
H08	05/19	57:00	161:34	Y33521 Z46693	37	1.4	1.	1.	1.	0.	3.	0.0
H09	05/30	57:20	162:46	X47170 Y33594	25	2.0	1.	1.	0.	0.	2.	0.0
H10	05/20	57:20	162:09	Y33497 Z46920	28	1.4	0.	2.	2.	0.	4.	0.0
H11	05/20	57:20	161:32	Y33404 Z46672	30	1.6	0.	1.	1.	0.	1.	0.0
H18	06/13	57:20	168:22	Y34638 Z49409	40	3.4	2.	258.	2.	0.	261.	0.0
H19	06/08	57:10	169:19	X49803 Y34915	33	3.1	145.	126.	6.	5.	283.	1.6
H19	06/12	57:20	168:59	Y34765 Z49646	39	3.4	1.	39.	3.	3.	47.	7.0
H20	06/08	57:20	169:36	X49896 Y34905	33	2.9	3564.	327.	9.	0.	3900.	0.0
H20	06/10	57:10	169:54	X50037 Y35049	25	3.8	12.	40.	22.	12.	85.	13.7
H21	06/13	57:20	170:12	X18714 Y35003	29	5.1	10.	12.	1.	0.	23.	0.0
H22	06/16	57:20	170:50	X18524 Y34961	44	3.7	17475.	925.	135.	55.	18590.	0.3
H22	06/16	57:10	171:11	X18388 Y34980	53	3.6	88.	51.	37.	35.	212.	16.7
H23	06/16	57:20	171:29	X18278 Y34864	54		2512.	72.	12.	10.	2606.	0.4
H23	07/20	57:10	171:24	X18298 Y34942	56	4.2	589.	28.	14.	14.	645.	2.2
H23	07/20	57:16	171:24	X18306 Y34904	55	4.2	2933.	50.	11.	12.	3006.	0.4
H23	07/21	57:11	171:26	X18286 Y34935	57	3.8	267.	37.	23.	20.	347.	5.8
H23	07/22	57:10	171:28	X18269 Y34934	57	3.8	1325.	42.	31.	49.	1447.	3.4
H23	07/22	57:10	171:27	X18277 Y34937	57	3.8	946.	55.	24.	61.	1086.	5.6
H23	07/23	57:10	171:26	X18287 Y34940	57	4.0	734.	109.	62.	43.	948.	4.5
H23	07/24	57:10	171:28	X18272 Y34934	57	3.8	252.	68.	68.	94.	482.	19.5
H23	07/24	57:10	171:27	X18278 Y34938	57	3.8	202.	119.	56.	72.	449.	16.0
H23	07/24	57:10	171:29	X18264 Y34933	57	3.8	323.	23.	22.	33.	401.	8.3
H24	06/22	57:20	172:06	Y34773 Z50158	59	3.4	4.	19.	7.	15.	45.	33.8
H24	07/21	57:11	171:54	X18105 Y34362	60	3.8	592.	15.	3.	8.	619.	1.3
H25	06/27	57:20	172:43	Y34688 Z50159	63	3.3	5.	9.	1.	0.	14.	0.0
H26	06/28	56:20	173:20	X17569 Y34600	64	3.6	0.	3.	2.	2.	7.	28.6
I01	06/18	57:40	167:46	Y34359 Z49128	38	2.9	0.	3.	1.	0.	4.	0.0
I02	06/07	57:40	167:08	Y34234 Z48883	37	1.4	4.	32.	2.	2.	40.	5.4
I03	05/24	57:39	166:30	X48634 Y34115	35	0.5	17.	57.	21.	3.	99.	3.4
I04	05/14	57:40	165:53	X18749 Y33998	35	2.3	3.	50.	27.	8.	88.	9.2
I05	05/26	57:39	165:15	X48142 Y33885	33		10.	67.	12.	12.	102.	12.3
I06	05/15	57:39	164:37	Y33772 Z47892	29	0.8	2.	21.	6.	1.	29.	1.9
I06	07/06	57:40	164:38	Y33774 Z47997	22	3.5	7.	31.	7.	27.	72.	37.9
I07	05/29	57:39	163:59	X47644 Y33669	27	1.3	87.	126.	2.	13.	227.	5.9
I08	05/19	57:40	163:21	Y33562 Z47392	26	1.1	9.	40.	0.	1.	50.	2.5
I09	05/30	57:40	162:45	X47147 Y33461	23	2.1	0.	3.	0.	0.	3.	0.0
I18	06/13	57:40	168:24	Y34482 Z49371	38	3.3	1.	15.	0.	0.	16.	0.0

