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Data from the Japanese trawl survey for king, tanner
and Korean hair crabs collected in the eastern Bering
Sea in 1982

Fisheries Agency of Japan

September 1983

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Data from the Japanese trawl survey for king, tanner and Korean
hair crabs collected in the eastern Bering Sea in 1982

Far Seas Fish. Res. Lab.

Hitoshi Fujita
Seiwa Kawasaki

The 1982 trawl survey by Wakatake maru was conducted from May 16 to June 16.

Trawls were towed for one-half hour at each station and catch of each haul was converted into catch per 1.5 nautical miles tow. These surveys extended from Pribilof Islands westward to, and northwest along, the continental slope to 178°W. The northern limit of the area was at 61°40'N.

Size-frequency data are presented for four species: tanner crab, *Chionoecetes bairdi* (Tables 1-2); tanner crab, *Chionoecetes opilio* (Tables 3-4); blue king crab, *Paralithodes platypus* (Tables 5-6); Korean hair crab, *Erimacrus isenbeckii* (Table 7).

The frequencies presented were obtained by taking the number of crabs actually measured in each haul and expanding these measurements by the sampling rate of the haul in order to describe the size distribution of the catches. Size-frequency data are given by station and for all stations combined.

Table 1. (Page 2.) Width frequency by 5 mm classes of male BAIRDI TANNER crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Width of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|-------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|--|--|--|--|--|---|--|--|--|--|--|--|
| | | | 20 24 | 25 29 | 30 34 | 35 39 | 40 44 | 45 49 | 50 54 | 55 59 | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 | | | | | | | | | | | | | |
| 58-17 | 169-44 | 6/01 | 66 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-21 | 170-23 | 6/01 | 72 | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-02 | 170-19 | 6/01 | 71 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-01 | 170-58 | 6/01 | 83 | | | | | | | | | | | | 1 | | 2 | 2 | 1 | 2 | 2 | 5 | 2 | 1 | | | | | | | | | | | | | | | | | | |
| 58-18 | 171-00 | 6/01 | 82 | | | | | | | | | | | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-20 | 171-39 | 6/02 | 92 | | | | | | | | | 1 | 1 | 3 | 1 | 1 | 6 | 10 | 5 | 3 | 6 | 1 | 1 | | | | | | | | | | | | | 3 | | | | | | |
| 58-20 | 172-16 | 6/02 | 100 | | | | | | | 2 | | 1 | 5 | 10 | 10 | 6 | 8 | 2 | 1 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | |
| 58-20 | 172-57 | 6/02 | 106 | | | | | | | 1 | 1 | 3 | 2 | 4 | 2 | 3 | 1 | 1 | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | |
| 57-59 | 173-27 | 6/02 | 114 | | | | | | | | | | 6 | 8 | 18 | 31 | 29 | 29 | 16 | 6 | 4 | 8 | 2 | 1 | | | | | | | | | | | | | | | | | | |
| 58-01 | 172-50 | 6/02 | 106 | | | | | | | | | 2 | 3 | 6 | 2 | 3 | 1 | 3 | 2 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 58-00 | 172-15 | 6/02 | 102 | | | | | | | | | 2 | 4 | | | 2 | 6 | | 11 | 15 | 10 | | | | | | | | | | | | | | | | | | | | | |
| 58-00 | 171-36 | 6/02 | 94 | | | | | | | | | | | | | 2 | 4 | 4 | 5 | 1 | 3 | | | | | | | | | | | | | | | | | | | | | |
| 57-21 | 171-27 | 6/04 | 97 | | | | | | | | | | | | 1 | | | 1 | 2 | 1 | 4 | 5 | 3 | 1 | | | | | | | | | | | | | | | | | | |
| 57-40 | 171-30 | 6/04 | 95 | | | | | | | | | | | | | | 3 | 4 | 5 | 5 | 4 | 5 | 3 | | | | | | | | | | | | | | | | | | | |
| 57-39 | 170-51 | 6/04 | 81 | | | | | | | | | | | | 1 | | 6 | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-39 | 170-18 | 6/04 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-20 | 172-06 | 6/06 | 106 | | | | | | | | | 1 | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 11 | 7 | 9 | 4 | 3 | 1 | | | | | | | | | | | | | | | | | |
| 57-00 | 172-01 | 6/06 | 113 | | | | | | | | | | 1 | 3 | 4 | 7 | 13 | 17 | 23 | 15 | 11 | 15 | 5 | 3 | | | | | | | | | | | | | | | | | | |
| 57-00 | 172-37 | 6/07 | 120 | | | | | | | | | 1 | 2 | 1 | 4 | 2 | 7 | 6 | 7 | 5 | 3 | 2 | 4 | | | | | | | | | | | | | | | | | | | |
| 57-00 | 171-26 | 6/08 | 106 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61-00 | 176-57 | 6/10 | 118 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-20 | 169-01 | 6/14 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-20 | 169-37 | 6/14 | 55 | | | | | | | | | | | | | | 3 | | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | | | TOTALS | 1 | 3 | 7 | 14 | 9 | 6 | 7 | 7 | 17 | 26 | 40 | 76 | 147 | 262 | 319 | 298 | 219 | 178 | 124 | 132 | 66 | 39 | 15 | 1 | 5 | 2 | | | | | | | | | | | | | |

