

ANALYSIS OF THE JANUARY-FEBRUARY and NOVEMBER 2001 PETREL  
BANK RED KING CRAB COMMISSIONER'S-PERMIT SURVEYS

By

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## ABSTRACT

During 2001, spring and fall stock assessment surveys for red king crab *Paralithodes camtschaticus* were conducted under a commissioner's permit in the Petrel Bank area of the western Aleutian Islands. The permit terms were designed to provide for collection of relative abundance and stock-condition data. Because of budgetary constraints the survey structure allowed participants to sell all legal red king crab captured during the survey. Observer coverage was required on all vessels to collect size frequency, shell-age, sex, and crab relative abundance information.

The spring survey period was from January 1 through February 15, 2001. The fall survey period was November 2001. The design of the fall survey was slightly modified compared to the spring survey. Twenty stations, composed of 498 pot lifts, were fished in the spring, and twenty-eight stations, composed of 700 pot lifts were fished in the fall. The specified pot-soak time was more closely adhered to during the fall survey. Measures designed to retain captured crab were strengthened and emphasized in the fall survey. For each survey the commissioner's permit specified stations, soak time, number of pots, logbooks, and observer sampling requirements for each participating vessel.

Four vessels and two processors participated during November 2001. The department has received confidentiality waivers to release the fall survey information. However, in accordance with AS 16.05.815 (c), no data on catch by location can be released until the close of the fishery for which the survey was conducted.

Harvest information from the January-February survey, although initially confidential, is discussed herein because the sole participant agreed to release harvest information by signing a waiver of confidentiality. The harvest by location for the January-February 2001 survey is not confidential, because a subsequent survey occurred. To distinguish survey harvest data from traditional commercial fishery harvest data, fish tickets from the spring and fall surveys were entered into the state's fish ticket program as harvest code 15, exploratory fishery.

The catch per pot of legal, sublegal and female red king crabs was higher during the fall survey when compared to the spring survey. The department is recommending a limited commercial fishery for the 2002-2003 season.

## INTRODUCTION

### *Historic Background*

Domestic fisheries for red king crabs *Paralithodes camtschaticus* in both the Adak (western Aleutians) and Dutch Harbor (eastern Aleutians) Registration Areas began in 1961, with effort and harvest increasing rapidly in both areas. Harvest in the Adak Area reached a peak of 21 million pounds in 1964/65. Fluctuating harvest levels from one year to the next characterized the Aleutian Islands red king crab fishery and the general trend was one of decreasing harvest in the 1980s and 1990s (Table 1; Figure 1).

Aleutian Islands red king crab harvest goals have been based on historic catch data, although in the late 1970s guideline harvest level ranges were established using a blend of pot survey results and fisheries data. Western Aleutian Islands pot surveys conducted from 1975 to 1977 provided CPUE, fecundity, and relative abundance information (ADF&G 1978). Pot surveys were conducted on an annual basis in the Dutch Harbor area until 1990 when trawl surveys were implemented to provide the ability to survey larger areas in a more timely fashion and to reduce gear selectivity inherent to pot fishing activities (Urban 1992). Guideline harvest levels were often modified inseason based on fishery performance. Historic fishery GHs set in the late 1970s ranged from 8.0 million to 26.0 million pounds for the Dutch Harbor Registration Area and from 0.5 million to 3.0 million pounds in the Adak Registration Area (ADF&G 1978).

Because of poor fishery performance the eastern Aleutian Islands red king crab fishery was closed after the 1982/83 season and has remained closed. The western Aleutian Islands remained open until the 1995/96 fishery, when it was also closed due to poor fishery performance and recruitment failure as indicated by observer data. Previous to the closure in the western Aleutian Islands, harvest statistics reflect a compression in the area supporting fishery harvests (Figure 2). The Attu area (172 - 173° E longitude) declined in the early to mid 1980s, and the Atka-Amlia area declined in the late 1980s. In the late 1980s and early to mid 1990s, the fishery was supported by Petrel Bank. However, by the 1995/96 season the Petrel Bank fishery had also declined.

In October 1996, a vessel fishing for golden king crabs *Lithodes aequispinus* in the vicinity of Semisopchnoi Island reported incidental catches of substantial numbers of red king crabs. To collect information regarding red king crabs in this area, this vessel was permitted to capture red king crabs using a limited number of single pots on the Petrel Bank during the golden king crab season in 1996 and 1997. The goal of that project was to document the reported high densities of red king crabs encountered during the golden king crab fishery. Project objectives were to enumerate, tag, and collect biological data from all red king crabs captured in the permitted single pots and all red king crabs captured incidentally during golden king crab fishery. While the tagging was too limited to provide quantitative stock assessment data, high densities of red king crabs over broad areas were not indicated. The results did provide some data related to migration, molting cycle and seasonal distribution (Byersdorfer 1998). A total of 926 crabs were tagged over a two-year period along the north side of Amchitka Island and the south side of Semisopchnoi Island. Among captured crabs, 440 were legal males and 160 were females; 89% of the legal crabs were in new shell condition. Recovery efforts yielded 15 tagged crabs, six of which were legal males.

Since the 1995/96 season, commercial fishing for red king crabs in the Aleutian Islands has occurred only during the 1998/99 season. In order to assess the status of red king crab stocks in portions of the Aleutian Islands where the department had gained little recent abundance information, a limited commercial fishery was opened in two areas on November 1, 1998. The fishery was opened under the provision that crabs not harvested be tagged and released. In addition, vessel operators were required to document all red king crab fishing activities in a pilot house log book. The GHLS for each area were set using historic catch information. East of 179° W longitude, a GHLS of 5,000 pounds was established and west of 179° E longitude, a GHLS of 10,000 pounds was set. Closed waters included the Petrel Bank, or the area between 179° E longitude and 179° W longitude. The department did not open the Petrel Bank area in 1998/99 because prior efforts had provided some population data (Byersdorfer 1998).

Three vessels registered to harvest red king crabs in the Aleutian Islands during the 1998/99 season, but only one recorded any landings. The GHLS was not reached in either open area and the fishery was closed by emergency order on July 31, 1999. Observers were required on all vessels participating in the 1998/99 fishery for documenting bycatch and fishing practices and tagging non-retained crabs.

Observers tagged and released one legal male, 86 sublegal males and 50 females from 13 pots sampled during this fishery. Five of the tagged crabs were recaptured during the fishery (Byersdorfer 2000).

Since the limited commercial fishery in 1998/99, no commercial fishery harvests have occurred in the western Aleutian Islands. The department has surveyed the eastern Aleutians on a triennial basis and red king crab stocks in the vicinity of Unalaska Island remain at very low levels.

The department has received requests from Industry to provide for stock assessment of the red king crab population in the western Aleutian Islands by allowing a limited commercial fishery. The North Pacific Fishery Management Council's Crab Plan Team discussed Aleutian Islands red king crab stock status in September 1999. The Crab Plan Team recommended that ADF&G conduct a survey prior to allowing a commercial fishery. The Team generally agreed that recent fishery-based assessments were not providing adequate data for fishery management and that there is concern for serial depletion at very low stock levels. The Team also recommended the development of a survey plan with Industry participation in the design. Survey results would be compared to past fishery CPUE, size frequency, and prerecruit levels to help judge the current health of the stock.

The department conducted a survey of Petrel Bank, utilizing the commercial fleet during the spring of 2001. However, because of low harvests of prerecruit males and females during the spring survey, a second survey was designed for November 2001. November 1, is the regulatory opening of the Western Aleutian Islands commercial fishery. Non-legal crab were available to the commercial fishery in prior years during November and December. Therefore the survey area was assessed again during November to address concerns of survey timing on survey results. In addition, permit terms were modified from the spring survey to address concerns of non-retention of non-legal crab during the spring survey.

## *Fishery Regulations*

Regulations governing the Aleutian Islands red king crab fishery are generally similar to Bering Sea king crab regulations. However, situations specific to the Aleutian Islands are also addressed. When the red and golden king crab seasons are open concurrently, red king crabs may be retained from longlined golden king crab pots provided the pots are fished in waters deeper than 100 fathoms. Otherwise, red king crabs may only be taken from red king crab pots fished in a single-pot fashion. There is no pot limit for king crab fisheries in the Aleutian Islands. Other than biodegradable cotton, a vessel fishing only red king crab is not required to have any escape mechanisms. Escape mechanisms exist for vessels targeting golden king crab, or fishing both species simultaneously using the same pots: pots must have four 5.5 inch escape rings or a vertical panel of 9-inch stretched mesh webbing. Observers are required on all vessels fishing for king crab in the Aleutians. Observer coverage on golden king crab vessels provides red king crab bycatch data from that fishery, although red king crab catch in golden king crab gear is minimal due to the limited overlap in depth distribution of the two species. In the directed red king crab fishery, observer coverage provides data on retained and non-retained crabs, as well as data related to fishing patterns.

## **METHODS**

### *January-February 2001*

The Petrel Bank (Figure 3) survey area was opened by emergency order to the harvest of legal male red king crab from January 1 through February 15, 2001. The survey area and stations were developed in consultation with Industry to sample areas historically supporting legal male, sublegal male, and female red king crab. In addition to the commercial king crab fishing regulations for Registration Area O, additional requirements and guidelines were established for the 2001 survey through a commissioner's permit. The additional requirements were designed to provide a survey that could be repeated and allow comparison of data between surveys.

Ten pairs of survey stations were established around Semisopchnoi Island and northeast of Semisopchnoi Island on the Petrel Bank (Figure 4, Appendix A). Each station pair consisted of an "A" and a "B" station, with A stations generally covering depths of 50 to 100 fathoms and encompassing areas traditionally known to produce catches of legal red king crabs. B stations generally covered depths of less than 50 fathoms and included waters known to historically contain aggregations of females and juvenile males. The station pairs were assigned to four strata (north, south, east and west) and randomly ordered within the strata. Station pairs were to be assigned to vessel operators that applied for a permit in that randomized order. If more than 10 vessel operators applied for permits, additional station pairs would be added, randomly ordered with the original 10 pairs, and then assigned. If fewer than 10 vessel operators applied, the remaining stations would be distributed in order starting with the first randomly chosen vessel until each vessel operator received an equal number of station pairs. If a vessel operator was assigned more than one station pair to fish, the station pairs would have to be fished in the order assigned. Additionally, it was required that the B station of a pair be fished prior to the A station. Vessel operators were required to contact the department prior to fishing.

Vessel operators were required to fish 25 pots in each assigned station. The pots were to be spaced no less than 1/8 nautical mile apart and soaked a minimum of 24 and a maximum of 48 hours. Observers were required to sample a minimum of four pots from each station and preferably more than four pots if catches were low. Vessel operators were required to report, after completion of each station, catch, effort, location, soak time, and depth information to the department prior to fishing the next station.

### *November 2001*

The Petrel Bank survey area (Figure 5, Appendix B) was opened by commissioner's permit during November, 2001. Twenty-eight stations were developed in consultation with Industry. Survey coverage of the Petrel Bank was similar to the spring survey, however the station-pair design was eliminated. The fall survey design was based on a grid pattern. Eight additional stations were added to the fall survey as a result of the survey grid pattern and the addition of several stations covering the north portion of the Petrel Bank. In general, stations were twenty-five square nautical miles, although station size varied depending upon station location in the grid pattern and the bottom contour. All stations were less than 100 fathoms.

The deadline for vessel operators to apply for the survey was October 5. After the deadline survey stations were randomly assigned to qualifying vessels. Each qualifying vessel was assigned an equal number of stations.

Vessel operators were required to contact the department prior to fishing. Each station was composed of 25 pots. The pot spacing was no less than 1/8 nautical mile apart. Pot soak time was a minimum of 24 and a maximum of 48 hours. Each pot could only be lifted once per station. Pots could only be legal red king crab gear and only two opposing tunnel entrances were permitted. A vessel operator could use no more than two pot sizes. If two pot sizes were used, the pot types must be randomly fished within the station. Longlining of pots was not allowed. The pot mesh could be no larger than 5-inches stretched mesh. Escape rings must be closed with a maximum diameter of 3.5 inches. Each vessel operator was required to record the contents of each pot in a logbook.

Observer coverage was mandatory. Coverage was paid by the participant. Observers were required to sample and measure all crab from a minimum of five pots from each station and opportunistically sample additional pots with significant catches as time permitted. For all non-sampled pots, the observer and vessel crew counted the size-sex categories. The vessel operator was required to report, after completion of each station, catch, effort, location, soak time, and depth information to the department prior to fishing the next station.

## **RESULTS**

### *January-February 2001*

One vessel applied for a commissioner's permit and was subsequently assigned all ten station pairs. Commissioner's permit survey conditions were not strictly adhered to. Deviations from the

original permit requirements were principally in soak time and station order. This may have been due to conflict with existing commercial fishing for golden king crab, stormy weather, or tidal influences determining when gear was available to pick. Size of pots were not specified in the permit and pots fished were two sizes: 10' x 10' and 7' x 8'.

Fishing began January 20, 2001 with pots set in stations A1, B1 and A2; pots were first hauled on January 23 in those stations. The final pots were set in stations A10 and B10 on February 14 and were hauled on March 13, past the permit deadline.

Each station comprised 25 pots, except stations A3 and B4, which had 24 pots. All ten station pairs were fished. One pot was lost. A total of 498 pot lifts occurred and a total of 11,257 legal male red king crabs were caught for an overall CPUE (catch per unit of effort) of 22.6 crab per pot (Table 2, Appendix C). Legal males comprised 94.2% of the catch. Legal males averaged 6.8 pounds per crab and the weight of the harvest was 76,792 pounds. Females and sublegal males were caught less frequently than legal males and accounted for 2.3% (0.6 crab/pot) and 3.5% (0.8 crab/pot), respectively, of the total catch.

The largest legal male catches occurred in stations A6, A7, and B7 (Figures 4 & 6). Those three stations accounted for 79.2% of the legal male catch, with A7 alone accounting for 45.2%. Mean catch per pot lift of legal males ranged from zero in stations B8, A9, and B9 to 204 in Station A7. Sublegal-male mean CPUE ranged from zero in stations A1, B1, A3, B4, A5, B5, A8, B8, A9, B9, A10, and B10 to 11 in Station A6 and averaged 0.8 crabs per pot (Figures 4 & 7). Mean CPUE of females ranged from zero in stations A1, B1, B2, A3, B3, B4, A5, B5, A8, A9, B9, A10, and B10 to six in Station A7 and averaged 0.6 crabs per pot (Figures 4 & 8).

Of the 498 pots pulled, 200 were 10' square pots, while the remaining 298 were 7' by 8' pots. A total of 50 pots of each size were used during the survey. The 10' square pots were configured with three tunnel eye entrances and each tunnel eye was equipped with triggers to aid in crab retention. The larger pots contained a panel of 9" stretched mesh webbing located on the pot door. The remainder of the pot body consisted of 4 3/4" stretched mesh. The 7' by 8' pots were configured with two opposing tunnel eye entrances and all but 15 of the smaller pots were not equipped with triggers. The 7' by 8' pots were equipped with a panel of 9" stretched mesh webbing. The remainder of the pot body consisted of 4 3/4" stretched mesh. The larger pots tended to be fished in the A station of each pair. Depth fished ranged from 16 to 85 fathoms and averaged 51 fathoms. Soak time ranged from 24 to 641 hours and averaged 103 hours. In some cases, soak times were extended beyond the specified 24 to 48 hours to allow for weather and tides that did not permit operation of gear. In station A10, soak time ran to 24 days. Excluding station A10, soak time averaged 58 hours.

Length frequency and shell age data for both the retained and non-retained catch were obtained by observers and a total of 1,176 crabs were sampled (Table 3, Figure 9). The sample comprised 25 females (2.1%), 38 sublegal males (3.2%) and 1,113 legal males (94.6%). All female, 35 (92%) sublegal male and 852 (77%) male crabs sampled were classified as having new shells.

## *November 2001*

Four vessels applied for a commissioner's permit. Each vessel was assigned seven stations. Commissioner's permit survey terms were more closely followed compared to the spring survey. Size of pots were 7' x 7' and 7' x 8'. Average soak time was 46 hours, and ranged from 20 to 77 hours. Average depth was 65 fathoms, and ranged from 44 to 90 fathoms.

Fishing began November 1, 2001 with pots set in stations 24 & 26; pots were first hauled on November 3 in stations 11, 18, 24, and 26. The final pots were set in station 9 on November 22 and were hauled on November 23.

Each station comprised 25 pots. All twenty-eight stations were fished. A total of 700 pot lifts occurred and a total of 22,561 legal male red king crabs were caught for an overall CPUE of 32.2 crab per pot (Table 4, Appendix D). Legal males comprised 85.6% of the catch. Legal males averaged 7.0 pounds per crab and the weight of the harvest was 153,961 pounds. Females and sublegal males were caught less frequently than legal males, and accounted for 9.1% (3.4 crab/pot) and 5.3% (2.0 crab/pot), respectively, of the total catch.

Of the 700 pots pulled, 525 were 7 x 7' square pots, while the remaining 175 were 7' by 8' pots. All pots were configured with two tunnel eye entrances. All pots contained small mesh webbing to aid retention of small crabs.

Length frequency and shell age data for both the retained and non-retained catch were obtained by observers and a total of 6,430 crabs were sampled (Table 5, Figure 9). The sample comprised 632 females (9.8%), 342 sublegal males (5.3%) and 5,456 legal males (84.9%). All sampled female crabs were classified as having new shells, 85% of sampled legal crab and 99% of sampled sublegal male crab had new shells.

## **DISCUSSION**

The red king crab commercial fishery in the Petrel Bank area was closed for four seasons prior to the 2001 surveys. Previous stock assessment efforts utilizing the commercial fishery provided little information on stock status or relative abundance of red king crab in the western Aleutian Islands because they were not systematically conducted in a defined study area. Station design for the 2001 surveys was accomplished with input from Industry.

Permit requirements were developed to allow for the assessment of the red king crab stock. Requirements for short soak time and closure of escape mechanisms were designed to increase the retention of small male and female king crab. The average soak time in November of 46 hours was approximately one-half the average soak time from the January-February survey.

Capture of legal male king crab from both of the 2001 surveys in the Petrel Bank area indicate healthy levels of legal-male red king crab. The catch of legal-male red king crab was 22.6 crabs/pot in the January-February survey and increased to 32.2 crabs/pot in November. The survey CPUEs are not directly comparable to previous commercial fishery CPUE because pot lifts in prior commercial fisheries were not conducted in a systematic manner and may have

occurred in other fishing locations (Table 6). However, the legal-male CPUE for the combined January-February 2001 and November 2001 surveys was 28. That was double the CPUE from the 1990/1991 commercial fishery, when the harvest was 950,000 pounds, and double the CPUE from the 1992/93 season, when the harvest was 1,286,000 pounds. Effort during the 2001 surveys was much lower than during previous commercial fisheries and it is not certain that the high survey CPUE could be sustained with increased effort in this limited area.

Sublegal male CPUE increased from 0.8 to 2.0 crabs/pot from the January-February survey to the November survey. The onboard observer data from 1990/1991 commercial fishery indicate catches of two to 23 sublegal male crabs/pot lift. Female CPUE increased from 0.6 to 3.4 crabs/pot from the January-February to the November survey. CPUE from 1990/1991 observer data range from three to 18 crabs/pot.

The 2001 size frequency data (Figure 9) when compared to those collected during the commercial fisheries of the early to mid 1990s (Figures 13-15), indicate a similar size composition that preceded the commercial fishery closure after the 1995/96 season. From 1990 to 1994, CPUE of legal crabs and bycatch of sublegal crabs greatly declined. Similar to the mid 1990s, very few sublegal crab were captured during the 2001 survey.

The survey design covers areas of known red king crab habitat for sublegal, legal and female red king crab. Observer data from catcher-processors during the 1990-91 commercial fishery is shown in Figures 16 - 19. Approximately 70% of the pots were sampled during November, 13% during December, 7% during January and 9% in February. CPUE for sampled pot lifts by month are shown in Table 6. Based on observer sampling of Petrel Bank, sublegal crab have been captured in the survey area utilizing commercial crab pots. Information on the web size and escape mechanism of pots sampled in 1990-91 is currently not available. However, large mesh escape panels and escape rings were not regulatory requirements in the Aleutian Islands king crab fisheries during the 1990-91 season.

Due to the improved harvest of legal crab, the department is recommending a limited red king crab commercial fishery in the Petrel Bank of 500,000 pounds. The recommended GHZ would apply to those waters between 179° W long., and 179° E. long. This is considered the minimum GHZ that can be managed inseason, provided that the Alaska Board of Fisheries adopts additional measures such as pot limits and anti-prospecting regulations.

Because of the uncertainty in the status of sublegal and female red king crab and to provide overall stock protection the department recommends closing fishing at low legal-male CPUE. Maintaining moderate legal-male CPUE will help protect the stock against localized depletion, promote rebuilding, and help maintain multiple size and age classes on the grounds. Commercial fishery legal-male CPUE should remain at 10 crabs/pot or greater. A CPUE of ten crabs/pot is approximately 1/3 the CPUE attained in the 2001 surveys during which 1,198 pot lifts occurred. The maximum number of pot lifts to harvest 500,000 pounds with a CPUE of 10 is 7,700 pot lifts. This CPUE level will prevent fishing at levels that preceded the mid-90s fishery closure. From the 1993/94 through the 1995/96 seasons, pot lifts ranged from 2,200 to over 18,000 per season and legal-male CPUE ranged from two to nine crabs.

Using a threshold CPUE of ten should help maintain the stock at a higher level than the mid-90s. If the cumulative commercial fishery CPUE drops below this level, the department would close

the fishery inseason. If the fishery does not maintain the threshold level for two consecutive seasons, the fishery would be closed for the next two seasons, after which a stock-assessment survey would be employed to assess stock condition. This harvest strategy incorporates a minimum GHL and minimum CPUE. Inseason and post-season fishery analysis will be used to judge whether the fishery is achieving the CPUE threshold level. Increasing the harvest above 500,000 pounds would be accomplished by assessment of fishery performance trends.

Staff still have some overall stock concerns. The size frequency indicates that approximately 80% of the sampled legal-size crab were post recruits. Of the crabs sampled 77% were new-shell. Few pre-recruit or female crab were captured. The current survey structure may not be providing the coverage necessary to gain information on the non-retained portion of the stock. Future surveys should incorporate a pattern in each survey station to ensure full-grounds coverage. The number of pot lifts in the survey area may also need adjustment.

The Aleutian Islands are difficult to survey. Trawl surveys are preferred. However, because of the steep terrain, only pot surveys are practical. Pot surveys only provide relative abundance measures. Trends in relative abundance will therefore be used to base management decisions. Establishing a low GHL with a moderate legal-male CPUE threshold level should help prevent the stock from declining to levels seen in the mid-90s. Having a defined threshold for closing the fishery will permit clearer understanding of the management strategy.