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

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
I19	06/13	57:40	168:02	Y34603 Z49602	37	3.3	1.	7.	0.	0.	8.	0.0
I20	06/11	57:49	169:40	X18698 Y00705	37		9.	52.	0.	0.	61.	0.0
I20	06/11	57:29	169:59	X18704 Y34870	36	2.0	643.	170.	6.	0.	819.	0.0
I21	06/11	57:40	170:16	X18616 Y34755	38	2.1	3.	72.	0.	0.	76.	0.0
I21	06/13	57:30	170:38	X18585 Y34380	41	3.6	3871.	614.	14.	18.	4516.	0.4
I22	06/13	57:40	170:54	X18457 Y34744	45	3.0	2062.	148.	5.	3.	2218.	0.2
I22	06/14	57:29	171:11	X18388 Y34825	50	3.4	18907.	358.	33.	8.	19307.	0.0
I23	06/14	57:39	171:32	X18253 Y34691	53	3.1	19.	42.	7.	7.	75.	9.6
I24	06/22	57:40	172:10	Y34609 Z50104	59	3.2	77.	11.	5.	3.	95.	2.8
I25	06/27	57:40	172:48	Y34529 Z50113	65	3.2	0.	17.	0.	5.	22.	24.2
I26	06/28	57:40	173:24	X17573 Y34450	78	3.6	0.	1.	0.	0.	1.	0.0
J01	06/18	58:00	167:48	Y34190 Z49080	37	1.6	0.	18.	1.	1.	19.	3.4
J02	06/07	58:00	167:10	Y34072 Z48842	34	1.5	1.	31.	3.	0.	35.	0.0
J03	05/24	57:59	166:30	X48598 Y33960	32	0.1	70.	316.	32.	5.	424.	1.3
J04	05/14	58:00	165:54	X18748 Y33848	30	0.3	9.	138.	24.	3.	174.	1.7
J05	05/26	58:05	165:14	X48105 Y33730	26		64.	74.	10.	17.	165.	10.1
J06	05/15	57:59	164:37	X18751 Y33617	25	1.1	56.	78.	1.	0.	134.	0.0
J07	05/29	58:00	164:00	X47629 Y33527	24	0.5	22.	75.	6.	13.	115.	11.0
J08	05/19	58:00	163:21	Y33422 Z47371	23	1.6	0.	2.	1.	0.	3.	0.0
J11	05/20	58:00	161:29	Y33149 Z46634	30		0.	1.	0.	0.	1.	0.0
J18	06/18	58:00	168:26	Y34298 Z49304	38	3.0	0.	15.	0.	0.	15.	0.0
J19	06/13	58:00	169:04	Y34398 Z49519	37	3.2	0.	6.	0.	0.	6.	0.0
J20	06/11	57:50	169:57	X18628 Y00618	38		3.	21.	0.	0.	24.	0.0
J20	06/13	58:00	169:42	Y34476 Z49701	38	2.7	29.	12.	0.	0.	41.	0.0
J21	06/14	58:00	170:20	Y34514 Z49843	41	1.7	4.	3.	0.	0.	8.	0.0
J22	06/13	57:50	171:16	X18321 Y34606	49	3.0	5296.	218.	8.	4.	5526.	0.1
J22	06/14	58:00	170:58	Y34512 Z49938	47	2.2	975.	139.	0.	0.	1114.	0.0
J23	06/14	58:00	171:36	Y34473 Z49994	53	2.7	12.	2.	0.	1.	15.	8.3
J24	06/23	58:00	172:14	Y34417 Z50027	57	2.9	5.	0.	0.	0.	5.	0.0
J25	06/26	58:00	172:52	Y34352 Z50047	60	2.9	6.	7.	2.	0.	15.	0.0
J26	06/29	58:00	173:24	X17562 Y34285	61		48.	2.	0.	2.	51.	3.0
K01	06/07	58:20	167:50	Y33995 Z49012	33		1.	87.	5.	0.	93.	0.0
K02	06/07	58:20	167:11	Y33889 Z48794	28	1.5	636.	721.	0.	0.	1357.	0.0
K03	05/24	58:20	166:33	X48553 Y33785	25	1.0	163.	1118.	52.	13.	1346.	1.0
K04	05/14	58:20	165:55	X18735 Y33680	23	0.4	206.	321.	1.	0.	529.	0.0
K05	05/25	58:19	165:16	X48087 Y33576	23		380.	1305.	22.	10.	1716.	0.6
K06	05/15	58:20	164:37	X18745 Y33461	24	1.0	405.	702.	4.	0.	1110.	0.0
K07	05/29	58:20	164:00	X47548 Y33372	21	3.2	0.	0.	1.	0.	1.	0.0
K08	05/19	58:20	163:22	Y33279 Z47356	20	1.9	0.	1.	0.	0.	1.	0.0
K18	06/18	58:20	168:28	Y34092 Z49224	36	1.2	1.	68.	1.	1.	71.	1.8
K19	06/15	58:20	169:07	Y34176 Z49421	37	1.8	19.	161.	0.	0.	180.	0.0
K20	06/15	58:20	169:44	Y34233 Z49585	38	2.8	17.	6.	0.	0.	23.	0.0
K22	06/15	59:20	171:01	Y34277 Z49822	45	1.3	18.	48.	0.	0.	66.	0.0
K23	06/14	58:20	171:39	Y34254 Z49890	52	1.8	1.	2.	0.	0.	3.	0.0
K24	06/23	58:20	172:18	Y34210 Z49937	56	2.6	0.	2.	0.	0.	2.	0.0