Table 2. (Page 1.) Width frequency by 5 mm classes of female BAIRDI TANNER crab during the 1982 May to June research cruise by Wakatake maru.

| Position N | W | Date | Depth m | Width of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|------|------------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | | 20 24 | 25 29 | 30 34 | 35 39 | 40 44 | 45 49 | 50 54 | 55 59 | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 |
| 58-19 | 173-35 | 5/17 | 115 | | | | | | | | | | 1 | 2 | 7 | 9 | 14 | 5 | 1 | | | | | | | | | | | |
| 58-40 | 172-59 | 5/17 | 111 | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 3 | | | | | | | | | | | | | |
| 58-59 | 173-43 | 5/20 | 115 | | | | | | | | | | 3 | | 1 | 2 | | | | | | | | | | | | | | |
| 58-41 | 173-39 | 5/20 | 123 | | | | | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | |
| 58-41 | 174-17 | 5/20 | 153 | | | | | | | | 1 | 12 | 23 | 11 | 4 | 1 | | | | | | | | | | | | | | |
| 58-59 | 174-23 | 5/20 | 123 | | | | | | 1 | 1 | | | 2 | 2 | 1 | | | | | | | | | | | | | | | |
| 59-00 | 174-55 | 5/20 | 127 | | | | | 1 | 1 | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | |
| 58-43 | 174-56 | 5/21 | 147 | | | | | 2 | | | | | 1 | | | | | | | | | | | | | | | | | |
| 58-41 | 175-34 | 5/21 | 132 | | | | | | | | | 38 | 151 | 466 | 378 | 189 | 25 | 12 | | | | | | | | | | | | |
| 59-00 | 175-45 | 5/21 | 130 | | | 1 | | | | | 2 | 2 | 1 | 2 | | | 1 | | | | | | | | | | | | | |
| 58-59 | 176-18 | 5/21 | 131 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-39 | 176-16 | 5/21 | 137 | | 5 | 6 | 22 | 30 | 8 | 6 | 8 | | 24 | 27 | 71 | 47 | 14 | 5 | | | | | | | | | | | | |
| 58-41 | 176-49 | 5/21 | 130 | | | 11 | | | | | 22 | 33 | 155 | 288 | 332 | 210 | 55 | | | | | | | | | | | | | |
| 58-58 | 176-55 | 5/21 | 130 | | | 1 | | | 2 | 1 | | | 2 | | 3 | | | | | | | | | | | | | | | |
| 59-00 | 177-32 | 5/21 | 132 | | | | | | | | | | 34 | 157 | 205 | 164 | 95 | 14 | 14 | | | | | | | | | | | |
| 59-21 | 177-02 | 5/22 | 145 | | | | | | 3 | | 5 | 1 | 4 | | 4 | | | | | | | | | | | | | | | |
| 59-39 | 177-06 | 5/22 | 165 | | 1 | | | | | 2 | 1 | | | | 1 | | | | | | | | | | | | | | | |
| 59-21 | 175-06 | 5/22 | 130 | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| 59-21 | 174-26 | 5/23 | 115 | | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | |
| 60-18 | 176-41 | 5/27 | 133 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| 60-39 | 176-49 | 5/28 | 127 | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| 58-59 | 168-31 | 5/30 | 43 | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| 58-01 | 170-58 | 6/01 | 83 | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | |
| 58-20 | 172-57 | 6/02 | 106 | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | |
| 57-59 | 173-27 | 6/02 | 114 | | | | | | | | | | 36 | 232 | 375 | 170 | 72 | | | | | | | | | | | | | |
| 58-01 | 172-50 | 6/02 | 106 | | | | | | | | | | 2 | | 1 | | 2 | 1 | 1 | | | | | | | | | | | |
| 57-21 | 171-27 | 6/04 | 97 | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | |
| 57-40 | 171-30 | 6/04 | 95 | | | | | | | | | | | | 2 | 1 | 3 | 2 | | | | | | | | | | | | |
| 57-39 | 170-51 | 6/04 | 81 | | | | | | | | | 1 | | 3 | 3 | | | | | | | | | | | | | | | |
| 57-20 | 172-06 | 6/06 | 106 | | | | | | | | | | | 5 | 8 | 11 | 15 | 6 | 2 | | | | | | | | | | | |
| 57-00 | 172-01 | 6/06 | 113 | | | | | | | | | 1 | 3 | 9 | 21 | 31 | 47 | 31 | 4 | | | | | | | | | | | |
| 57-00 | 172-37 | 6/07 | 120 | | | | | | | | | | 2 | 2 | 3 | 19 | 75 | 64 | 7 | 2 | | | | | | | | | | |
| 57-00 | 171-26 | 6/08 | 106 | | | | | 1 | | | | | | | | 2 | 1 | 1 | | | | | | | | | | | | |
| 61-00 | 176-57 | 6/10 | 118 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| 57-20 | 169-01 | 6/14 | 66 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| 57-20 | 169-37 | 6/14 | 55 | | | | | | | | | | 2 | 2 | 1 | | | | | | | | | | | | | | | |
| TOTALS | | | | | 6 | 20 | 22 | 34 | 15 | 11 | 39 | 78 | 438 | 1228 | 1425 | 865 | 418 | 154 | 42 | 3 | | | | | | | | | | |