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Table 1. Aleutian Islands, Area O, red king crab commercial fishery data, 1960/61 - 2001/2002.

| Season  | Locale       | Number of            |              |                    | Harvest <sup>b,c</sup> | Pots   |                   | Average             |                     | Deadloss <sup>c</sup> |
|---------|--------------|----------------------|--------------|--------------------|------------------------|--------|-------------------|---------------------|---------------------|-----------------------|
|         |              | Vessels <sup>a</sup> | Landings     | Crabs <sup>b</sup> |                        | Lifted | CPUE <sup>d</sup> | Weight <sup>c</sup> | Length <sup>e</sup> |                       |
| 1960/61 | East of 172° | NA                   | NA           | NA                 | NA                     | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 4                    | 41           | NA                 | 2,074,000              | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      |              |                    |                        |        |                   |                     |                     |                       |
| 1961/62 | East of 172° | 4                    | 69           | NA                 | 533,000                | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 8                    | 218          | NA                 | 6,114,000              | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      | <b>287</b>   |                    | <b>6,647,000</b>       |        |                   |                     |                     |                       |
| 1962/63 | East of 172° | 6                    | 102          | NA                 | 1,536,000              | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 9                    | 248          | NA                 | 8,006,000              | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      | <b>350</b>   |                    | <b>9,542,000</b>       |        |                   |                     |                     |                       |
| 1963/64 | East of 172° | 4                    | 242          | NA                 | 3,893,000              | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 11                   | 527          | NA                 | 17,904,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      | <b>769</b>   |                    | <b>21,797,000</b>      |        |                   |                     |                     |                       |
| 1964/65 | East of 172° | 12                   | 336          | NA                 | 13,761,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 18                   | 442          | NA                 | 21,193,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      | <b>778</b>   |                    | <b>34,954,000</b>      |        |                   |                     |                     |                       |
| 1965/66 | East of 172° | 21                   | 555          | NA                 | 19,196,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 10                   | 431          | NA                 | 12,915,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      | <b>986</b>   |                    | <b>32,111,000</b>      |        |                   |                     |                     |                       |
| 1966/67 | East of 172° | 27                   | 893          | NA                 | 32,852,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 10                   | 90           | NA                 | 5,883,000              | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      | <b>983</b>   |                    | <b>38,735,000</b>      |        |                   |                     |                     |                       |
| 1967/68 | East of 172° | 34                   | 747          | NA                 | 22,709,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 22                   | 505          | NA                 | 14,131,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      | <b>1,252</b> |                    | <b>36,840,000</b>      |        |                   |                     |                     |                       |
| 1968/69 | East of 172° | NA                   | NA           | NA                 | 11,300,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | West of 172° | 30                   | NA           | NA                 | 16,100,000             | NA     | NA                | NA                  | NA                  | NA                    |
|         | <b>TOTAL</b> |                      |              |                    | <b>27,400,000</b>      |        |                   |                     |                     |                       |

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Table 1. (Page 2 of 5)

| Season       | Locale       | Number of            |                  |                    | Harvest <sup>b,c</sup>    | Pots           |                   | Average             |                     | Deadloss <sup>c</sup> |
|--------------|--------------|----------------------|------------------|--------------------|---------------------------|----------------|-------------------|---------------------|---------------------|-----------------------|
|              |              | Vessels <sup>a</sup> | Landings         | Crabs <sup>b</sup> |                           | Lifted         | CPUE <sup>d</sup> | Weight <sup>c</sup> | Length <sup>e</sup> |                       |
| 1969/70      | East of 172° | 41                   | 375              | NA                 | 8,950,000                 | 72,683         | NA                | NA                  | NA                  | NA                    |
|              | West of 172° | 33                   | 435              | NA                 | 18,016,000                | 115,929        | NA                | 6.5                 | NA                  | NA                    |
|              | <b>TOTAL</b> |                      | <b>810</b>       |                    | <b>26,966,000</b>         | <b>188,612</b> |                   |                     |                     |                       |
| 1970/71      | East of 172° | 32                   | 268              | NA                 | 9,652,000                 | 56,198         | NA                | NA                  | NA                  | NA                    |
|              | West of 172° | 35                   | 378              | NA                 | 16,057,000                | 124,235        | NA                | NA                  | NA                  | NA                    |
|              | <b>TOTAL</b> |                      | <b>646</b>       |                    | <b>25,709,000</b>         | <b>180,433</b> |                   |                     |                     |                       |
| 1971/72      | East of 172° | 32                   | 210              | 1,447,692          | 9,391,615                 | 31,531         | 46                | 7                   | NA                  | NA                    |
|              | West of 172° | 40                   | 166              | NA                 | 15,475,940                | 46,011         | NA                | NA                  | NA                  | NA                    |
|              | <b>TOTAL</b> |                      | <b>376</b>       |                    | <b>24,867,555</b>         | <b>77,542</b>  |                   |                     |                     |                       |
| 1972/73      | East of 172° | 51                   | 291              | 1,500,904          | 10,450,380                | 34,037         | 44                | 7                   |                     |                       |
|              | West of 172° | 43                   | 313              | 3,461,025          | 18,724,140                | 81,133         | 43                | 5.4                 | NA                  | NA                    |
|              | <b>TOTAL</b> |                      | <b>604</b>       | <b>4,961,929</b>   | <b>29,174,520</b>         | <b>115,170</b> | <b>43</b>         | <b>5.9</b>          |                     |                       |
| 1973/74      | East of 172° | 56                   | 290              | 1,780,673          | 12,722,660                | 41,840         | 43                | 7.1                 | NA                  | NA                    |
|              | West of 172° | 41                   | 239              | 1,844,974          | 9,741,464                 | 70,059         | 26                | 5.3                 | 148.6               | NA                    |
|              | <b>TOTAL</b> |                      | <b>529</b>       | <b>3,625,647</b>   | <b>22,464,124</b>         | <b>111,899</b> | <b>32</b>         | <b>6.2</b>          |                     |                       |
| 1974/75      | East of 172° | 87                   | 372              | 1,812,647          | 13,991,190                | 71,821         | 25                | 7.7                 |                     |                       |
|              | West of 172° | 36                   | 97               | 532,298            | 2,774,963                 | 32,620         | 16                | 5.2                 | 148.6               | NA                    |
|              | <b>TOTAL</b> |                      | <b>469</b>       | <b>2,344,945</b>   | <b>16,766,153</b>         | <b>104,441</b> | <b>22</b>         | <b>7.1</b>          |                     |                       |
| 1975/76      | East of 172° | 79                   | 369              | 2,147,350          | 15,906,660                | 86,874         | 25                | 7.4                 |                     |                       |
|              | West of 172° | 20                   | 25               | 79,977             | 411,583                   | 8,331          | 10                | 5.2                 | 147.2               | NA                    |
|              | <b>TOTAL</b> |                      | <b>394</b>       | <b>2,227,327</b>   | <b>16,318,243</b>         | <b>95,205</b>  | <b>23</b>         | <b>7.3</b>          |                     |                       |
| 1976/77      | East of 172° | 72                   | 226              | 1,273,298          | 9,367,965                 | 65,796         | 19                | 7.4                 |                     |                       |
|              | East of 172° | 38                   | 61               | 86,619             | 830,458                   | 17,298         | 5                 | 9.6                 | NA                  | NA                    |
|              | West of 172° |                      |                  |                    | F I S H E R Y C L O S E D |                |                   |                     |                     |                       |
| <b>TOTAL</b> |              | <b>287</b>           | <b>1,359,917</b> | <b>10,198,423</b>  | <b>83,094</b>             | <b>16</b>      | <b>7.5</b>        |                     |                     |                       |
| 1977/78      | East of 172° | 33                   | 227              | 539,656            | 3,658,860                 | 46,617         | 12                | 6.8                 |                     |                       |
|              | East of 172° | 6                    | 7                | 3,096              | 25,557                    | 812            | 4                 | 8.3                 | NA                  | NA                    |
|              | West of 172° | 12                   | 18               | 160,343            | 905,527                   | 7,269          | 22                | 5.7                 | 152.2               | NA                    |
|              | <b>TOTAL</b> |                      | <b>252</b>       | <b>703,095</b>     | <b>4,589,944</b>          | <b>54,698</b>  | <b>13</b>         | <b>6.5</b>          |                     |                       |

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Table 1. (Page 3 of 5)

| Season  | Locale       | Number of            |              |                    | Harvest <sup>b,c</sup>    | Pots           |                   | Average             |                     | Deadloss <sup>c</sup> |
|---------|--------------|----------------------|--------------|--------------------|---------------------------|----------------|-------------------|---------------------|---------------------|-----------------------|
|         |              | Vessels <sup>a</sup> | Landings     | Crabs <sup>b</sup> |                           | Lifted         | CPUE <sup>d</sup> | Weight <sup>c</sup> | Length <sup>e</sup> |                       |
| 1978/79 | East of 172° | 60                   | 300          | 1,233,758          | 6,824,793                 | 51,783         | 24                | 5.5                 | NA                  | NA                    |
|         | West of 172° | 13                   | 27           | 149,491            | 807,195                   | 13,948         | 11                | 5.4                 | NA                  | 1,170                 |
|         | <b>TOTAL</b> |                      | <b>327</b>   | <b>1,383,249</b>   | <b>7,631,988</b>          | <b>65,731</b>  | <b>21</b>         | <b>5.5</b>          |                     |                       |
| 1979/80 | East of 172° | 104                  | 542          | 2,551,116          | 15,010,840                | 120,554        | 21                | 5.9                 | NA                  | NA                    |
|         | West of 172° | 18                   | 23           | 82,250             | 467,229                   | 9,757          | 8                 | 5.7                 | 152                 | 24,850                |
|         | <b>TOTAL</b> |                      | <b>565</b>   | <b>2,633,366</b>   | <b>15,478,069</b>         | <b>130,311</b> | <b>20</b>         | <b>5.9</b>          |                     |                       |
| 1980/81 | East of 172° | 114                  | 830          | 2,772,287          | 17,660,620                | 231,607        | 12                | 6.4                 | NA                  | NA                    |
|         | East of 172° | 54                   | 120          | 182,349            | 1,392,923                 | 30,000         | 6                 | 7.6                 |                     |                       |
|         | West of 172° | 17                   | 52           | 254,390            | 1,419,513                 | 20,914         | 12                | 5.6                 | 149                 | 54,360                |
|         | <b>TOTAL</b> |                      | <b>1,002</b> | <b>3,209,026</b>   | <b>20,473,056</b>         | <b>282,521</b> | <b>11</b>         | <b>6.4</b>          |                     |                       |
| 1981/82 | East of 172° | 92                   | 683          | 741,966            | 5,155,345                 | 220,087        | 3                 | 6.9                 | NA                  | NA                    |
|         | West of 172° | 46                   | 106          | 291,311            | 1,648,926                 | 40,697         | 7                 | 5.7                 | 148.3               | 8,759                 |
|         | <b>TOTAL</b> |                      | <b>789</b>   | <b>1,033,277</b>   | <b>6,804,271</b>          | <b>260,784</b> | <b>4</b>          | <b>6.6</b>          |                     |                       |
| 1982/83 | East of 172° | 81                   | 278          | 64,380             | 431,179                   | 72,924         | 1                 | 6.7                 |                     |                       |
|         | West of 172° | 72                   | 191          | 284,787            | 1,701,818                 | 66,893         | 4                 | 6.0                 | 150.8               | 7,855                 |
|         | <b>TOTAL</b> |                      | <b>469</b>   | <b>349,167</b>     | <b>2,132,997</b>          | <b>139,817</b> | <b>3</b>          | <b>6.1</b>          |                     |                       |
| 1983/84 | East of 172° |                      |              |                    | F I S H E R Y C L O S E D |                |                   |                     |                     |                       |
|         | West of 172° | 106                  | 248          | 298,948            | 1,981,579                 | 60,840         | 5                 | 6.6                 | 157.3               | 3,833                 |
|         | <b>TOTAL</b> | <b>106</b>           | <b>248</b>   | <b>298,948</b>     | <b>1,981,579</b>          | <b>60,840</b>  | <b>5</b>          | <b>6.6</b>          | <b>157.3</b>        | <b>3,833</b>          |
| 1984/85 | East of 171° |                      |              |                    | F I S H E R Y C L O S E D |                |                   |                     |                     |                       |
|         | West of 171° | 64                   | 113          | 206,751            | 1,367,672                 | 50,685         | 4                 | 6.6                 | 155.1               | 0                     |
|         | <b>TOTAL</b> | <b>64</b>            | <b>113</b>   | <b>206,751</b>     | <b>1,367,672</b>          | <b>50,685</b>  | <b>4</b>          | <b>6.6</b>          | <b>155.1</b>        | <b>0</b>              |
| 1985/86 | East of 171° |                      |              |                    | F I S H E R Y C L O S E D |                |                   |                     |                     |                       |
|         | West of 171° | 35                   | 89           | 162,271            | 906,293                   | 32,478         | 5                 | 5.6                 | 152.2               | 6,120                 |
|         | <b>TOTAL</b> | <b>35</b>            | <b>89</b>    | <b>162,271</b>     | <b>906,293</b>            | <b>32,478</b>  | <b>5</b>          | <b>5.6</b>          | <b>152.2</b>        | <b>6,120</b>          |
| 1986/87 | East of 171° |                      |              |                    | F I S H E R Y C L O S E D |                |                   |                     |                     |                       |
|         | West of 171° | 33                   | 69           | 126,146            | 712,243                   | 29,189         | 4                 | 5.6                 | NA                  | 500                   |
|         | <b>TOTAL</b> | <b>33</b>            | <b>69</b>    | <b>126,146</b>     | <b>712,243</b>            | <b>29,189</b>  | <b>4</b>          | <b>5.6</b>          | <b>NA</b>           | <b>501</b>            |

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Table 1. (Page 4 of 5)

| Season  | Locale       | Number of            |            |                    | Harvest <sup>b,c</sup> | Pots          |                   | Average             |                     | Deadloss <sup>c</sup> |
|---------|--------------|----------------------|------------|--------------------|------------------------|---------------|-------------------|---------------------|---------------------|-----------------------|
|         |              | Vessels <sup>a</sup> | Landings   | Crabs <sup>b</sup> |                        | Lifted        | CPUE <sup>d</sup> | Weight <sup>c</sup> | Length <sup>e</sup> |                       |
| 1987/88 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 71                   | 109        | 211,712            | 1,213,933              | 43,433        | 5                 | 5.7                 | 148.5               | 6,900                 |
|         | <b>TOTAL</b> | <b>71</b>            | <b>109</b> | <b>211,712</b>     | <b>1,213,933</b>       | <b>43,433</b> | <b>5</b>          | <b>5.7</b>          | <b>148.5</b>        | <b>6,900</b>          |
| 1988/89 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 73                   | 156        | 266,053            | 1,567,314              | 64,374        | 4                 | 5.9                 | 153.1               | 557                   |
|         | <b>TOTAL</b> | <b>73</b>            | <b>156</b> | <b>266,053</b>     | <b>1,567,314</b>       | <b>64,374</b> | <b>4</b>          | <b>5.9</b>          | <b>153.1</b>        | <b>557</b>            |
| 1989/90 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 56                   | 123        | 196,070            | 1,118,566              | 54,513        | 4                 | 5.7                 | 151.5               | 759                   |
|         | <b>TOTAL</b> | <b>56</b>            | <b>123</b> | <b>196,070</b>     | <b>1,118,566</b>       | <b>54,513</b> | <b>4</b>          | <b>5.7</b>          | <b>151.5</b>        | <b>759</b>            |
| 1990/91 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 7                    | 34         | 146,903            | 828,105                | 10,674        | 14                | 5.6                 | 148.1               | 0                     |
|         | <b>TOTAL</b> | <b>7</b>             | <b>34</b>  | <b>146,903</b>     | <b>828,105</b>         | <b>10,674</b> | <b>14</b>         | <b>5.6</b>          | <b>148.1</b>        | <b>0</b>              |
| 1991/92 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 10                   | 35         | 165,356            | 951,278                | 16,636        | 10                | 5.7                 | 149.8               | 0                     |
|         | <b>TOTAL</b> | <b>10</b>            | <b>35</b>  | <b>165,356</b>     | <b>951,278</b>         | <b>16,636</b> | <b>10</b>         | <b>5.7</b>          | <b>149.8</b>        | <b>0</b>              |
| 1992/93 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 12                   | 30         | 218,049            | 1,286,424              | 16,129        | 13                | 6.0                 | 151.5               | 5,000                 |
|         | <b>TOTAL</b> | <b>12</b>            | <b>30</b>  | <b>218,049</b>     | <b>1,286,424</b>       | <b>16,129</b> | <b>13</b>         | <b>6.0</b>          | <b>151.5</b>        | <b>5,000</b>          |
| 1993/94 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 12                   | 21         | 119,330            | 698,077                | 13,575        | 9                 | 5.8                 | 154.6               | 7,402                 |
|         | <b>TOTAL</b> | <b>12</b>            | <b>21</b>  | <b>119,330</b>     | <b>698,077</b>         | <b>13,575</b> | <b>9</b>          | <b>5.8</b>          | <b>154.6</b>        | <b>7,402</b>          |
| 1994/95 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 20                   | 31         | 30,337             | 196,967                | 18,146        | 2                 | 6.5                 | 157.5               | 1,430                 |
|         | <b>TOTAL</b> | <b>20</b>            | <b>31</b>  | <b>30,337</b>      | <b>196,967</b>         | <b>18,146</b> | <b>2</b>          | <b>6.5</b>          | <b>157.5</b>        | <b>1,430</b>          |
| 1995/96 | East of 171° |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |
|         | West of 171° | 4                    | 12         | 6,880              | 38,941                 | 2,205         | 3                 | 5.7                 | 153.6               | 235                   |
|         | <b>TOTAL</b> | <b>4</b>             | <b>12</b>  | <b>6,880</b>       | <b>38,941</b>          | <b>2,205</b>  | <b>3</b>          | <b>5.7</b>          | <b>153.6</b>        | <b>235</b>            |
| 1996/97 |              |                      |            |                    | FISHERY                | CLOSED        |                   |                     |                     |                       |

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Table 1. (Page 5 of 5)

| Season                 | Locale       | Number of            |          |                    | Harvest <sup>b,c</sup>    | Pots<br>Lifted | CPUE <sup>d</sup> | Average             |                     | Deadloss <sup>c</sup> |
|------------------------|--------------|----------------------|----------|--------------------|---------------------------|----------------|-------------------|---------------------|---------------------|-----------------------|
|                        |              | Vessels <sup>a</sup> | Landings | Crabs <sup>b</sup> |                           |                |                   | Weight <sup>c</sup> | Length <sup>e</sup> |                       |
| 1997/98                |              |                      |          |                    | F I S H E R Y C L O S E D |                |                   |                     |                     |                       |
| 1998/99                | West of 174  |                      |          |                    | Confidential              |                |                   |                     |                     |                       |
| 1999/2000              |              |                      |          |                    | F I S H E R Y C L O S E D |                |                   |                     |                     |                       |
| 2000/2001 <sup>f</sup> | West of 174° | 1                    | 3        | 11,257             | 76,792                    | 498            | 23                | 6.8                 | 0                   |                       |
| 2001/2002 <sup>g</sup> | West of 174° | 4                    | 5        | 22,080             | 153,961                   | 700            | 32                | 7.0                 | 82                  |                       |

<sup>a</sup>Many vessels fished both east and west of 171W, thus total number of vessels reflects registrations for entire Aleutian Islands.

<sup>b</sup>Deadloss included.

<sup>c</sup>In Pounds.

<sup>d</sup>Number of legal crabs per pot lift.

<sup>e</sup>In millimeters.

<sup>f</sup>January/February Petrel Bank survey (fish ticket harvest code 15).

<sup>g</sup>November Petrel Bank survey (fish ticket harvest code 15).