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

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

STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	NUMBER PER MILE TOWED: FEMALES	MALES (SEE NOTE): SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
K25	06/26	58:20	172:56	Y34153 Z49969	60	2.3	1.	4.	0.	0.	5.	0.0
K26	06/29	58:20	173:34	X17530 Y34099	60	3.0	0.	46.	0.	0.	46.	0.0
K27	07/03	58:20	174:14	X17308 Y34036	76	3.5	15.	3.	0.	0.	18.	0.0
L01	06/07	58:40	167:52	Y33778 Z48937	25		885.	1095.	46.	0.	2026.	0.0
L02	07/14	58:40	167:10	Y33688 Z48707	25	4.8	0.	5.	1.	0.	6.	0.0
L03	07/14	58:40	166:30	Y33588 Z48480	22	5.2	0.	2.	0.	0.	2.	0.0
L05	07/15	58:40	165:11	Y33386 Z48006	20	6.2	0.	1.	0.	0.	1.	0.0
L18	06/17	58:40	168:30	Y33874 Z49135	29		359.	1681.	95.	0.	2635.	0.0
L19	06/16	58:40	169:09	Y33944 Z49317	34	1.1	245.	1374.	0.	0.	1619.	0.0
L20	06/16	58:40	169:47	Y33997 Z49472	37	1.0	1257.	260.	27.	0.	1545.	0.0
L21	06/16	58:40	170:26	Y34029 Z49605	40	1.8	242.	227.	15.	7.	491.	1.5
L22	06/16	58:40	171:05	Y34036 Z49708	45	0.8	68.	36.	3.	0.	106.	0.0
L23	06/23	58:40	171:43	Y34024 Z49783	50	1.2	0.	3.	1.	1.	5.	25.0
L25	06/26	58:40	173:00	Y33954 Z49883	62	1.8	1.	2.	0.	0.	3.	0.0
L26	06/26	58:40	173:38	Y33908 Z49913	69	1.8	5.	7.	1.	0.	14.	0.0
L27	06/29	58:40	174:16	X17301 Y33856	35	2.9	19.	15.	0.	0.	34.	0.0
M01	06/08	59:00	167:53	Y33565 Z48850	22		165.	431.	0.	0.	596.	0.0
M02	07/14	59:00	167:05	Y33465 Z48601	20	5.0	0.	2.	0.	0.	2.	0.0
M18	06/17	59:00	168:32	Y33647 Z49043	25	2.2	723.	1302.	0.	0.	2025.	0.0
M19	06/17	59:00	169:11	Y33707 Z49211	29	1.3	497.	959.	0.	0.	1456.	0.0
M20	06/17	59:00	169:50	Y33756 Z49363	34	1.1	675.	608.	0.	0.	1283.	0.0
M21	06/17	59:00	170:29	Y33788 Z49492	38	2.0	910.	113.	0.	0.	1023.	0.0
M22	06/16	59:00	171:08	Y33799 Z49597	42	0.2	762.	218.	11.	0.	991.	0.0
M23	06/23	59:00	171:47	Y33792 Z49678	47	0.8	3.	133.	20.	9.	164.	5.3
M24	06/25	59:00	172:26	Y33773 Z49744	54	0.4	3.	2.	1.	5.	11.	50.0
M25	06/25	59:00	173:05	Y33745 Z49794	59	1.6	1.	4.	1.	2.	7.	27.3
M26	06/26	59:00	173:43	Y33709 Z49832	65	2.6	9.	17.	0.	1.	28.	4.8
M27	06/30	59:00	174:22	X17269 Y33667	68	2.4	162.	188.	1.	0.	351.	0.0
M28	07/01	59:00	175:03	X17062 Y33618	59	3.1	22.	31.	3.	3.	58.	4.7
M29	07/01	59:00	175:43	X16850 Y33572	71	2.6	21.	9.	0.	0.	30.	0.0
M30	07/02	59:00	176:18	X16668 Y33532	72	1.9	0.	1.	0.	0.	1.	0.0
M32	07/02	59:00	177:36	X16262 Y33439	71	3.0	704.	27.	4.	2.	736.	0.2
N01	06/08	59:20	167:55	Y33345 Z48768	21		2.	7.	0.	0.	9.	0.0
N18	06/11	59:20	168:34	Y33411 Z48946	22		26.	53.	0.	0.	79.	0.0
N19	06/11	59:20	169:14	Y33470 Z49113	27		1025.	1866.	0.	0.	2891.	0.0
N20	06/10	59:20	169:52	Y33513 Z49253	33		399.	1058.	0.	0.	1457.	0.0
N21	06/10	59:20	170:32	Y33543 Z49381	37		322.	31.	0.	0.	353.	0.0
N22	06/10	59:20	171:11	Y33559 Z49487	41		817.	59.	0.	0.	876.	0.0
N23	06/24	59:20	171:50	Y33560 Z49573	44	1.6	730.	119.	0.	11.	859.	1.2
N24	06/25	59:20	172:30	Y33549 Z49645	48	-0.3	2.	0.	0.	0.	2.	0.0
N25	06/25	59:20	173:09	Y33529 Z49701	55	0.8	5.	3.	1.	1.	9.	7.7
N26	06/25	59:20	173:48	Y33499 Z49745	60	0.8	7.	11.	1.	2.	21.	8.8
N27	06/30	59:19	174:27	X17239 Y33474	64	2.0	148.	187.	2.	2.	338.	0.5
N28	06/30	59:20	175:06	X17049 Y33430	70	2.4	113.	144.	0.	0.	256.	0.0
N29	07/01	59:00	175:45	X16854 Y33401	72	1.5	1.	4.	0.	0.	5.	0.0