Table 2. Summary of catch and effort data for ten station pairs fished during the January-February 2001 Petrel Bank red king crab survey.

| Station            | Number of pots fished | Gear type  | Average depth (fathoms) | Average soak time (hours) | Number caught |               |        |
|--------------------|-----------------------|------------|-------------------------|---------------------------|---------------|---------------|--------|
|                    |                       |            |                         |                           | Legal male    | Sublegal male | Female |
| A1                 | 25                    | 7' by 8'   | 45.8                    | 71.8                      | 36            | 0             | 0      |
| A2                 | 25                    | 10' by 10' | 42.7                    | 70.1                      | 268           | 1             | 6      |
| A3                 | 24                    | 10' by 10' | 58.8                    | 66.7                      | 16            | 0             | 0      |
| A4                 | 25                    | 7' by 8'   | 56.0                    | 53.2                      | 785           | 19            | 61     |
| A5                 | 25                    | 10' by 10' | 52.6                    | 59.5                      | 16            | 0             | 0      |
| A6                 | 25                    | 10' by 10' | 63.0                    | 33.0                      | 1,761         | 280           | 31     |
| A7                 | 25                    | 10' by 10' | 72.9                    | 62.2                      | 5,088         | 72            | 150    |
| A8                 | 25                    | 10' by 10' | 61.8                    | 61.6                      | 256           | 0             | 0      |
| A9                 | 25                    | 10' by 10' | 55.2                    | 63.4                      | 0             | 0             | 0      |
| A10                | 25                    | 7' by 8'   | 63.5                    | 631.2                     | 1             | 0             | 0      |
| <hr/>              |                       |            |                         |                           |               |               |        |
| A station subtotal | 249                   |            | 56.8                    | 119.6                     | 8,227         | 372           | 248    |
| <hr/>              |                       |            |                         |                           |               |               |        |
| B1                 | 25                    | 7' by 8'   | 51.7                    | 70.4                      | 5             | 0             | 0      |
| B2                 | 25                    | 10' by 10' | 41.0                    | 66.4                      | 100           | 1             | 0      |
| B3                 | 25                    | 7' by 8'   | 54.0                    | 65.3                      | 334           | 10            | 0      |
| B4                 | 24                    | 7' by 8'   | 38.2                    | 25.1                      | 7             | 0             | 0      |
| B5                 | 25                    | 7' by 8'   | 42.6                    | 29.6                      | 10            | 0             | 0      |
| B6                 | 25                    | 7' by 8'   | 45.4                    | 47.7                      | 500           | 1             | 3      |
| B7                 | 25                    | 7' by 8'   | 48.9                    | 57.2                      | 2,070         | 28            | 26     |
| B8                 | 25                    | 7' by 8'   | 48.6                    | 54.6                      | 0             | 0             | 0      |
| B9                 | 25                    | 7' by 8'   | 44.8                    | 38.8                      | 0             | 0             | 0      |
| B10                | 25                    | 7' by 8'   | 42.7                    | 415.1                     | 4             | 0             | 0      |
| <hr/>              |                       |            |                         |                           |               |               |        |
| B station subtotal | 249                   |            | 45.9                    | 87.4                      | 3,030         | 40            | 29     |
| <hr/>              |                       |            |                         |                           |               |               |        |
| Survey total       | 498                   |            | 51                      | 103                       | 11,257        | 412           | 277    |

Table 3. Petrel Bank red king crab length frequency and shell-age composition from the January-February 2001 survey.

| Carapace length <sup>a</sup> | Sublegal males |     | Legal males |     |          | Females |
|------------------------------|----------------|-----|-------------|-----|----------|---------|
|                              | New            | Old | New         | Old | Very Old | New     |
| 92                           | 0              | 0   | 0           | 0   | 0        | 0       |
| 97                           | 0              | 0   | 0           | 0   | 0        | 0       |
| 102                          | 0              | 0   | 0           | 0   | 0        | 0       |
| 107                          | 0              | 0   | 0           | 0   | 0        | 0       |
| 112                          | 0              | 0   | 0           | 0   | 0        | 0       |
| 117                          | 1              | 0   | 0           | 0   | 0        | 0       |
| 122                          | 1              | 0   | 0           | 0   | 0        | 2       |
| 127                          | 4              | 1   | 0           | 0   | 0        | 5       |
| 132                          | 9              | 1   | 0           | 0   | 0        | 3       |
| 137                          | 13             | 1   | 0           | 0   | 0        | 5       |
| 142                          | 7              | 0   | 25          | 4   | 0        | 6       |
| 147                          | 0              | 0   | 153         | 37  | 0        | 3       |
| 152                          | 0              | 0   | 194         | 49  | 1        | 1       |
| 157                          | 0              | 0   | 167         | 62  | 0        | 0       |
| 162                          | 0              | 0   | 171         | 56  | 0        | 0       |
| 167                          | 0              | 0   | 70          | 27  | 0        | 0       |
| 172                          | 0              | 0   | 53          | 21  | 0        | 0       |
| 177                          | 0              | 0   | 16          | 2   | 0        | 0       |
| 182                          | 0              | 0   | 3           | 2   | 0        | 0       |
| 187                          | 0              | 0   | 0           | 0   | 0        | 0       |
| 192                          | 0              | 0   | 0           | 0   | 0        | 0       |
| 197                          | 0              | 0   | 0           | 0   | 0        | 0       |
| Total                        | 35             | 3   | 852         | 260 | 1        | 25      |

<sup>a</sup> Mid-point of 5 mm carapace length size class.

Table 4. Summary of catch and effort data for 28 stations fished during the November 2001 Petrel Bank red king crab survey.

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| Station | Number of pots fished | Gear type | Average depth (fathoms) | Average soak time (hours) | Number caught |               |        |
|---------|-----------------------|-----------|-------------------------|---------------------------|---------------|---------------|--------|
|         |                       |           |                         |                           | Legal male    | Sublegal male | Female |

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Table 5. Petrel Bank red king crab length frequency and shell-age composition from the November 2001 survey.

| Carapace length <sup>a</sup> | Sublegal Males |     |     |          | Legal Males |      |     |          | Females |
|------------------------------|----------------|-----|-----|----------|-------------|------|-----|----------|---------|
|                              | Soft           | New | Old | Very Old | Soft        | New  | Old | Very Old | New     |
| 87                           | 0              | 0   | 0   | 0        | 0           | 0    | 0   | 0        | 1       |
| 92                           | 0              | 1   | 0   | 0        | 0           | 0    | 0   | 0        | 0       |
| 97                           | 0              | 1   | 0   | 0        | 0           | 0    | 0   | 0        | 0       |
| 102                          | 0              | 1   | 0   | 0        | 0           | 0    | 0   | 0        | 1       |
| 107                          | 0              | 1   | 0   | 0        | 0           | 0    | 0   | 0        | 2       |
| 112                          | 0              | 4   | 0   | 0        | 0           | 0    | 0   | 0        | 10      |
| 117                          | 0              | 13  | 0   | 0        | 0           | 0    | 0   | 0        | 35      |
| 122                          | 0              | 27  | 0   | 0        | 0           | 0    | 0   | 0        | 56      |
| 127                          | 0              | 52  | 1   | 0        | 0           | 0    | 0   | 0        | 121     |
| 132                          | 0              | 99  | 1   | 0        | 0           | 5    | 0   | 0        | 141     |
| 137                          | 0              | 110 | 1   | 0        | 0           | 62   | 4   | 0        | 127     |
| 142                          | 0              | 30  | 0   | 0        | 0           | 258  | 14  | 1        | 78      |
| 147                          | 0              | 0   | 0   | 0        | 0           | 505  | 61  | 0        | 39      |
| 152                          | 0              | 0   | 0   | 0        | 0           | 702  | 136 | 1        | 16      |
| 157                          | 0              | 0   | 0   | 0        | 0           | 815  | 155 | 5        | 4       |
| 162                          | 0              | 0   | 0   | 0        | 0           | 729  | 185 | 5        | 1       |
| 167                          | 0              | 0   | 0   | 0        | 1           | 640  | 147 | 4        | 0       |
| 172                          | 0              | 0   | 0   | 0        | 0           | 417  | 74  | 1        | 0       |
| 177                          | 0              | 0   | 0   | 0        | 0           | 238  | 34  | 2        | 0       |
| 182                          | 0              | 0   | 0   | 0        | 0           | 190  | 9   | 0        | 0       |
| 187                          | 0              | 0   | 0   | 0        | 0           | 40   | 1   | 0        | 0       |
| 192                          | 0              | 0   | 0   | 0        | 0           | 12   | 0   | 0        | 0       |
| 197                          | 0              | 0   | 0   | 0        | 0           | 3    | 0   | 0        | 0       |
| Total                        | 0              | 339 | 3   | 0        | 1           | 4616 | 820 | 19       | 632     |

<sup>a</sup> Mid-point of 5 mm carapace length size class.

Table 6. CPUE and number of pot lifts, by month, from observer-sampled pots in the 1990-91 Petrel Bank red king crab commercial fishery, and CPUE and pot lifts from the January/February and November 2001 Petrel Bank surveys.

| Month/Year            | Legal CPUE | Sublegal CPUE | Female CPUE | Number of pots  |
|-----------------------|------------|---------------|-------------|-----------------|
| November 1990         | 14         | 18            | 7           | 68 <sup>a</sup> |
| December 1990         | 11         | 15            | 8           | 13 <sup>a</sup> |
| January 1991          | 14         | 2             | 3           | 7 <sup>a</sup>  |
| February 1991         | 10         | 23            | 18          | 9 <sup>a</sup>  |
| January/February 2001 | 22.6       | 0.8           | 0.6         | 498             |
| November 2001         | 32.2       | 2.0           | 3.4         | 700             |

<sup>a</sup> Number of pots is based on unique date/latitude/longitude combinations for that month.

Not Available Electronically

Figure 1. Aleutian Islands red king crab harvest by fishery season and area, 1960-61 through 1998-99.

Not Available Electronically

Figure 2. Distribution of Aleutian islands red king crab harvest by longitude, 1978-1998.

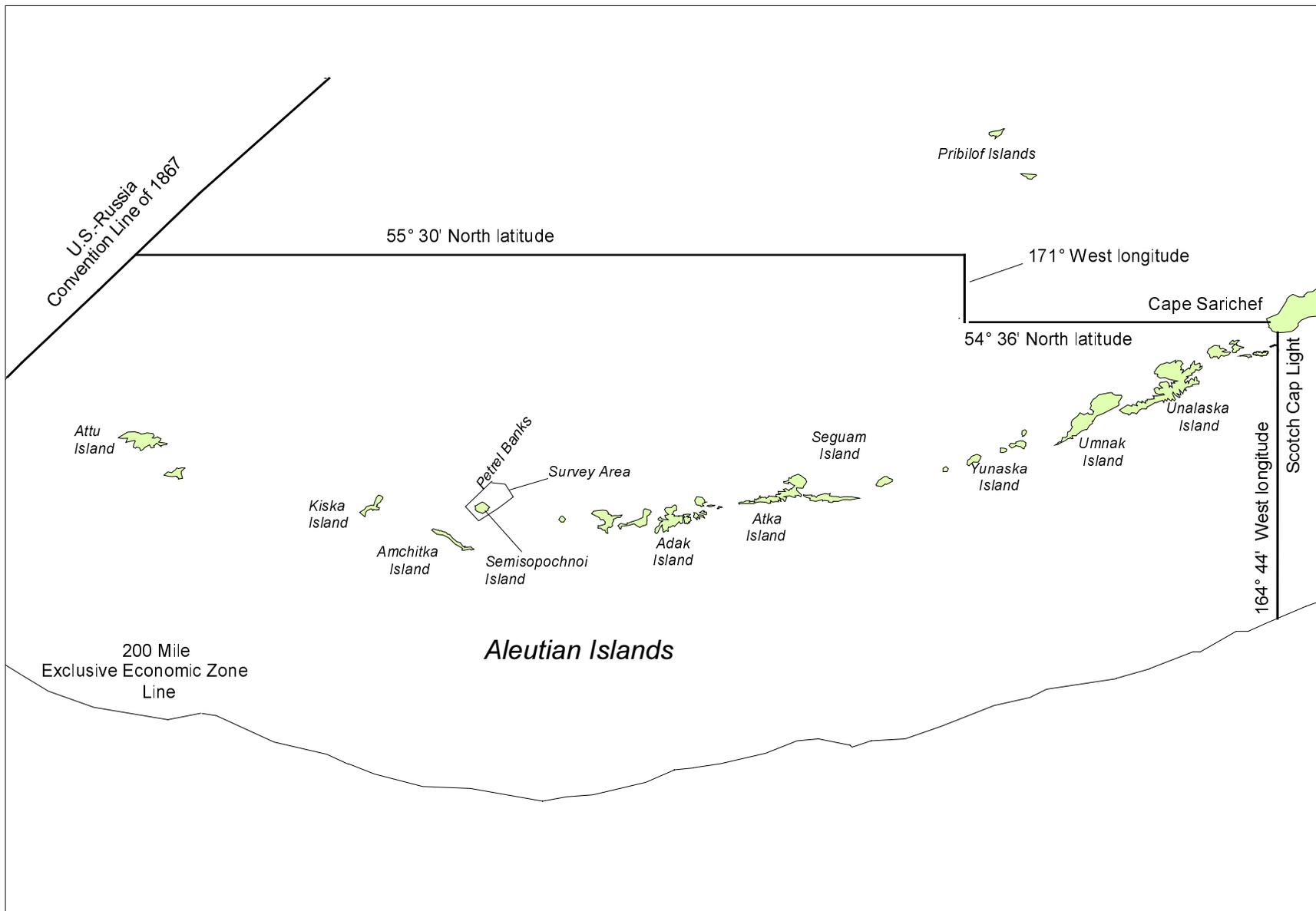


Figure 3. Aleutian Islands king crab Registration Area O, showing location of 2001 commissioner's permit survey.

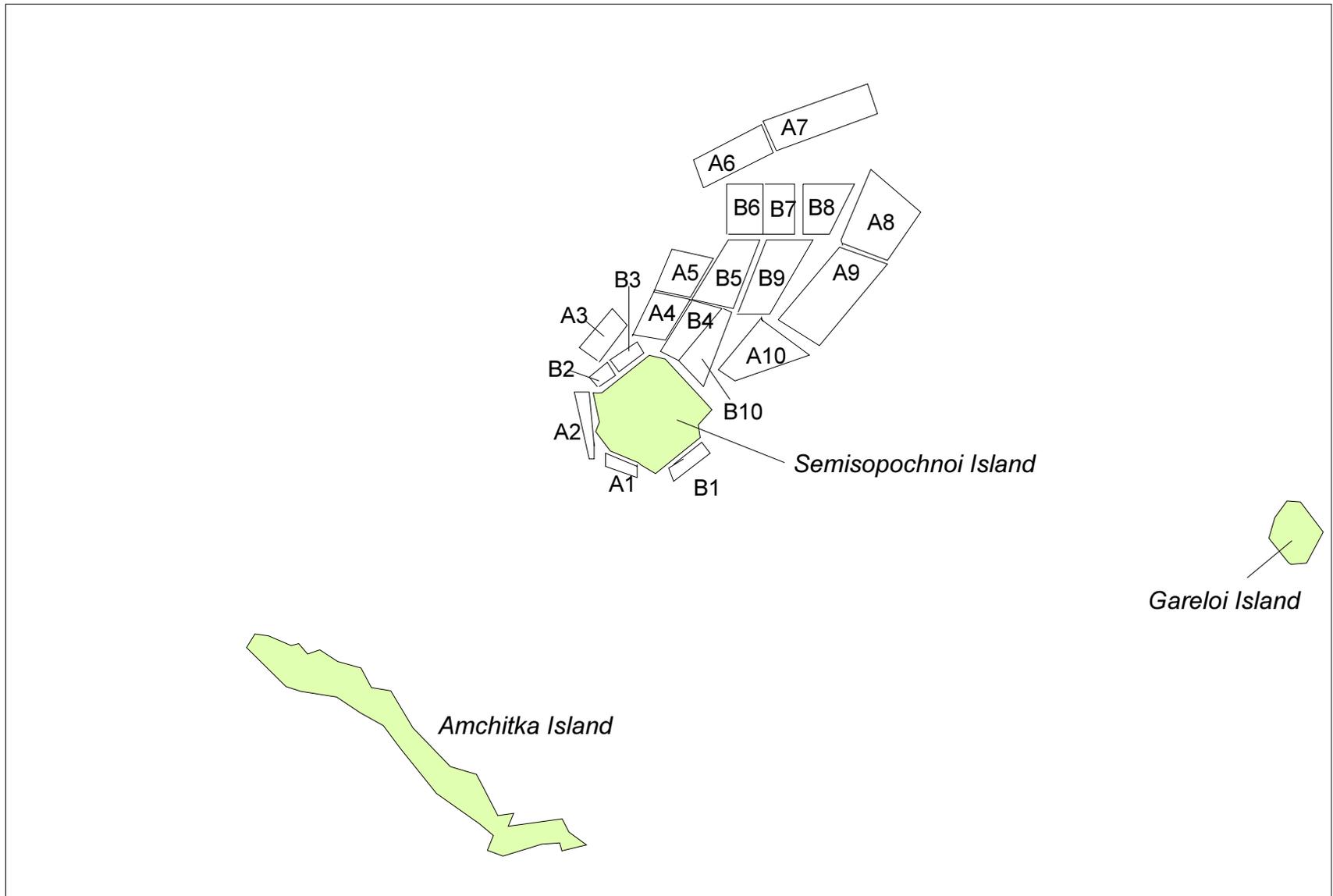


Figure 4. Location of stations fished during the January-February 2001 Petrel Bank red king crab commissioner's permit survey.

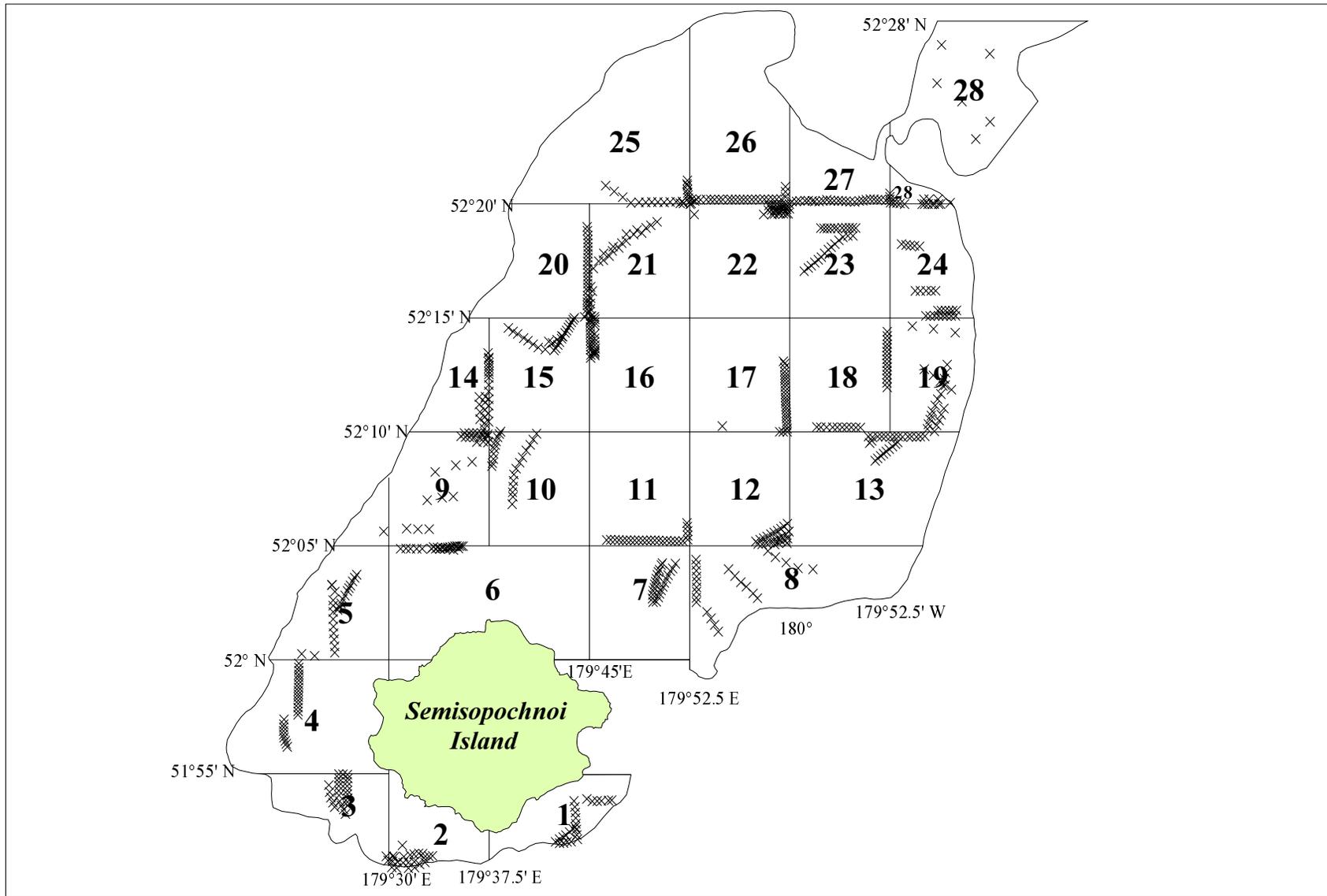


Figure 5. Station design and location of pots fished during the November 2001 Petrel Bank red king crab commissioner's permit survey.

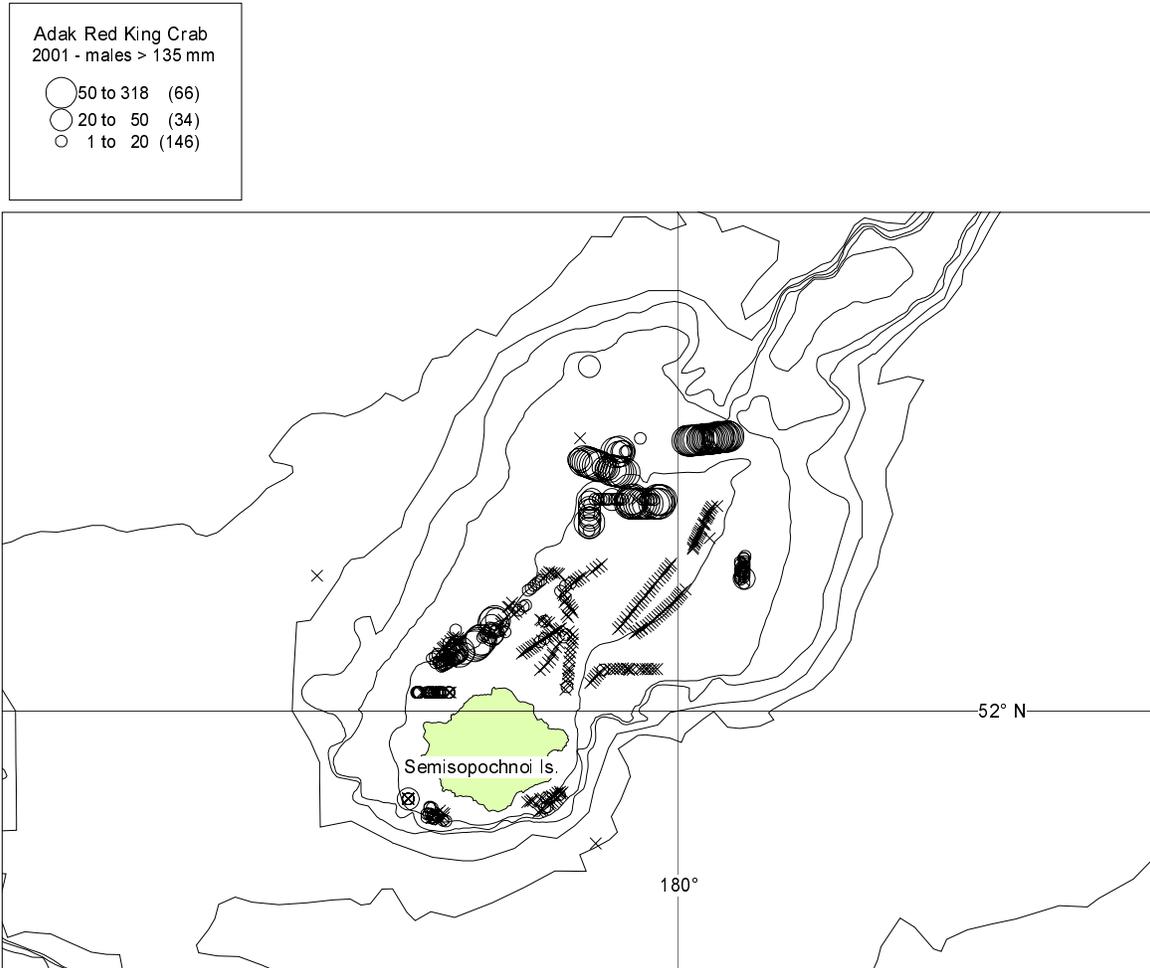


Figure 6. Location and CPUE of legal male red king crabs during the January-February 2001 Petrel Bank survey. X = pot locations with zero legal red king crab.

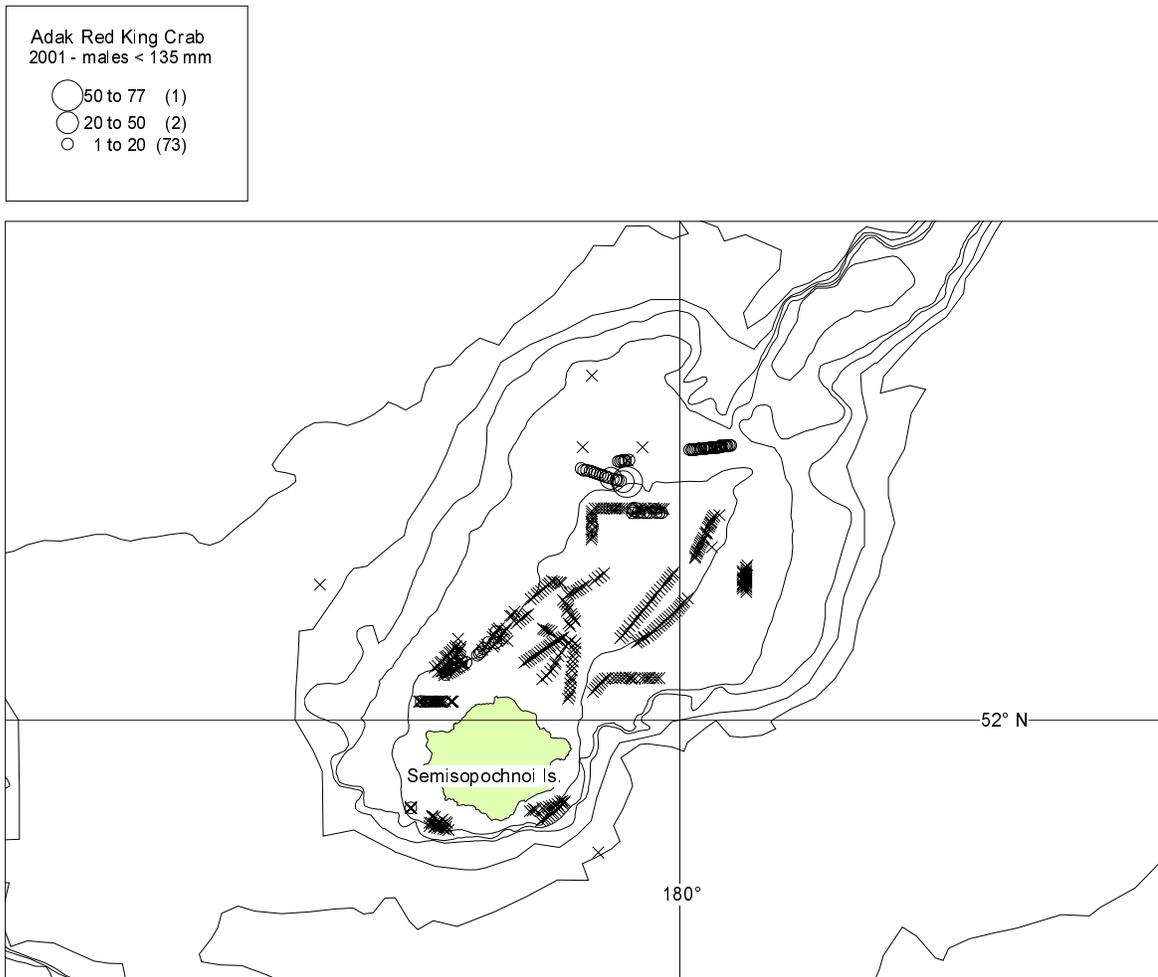


Figure 7. Location and CPUE of sublegal male red king crabs during the January-February 2001 Petrel Bank survey. X = pot locations with zero sublegal red king crab.

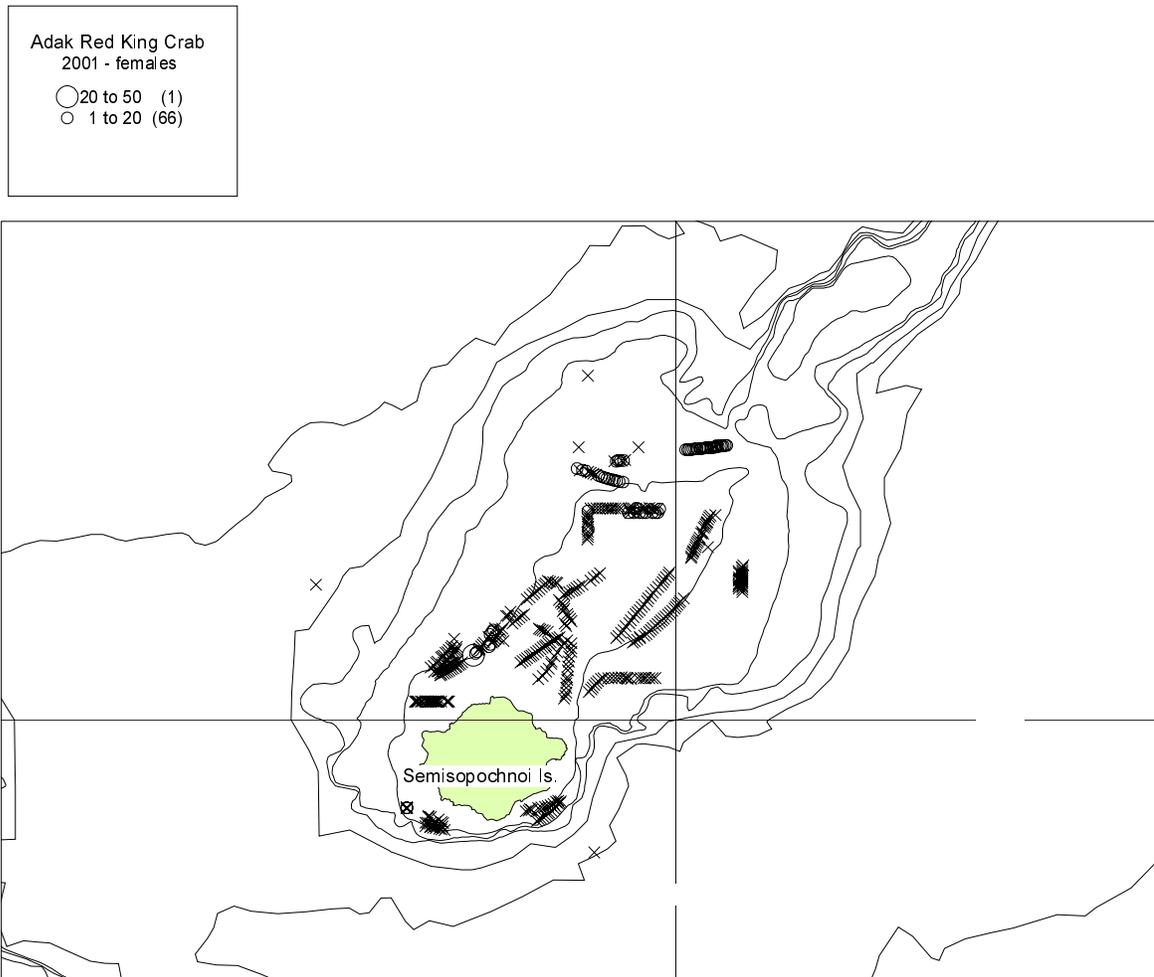


Figure 8. Location and CPUE of female red king crabs during the January-February 2001 Petrel Bank survey. X = locations with zero female red king crab.

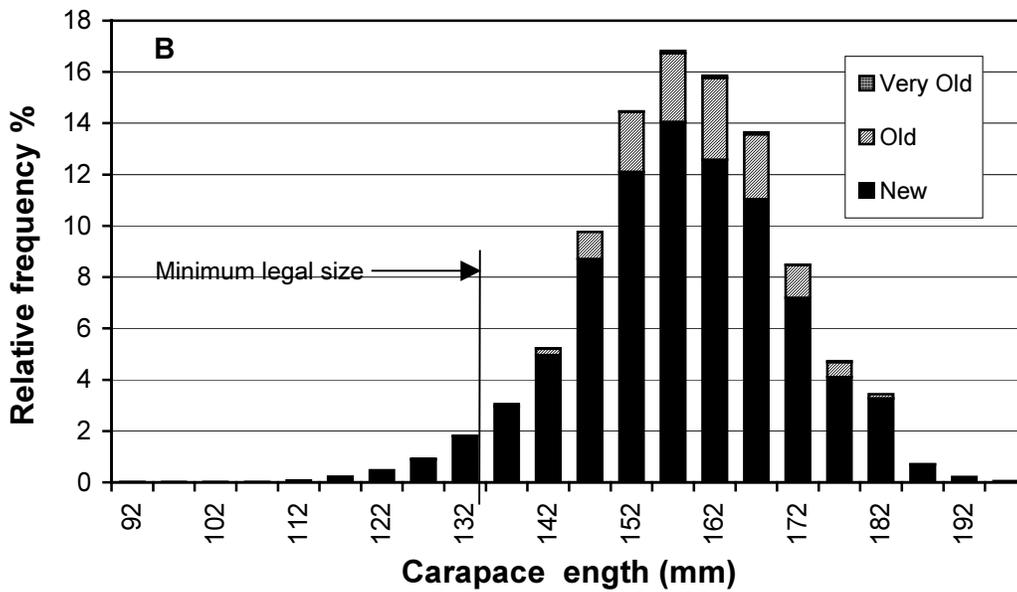
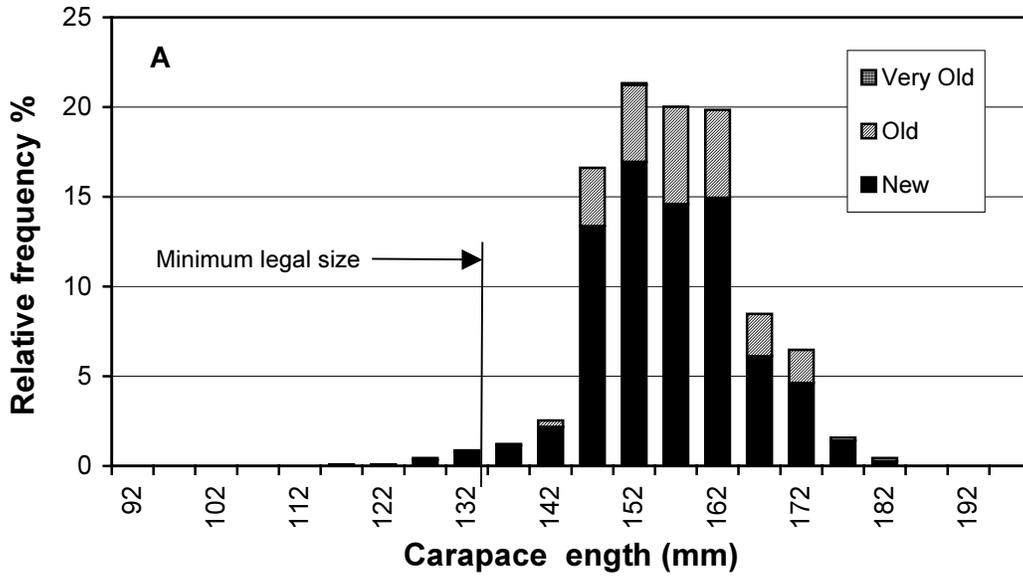


Figure 9. Relative percent size frequency and shell age from 2001 Petrel Bank red king crab surveys during a) January-February, and b) November .

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Figure 10. Location and CPUE of legal male red king crabs during the November 2001 Petrel Bank red king crab survey.

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Figure 11. Location and CPUE of sublegal male red king crabs during the November 2001 Petrel Bank red king crab survey.

Confidential Information

Figure 12. Location and CPUE of female red king crabs captured during the November 2001 Petrel Bank red king crab survey

Not Available Electronically

Figure 13. Adak red king crab observer-collected pot samples and retained catch size frequency, 1990.

Not Available Electronically

Figure 14. Adak red king crab observer-collected pot samples and retained catch size frequency, 1993.

Not Available Electronically

Figure 15. Adak commercial fishery length frequency, CPUE and harvest of red king crab, 1990-1994.

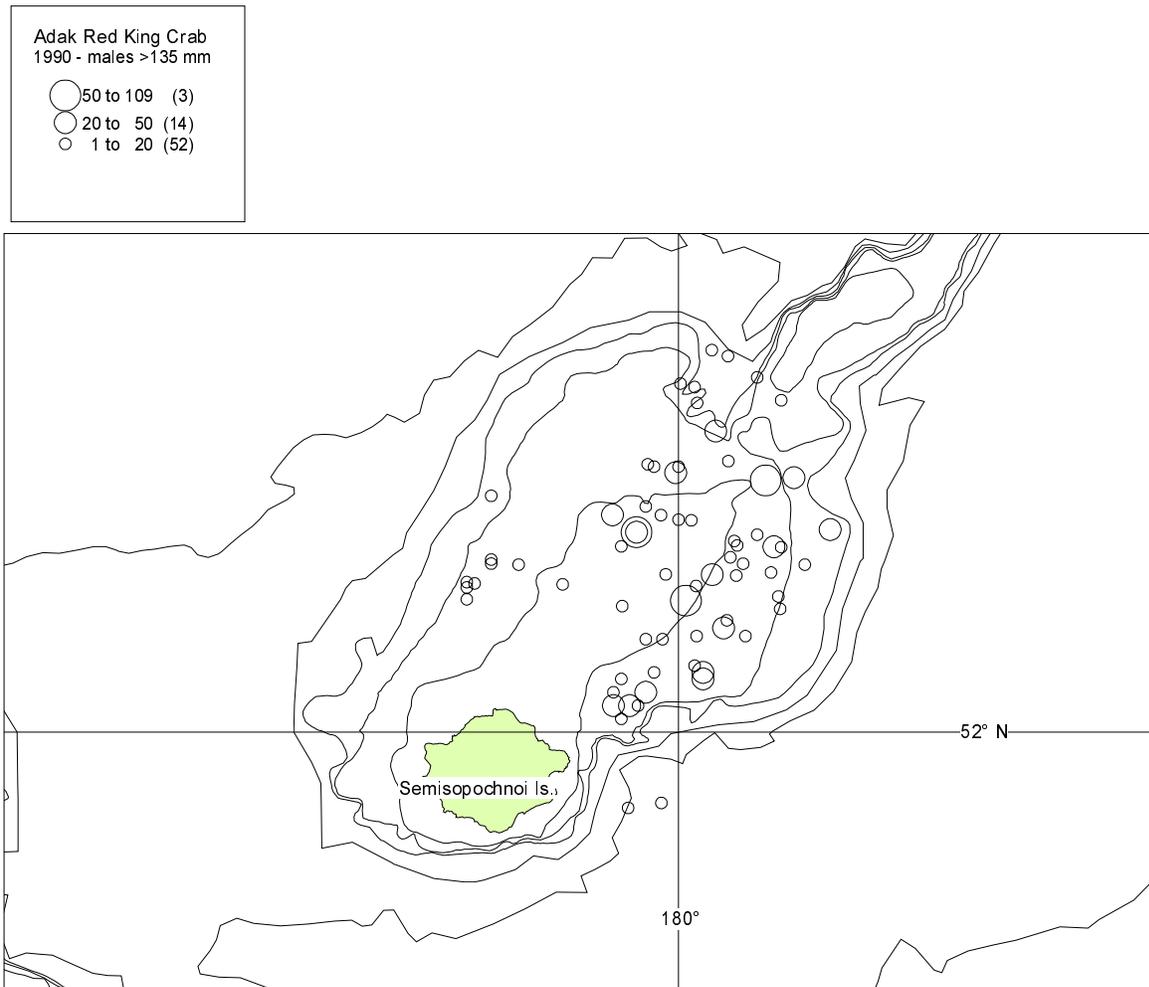


Figure 16. Location and CPUE of legal red king crabs from observer-sampled pots, 1990 - 1991.

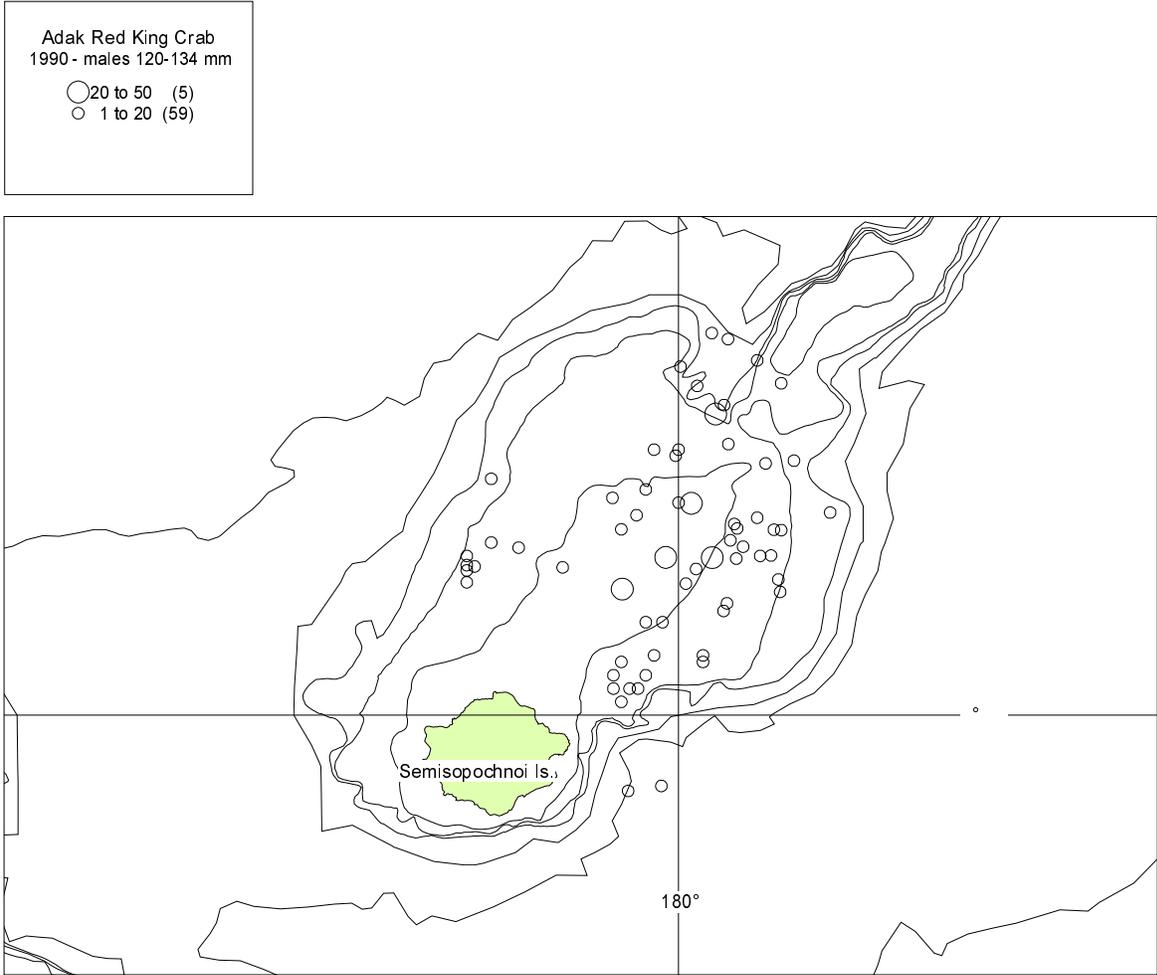


Figure 17. Location and CPUE of sublegal (pre-1) red king crabs from observer-sampled pots, 1990 - 1991.

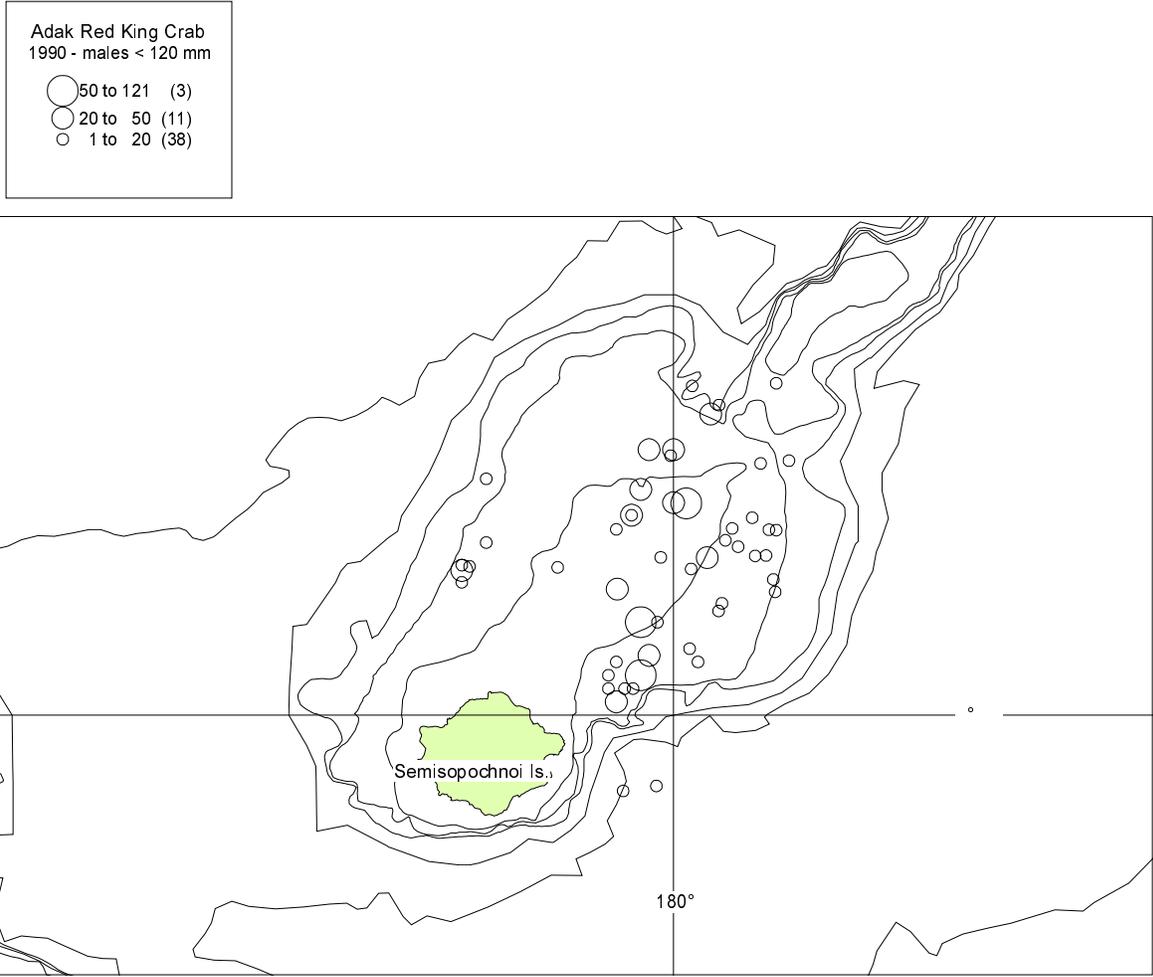


Figure 18. Location and CPUE of sublegal (pre-2) red king crabs from observer-sampled pots, 1990 - 1991.