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

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
Q18	06/09	59:40	168:37	Y33178 Z48858	21		846.	1321.	0.	0.	2167.	0.0
Q19	06/09	59:40	169:16	Y33231 Z49013	25		1953.	1865.	0.	0.	3818.	0.0
Q20	06/09	59:40	169:55	Y33271 Z49151	31		429.	994.	0.	0.	1423.	0.0
Q21	06/10	59:40	170:35	Y33302 Z49276	37		405.	209.	0.	5.	619.	0.8
Q22	06/10	59:40	171:15	Y33321 Z49384	40		489.	31.	0.	0.	521.	0.0
Q23	06/24	59:40	171:54	Y33327 Z49472	42	-0.3	75.	153.	3.	0.	231.	0.0
Q24	06/24	59:40	172:34	Y33323 Z49547	46	-0.8	53.	95.	1.	6.	154.	3.6
Q25	06/24	59:40	173:14	Y33311 Z49610	52	0.4	1.	6.	0.	0.	7.	0.0
Q26	06/24	59:40	173:52	Y33294 Z49659	67	1.6	1.	1.	0.	0.	1.	0.0
Q27	06/30	59:39	174:27	X17230 Y33278	61		5.	7.	0.	1.	13.	6.3
Q28	06/30	59:40	175:06	X17046 Y33246	66	2.6	210.	58.	3.	1.	272.	0.4
Q29	07/01	59:40	175:52	X16831 Y33210	73	1.6	5.	6.	2.	0.	12.	0.0
Q30	07/01	59:40	176:33	X16640 Y33177	72	1.5	0.	11.	1.	0.	12.	0.0
P18	06/09	60:00	168:39	Y32942 Z48768	20		422.	1393.	0.	0.	1815.	0.0
P19	07/04	60:00	169:18	Y32988 Z48918	24	1.0	60.	124.	0.	0.	184.	0.0
P20	07/04	60:00	169:57	Y33031 Z49052	30		514.	1207.	0.	0.	1721.	0.0
P21	07/04	60:00	170:37	Y33062 Z49174	35	0.5	524.	382.	0.	0.	906.	0.0
P22	07/04	60:00	171:17	Y33083 Z49281	33	-0.9	406.	486.	0.	0.	893.	0.0
P23	07/04	60:03	171:57	Y33088 Z49370	36	-0.9	25.	259.	0.	0.	284.	0.0
P24	07/13	60:00	172:38	Y33098 Z49452	36	0.0	363.	50.	0.	0.	413.	0.0
P25	07/13	60:00	173:18	Y33092 Z49517	40	-0.4	1812.	189.	0.	0.	2001.	0.0
P26	07/13	60:00	173:56	Y33084 Z49572	52	1.0	41.	39.	0.	0.	79.	0.0