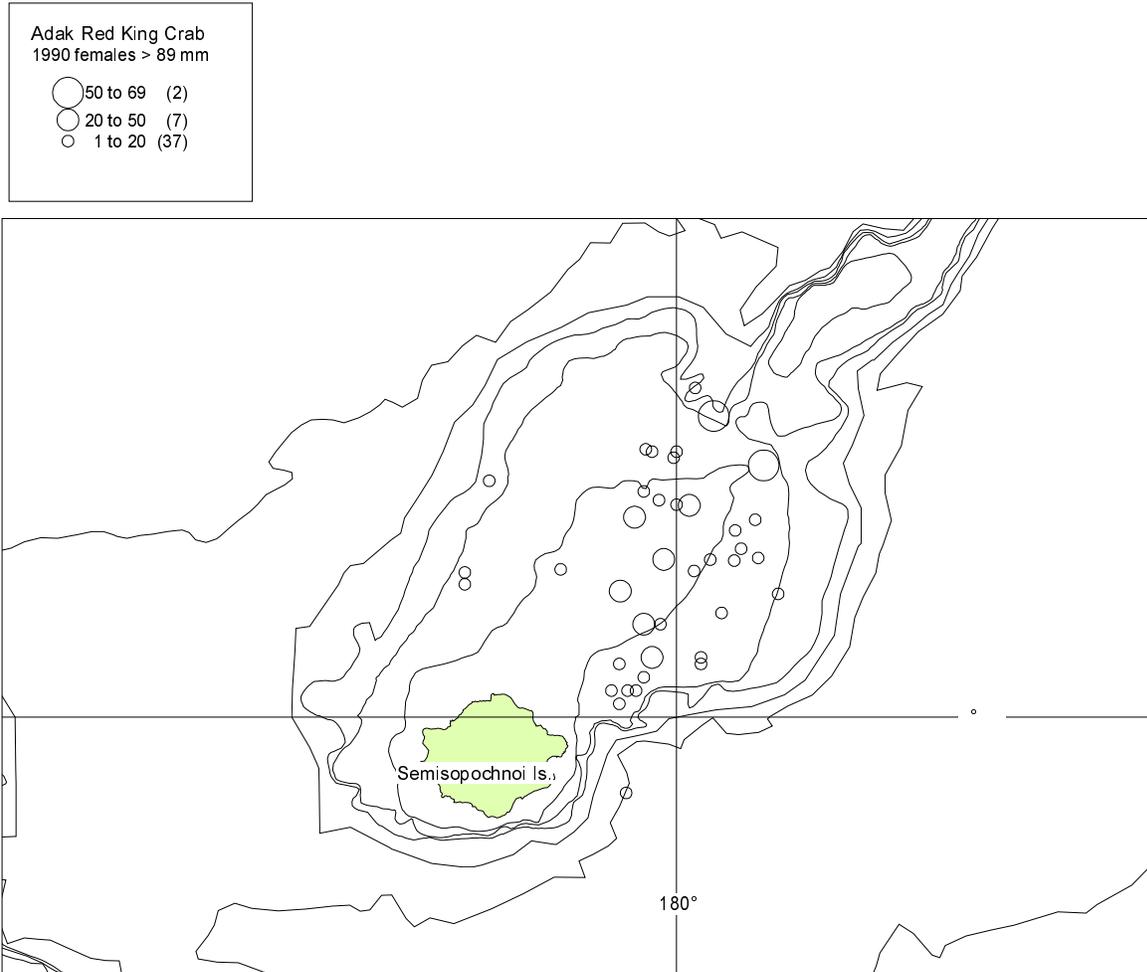


Figure 19. Location and CPUE of female red king crabs from observer-sampled pots, 1990 - 1991.

## **APPENDIX**

Appendix A. Coordinates of station corners for the January-February 2001 Petrel Bank red king crab survey.

| Station | Longitude |         |         |     | N. Latitude |         |         |
|---------|-----------|---------|---------|-----|-------------|---------|---------|
|         | Degrees   | Minutes | Seconds | W/E | Degrees     | Minutes | Seconds |
| A1      | 9         | 29      | 30.92   | E   | 51          | 52      | 8.10    |
| A1      | 9         | 29      | 58.26   | E   | 51          | 53      | .75     |
| A1      | 9         | 36      | 7.63    | E   | 51          | 52      | 20.22   |
| A1      | 9         | 36      | 16.00   | E   | 51          | 51      | .48     |
| B1      | 9         | 41      | .23     | E   | 51          | 53      | 15.03   |
| B1      | 9         | 45      | 50.43   | E   | 51          | 55      | 24.22   |
| B1      | 9         | 47      | 16.62   | E   | 51          | 54      | 18.61   |
| B1      | 9         | 42      | 42.     | E   | 51          | 52      | 8.98    |
| A2      | 79        | 24      | 49.26   | E   | 51          | 59      | 40.43   |
| A2      | 79        | 27      | .50     | E   | 51          | 59      | 38.08   |
| A2      | 79        | 27      | 53.96   | E   | 51          | 52      | 51.45   |
| A2      | 79        | 26      | 50.34   | E   | 51          | 52      | 51.50   |
| B2      | 79        | 27      | 44.99   | E   | 52          |         | 43.08   |
| B2      | 79        |         | 19.38   | E   | 52          |         | .79     |
| B2      | 79        | 32      | 51.00   | E   | 52          |         | 5.56    |
| B2      | 79        | 29      | 14.23   | E   | 51          | 59      | 56.14   |
| A3      | 9         | 26      | 3.16    | E   | 52          | 5       | 52.59   |
| A3      | 9         |         | 3.80    | E   | 52          | 8       | 18.98   |
| A3      | 9         | 34      | 24.99   | E   | 52          | 5       | 48.45   |
| A3      | 9         | 29      | 35.40   | E   | 52          |         | 28.20   |
| B3      | 9         | 32      | 7.89    | E   | 52          |         | 8.70    |
| B3      | 9         | 36      | 41.     | E   | 52          | 4       | 21.68   |
| B3      | 9         | 38      | 10.64   | E   | 52          | 2       | .       |
| B3      | 9         |         | 43.12   | E   | 52          |         | .9      |
| A4      | 79        | 34      | 40.08   | E   | 52          | 4       | 41.49   |
| A4      | 79        | 38      | 10.     | E   | 52          |         | 51.56   |
| A4      | 79        | 43      | .8      | E   | 52          |         | 9.92    |
| A4      | 79        | 39      | 46.88   | E   | 52          |         | 58.98   |
| B4      | 79        | 39      | 18.42   | E   | 52          | 2       | 45.05   |
| B4      | 79        | 43      | .03     | E   | 52          |         | 0.74    |
| B4      | 79        | 46      | 19.19   | E   | 52          | 6       | .76     |
| B4      | 79        | 41      | 30.61   | E   | 52          |         | 51.     |
| A5      | 79        | 38      | 21.     | E   | 52          |         | 59.61   |
| A5      | 79        | 41      | 53.96   | E   | 52          |         | 12.61   |
| A5      | 79        | 46      | 27.90   | E   | 52          | 10      | 47.51   |
| A5      | 79        | 43      | 2.      | E   | 52          |         | 21.     |
| B5      | 79        | 43      | 43.49   | E   | 52          |         | .00     |
| B5      | 79        | 47      | 42.95   | E   | 52          |         | 28.30   |
| B5      | 79        | 52      | 19.10   | E   | 52          |         | 26.19   |
| B5      | 79        | 47      | 50.27   | E   | 52          | 6       | 29.     |
| A6      | 79        | 45      | 51.45   | E   | 52          | 19      | 19.29   |
| A6      | 79        | 54      | 23.97   | E   | 52          | 20      | 6.68    |
| A6      | 79        | 54      | 58.     | E   | 52          |         | 34.     |
| A6      | 79        | 46      | 20.74   | E   | 52          | 16      | 45.34   |
| B6      | 79        | 49      | 0.85    | E   | 52          | 12      | 19.45   |

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| Station | Longitude |         |         | W/E | N. Latitude |         |         |
|---------|-----------|---------|---------|-----|-------------|---------|---------|
|         | Degrees   | Minutes | Seconds |     | Degrees     | Minutes | Seconds |
| B6      | 79        | 49      | 9.4     | E   | 52          | 6       | 2.77    |
| B6      | 79        | 53      | 46.     | E   | 52          | 6       | 0.65    |
| B6      | 79        | 53      | 36.97   | E   | 52          | 2       | 16.59   |
| A7      | 9         | 54      | 50.38   | E   | 52          | 20      | 6.41    |
| A7      | 9         | 53      | 20.64   | W   | 52          | 2       | 9.59    |
| A7      | 9         | 52      | 32.66   | W   | 52          | 8       | 51.03   |
| A7      | 9         | 55      | 25.84   | E   | 52          |         | 36.11   |
| B7      | 9         | 54      | 2.      | E   | 52          | 2       | 20.78   |
| B7      | 9         | 54      | 10.92   | E   | 52          | 6       | .       |
| B7      | 9         | 58      | 8.64    | E   | 52          | 6       | .65     |
| B7      | 9         | 57      | 58.90   | E   | 52          | 2       | 19.08   |
| A8      | 79        | 57      | 43.99   | W   | 52          | 0       | .04     |
| A8      | 79        | 53      | 32.14   | W   | 52          | 5       | 48.43   |
| A8      | 79        | 46      | 47.93   | W   | 52          |         | 23.41   |
| A8      | 79        | 52      | 23.03   | W   | 52          | 8       | 56.59   |
| B8      | 79        | 58      | 51.51   | E   | 52          | 5       | 53.04   |
| B8      | 79        | 55      | 47.93   | W   | 52          | 5       | 50.46   |
| B8      | 79        | 58      | 1.16    | W   | 52          | 2       | 12.88   |
| B8      | 79        | 58      | 51.51   | E   | 52          | 2       | 12.88   |
| A9      | 79        | 53      | 37.05   | E   | 52          | 5       | 28.55   |
| A9      | 79        | 58      | 11.55   | W   | 52          | 0       | 14.69   |
| A9      | 79        | 52      | 42.02   | W   | 52          | 8       | 43.34   |
| A9      | 79        | 59      | 10.67   | E   | 52          |         | 45.82   |
| B9      | 79        | 48      | 26.07   | E   | 52          | 6       | 29.45   |
| B9      | 79        | 52      | 49.70   | E   | 52          |         | 19.83   |
| B9      | 79        | 59      | 56.32   | E   | 52          |         | 14.47   |
| B9      | 79        | 53      | .       | E   | 52          | 6       | 6.64    |
| A10     | 79        | 47      | 42.45   | E   | 52          | 0       | 57.09   |
| A10     | 79        | 51      | 29.00   | E   | 52          | 5       | 9.34    |
| A10     | 79        | 58      | 36.24   | E   | 52          |         | 28.22   |
| A10     | 79        | 50      | 29.14   | E   | 5           | 59      | 45.39   |
| B10     | 79        | 41      | 55.72   | E   | 52          |         | 45.11   |
| B10     | 79        | 46      | .24     | E   | 52          | 6       | 24.90   |
| B10     | 79        | 47      | 54.53   | E   | 52          | 6       | 8.03    |
| B10     | 79        | 46      | 14.41   | E   | 51          | 59      | 28.17   |

Appendix B. Coordinates of station corners for the November 2001 Petrel Bank red king crab survey.

| Station | Longitude          |         | W/E | N. Latitude          |         | Comments     |
|---------|--------------------|---------|-----|----------------------|---------|--------------|
|         | Degrees            | Minutes |     | Degrees              | Minutes |              |
| 1       | 179                | 37.5    | E   | Semisopochnoi Island |         |              |
| 1       | 100 fathom contour |         | E   | 51                   | 55      |              |
| 1       | 100 fathom contour |         | E   | 100 fathom contour   |         |              |
| 1       | 179                | 37.5    | E   | 100 fathom contour   |         |              |
| 2       | 179                | 30      | E   | Semisopochnoi Island |         |              |
| 2       | 179                | 37.5    | E   | Semisopochnoi Island |         |              |
| 2       | 179                | 37.5    | E   | 100 fathom contour   |         |              |
| 2       | 179                | 30      | E   | 100 fathom contour   |         |              |
| 3       | 100 fathom contour |         | E   | 51                   | 55      |              |
| 3       | 179                | 30      | E   | 51                   | 55      |              |
| 3       | 179                | 30      | E   | 100 fathom contour   |         |              |
| 3       | 100 fathom contour |         | E   | 100 fathom contour   |         |              |
| 4       | 100 fathom contour |         | E   | 52                   | 0       |              |
| 4       | 179                | 30      | E   | 52                   | 0       |              |
| 4       | 179                | 30      | E   | 51                   | 55      |              |
| 4       | 100 fathom contour |         | E   | 51                   | 55      |              |
| 5       | 100 fathom contour |         | E   | 52                   | 5       |              |
| 5       | 179                | 30      | E   | 52                   | 5       |              |
| 5       | 179                | 30      | E   | 52                   | 0       |              |
| 5       | 100 fathom contour |         | E   | 52                   | 0       |              |
| 6       | 179                | 30      | E   | 52                   | 5       |              |
| 6       | 179                | 45      | E   | 52                   | 5       | Sea Lion     |
| 6       | 179                | 45      | E   | 52                   | 0       | Closure Area |
| 6       | 179                | 30      | E   | 52                   | 0       | excluded     |
| 7       | 179                | 45      | E   | 52                   | 5       |              |
| 7       | 179                | 52.5    | E   | 52                   | 5       | Sea Lion     |
| 7       | 179                | 52.5    | E   | 52                   | 0       | Closure Area |
| 7       | 179                | 45      | E   | 52                   | 0       | excluded     |
| 8       | 179                | 52.5    | E   | 52                   | 5       |              |
| 8       | 100 fathom contour |         | E   | 52                   | 5       |              |
| 8       | 100 fathom contour |         | E   | 100 fathom contour   |         |              |
| 8       | 179                | 52.5    | E   | 100 fathom contour   |         |              |
| 9       | 100 fathom contour |         | E   | 52                   | 10      |              |
| 9       | 179                | 37.5    | E   | 52                   | 10      |              |
| 9       | 179                | 37.5    | E   | 52                   | 5       |              |
| 9       | 179                | 30      | E   | 100 fathom contour   |         |              |
| 10      | 179                | 37.5    | E   | 52                   | 10      |              |
| 10      | 179                | 45      | E   | 52                   | 10      |              |
| 10      | 179                | 45      | E   | 52                   | 5       |              |
| 10      | 179                | 37.5    | E   | 52                   | 5       |              |
| 11      | 179                | 45      | E   | 52                   | 10      |              |
| 11      | 179                | 52.5    | E   | 52                   | 10      |              |
| 11      | 179                | 52.5    | E   | 52                   | 5       |              |
| 11      | 179                | 45      | E   | 52                   | 5       |              |
| 12      | 179                | 52.5    | E   | 52                   | 10      |              |
| 12      | 180                | 0       | W   | 52                   | 10      |              |
| 12      | 180                | 0       | W   | 52                   | 5       |              |
| 12      | 179                | 52.5    | E   | 52                   | 5       |              |
| 13      | 180                | 0       | W   | 52                   | 10      |              |
| 13      | 100 fathom contour |         | W   | 52                   | 10      |              |
| 13      | 100 fathom contour |         | W   | 52                   | 5       |              |
| 13      | 180                | 0       | W   | 52                   | 5       |              |
| 14      | 100 fathom contour |         | E   | 52                   | 15      |              |
| 14      | 179                | 37.5    | E   | 52                   | 15      |              |

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| Station | Longitude |                    |     | N. Latitude |                    | Comments                                |
|---------|-----------|--------------------|-----|-------------|--------------------|---|
|         | Degrees   | Minutes            | W/E | Degrees     | Minutes            |   |
| 14      | 179       | 37.5               | E   | 52          | 10                 |   |
| 14      |           | 100 fathom contour | E   | 52          | 10                 |   |
| 15      | 179       | 37.5               | E   | 52          | 15                 |   |
| 15      | 179       | 45                 | E   | 52          | 15                 |   |
| 15      | 179       | 45                 | E   | 52          | 10                 |   |
| 15      | 179       | 37.5               | E   | 52          | 10                 |   |
| 16      | 179       | 45                 | E   | 52          | 15                 |   |
| 16      | 179       | 52.5               | E   | 52          | 15                 |   |
| 16      | 179       | 52.5               | E   | 52          | 10                 |   |
| 16      | 179       | 45                 | E   | 52          | 10                 |   |
| 17      | 179       | 52.5               | E   | 52          | 15                 |   |
| 17      | 180       | 0                  | W   | 52          | 15                 |   |
| 17      | 180       | 0                  | W   | 52          | 10                 |   |
| 17      | 179       | 52.5               | E   | 52          | 10                 |   |
| 18      | 180       | 0                  | W   | 52          | 15                 |   |
| 18      | 179       | 52.5               | W   | 52          | 15                 |   |
| 18      | 179       | 52.5               | W   | 52          | 10                 |   |
| 18      | 180       | 0                  | W   | 52          | 10                 |   |
| 19      | 179       | 52.5               | W   | 52          | 15                 |   |
| 19      |           | 100 fathom contour | W   | 52          | 15                 |   |
| 19      |           | 100 fathom contour | W   | 52          | 10                 |   |
| 19      | 179       | 52.5               | W   | 52          | 10                 |   |
| 20      |           | 100 fathom contour | E   | 52          | 20                 |   |
| 20      | 179       | 45                 | E   | 52          | 20                 |   |
| 20      | 179       | 45                 | E   | 52          | 15                 |   |
| 20      |           | 100 fathom contour | E   | 52          | 15                 |   |
| 21      | 179       | 45                 | E   | 52          | 20                 |   |
| 21      | 179       | 52.5               | E   | 52          | 20                 |   |
| 21      | 179       | 52.5               | E   | 52          | 15                 |   |
| 21      | 179       | 45                 | E   | 52          | 15                 |   |
| 22      | 179       | 52.5               | E   | 52          | 20                 |   |
| 22      | 180       | 0                  | W   | 52          | 20                 |   |
| 22      | 180       | 0                  | W   | 52          | 15                 |   |
| 22      | 179       | 52.5               | E   | 52          | 15                 |   |
| 23      | 180       | 0                  | W   | 52          | 20                 |   |
| 23      | 179       | 52.5               | W   | 52          | 20                 |   |
| 23      | 179       | 52.5               | W   | 52          | 15                 |   |
| 23      | 180       | 0                  | W   | 52          | 15                 |   |
| 24      | 179       | 52.5               | W   | 52          | 20                 |   |
| 24      |           | 100 fathom contour | W   | 52          | 20                 |   |
| 24      |           | 100 fathom contour | W   | 52          | 15                 |   |
| 24      | 179       | 52.5               | W   | 52          | 15                 |   |
| 25      |           | 100 fathom contour | E   |             | 100 fathom contour |   |
| 25      | 179       | 52.5               | E   |             | 100 fathom contour |   |
| 25      | 179       | 52.5               | E   | 52          | 20                 |   |
| 25      |           | 100 fathom contour | E   | 52          | 20                 |   |
| 26      | 179       | 52.5               | E   |             | 100 fathom contour |   |
| 26      | 180       | 0                  | W   |             | 100 fathom contour |   |
| 26      | 180       | 0                  | W   | 52          | 20                 | Only waters<br>less than 100<br>fathoms |
| 26      | 179       | 52.5               | E   | 52          | 20                 |   |
| 27      | 180       | 0                  | W   |             | 100 fathom contour |   |
| 27      | 179       | 52.5               | W   |             | 100 fathom contour |   |
| 27      | 179       | 52                 | W   | 52          | 20                 |   |
| 27      | 180       | 0                  | W   | 52          | 20                 |   |
| 28      | 179       | 52.5               | W   | 52          | 28                 |   |
| 28      | 179       | 37                 | W   | 52          | 28                 | Only waters<br>less than 100<br>fathoms |
| 28      | 179       | 47.5               | W   | 52          | 20                 |   |
| 28      | 179       | 52.5               | W   | 52          | 20                 |   |

Appendix C. Pot location, soak time, depth and catch information for January-February 2001 Petrel Bank red king crab survey.

| Set Gear                 |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|--------------------------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set                 | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| Station <u>    A    </u> |            |         |             |              |             |                     |             |                |         |         |
| Date set:                | 1/20/01    |         |             |              |             |                     |             |                |         |         |
| Date pulled:             | 1/23/01    |         |             |              |             |                     |             |                |         |         |
| 1700                     | 5          | 86      | 51.51.70    | 79.3 .6      | 643         | 2                   |             | 0              | 0       |         |
| 1702                     | 52         | -88     | 51.51.76    | 79.3 .25     | 63          | 2                   | 2           | 0              | 0       |         |
| 1704                     | 52         | c-      | 51.51.80    | 179.30.94    | 632         |                     | 0           | 0              | 0       | sampled |
| 0                        | 5          | -9      | 51.51.85    | 179.30.54    | 1628        |                     | 0           | 0              | 0       |         |
| 1709                     | 5          | 03      | 51.51.88    | 179.30.25    | 806         |                     |             | 0              | 0       |         |
| 2                        | 5          | 64      | 51.51.9     | 179.29.86    | 615         |                     | 0           | 0              | 0       |         |
| 5                        | 5          | -123    | 51.51.9     | 179.29.86    | 6           |                     | 8           | 0              | 0       |         |
| 6                        | 5          | 82      | 51.51.99    | 179.29.28    | 605         |                     |             | 0              | 0       |         |
| 9                        | 46         | 58      | 51.52.25    | 179.29.27    | 23          | 2                   | 5           | 0              | 0       | sampled |
| 2                        | 46         | 9       | 54.52.25    | 179.29.52    | 8           | 72                  |             | 0              | 0       |         |
| 1724                     | 4          | X-5     | 51.52.20    | 179.29.80    | 8 4         | 72                  |             | 0              | 0       |         |
| 1726                     | 48         | 55      | 51.52.16    | 179.30.10    | 08          | 72                  | 2           | 0              | 0       |         |
| 1728                     | 48         | 02      | 51.52.12    | 179.30.40    | 03          | 2                   | 2           | 0              | 0       |         |
| 0                        | 48         |         | 51.52.0     | 179.30.69    | 658         |                     | 4           | 0              | 0       |         |
|                          | 48         | -46     | 51.52.00    | 179.30.07    | 65          |                     |             | 0              | 0       | sampled |
| 5                        | 48         | -101    | 51.51.96    | 79.3 .35     | 648         | 74                  | 0           | 0              | 0       |         |
| 9                        | 44         | 95      | 51.52.2     | 79.3 .45     | 8           | 72                  | 0           | 0              | 0       |         |
| 4                        | 42         | 92      | 51.52.30    | 79.3 .2      | 43          | 2                   | 0           | 0              | 0       |         |
| 4                        | 38         |         | 51.52.50    | 179.30.89    | 49          | 72                  | 0           | 0              | 0       |         |
| 1746                     | 40         | -47     | 51.52.28    | 179.30.50    | 54          | 72                  | 0           | 0              | 0       | sampled |
| 1759                     | 39         | -97     | 51.52.69    | 179.29.95    | 806         | 72                  |             | 0              | 0       |         |
| 1752                     | 39         | 56      | 51.52.69    | 179.29.67    | 812         | 72                  |             | 0              | 0       |         |
| 1755                     | 39         | -28     | 51.52.76    | 179.29.67    | 812         | 72                  |             | 0              | 0       |         |
| 1758                     | 36         | -70     | 51.52.90    | 179.29.45    |             |                     |             |                |         | missing |
| 80                       | 36         | -5      | 51.50.0     | 179.50.01    | 82          | 72                  | 0           | 0              | 0       |         |
| AVG                      | 45.8       |         |             |              |             | 1.8                 | 1.5         | 0.0            | 0.0     |         |

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| Set Gear     |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|--------------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set     | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| Station      | B          |         |             |              |             |                     |             |                |         |         |
| Date set:    | 1/20/01    |         |             |              |             |                     |             |                |         |         |
| Date pulled: | 1/23/01    |         |             |              |             |                     |             |                |         |         |
| 50           | 54         | 6       | 51.52.37    | 179.42.98    | 124         | 0                   | 0           | 0              | 0       |         |
| 1506         | 54         |         | 51.52.52    | 179.43.23    | 245         | 0                   | 0           | 0              | 0       |         |
| 1508         | 5          | 95      | 51.52.59    | 179.43.46    | 256         | 0                   | 0           | 0              | 0       | sampled |
| 51           | 59         | 2       | 51.52.69    | 179.43.77    | 259         | 0                   |             | 0              | 0       |         |
| 1514         | 59         | 56      | 51.52.78    | 179.44.04    | 05          | 0                   |             | 0              | 0       |         |
| 1516         | 60         | 8       | 51.52.92    | 179.44.29    |             | 0                   | 0           | 0              | 0       |         |
| 1518         | 60         | 8       | 51.53.02    | 179.44.49    | 18          | 0                   | 0           | 0              | 0       |         |
| 1520         | 6          | -48     | 51.53.15    | 179.44.74    | 22          | 0                   | 0           | 0              | 0       | sampled |
| 1524         | 62         | -9      | 51.53.29    | 179.45.12    | 27          | 0                   | 0           | 0              | 0       |         |
| 1529         | 64         | 105     | 51.53.43    | 179.45.30    |             | 0                   | 0           | 0              | 0       |         |
| 53           | 64         | 0       | 52.53.68    | 179.45.52    | 9           | 0                   |             | 0              | 0       |         |
| 1535         | 6          | -22     | 51.53.73    | 179.45.74    | 46          | 0                   | 0           | 0              | 0       |         |
| 53           | 62         | -16     | 51.53.86    | 179.45.89    | 5           | 0                   | 0           | 0              | 0       |         |
| 1539         | 56         | 4       | 51.53.91    | 179.45.62    | 5           | 0                   | 0           | 0              | 0       |         |
| 1542         | 55         | 122     | 51.53.84    | 179.45.27    | 1404        | 0                   | 0           | 0              | 0       |         |
| 1544         | 55         | 92      | 51.53.67    | 179.44.99    | 420         | 0                   | 0           | 0              | 0       |         |
| 54           | 54         | -28     | 51.53.58    | 179.44.65    | 4           |                     | 0           | 0              | 0       |         |
| 1549         | 50         | -10     | 51.53.51    | 179.44.30    | 422         |                     | 0           | 0              | 0       |         |
| 1552         | 4          | 69      | 51.53.45    | 179.43.89    | 429         |                     | 2           | 0              | 0       |         |
| 1554         | 45         | -52     | 51.53.40    | 179.43.47    | 435         |                     | 0           | 0              | 0       | sampled |
| 1556         | 4          | -6      | 51.53.35    | 179.43.13    | 44          |                     | 0           | 0              | 0       |         |
| 1559         | 32         | -24     | 51.53.29    | 179.42.09    | 440         |                     | 0           | 0              | 0       |         |
| 60           |            | 5       | 51.53.21    | 179.42.30    | 455         |                     | 0           | 0              | 0       | sampled |
| 60           | 26         | 124     | 51.53.17    | 179.41.95    | 50          |                     | 0           | 0              | 0       |         |
| 1606         | 21         | -79     | 51.53.11    | 179.41.58    | 507         |                     | 0           | 0              | 0       |         |
| AVG          | 51.7       |         |             |              |             | 70.4                | 0.2         | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 2        | 4          | 95      | 51.53.37    | 179.26.98    | 2025        |                     | 5           | 0              | 0       |         |
| 21 4     | 4          | 823     | 51.53.37    | 179.26.98    | 2020        |                     |             | 0              | 0       | sampled |
| 21 6     | 4          | 588     | 51.53.37    | 179.26.98    | 2012        |                     | 20          | 0              |         |         |
| 21 9     | 4          | 95      | 51.53.37    | 179.26.98    | 2006        |                     | 0           |                | 0       |         |
| 2122     | 4          | 8       | 51.53.37    | 179.26.98    | 2000        |                     | 4           | 0              | 0       |         |
| 2124     | 40         | 853     | 51.53.37    | 179.26.98    | 952         | 70                  | 24          | 0              | 0       |         |
| 212      | 40         | 40      | 51.53.37    | 179.26.98    | 946         | 70                  |             | 0              | 0       |         |
| 21 0     | 40         | 5       | 51.53.37    | 179.26.98    | 940         | 70                  |             | 0              | 0       |         |
| 21 4     |            | 836     | 51.53.37    | 179.26.98    | 932         | 70                  | 9           | 0              | 0       |         |
| 21 6     | 36         | =12     | 51.53.37    | 179.26.98    | 927         | 0                   | 0           | 0              | 0       | sampled |
| 2140     |            | 62      | 51.53.37    | 179.26.98    | 920         | 70                  | 0           | 0              | 0       |         |
| 214      |            | =3      | 51.53.37    | 179.26.98    | 21 4        | 70                  | 0           | 0              | 0       |         |
| 2146     | 38         | =9      | 51.53.37    | 179.26.98    | 2109        | 69                  | 0           | 0              | 0       |         |
| 2149     | 8          | =10     | 51.53.37    | 179.26.98    | 2102        | 69                  | 0           | 0              | 0       | sampled |
| 2150     | 8          | =14     | 51.53.37    | 179.26.98    | 857         | 69                  |             | 0              | 0       |         |
| 215      | 8          | =1      | 51.53.37    | 179.26.98    | 849         | 69                  | 2           | 0              | 0       |         |
| 2156     | 8          | 874     | 51.53.37    | 179.26.98    | 848         | 69                  |             | 0              | 0       |         |
| 2202     | 40         | =21     | 51.53.37    | 179.26.98    | 836         | 69                  | 0           | 0              | 0       |         |
| 22       | 48         | 11-Jan  | 51.53.37    | 179.26.98    | 2057        | 0                   | 5           | 0              | 0       |         |
| 2240     | 49         | =1      | 51.53.37    | 179.26.98    | 2103        | 0                   |             | 0              | 0       |         |
| 224      | 5          | =22     | 51.53.37    | 179.26.98    | 2109        | 70                  |             | 0              | 0       |         |
| 2248     | 52         | =16     | 51.53.37    | 179.26.98    | 21 5        | 70                  | 5           | 0              | 0       |         |
| 2250     | 52         | =2      | 51.53.37    | 179.26.98    | 212         |                     | 2           | 0              |         |         |
| 2252     | 55         | =27     | 51.53.37    | 179.26.98    | 212         |                     | 21          | 0              | 2       |         |
| 2255     | 59         | =7      | 51.53.37    | 179.26.98    | 21 5        |                     | 24          | 0              | 2       | sampled |
| AVG      | 42.7       |         |             |              |             | 0.1                 | 0.7         | 0.0            | 0.2     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 0        |            | R       | 52.01.39    | 179.32.15    | 01          | 62                  | 0           | 0              | 0       |         |
| 0        | 2          | R       | 52.01.39    | 179.31.9     | 01          | 62                  | 0           | 0              | 0       |         |
| 0        | 4          | R       | 52.01.39    | 179.31.94    | 01          | 62                  |             | 0              | 0       |         |
| 1208     | 44         | WPL     | 52.01.39    | 179.31.19    | 0816        | 68                  | 6           | 0              | 0       |         |
| 1208     | 44         | R       | 52.01.39    | 179.32.06    | 2022        | 68                  | 9           | 0              | 0       |         |
| 1208     | 6          | R       | 52.01.39    | 179.30.92    | 01          | 6                   | 8           | 0              | 0       |         |
| 1208     |            | R       | 52.01.39    | 179.30.73    | 0658        | 6                   | 0           | 0              | 0       |         |
| 1208     |            | R       | 52.01.39    | 179.30.53    | 0701        | 6                   | 0           | 0              | 0       |         |
| 1208     | 8          | R       | 52.01.39    | 179.30.35    | 0707        | 6                   | 0           | 0              | 0       |         |
| 1208     | 2          | R       | 52.01.39    | 179.30.02    | 07 6        | 6                   | 0           | 0              | 0       | sampled |
| 1208     | 6          | R       | 52.01.39    | 179.29.68    | 0722        | 6                   | 0           | 0              | 0       |         |
| 1208     | 4          | R       | 52.01.39    | 179.29.31    | 0728        | 6                   | 0           | 0              | 0       |         |
| 1208     | 44         | R       | 52.01.39    | 179.28.94    | 07 5        | 6                   | 0           | 0              | 0       | sampled |
| 1208     | 4          | R       | 52.01.39    | 179.28.41    | 0742        | 68                  | 2           | 0              | 0       |         |
| 1208     | 44         | 818     | 52.01.39    | 179.28.12    | 0749        | 68                  | 4           | 0              | 0       |         |
| 1208     | 45         | 8       | 52.01.39    | 179.28.04    | 0922        | 69                  |             | 0              | 0       |         |
| 1208     | 45         | 664     | 52.01.39    | 179.28.29    | 0914        | 69                  |             |                | 0       |         |
| 1208     | 45         | 861     | 52.01.39    | 179.28.68    | 0908        | 69                  | 0           | 0              | 0       |         |
| 1208     | 45         | R       | 52.01.39    | 179.28.08    | 0900        | 69                  | 2           | 0              | 0       | sampled |
| 1208     | 45         | R       | 52.01.39    | 179.29.29    | 0853        | 69                  | 2           | 0              | 0       |         |
| 1208     | 46         | R       | 52.01.39    | 179.29.59    | 0846        | 69                  | 8           | 0              | 0       |         |
| 1208     | 46         | 83      | 52.01.39    | 179.29.86    | 0841        | 69                  | 6           | 0              | 0       | sampled |
| 1208     | 4          | 4       | 52.01.39    | 179.30.19    | 083         | 68                  | 6           | 0              | 0       |         |
| 1208     | 49         | 54      | 52.01.39    | 179.30.52    | 0122        | 6                   |             | 0              | 0       |         |
| 1208     | 48         | 5       | 52.01.39    | 179.30.82    | 01          | 61                  | 5           | 0              | 0       |         |
| AVG      | 41.0       |         |             |              |             | 66.4                | 4.0         | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 1939     | 58         | 5       | 52.03.94    | 179.29.93    | 1610        | 69                  |             | 0              | 0       |         |
| 1946     | 58         | 6       | 52.04.08    | 179.30.29    | 61          | 69                  |             | 0              | 0       | sampled |
| 2012     | 58         | 8       | 52.04.29    | 179.30.61    | 628         | 68                  |             | 0              | 0       |         |
| 2019     | 60         | 9       | 52.04.38    | 179.30.77    | 634         | 68                  | 0           | 0              | 0       |         |
| 2024     | 6          | 0       | 52.04.48    | 179.31.96    | 639         | 68                  |             | 0              | 0       |         |
| 2038     | 6          |         | 52.04.69    | 179.31.20    | 644         | 68                  | 0           | 0              | 0       | sampled |
| 2045     | 6          | 2       | 52.04.76    | 179.31.40    | 651         | 68                  | 0           | 0              | 0       |         |
| 205      | 60         |         | 52.04.85    | 179.31.55    | 656         | 68                  | 0           | 0              | 0       |         |
| 210      | 60         | 4       | 52.05.05    | 179.31.75    | 00          | 68                  | 0           | 0              | 0       |         |
| 2108     | 58         | 5       | 52.05.11    | 179.31.99    | 07          | 68                  |             | 0              | 0       |         |
| 21 5     | 59         | 6       | 52.05.27    | 179.32.19    | 2           | 68                  | 0           | 0              | 0       |         |
| 212      | 58         |         | 52.05.43    | 179.32.40    |             | 68                  | 0           | 0              | 0       |         |
| 2        | 58         | 8       | 52.05.56    | 179.32.58    | 22          | 68                  | 0           | 0              | 0       |         |
| 2204     | 58         | 20      | 52.05.51    | 179.33.10    | 457         | 65                  | 0           | 0              | 0       | sampled |
| 220      | 5          | 9       | 52.05.33    | 179.33.04    | 503         | 65                  | 0           | 0              | 0       |         |
| 22       | 58         | 4       | 52.05.20    | 179.32.94    | 509         | 65                  | 0           | 0              | 0       |         |
| 22       | 59         | 2       | 52.05.09    | 179.32.80    | 515         | 65                  | 0           | 0              | 0       |         |
| 2215     | 60         |         | 52.04.91    | 179.32.66    | 522         | 65                  | 0           | 0              | 0       | sampled |
| 2218     | 59         |         | 52.04.81    | 179.32.49    | 527         | 65                  | 0           | 0              | 0       |         |
| 222      | 60         | 2       | 52.04.67    | 179.32.21    | 53          | 65                  | 2           | 0              | 0       |         |
| 222      | 60         | 22      | 52.04.56    | 179.31.98    | 541         | 65                  | 0           | 0              | 0       | sampled |
| 2225     | 59         | 2       | 52.04.48    | 179.31.79    | 546         | 65                  | 0           | 0              | 0       |         |
| 2228     | 56         | 24      | 52.04.30    | 179.31.52    | 553         | 65                  |             | 0              | 0       |         |
| 2230     | 55         | 25      | 52.04.19    | 179.31.34    | 559         | 65                  | 0           | 0              | 0       | sampled |
| AVG      | 58.8       |         |             |              |             | 66.7                | 0.7         | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 1815     | 52         | 56      | 52.03.35    | 179.31.09    | 1210        | 66                  |             | 0              | 0       |         |
| 1816     | 52         | -69     | 52.03.42    | 179.31.28    | 205         | 55                  | 9           |                | 0       | sampled |
| 1816     | 5          | -28     | 52.03.49    | 179.31.48    | 200         | 66                  | 0           | 0              | 0       |         |
| 1820     | 52         | -9      | 52.03.58    | 179.31.      | 56          | 66                  | 0           | 0              | 0       | sampled |
| 1822     | 54         | -47     | 52.03.65    | 179.31.96    | 51          | 66                  |             | 0              | 0       |         |
| 1824     | 54         |         | 52.03.72    | 179.32.23    | 46          | 65                  | 0           | 0              | 0       | sampled |
| 1826     | 54         | -92     | 52.03.81    | 179.32.46    | 42          | 65                  |             | 0              | 0       |         |
| 1828     | 54         | 96      | 52.03.89    | 179.32.70    | 6           | 65                  | 9           | 0              | 0       | sampled |
| 1829     | 54         | 58      | 52.03.97    | 179.32.92    |             | 65                  |             | 0              | 0       |         |
| 1830     | 55         | 9       | 52.04.03    | 179.33.      | 26          | 65                  | 6           |                | 0       | sampled |
| 1832     | 54         | X-5     | 52.04.15    | 179.33.38    | 22          | 65                  |             | 0              | 0       |         |
| 1834     | 54         | 02      | 52.04.23    | 179.33.56    |             | 65                  | 9           | 0              | 0       | sampled |
| 1836     | 55         | 55      | 52.04.33    | 179.33.8     | 6           | 66                  |             | 4              | 0       |         |
| 1840     | 55         |         | 52.04.46    | 179.33.25    | 225         | 66                  |             | 2              | 0       |         |
| 1842     | 55         | -46     | 52.04.37    | 179.32.98    | 23          | 66                  | 8           | 0              | 0       |         |
| 1845     | 55         | -10     | 52.04.25    | 179.32.61    | 236         | 66                  | 2           | 0              | 0       |         |
| 84       | 55         | 86      | 52.04.17    | 179.32.32    | 242         | 66                  | 40          | 2              | 0       |         |
| 1849     | 55         | -88     | 52.04.08    | 179.32.01    | 247         | 66                  |             | 0              | 0       |         |
| 85       | 54         | C-      | 52.03.98    | 179.31.69    | 252         | 66                  | 2           | 0              | 0       |         |
| 85       | 54         | -9      | 52.03.83    | 179.31.4     | 257         | 66                  |             | 0              | 0       |         |
| 1855     | 55         | 0       | 52.03.75    | 179.31.      | 02          | 66                  |             | 0              | 0       |         |
| 1856     | 55         | -64     | 52.03.67    | 179.30.92    | 06          | 66                  | 2           | 0              | 0       |         |
| 1858     | 55         | -2      | 52.03.67    | 179.30.69    |             | 66                  |             | 0              | 0       |         |
| 1900     | 54         | 82      | 52.03.62    | 179.30.39    | 6           | 66                  | 5           | 0              | 0       |         |
| 90       | 52         | 24      | 52.03.52    | 179.31.09    | 21          | 66                  |             | 0              | 0       |         |
| AVG      | 54.0       |         |             |              | 27          | 65.3                | .4          | 0.4            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 5        | 8          | 24      | 52.04.87    | 179.35.18    | 191         | 5                   | 4           | 8              | 26      |         |
| 5        | 58         | 82      | 52.05.00    | 179.35.38    | 91          | 5                   | 64          | 4              | 9       |         |
| 5        | 59         | -2      | 52.05.13    | 179.35.57    | 922         | 5                   | 63          | 2              | 2       |         |
| 5        | 59         | -64     | 52.05.28    | 179.35.76    | 927         | 54                  | 86          | 0              | 0       |         |
| 5        | 58         | 0       | 52.05.37    | 179.35.92    | 934         | 54                  | 62          | 2              | 0       | sampled |
| 5        | 5          | -9      | 52.05.54    | 179.36.12    | 938         | 54                  | 2           | 0              | 0       |         |
| 5        | 56         | C-      | 52.05.68    | 179.36.29    | 941         | 54                  |             | 0              | 0       |         |
| 5        | 56         | -88     | 52.05.83    | 179.36.48    | 945         | 54                  |             |                | 0       |         |
| 5        | 56         | 86      | 52.05.96    | 179.38.85    | 950         | 54                  | 8           | 0              | 0       | sampled |
| 5        | 56         | -10     | 52.06.10    | 179.32.82    | 955         | 54                  | 2           | 0              | 0       |         |
| 5        | 55         | 46      | 52.06.27    | 179.37.02    | 956         | 54                  | 2           | 0              | 0       |         |
| 5        | 55         |         | 52.06.44    | 179.37.22    | 2002        | 54                  | 24          | 0              |         |         |
| 5        | 56         | 55      | 52.06.64    | 179.37.44    | 2007        | 54                  | 6           |                |         |         |
| 5        | 56         | 56      | 52.06.78    | 179.37.6     | 201         | 54                  | 54          | 0              | 8       |         |
| 5        | 56         | -69     | 52.06.91    | 179.37.      | 201         | 54                  | 20          | 0              | 0       | sampled |
| 5        | 66         | 28      | 52.06.88    | 179.38.71    | 840         | 5                   | 0           | 0              | 0       |         |
| 5        | 56         | -9      | 52.06.72    | 179.38.54    | 836         | 5                   | 0           | 0              | 0       |         |
| 5        | 56         | -4      | 52.06.57    | 179.38.39    | 83          | 5                   | 0           | 0              | 0       | sampled |
| 5        | 56         | 00      | 52.06.11    | 179.38.31    | 824         | 5                   | 0           | 0              | 0       |         |
| 5        | 56         | 9       | 52.06.23    | 179.38.00    | 818         | 52                  | 0           | 0              | 0       |         |
| 5        | 56         | -82     | 52.06.09    | 179.37.82    | 815         | 52                  |             | 0              | 0       | sampled |
| 5        | 56         | 95      | 52.05.97    | 179.37.65    | 807         | 52                  | 6           | 0              | 0       |         |
| 5        | 56         | 58      | 52.05.82    | 179.37.44    | 805         | 52                  | 28          |                | 0       |         |
| 5        | 55         | X-5     | 52.05.69    | 179.37.24    | 800         | 52                  | 27          | 0              |         | sampled |
| 5        | 55         | 02      | 52.05.51    | 179.37.06    | 53          | 52                  |             | 0              |         |         |
| AVG      | 56.0       |         |             |              |             | 53.2                | 1.4         | 0.8            | 2.4     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 1942     | 40         | -79     | 52.04.31    | 179.40.93    | 2044        | 25                  | 0           | 0              | 0       |         |
| 1945     | 8          | -24     | 52.04.42    | 179.41.25    | 2051        | 25                  | 0           | 0              | 0       | sampled |
| 94       | 9          | -6      | 52.04.54    | 179.41.52    | 2054        | 25                  | 0           | 0              | 0       |         |
| 1950     | 40         | 69      | 52.04.64    | 179.41.77    | 2058        | 25                  | 0           | 0              | 0       |         |
| 1952     | 40         | -52     | 52.04.76    | 179.42.08    | 2102        | 25                  | 0           | 0              | 0       | sampled |
| 1954     | 40         | -102    | 52.04.84    | 179.42.28    | 2108        | 25                  | 0           | 0              | 0       |         |
| 1956     | 40         | 2       | 52.04.94    | 179.42.54    | 21 2        | 25                  | 0           | 0              | 0       |         |
| 1958     | 8          | 4       | 52.05.08    | 179.42.85    | 21          | 25                  | 0           | 0              | 0       | sampled |
| 2000     | 8          | -22     | 52.05.21    | 179.43.13    | 2121        | 25                  | 5           | 0              | 0       |         |
| 200      | 8          | -90     | 52.05.32    | 179.43.38    | 2126        | 25                  | 0           | 0              | 0       |         |
| 200      |            | 92      | 52.05.45    | 179.43.68    | 21          | 25                  |             | 0              | 0       |         |
| 2005     |            | -26     | 52.05.54    | 179.43.90    | 21 5        | 26                  | 0           | 0              | 0       | sampled |
| 2006     |            | -16     | 52.05.63    | 179.44.13    | 2140        | 26                  | 0           | 0              | 0       |         |
| 2008     |            | 0       | 52.05.74    | 179.44.40    | 2145        | 26                  | 0           | 0              | 0       |         |
| 2010     | 6          | -48     | 52.05.85    | 179.44.67    | 2151        | 26                  | 0           | 0              | 0       |         |
| 20       | 5          | 8       | 52.05.98    | 179.44.98    | 2155        | 26                  | 0           | 0              | 0       | sampled |
| 20       | 5          |         | 52.06.05    | 179.45.19    | 2200        | 26                  | 0           | 0              | 0       |         |
| 2015     | 4          | -76     | 52.06.16    | 179.45.48    | 2206        | 26                  | 0           | 0              | 0       |         |
| 20       | 4          |         | 52.06.24    | 179.45.70    | 2210        | 26                  | 0           | 0              | 0       | sampled |
| 2028     | 8          | 8       | 52.06.64    | 179.11.28    | 2044        | 24                  | 0           | 0              | 0       |         |
| 2030     | 9          | -56     | 52.06.70    | 179.43.92    | 2039        | 24                  | 0           | 0              | 0       |         |
| 2032     | 40         | 95      | 52.06.76    | 179.43.66    | 2035        | 24                  | 0           | 0              | 0       |         |
| 2035     | 42         | 2       | 52.06.81    | 179.43.40    | 203         | 24                  | 0           | 0              | 0       |         |
| 203      | 44         | -67     | 52.06.87    | 179.43.21    | 2026        | 24                  | 0           | 0              | 0       |         |
| AVG      | 38.2       |         |             |              |             | 25.1                | 0.3         | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |            |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|------------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment    |
| 1802     | 56         | 8       |             |              | 2300        | 5                   | 2           | 0              | 0       |            |
| 1802     | 55         |         | 52.07.85    | 179.39.20    | 2325        | 5                   | 0           | 0              | 0       |            |
| 1802     | 55         | 6       | 52.07.85    | 179.39.45    | 23          | 5                   | 0           | 0              | 0       |            |
| 1802     | 55         | 5       | 52.08.14    | 179.39.72    | 2340        | 54                  | 0           | 0              | 0       | sampled    |
| 1802     | 55         | 4       | 52.07.27    | 179.39.95    | 2345        | 54                  | 0           | 0              | 0       |            |
| 1802     | 54         |         | 52.07.45    | 179.40.24    | 2353        | 54                  | 0           | 0              | 0       | sampled    |
| 1802     | 56         | 2       | 52.07.58    | 179.40.50    | 2359        | 54                  |             | 0              | 0       |            |
| 1802     | 56         |         | 52.07.72    | 179.40.78    | 0007        | 54                  | 0           | 0              | 0       | sampled    |
| 1802     | 56         | 0       | 52.07.86    | 179.41.07    | 0014        | 54                  | 2           | 0              | 0       |            |
| 1802     | 56         | 9       | 52.07.97    | 179.41.39    | 0021        | 54                  |             | 0              | 0       | sampled    |
| 1802     | 55         | 8       | 52.09.08    | 179.41.72    | 0027        | 54                  |             | 0              | 0       |            |
| 1802     | 55         |         | 52.09.22    | 179.02.07    | 940         | 74                  | 2           | 0              | 0       | buoys down |
| 1802     | 55         | 6       | 52.09.43    | 179.42.39    | 0039        | 55                  |             | 0              | 0       |            |
| 1802     | 54         | 5       | 52.09.56    | 179.42.67    | 0045        | 55                  |             | 0              | 0       |            |
| 1802     | 5          | 2       | 52.09.70    | 179.42.96    | 0052        | 55                  |             | 0              | 0       | sampled    |
| 1802     | 5          |         | 52.09.86    | 179.43.26    | 0100        | 55                  | 4           | 0              | 0       |            |
| 1802     | 52         |         | 51.10.02    | 179.43.59    | 0107        | 55                  | 0           | 0              | 0       |            |
| 1802     | 52         | 2       | 52.10.16    | 179.43.84    | 01 4        | 55                  | 0           | 0              | 0       | sampled    |
| 1802     | 5          | 4       | 52.10.27    | 179.44.05    | 0121        | 55                  | 0           | 0              | 0       |            |
| 1802     | 5          | 9       | 52.10.48    | 179.44.29    | 852         |                     | 0           | 0              | 0       | buoys down |
| 1802     | 50         | 20      | 52.10.40    | 179.44.55    | 85          |                     | 0           | 0              | 0       | buoys down |
| 1802     | 4          | 25      | 52.10.37    | 179.44.92    | 90          |                     | 0           | 0              | 0       | buoys down |
| 1802     | 46         | 4       | 52.10.35    | 179.45.27    | 909         |                     | 0           | 0              | 0       | buoys down |
| 1802     | 45         | 22      | 52.10.32    | 179.45.50    | 914         |                     | 0           | 0              | 0       | buoys down |
| 1802     | 42         |         | 52.10.20    | 179.15.82    | 010         |                     | 0           | 0              | 0       | buoys down |
| AVG      | 52.6       |         |             |              |             | 59.5                | 0.6         | 0.0            | 0.0     |            |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 0542     | 40         | 69      | 52.1.05     | 179.50.72    | 422         |                     | 0           | 0              | 0       |         |
| 0548     | 9          | 24      | 52.10.86    | 179.50.31    | 418         |                     | 0           | 0              | 0       | sampled |
| 055      | 9          | 9       | 52.10.71    | 179.49.94    | 412         | 32                  | 0           | 0              | 0       |         |
| 0555     |            | 6       | 52.10.51    | 179.49.49    | 400         | 32                  | 0           | 0              | 0       |         |
| 0559     | 4          | 68      | 52.20.54    | 179.48.04    | 58          | 32                  | 0           | 0              | 0       |         |
| 060      | 9          | 4       | 52.10.19    | 179.48.52    | 55          | 32                  | 0           | 0              | 0       | sampled |
| 0606     |            | 52      | 52.10.07    | 179.48.13    | 47          | 2                   | 0           | 0              | 0       |         |
| 0610     |            | 2       | 52.09.93    | 179.47.82    | 41          | 2                   | 0           | 0              | 0       |         |
| 0612     |            | 0       | 52.09.81    | 179.47.56    | 6           |                     | 0           | 0              | 0       |         |
| 0614     |            | 90      | 52.09.72    | 179.47.26    | 25          |                     | 2           | 0              | 0       |         |
| 06       |            | 22      | 52.09.63    | 179.46.94    | 9           |                     | 0           | 0              | 0       | sampled |
| 0619     | 43         | 26      | 52.09.53    | 179.46.58    | 05          |                     | 4           | 0              | 0       |         |
| 062      |            | 92      | 52.09.43    | 179.46.29    | 00          |                     | 0           | 0              | 0       |         |
| 0628     |            | 0       | 52.09.03    | 179.45.68    | 255         | 30                  | 0           | 0              | 0       | sampled |
| 0630     | 45         | 6       | 52.08.86    | 179.45.92    | 251         | 0                   | 2           | 0              | 0       |         |
| 0632     | 43         | 8       | 52.08.72    | 179.46.11    | 246         | 30                  | 0           | 0              | 0       |         |
| 0634     |            | 48      | 52.08.55    | 179.46.25    | 21          | 0                   | 0           | 0              | 0       |         |
| 0636     | 42         | 05      | 52.08.37    | 179.46.32    | 236         | 30                  | 0           | 0              | 0       | sampled |
| 0630     | 43         | 0       | 52.08.20    | 179.16.16    | 23          | 0                   | 0           | 0              | 0       |         |
| 0642     |            | 8       | 52.07.98    | 179.46.68    | 227         | 0                   | 0           | 0              | 0       |         |
| 0644     | 42         |         | 52.07.79    | 179.46.83    | 222         | 30                  | 0           | 0              | 0       |         |
| 0646     | 45         | 98      | 52.07.61    | 179.47.02    | 21          | 29                  | 0           | 0              | 0       | sampled |
| 0648     | 42         | 95      | 52.07.44    | 179.47.19    | 212         | 29                  | 0           | 0              | 0       |         |
| 0650     | 42         | 2       | 52.07.25    | 179.46.38    |             |                     |             |                |         |         |
| 0652     | 42         | 6       | 52.07.07    | 179.46.57    |             |                     |             |                |         |         |
| AVG      | 42.6       |         |             |              |             | 29.6                | 0.0         | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 0236     | 55         | 4       | 52.1.93     | 179.53.51    | 300         | 58                  | 189         |                | 2       |         |
| 0236     | 55         | 2       | 52.1.96     | 179.53.07    | 0           | 59                  | 81          | 9              | 4       |         |
| 0236     | 55         |         | 52.18.01    | 179.52.73    | 20          | 59                  | 47          |                |         |         |
| 0236     | 54         |         | 52.18.05    | 179.52.46    | 28          | 59                  |             | 6              | 2       |         |
| 0236     | 54         | 2       | 52.18.10    | 179.52.18    | 6           | 59                  | 82          | 4              | 2       | sampled |
| 0236     | 5          | 5       | 52.18.13    | 179.51.87    | 45          | 59                  | 8           | 5              |         |         |
| 0236     | 55         | 6       | 52.18.19    | 179.51.57    | 53          | 59                  | 49          | 20             | 2       |         |
| 0236     | 56         | 8       | 52.18.26    | 179.51.23    | 400         | 59                  | 46          | 6              | 2       | sampled |
| 0236     | 5          | 9       | 52.18.33    | 179.50.91    | 408         | 60                  |             | 2              |         |         |
| 0236     | 5          | 0       | 52.18.41    | 179.50.54    | 414         | 60                  | 90          |                |         |         |
| 0236     | 58         | 2       | 52.18.48    | 179.50.21    | 421         | 60                  | 98          |                | 0       |         |
| 0236     | 6          |         | 52.18.55    | 179.49.88    | 429         | 60                  | 64          | 4              | 0       |         |
| 0236     | 62         | 4       | 52.18.62    | 179.49.58    | 43          | 60                  | 53          | 5              | 0       |         |
| 0236     | 62         | 5       | 52.18.69    | 179.49.26    | 444         | 60                  | 62          | 6              | 0       |         |
| 0236     | 6          |         | 52.18.75    | 179.48.94    | 449         | 60                  | 69          | 6              | 2       |         |
| 0236     | 64         | 6       | 52.18.82    | 179.48.56    | 459         | 60                  | 83          | 4              | 2       |         |
| 0236     | 65         |         | 62.18.80    | 179.48.18    | 507         | 6                   | 46          |                | 0       | sampled |
| 0236     | 66         | 8       | 52.18.94    | 179.47.90    | 512         | 6                   |             | 5              |         |         |
| 0636     | 63         | 2       | 52.19.57    | 179.53.77    | 621         | 4                   |             |                | 0       | sampled |
| 0636     |            | 24      | 52.19.54    | 179.53.56    | 616         | 34                  | 6           | 0              |         |         |
| 0636     |            | 22      | 52.19.53    | 179.53.35    | 609         | 34                  | 6           |                | 0       |         |
| 0636     |            | 25      | 52.19.55    | 179.53.1     | 602         |                     | 46          |                | 2       |         |
| 0636     | 63         |         | 52.19.55    | 179.52.92    | 554         |                     | 68          | 12             | 2       |         |
| 0636     |            | 20      | 52.19.49    | 179.52.69    | 546         |                     | 6           | 5              |         |         |
| 0636     |            | 9       | 52.19.48    | 179.52.46    | 538         |                     | 0           |                | 0       |         |
| AVG      | 63.0       |         |             |              |             | 3.0                 | 58.0        | 1.3            | .7      |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 03 4     | 52         | -6      | 52.15.95    | 179.53.30    | 0219        | 4                   | 6           | 0              | 0       |         |
| 03 4     | 5          | -56     | 52.15.94    | 179.52.94    | 0222        | 4                   |             | 0              | 0       |         |
| 03 4     | 50         | 8       | 52.15.94    | 179.52.56    | 0227        | 4                   | 2           | 0              | 0       |         |
| 03 4     | 49         | 2       | 52.15.94    | 179.52.27    | 023         | 4                   | 6           | 0              | 0       |         |
| 03 4     | 48         | 95      | 52.15.93    | 179.51.98    | 023         | 4                   | 20          | 0              | 0       | sampled |
| 03 4     | 4          |         | 52.15.94    | 179.51.66    | 0241        | 4                   | 6           | 0              | 0       |         |
| 03 4     | 46         | -76     | 52.15.95    | 179.51.37    | 0245        | 4                   | 6           | 0              | 0       |         |
| 03 4     | 45         | 05      | 52.15.94    | 179.51.00    | 0250        | 4                   |             | 0              | 0       | sampled |
| 03 4     | 45         | 8       | 52.15.94    | 179.50.64    | 0255        | 4                   | 5           | 0              | 0       |         |
| 03 4     | 44         | -48     | 52.15.95    | 179.50.27    | 0302        | 4                   | 5           | 0              | 0       |         |
| 03 4     | 44         | -16     | 52.15.95    | 179.49.85    | 0302        | 4                   | 4           | 0              | 0       | sampled |
| 03 4     | 44         | 0       | 52.15.95    | 179.49.49    | 03          | 48                  | 25          | 0              | 0       |         |
| 03 4     | 44         | -28     | 52.25.95    | 179.49.18    | 03 9        | 48                  | 2           | 0              | 0       |         |
| 03 4     | 44         | 92      | 52.15.74    | 179.49.22    | 0324        | 48                  | 21          | 0              |         | sampled |
| 03 4     | 4          | -22     | 52.15.52    | 179.49.22    | 0329        | 48                  | 9           | 0              | 0       |         |
| 03 4     | 4          | 90      | 52.15.34    | 179.49.21    | 03 4        | 48                  |             | 0              | 0       |         |
| 03 4     | 44         | 22      | 52.15.14    | 179.49.22    | 03 9        | 48                  | 2           | 0              | 0       |         |
| 03 4     | 4          | -10     | 52.14.93    | 179.49.16    | 0343        | 48                  |             | 0              | 0       | sampled |
| 03 4     | 44         | -52     | 52.14.75    | 179.49.21    | 0349        | 48                  | 23          | 0              | 0       |         |
| 03 4     | 44         | 4       | 52.14.56    | 179.49.24    | 0356        | 48                  | 29          |                | 0       |         |
| 03 4     | 44         | 69      | 52.14.36    | 179.49.23    | 0401        | 48                  | 4           | 0              | 2       |         |
| 03 4     | 44         | -6      | 52.14.19    | 179.49.21    | 0406        | 49                  | 69          | 0              | 0       |         |
| 03 4     | 44         | -19     | 52.1.98     | 179.49.18    | 041         | 49                  | 49          | 0              | 0       |         |
| 03 4     | 45         | -24     | 52.1.78     | 179.49.17    | 0418        | 49                  | 20          | 0              | 0       | sampled |
| 03 4     | 45         | -69     | 52.1.60     | 179.49.13    | 0425        | 49                  | 5           | 0              | 0       |         |
| AVG      | 45.4       |         |             |              |             | 47.7                | 20.0        | 0.0            | 0.1     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |               |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | W. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment       |
| 0438     | 85         |         | 52.20.68    | 9.53.74      | 2128        | 65                  | 5           |                | 2       | sampled       |
| 044      | 82         |         | 52.20.69    | 9.53.94      | 2128        | 65                  | 65          | 2              | 2       |               |
| 0444     | 80         |         | 52.20.67    | 9.54.94      | 21 0        | 64                  | 21          | 2              |         |               |
| 044      | 78         |         | 52.20.64    | 9.54.16      | 205         | 64                  | 275         | 2              | 2       |               |
| 0450     |            |         | 52.20.64    | 9.54.35      | 2046        | 64                  | 256         | 2              | 4       |               |
| 045      | 76         |         | 52.20.63    | 9.54.55      | 203         | 64                  | 96          | 2              | 4       |               |
| 0456     | 76         |         | 52.20.61    | 9.54.76      | 2028        | 64                  | 259         | 2              | 4       |               |
| 0500     | 75         |         | 52.20.57    | 9.54.99      | 2016        | 6                   | 229         |                | 4       |               |
| 0502     | 75         |         | 52.20.55    | 9.55.19      | 200         | 6                   | 57          | 4              |         | sampled       |
| 0505     |            |         | 52.20.54    | 9.55.4       | 1902        | 62                  | 89          |                |         |               |
| 0508     |            |         | 52.20.52    | 9.55.60      | 1945        | 6                   | 214         |                | 5       |               |
| 051      | 2          |         | 52.20.50    | 9.55.82      | 1936        | 62                  | 9           | 2              | 2       | sampled       |
| 051      | 2          |         | 52.20.50    | 9.56.05      | 92          | 62                  | 218         |                | 4       |               |
| 05       |            |         | 52.20.50    | 9.56.22      | 1918        | 62                  |             | 2              | 5       |               |
| 0519     | 72         |         | 52.20.49    | 9.56.4       | 1908        | 62                  | 21          | 5              | 4       | sampled       |
| 0522     |            |         | 52.20.47    | 9.56.64      | 1852        | 62                  | 8           | 4              | 9       |               |
| 0524     |            |         | 52.20.46    | 9.56.85      | 1829        | 6                   | 248         | 5              | 5       |               |
| 052      | 69         |         | 52.20.44    | 9.57.0       | 1820        | 6                   | 234         |                |         |               |
| 0530     | 68         |         | 52.20.43    | 9.27.44      | 81          | 6                   | 23          | 2              | 8       |               |
| 053      | 6          |         | 52.20.42    | 9.57.65      | 1802        | 60                  | 205         | 5              | 8       |               |
| 0535     | 68         |         | 52.20.40    | 9.57.9       | 1754        | 60                  | 246         | 2              | 8       |               |
| 0538     | 6          |         | 52.20.36    | 9.58.        | 4           | 60                  | 270         | 10             |         |               |
| 054      | 6          |         | 52.20.36    | 9.58.35      | 6           | 60                  | 92          |                |         |               |
| 054      | 68         |         | 52.20.36    | 9.58.56      | 8           | 60                  | 216         |                | 4       |               |
| 0546     | 67         |         | 52.20.36    | 9.58.80      | 1728        | 60                  | 87          |                | 2       | cotton untied |
| AVG      | 72.9       |         |             |              |             | 62.2                | 203.5       | 2.9            | 6.0     |               |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 0432     | 4          | 56      | 52.15.88    | 179.58.00    | 1804        | 6                   | 154         | 0              | 2       |         |
| 0434     | 48         |         | 52.15.89    | 179.57.75    | 0924        | 5                   |             | 0              | 0       |         |
| 0435     | 49         | 56      | 52.15.90    | 179.57.45    | 57          | 6                   | 54          | 0              | 0       |         |
| 04       | 49         | -46     | 52.15.92    | 179.57.13    | 49          | 6                   |             | 0              | 0       |         |
| 0439     | 50         | -10     | 52.15.96    | 179.56.78    | 2102        | 52                  | 6           | 0              | 0       |         |
| 0440     | 5          | C-      | 52.15.92    | 179.56.43    |             | 6                   | 9           | 0              | 0       |         |
| 0442     | 52         | 86      | 52.15.93    | 179.56.09    | 8902        | 52                  | 2           | 0              | 0       |         |
| 0444     | 52         | -9      | 52.15.94    | 179.55.72    | 0902        | 52                  | 5           | 0              | 0       |         |
| 0445     | 52         | 0       | 52.25.93    | 179.55.43    | 0852        | 52                  |             | 0              | 0       |         |
| 044      | 52         | 5       | 52.15.94    | 179.55.14    | 0847        | 52                  | 0           | 0              |         |         |
| 0449     | 52         | -64     | 52.15.94    | 179.54.81    | 0842        | 52                  | 0           | 0              | 0       |         |
| 045      | 52         | -28     | 52.15.94    | 179.54.55    | 851         | 62                  | 5           |                | 0       |         |
| 0455     | 52         | -9      | 51.15.92    | 179.54.26    | 841         | 62                  | 2           |                | 0       |         |
| 045      | 48         | -2      | 52.15.77    | 179.54.27    | 834         | 62                  | 08          | 2              | 0       |         |
| 0459     | 48         | -88     | 52.15.61    | 179.54.18    | 827         | 62                  | 29          |                | 2       |         |
| 0500     | 48         | 82      | 52.15.62    | 179.54.41    | 819         | 6                   | 9           | 0              | 0       |         |
| 0502     | 48         | 24      | 52.15.62    | 179.54.83    | 003         | 5                   | 51          | 2              | 2       |         |
| 050      | 48         |         | 52.15.62    | 179.55.24    | 01          | 5                   | 86          | 0              | 0       |         |
| 050      | 48         | -4      | 52.15.61    | 179.55.55    | 25          | 60                  | 42          |                |         |         |
| 0509     | 48         | 9       | 52.15.62    | 179.55.90    | 20          | 60                  | 8           | 4              | 2       |         |
| 0510     | 4          | -92     | 52.15.62    | 179.56.33    | 0           | 60                  | 205         |                |         |         |
| 0512     | 4          | 69      | 52.15.60    | 170.56.77    | 0930        | 52                  | 57          | 4              | 5       |         |
| 0514     | 46         | 95      | 52.15.62    | 179.57.15    | 0943        | 5                   | 56          |                | 2       |         |
| 0516     | 44         | X-5     | 52.15.61    | 179.57.50    | 659         | 60                  | 28          | 4              |         |         |
| 0518     | 44         | 02      | 52.15.62    | 179.57.80    | 654         | 60                  | 0           | 4              |         |         |
| AVG      | 48.9       |         |             |              |             | 57.2                | 82.8        | 1.1            | .0      |         |