P27	07/12	60:00	174:36	Y33067 Z49618	59	1.7	6.	2.	0.	1.	9.	6.7
P28	07/12	60:00	175:16	Y33050 Z49658	64	1.8	210.	109.	2.	2.	323.	0.7
P29	07/11	60:00	175:56	Y33025 Z49691	70	1.4	1160.	423.	3.	0.	1587.	0.0
P31	07/11	60:00	177:12	Y32982 Z49743	76	1.3	1.	1.	1.	1.	4.	16.7
P32	07/11	60:00	177:55	Y32953 Z49765	78	1.4	37.	4.	1.	0.	42.	0.0
P33	07/11	60:05	178:43	Y32879 Z49768	81	2.4	214.	3.	0.	2.	219.	0.9
Q18	06/09	60:20	168:41	Y32701 Z48680	19		4.	9.	0.	0.	13.	0.0
Q19	07/05	60:20	169:20	Y32748 Z48822	23	3.2	12.	40.	0.	0.	52.	0.0
Q20	07/05	60:20	170:02	Y32789 Z48961	29	1.7	1111.	1655.	0.	0.	2767.	0.0
Q21	07/05	60:20	170:40	Y32819 Z49074	34	-0.9	380.	348.	0.	0.	728.	0.0
Q22	07/05	60:20	171:22	Y32843 Z49184	36	-0.3	754.	638.	0.	0.	1391.	0.0
Q23	07/05	60:20	172:04	Y32865 Z49283	32	-0.5	51.	1561.	0.	0.	1612.	0.0
Q25	07/13	60:19	173:24	Y32877 Z49430	32	0.2	1032.	723.	0.	0.	1755.	0.0
Q26	07/13	60:19	174:04	Y32875 Z49490	50	-1.0	1967.	1116.	0.	0.	3083.	0.0
Q27	07/12	60:20	174:42	Y32864 Z49537	56	1.5	0.	1.	0.	0.	1.	0.0
Q28	07/12	60:20	175:22	Y32353 Z49581	61	1.8	222.	174.	0.	0.	396.	0.0
Q29	07/12	60:20	176:02	Y32840 Z49617	66	1.4	17485.	4318.	20.	0.	21198.	0.0
Q30	07/10	60:20	176:43	Y32822 Z49650	75	0.9	26.	8.	4.	3.	41.	6.8
Q31	07/10	60:20	177:23	Y32805 Z49678	83	1.4	2.	0.	1.	0.	3.	0.0
R23	07/07	60:40	172:07	Y32632 Z49187	33	-0.7	691.	1083.	0.	0.	1774.	0.0
R24	07/07	60:40	172:47	Y32656 Z49278	24	1.5	23.	65.	0.	0.	88.	0.0
R25	07/07	60:40	173:28	Y32658 Z49342	36	-0.3	112.	201.	0.	0.	314.	0.0
R26	07/07	60:40	174:08	Y32671 Z49412	48	-1.0	244.	219.	0.	0.	463.	0.0