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| Set Gear                           |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|------------------------------------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set                           | Depth (FM) | Buoy ID | N. Latitude | W. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| Station <u>    A8    </u>          |            |         |             |              |             |                     |             |                |         |         |
| Date set: <u>    2/7/01    </u>    |            |         |             |              |             |                     |             |                |         |         |
| Date pulled: <u>    2/9/01    </u> |            |         |             |              |             |                     |             |                |         |         |
| 0410                               | 6          | 2       | 52.1.65     | 79.51.71     | 0245        |                     | 2           | 0              | 0       |         |
| 04                                 | 6          |         | 52.1.51     | 79.51.89     | 053         | 55                  | 8           | 0              | 0       |         |
| 04                                 | 6          |         | 52.1.46     | 79.51.85     | 040         | 55                  | 4           | 0              | 0       | sampled |
| 0419                               | 6          |         | 52.1.27     | 79.51.87     | 0305        |                     | 2           | 0              | 0       |         |
| 042                                | 6          |         | 52.1.1      | 79.51.87     | 053         | 55                  |             | 0              | 0       |         |
| 0425                               | 6          | 664     | 52.10.98    | 79.51.87     | 0214        | 70                  |             | 0              | 0       |         |
| 0428                               | 6          |         | 52.10.85    | 79.51.86     | 0210        | 70                  | 5           | 0              | 0       |         |
| 04                                 | 6          |         | 52.10.70    | 79.51.85     | 0206        | 70                  | 6           | 0              | 0       |         |
| 0434                               | 6          |         | 42.10.56    | 79.51.86     | 027         | 54                  | 4           | 0              | 0       | sampled |
| 0436                               | 6          |         | 52.10.42    | 79.51.87     | 023         | 54                  | 5           | 0              | 0       |         |
| 0439                               | 6          |         | 52.10.28    | 79.51.85     | 0200        | 70                  | 4           | 0              | 0       | sampled |
| 0442                               | 6          |         | 52.10.11    | 79.51.85     | 0150        | 69                  | 6           | 0              | 0       |         |
| 0444                               | 64         |         | 52.09.99    | 79.51.85     | 015         | 54                  | 24          | 0              | 0       |         |
| 0448                               | 6          |         | 52.09.83    | 79.51.83     | 0143        | 69                  | 0           | 0              | 0       |         |
| 0450                               | 6          | 818     | 52.09.65    | 79.51.82     | 004         | 5                   |             | 0              | 0       |         |
| 0505                               | 6          |         | 52.1.21     | 79.52.29     | 06          | 54                  | 0           | 0              | 0       | sampled |
| 0508                               | 6          |         | 52.1.07     | 79.52.27     | 2           | 54                  | 9           | 0              | 0       |         |
| 05                                 | 6          |         | 52.10.54    | 79.52.20     | 0245        | 70                  | 9           | 0              | 0       |         |
| 0514                               | 62         |         | 52.10.75    | 79.52.26     | 20          | 54                  | 9           | 0              | 0       | sampled |
| 05                                 | 6          |         | 52.10.60    | 79.52.24     | 26          | 54                  |             | 0              | 0       |         |
| 0519                               | 6          |         | 52.10.49    | 79.52.27     | 053         | 54                  | 6           | 0              | 0       |         |
| 052                                | 6          |         | 52.10.29    | 79.52.27     | 0239        | 70                  |             | 0              | 0       |         |
| 0526                               | 2          |         | 52.10.16    | 79.52.29     | 0234        | 69                  |             | 0              | 0       |         |
| 0529                               | 6          |         | 52.10.03    | 79.52.30     | 0226        | 69                  |             | 0              | 0       | sampled |
| 0532                               | 63         |         | 52.09.90    | 79.52.26     | 053         | 53                  | 6           | 0              | 0       |         |
| AVG                                | 61.8       |         |             |              |             | 61.6                | 10.2        | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | W. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 2008     | 50         | -28     | 52.12.20    | 179.58.1     | 0209        | 54                  | 0           | 0              | 0       |         |
| 2010     | 50         | -9      | 52.12.32    | 179.58.09    | 02          | 54                  | 0           | 0              | 0       | sampled |
| 20       | 49         | -2      | 53.12.51    | 179.57.99    | 0222        | 54                  | 0           | 0              | 0       |         |
| 2015     | 49         | -88     | 52.12.64    | 179.57.89    | 022         | 54                  | 0           | 0              | 0       |         |
| 2019     | 48         | 82      | 52.12.72    | 179.57.8     | 0234        | 54                  | 0           | 0              | 0       |         |
| 202      | 48         | 56      | 52.12.85    | 179.57.70    | 0239        | 54                  | 0           | 0              | 0       |         |
| 2024     | 48         | 55      | 52.1.02     | 179.57.6     | 0244        | 54                  | 0           | 0              | 0       |         |
| 2029     | 4          | -46     | 52.1.18     | 179.57.52    | 0249        | 54                  | 0           | 0              | 0       |         |
| 20       | 4          | C-      | 52.1.3      | 179.57.40    | 0255        | 54                  | 0           | 0              | 0       |         |
| 2034     | 48         | -4      | 52.1.45     | 179.57.30    | 030         | 54                  | 0           | 0              | 0       | sampled |
| 2036     | 48         | 9       | 52.1.57     | 179.57.19    | 0308        | 55                  | 0           | 0              | 0       |         |
| 2040     | 48         | -92     | 52.1.7      | 179.57.08    | 0           | 55                  | 0           | 0              | 0       |         |
| 204      | 49         | XG      | 52.1.02     | 179.56.06    | 0320        | 55                  | 0           | 0              | 0       |         |
| 2044     | 49         | 02      | 52.14.04    | 179.56.86    | 0325        | 55                  | 0           | 0              | 0       | sampled |
| 2049     | 49         |         | 52.14.18    | 179.56.76    | 03 0        | 55                  | 0           | 0              | 0       |         |
| 2052     | 49         | 24      | 52.14.02    | 179.56.66    | 03 6        | 55                  | 0           | 0              | 0       |         |
| 2054     | 49         |         | 52.14.47    | 179.56.56    | 0342        | 55                  | 0           | 0              | 0       |         |
| 2056     | 48         | 95      | 52.14.58    | 179.56.42    | 0346        | 55                  | 0           | 0              | 0       | sampled |
| 2058     | 49         | 58      | 52.14.73    | 179.56.35    | 0352        | 55                  | 0           | 0              | 0       |         |
| 2100     | 49         | -10     | 52.14.84    | 179.56.24    | 0358        | 55                  | 0           | 0              | 0       |         |
| 210      | 49         | 86      | 52.14.90    | 179.56.16    | 0404        | 55                  | 0           | 0              | 0       |         |
| 2106     | 49         | -9      | 52.15.11    | 179.56.0     | 0410        | 55                  | 0           | 0              | 0       | sampled |
| 2108     | 49         | 0       | 52.15.27    | 179.55.89    | 0416        | 55                  | 0           | 0              | 0       |         |
| 21 0     | 49         | -64     | 52.15.38    | 179.55.75    | 042         | 55                  | 0           | 0              | 0       |         |
| 21 2     | 47         | 5       | 52.15.43    | 179.55.14    | 0429        | 55                  | 0           | 0              | 0       |         |
| AVG      | 48.6       |         |             |              |             | 54.6                | 0.0         | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | Longitude    | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 21       | 56         | 2       | 52.09.15    | 79.59.06 W.  | 1447        | 65                  | 0           | 0              | 0       |         |
| 21 6     | 56         | 24      | 52.08.94    | 79.59.47 W.  | 439         | 65                  | 0           | 0              | 0       |         |
| 21 8     | 56         | 22      | 52.08.82    | 79.59.66 W.  | 432         | 65                  | 0           | 0              | 0       |         |
| 214      | 55         | 25      | 52.08.68    | 79.59.84 W.  | 428         | 65                  | 0           | 0              | 0       |         |
| 2144     | 55         |         | 52.08.54    | 79.59.99 W.  | 419         | 65                  | 0           | 0              | 0       |         |
| 214      | 55         | 20      | 52.08.40    | 179.59.81 E. | 41          | 64                  | 0           | 0              | 0       | sampled |
| 2149     | 55         | 9       | 52.08.22    | 179.59.59 E. | 408         | 64                  | 0           | 0              | 0       |         |
| 2152     | 55         | 8       | 52.08.07    | 179.59.31 E. | 401         | 64                  | 0           | 0              | 0       |         |
| 2155     | 54         |         | 52.07.93    | 179.59.06 E. | 53          | 64                  | 0           | 0              | 0       |         |
| 215      | 54         | 6       | 52.07.78    | 179.58.77 E. | 48          | 64                  | 0           | 0              | 0       | sampled |
| 2200     | 55         | 5       | 52.07.64    | 179.58.52 E. | 42          | 64                  | 0           | 0              | 0       |         |
| 220      | 55         |         | 52.07.50    | 179.58.24 E. | 5           | 64                  | 0           | 0              | 0       |         |
| 2205     | 54         | 4       | 52.07.38    | 179.58.02 E. | 28          | 6                   | 0           | 0              | 0       |         |
| 2208     | 54         |         | 52.07.23    | 179.57.75 E. | 22          | 6                   | 0           | 0              | 0       | sampled |
| 2210     | 5          | 2       | 52.07.09    | 179.57.48 E. | 25          | 6                   | 0           | 0              | 0       |         |
| 2214     | 55         | 0       | 52.06.93    | 179.57.20 E. | 08          | 6                   | 0           | 0              | 0       |         |
| 221      | 56         | 8       | 52.06.78    | 179.56.95 E. | 02          | 6                   | 0           | 0              | 0       | sampled |
| 2219     | 56         | 9       | 52.06.63    | 179.56.72 E. | 255         | 6                   | 0           | 0              | 0       |         |
| 2222     | 56         | 6       | 52.06.48    | 179.56.43 E. | 249         | 62                  | 0           | 0              | 0       | sampled |
| 2225     | 56         | 5       | 52.06.36    | 179.56.13 E. | 242         | 62                  | 0           | 0              | 0       |         |
| 222      | 56         | 2       | 52.06.26    | 179.55.58 E. | 236         | 62                  | 0           | 0              | 0       |         |
| 2229     | 56         |         | 52.06.17    | 179.55.63 E. | 229         | 62                  | 0           | 0              | 0       |         |
| 223      | 56         | 2       | 52.06.03    | 179.55.24 E. | 222         | 62                  | 0           | 0              | 0       | sampled |
| 2236     | 56         |         | 52.05.93    | 179.54.98 E. | 215         | 62                  | 0           | 0              | 0       |         |
| 2239     | 55         | 4       | 52.05.82    | 179.54.71 E. | 208         | 6                   | 0           | 0              | 0       |         |
| AVG      | 55.2       |         |             |              |             | 63.4                | 0.0         | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 1506     | 50         | -69     | 52.06.17    | 179.52.69    | 0725        | 40                  | 0           | 0              | 0       |         |
| 1508     | 50         | -24     | 52.06.33    | 179.53.01    | 07 8        | 40                  | 0           | 0              | 0       |         |
| 1510     | 50         | 69      | 52.06.57    | 179.53.28    | 07          | 40                  | 0           | 0              | 0       | sampled |
| 1512     | 49         | 4       | 52.06.77    | 179.53.58    | 0705        | 40                  | 0           | 0              | 0       |         |
| 1514     | 49         | -52     | 52.07.07    | 179.53.83    | 0659        | 40                  | 0           | 0              | 0       |         |
| 1515     | 48         | -79     | 52.07.29    | 179.54.31    | 0654        | 40                  | 0           | 0              | 0       |         |
| 5        | 4          | -76     | 52.07.50    | 179.54.48    | 0648        | 40                  | 0           | 0              | 0       | sampled |
| 1519     | 4          | 8       | 52.07.74    | 179.54.81    | 0642        | 40                  | 0           | 0              | 0       |         |
| 1520     | 46         | -16     | 52.07.98    | 179.55.11    | 0635        | 39                  | 0           | 0              | 0       |         |
| 1522     | 45         | 0       | 52.08.12    | 179.55.34    | 0630        | 39                  | 0           | 0              | 0       |         |
| 1524     | 44         | 8       | 52.08.27    | 179.55.55    | 0624        | 39                  | 0           | 0              | 0       | sampled |
| 1526     | 4          | 05      | 52.08.51    | 179.55.78    | 0618        | 39                  | 0           | 0              | 0       |         |
| 1528     | 42         | -48     | 52.08.67    | 179.56.12    | 061         | 9                   | 0           | 0              | 0       |         |
| 1529     | 4          | -56     | 52.08.95    | 179.56.49    | 0607        | 9                   | 0           | 0              | 0       |         |
| 5        | 40         | 95      | 52.09.16    | 179.56.64    | 0602        | 39                  | 0           | 0              | 0       | sampled |
| 5        | 40         | 27      | 52.09.35    | 179.56.94    | 0557        | 8                   | 0           | 0              | 0       |         |
| 1534     | 40         |         | 52.09.59    | 179.57.21    | 0551        | 8                   | 0           | 0              | 0       |         |
| 1536     | 4          | -10     | 52.09.79    | 179.57.52    | 0546        | 38                  | 0           | 0              | 0       |         |
| 1638     | 4          | 22      | 52.10.02    | 179.57.82    | 0540        | 38                  | 0           | 0              | 0       | sampled |
| 1540     | 42         | 6       | 52.10.18    | 179.58.20    | 0535        | 38                  | 0           | 0              | 0       |         |
| 1542     | 4          | -22     | 52.10.38    | 179.58.41    | 0529        | 38                  | 0           | 0              | 0       |         |
| 1544     | 44         | -26     | 52.10.56    | 179.58.53    | 0524        | 38                  | 0           | 0              | 0       |         |
| 1546     | 45         | -90     | 52.10.76    | 179.58.81    | 0518        | 38                  | 0           | 0              | 0       | sampled |
| 1548     | 46         | -92     | 52.10.93    | 179.59.08    | 05          |                     | 0           | 0              | 0       |         |
| 1550     | 47         | -67     | 52.1 10     | 179.59.23    | 0507        |                     | 0           | 0              | 0       |         |
| AVG      | 44.8       |         |             |              |             | 38.8                | 0.0         | 0.0            | 0.0     |         |