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

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

							NUMBER PER MILE TOWED					
								MALES (SEE NOTE)				
STATION	DATE	LATITUDE	LONGITUDE	LORAN C	DEPTH FTMS	BOTTOM TEMP	FEMALES	SMALL	PRERECRUIT	LARGE	TOTAL	PERCENT LARGE
R27	07/07	60:40	174:48	Y32562 Z49466	54	0.7	31.	42.	0.	0.	73.	0.0
R28	07/08	60:40	175:27	Y32658 Z49511	59	1.0	1.	8.	0.	0.	8.	0.0
R29	07/08	60:40	176:12	Y32649 Z49556	64	1.2	1928.	509.	0.	0.	2437.	0.0
R30	07/10	60:40	176:48	Y32644 Z49578	70	1.5	548.	161.	3.	1.	713.	0.2
R31	07/10	60:40	177:29	Y32631 Z49609	79	1.4	47.	211.	5.	1.	263.	0.2
R32	07/10	60:40	178:10	Y32619 Z49636	89	2.0	15.	29.	6.	2.	53.	4.2
S29	07/08	61:00	176:17	Y32462 Z49480	61	1.0	62.	19.	1.	0.	82.	0.0
S30	07/09	61:00	176:58	Y32461 Z49510	65	1.0	601.	192.	0.	0.	793.	0.0
S31	07/09	61:00	177:38	Y32457 Z49543	74	1.7	58.	24.	7.	3.	91.	2.8
S32	07/09	60:59	178:18	Y32454 Z49573	86	2.4	39.	53.	8.	7.	106.	6.5
T29	07/08	61:20	176:18	Y32274 Z49390	58	0.5	878.	358.	0.	0.	1236.	0.0
T30	07/09	61:20	176:58	Y32282 Z49432	64	1.0	13.	16.	0.	0.	29.	0.0
U29	07/08	61:39	176:28	Y32096 Z49323	58	0.5	778.	289.	0.	0.	1067.	0.0

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