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| Set Gear |            |         |             |              | Pulled Gear |                     |             |                |         |         |
|----------|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|---------|---------|
| Time set | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females | Comment |
| 075      | 5          | -69     | 52.03.15    | 179.57.50    | 223         | 639                 | 0           | 0              | 0       | sampled |
| 075      |            | -24     | 52.03.13    | 179.57.11    | 2224        | 639                 | 0           | 0              | 0       |         |
| 0755     |            | 69      | 52.03.14    | 179.56.73    | 2249        | 639                 | 0           | 0              | 0       |         |
| 075      | 68         | 4       | 52.03.15    | 179.56.36    | 2255        | 639                 | 0           | 0              | 0       |         |
| 0759     | 65         | -52     | 52.03.15    | 179.56.01    | 2300        | 639                 | 0           | 0              | 0       | sampled |
| 0800     | 64         | -6      | 52.03.16    | 179.55.69    | 2307        | 639                 | 0           | 0              | 0       |         |
| 0802     | 64         | -9      | 52.03.16    | 179.55.34    | 23          | 639                 | 0           | 0              | 0       |         |
| 0804     | 6          | 0       | 52.03.17    | 179.54.00    | 23 0        | 630                 | 0           | 0              | 0       |         |
| 0806     | 62         | 05      | 52.03.10    | 179.54.50    | 2327        | 630                 | 0           | 0              | 0       |         |
| 0808     | 6          | -6      | 52.03.10    | 179.54.04    | 23 5        | 629                 | 0           | 0              | 0       | sampled |
| 0810     | 60         | 8       | 52.03.19    | 179.53.74    | 2341        | 640                 | 0           | 0              | 0       |         |
| 0812     | 58         | 8       | 52.03.20    | 179.53.36    | 2348        | 640                 | 0           | 0              | 0       |         |
| 0814     | 58         | -48     | 52.03.19    | 179.52.99    | 2355        | 640                 | 0           | 0              | 0       |         |
| 0816     | 58         | 95      | 52.03.17    | 179.52.57    | 2358        | 640                 | 0           | 0              | 0       | sampled |
| 0818     | 58         | 27      | 52.03.15    | 179.52.15    | 0510        | 4                   | 0           | 0              | 0       |         |
| 0820     | 58         |         | 52.03.14    | 179.51.72    | 0010        | 640                 | 0           | 0              | 0       |         |
| 0822     | 6          | -22     | 62.03.13    | 179.51.36    | 0016        | 640                 | 0           | 0              | 0       |         |
| 0824     | 65         | -56     | 52.03.13    | 179.51.13    | 0022        | 640                 | 0           | 0              | 0       |         |
| 0826     | 65         | -6      | 52.03.08    | 179.50.83    | 0030        | 640                 |             | 0              | 0       |         |
| 0828     | 65         | 22      | 52.02.93    | 179.50.45    | 21          | 6                   | 0           | 0              | 0       | sampled |
| 0830     | 66         | - 0     | 52.02.77    | 179.50.20    | 2124        | 6                   | 0           | 0              | 0       |         |
| 0832     | 64         | 28      | 52.02.63    | 179.50.01    | 0021        | 6                   | 0           | 0              | 0       |         |
| 0834     | 6          | -26     | 52.02.45    | 179.49.80    | 21 6        | 6                   | 0           | 0              | 0       | sampled |
| 0836     | 60         | 92      | 52.02.29    | 179.49.62    | 2142        | 6                   | 0           | 0              | 0       |         |
| 0838     | 63         | -67     | 52.02.12    | 179.49.34    | 2149        | 6                   | 0           | 0              | 0       |         |
| AVG      | 63.5       |         |             |              |             | 63 .2               | 0.0         | 0.0            | 0.0     |         |

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| Station <u>    B10    </u>                                  |            |         |             |              |             |             |       |          |         |         |
|---|------------|---------|-------------|--------------|-------------|-------------|-------|----------|---------|---------|
| Date set: <u>    2/14/01    </u>                            |            |         |             |              |             |             |       |          |         |         |
| Date pulled: <u>    2/19/01 &amp; 3/12 &amp; /1 /01    </u> |            |         |             |              |             |             |       |          |         |         |
| Set Gear  |            |         |             |              | Pulled Gear |             |       |          |         |         |
| Time set  | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length | Legal | Sublegal |         | Comment |
|   |            |         |             |              |             | (Hours)     | Males | Males    | Females |         |
| 08  | 16         | 6       | 52.01.60    | 179.46.27    | 46          | 129         | 0     | 0        | 0       |         |
| 0846  | 46         | -48     | 52.01.81    | 179.46.45    | 51          | 29          | 2     | 0        | 0       |         |
| 0848  | 45         | -9      | 51.02.06    | 179.46.55    | 55          | 129         | 0     | 0        | 0       |         |
| 0850  | 46         |         | 52.02.41    | 179.46.55    | 1801        | 29          | 0     | 0        | 0       | sampled |
| 0852  | 46         | 86      | 52.02.75    | 179.46.55    | 1806        | 129         | 0     | 0        | 0       |         |
| 0854  | 4          | 0       | 52.03.03    | 179.46.67    | 8           | 129         | 0     | 0        | 0       |         |
| 0856  | 4          | 58      | 52.03.20    | 179.46.68    | 8           | 129         | 0     | 0        | 0       | sampled |
| 0858  | 4          | 124     | 52.03.      | 179.46.74    | 1822        | 129         | 0     | 0        | 0       |         |
| 0900  | 4          | 95      | 52.04.02    | 179.46.80    | 1827        | 29          | 0     | 0        | 0       |         |
| 0902  | 48         | -0      | 52.04.40    | 179.46.88    | 2104        | 636         | 0     | 0        | 0       |         |
| 0904  | 48         | 155     | 52.04.      | 179.46.90    | 1004        | 129         | 0     | 0        | 0       |         |
| 0906  | 49         | 102     | 52.05.      | 179.47.15    | 1840        | 30          | 0     | 0        | 0       | sampled |
| 0908  | 49         | -92     | 52.05.38    | 179.47.19    | 0048        | 640         | 0     | 0        | 0       |         |
| 0910  | 48         | X-5     | 52.05.      | 179.47.17    | 0052        | 640         | 0     | 0        | 0       |         |
| 0912  | 4          | 9       | 52.05.99    | 179.46.69    | 0057        | 640         | 0     | 0        | 0       |         |
| 0914  | 46         | -46     | 52.05.74    | 179.46.32    | 0103        | 640         |       | 0        | 0       |         |
| 0915  | 45         | c-      | 52.05.55    | 179.46.04    | 010         | 640         |       | 0        | 0       |         |
| 09  | 44         | -4      | 52.05.09    | 179.45.50    | 018         | 640         | 0     | 0        | 0       | sampled |
| 0919  | 4          | 55      | 52.04.79    | 179.45.15    | 0124        | 640         | 0     | 0        | 0       |         |
| 0920  | 4          | 56      | 52.04.38    | 179.44.76    | 010         | 640         | 0     | 0        | 0       |         |
| 0922  | 40         | -88     | 52.04.23    | 179.44.70    | 016         | 640         | 0     | 0        | 0       | sampled |
| 0924  | 40         | 82      | 52.03.85    | 179.44.43    | 0142        | 640         | 0     | 0        | 0       |         |
| 0926  | 9          | -2      | 52.03.64    | 179.44.12    | 0149        | 640         | 0     | 0        | 0       |         |
| 0928  |            | -9      | 52.03.30    | 179.43.69    | 0157        | 640         | 0     | 0        | 0       |         |
| 0930  | 6          | 28      | 52.03.07    | 9.1 16       | 0202        | 641         | 0     | 0        | 0       | sampled |
| AVG   | 42.7       |         |             |              |             | 415.1       | 0.2   | 0.0      | 0.0     |         |

Appendix D. Pot location, soak time, depth and catch information for November 2001 Petrel Bank red king crab survey.

| Station _____   |            |         |             |              |             |                     |             |                |                 |
|---|------------|---------|-------------|--------------|-------------|---------------------|-------------|----------------|-----------------|
| Date set: _____ 1/1 0 & 1/200   |            |         |             |              |             |                     |             |                |                 |
| Date pulled: _____ 1/ &12/2001  |            |         |             |              |             |                     |             |                |                 |
| Set Gear  |            |         |             |              | Pulled Gear |                     |             |                |                 |
| Time set  | Depth (FM) | Buoy ID | N. Latitude | E. Longitude | Time pulled | Soak Length (Hours) | Legal Males | Sublegal Males | Females Comment |
| <div style="border: 1px solid black; width: 45%; margin: 0 auto; padding: 10px;">                     Confidential Information                 </div> |            |         |             |              |             |                     |             |                |                 |

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