Table 3. (Page 1.) Width frequency by 5 mm classes of male OPILIO TANNER crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Width of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|-------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 20 24 | 25 29 | 30 34 | 35 39 | 40 44 | 45 49 | 50 54 | 55 59 | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 |
| 58-19 | 173-35 | 5/17 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-40 | 172-59 | 5/17 | 111 | | | | | | | 3 | | | 5 | 1 | 5 | 1 | 2 | 1 | | | | | | | | | | | |
| 58-58 | 171-50 | 5/17 | 86 | | | | | 1 | 8 | 15 | 21 | 15 | 8 | 4 | 1 | | | | | 5 | | 1 | | | | | | | |
| 59-39 | 170-27 | 5/18 | 63 | | | 8 | 8 | 39 | 102 | 219 | 164 | 289 | 234 | 250 | 133 | 86 | 16 | 16 | | | | | | | | | | | |
| 59-39 | 169-53 | 5/18 | 53 | | | | | 11 | 16 | 24 | 23 | 16 | 15 | 12 | 6 | 2 | | | | | | | | | | | | | |
| 59-59 | 169-18 | 5/18 | 41 | | | | 2 | 29 | 76 | 50 | 48 | 35 | 22 | 17 | 5 | 2 | 2 | | | | | | | | | | | | |
| 59-42 | 169-16 | 5/18 | 44 | | | | 23 | 62 | 165 | 307 | 193 | 131 | 136 | 74 | 28 | 6 | 6 | 6 | | | | | | | | | | | |
| 59-39 | 168-36 | 5/18 | 35 | | | | 76 | 229 | 316 | 556 | 414 | 229 | 142 | 120 | 33 | 43 | 11 | 11 | | | | | | | | | | | |
| 58-58 | 169-50 | 5/19 | 59 | | | | | 24 | 12 | 70 | 35 | 82 | 164 | 258 | 481 | 364 | 364 | 282 | 141 | 47 | 12 | 12 | | | | | | | |
| 58-59 | 171-08 | 5/19 | 73 | | | | | | 50 | 50 | 101 | 244 | 294 | 488 | 244 | 109 | 51 | 25 | 17 | 8 | | | | | | | | | |
| 58-41 | 171-07 | 5/19 | 79 | | | 1 | 2 | 24 | 24 | 41 | 43 | 39 | 50 | 44 | 16 | 4 | 3 | 5 | | | | | | | | | | | |
| 58-39 | 171-43 | 5/19 | 90 | | | | | 20 | 99 | 130 | 107 | 93 | 72 | 29 | 20 | | 3 | | | | | | | | | | | | |
| 58-40 | 172-22 | 5/20 | 98 | | | | | 1 | | 6 | 1 | 4 | 2 | 1 | 1 | | 1 | 1 | | | | | | | | | | | |
| 58-58 | 172-24 | 5/20 | 96 | | | | | | 6 | 6 | 9 | 21 | 30 | 21 | 15 | 4 | 1 | 2 | 1 | | | | | | | | | | |
| 59-00 | 173-18 | 5/20 | 107 | | | | | | | 4 | 4 | 5 | 7 | 11 | 8 | 7 | 3 | 6 | 3 | | | | | | | | | | |
| 58-59 | 173-43 | 5/20 | 115 | | | | | | 7 | 9 | 12 | 15 | 24 | 47 | 37 | 18 | 16 | 6 | 10 | 4 | 1 | | | | | | | | |
| 58-41 | 173-39 | 5/20 | 123 | | | | | | | 1 | 3 | 4 | 11 | 20 | 9 | 10 | 6 | 4 | 4 | 7 | 3 | 2 | 2 | | | | | | |
| 58-41 | 174-17 | 5/20 | 153 | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | |
| 58-59 | 174-23 | 5/20 | 123 | | | | | | | | | 3 | 7 | 13 | 12 | 14 | 9 | 9 | 5 | 5 | 3 | 1 | 2 | | | | | 1 | |
| 59-00 | 174-55 | 5/20 | 127 | | | | | | | 2 | 1 | 3 | 3 | 1 | 1 | | 1 | 2 | 1 | | | | | | | | | | |
| 58-43 | 174-56 | 5/21 | 147 | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | |
| 58-41 | 175-34 | 5/21 | 132 | | | | | | 1 | | 4 | 6 | 5 | 4 | 10 | 10 | 7 | 16 | 14 | 10 | 11 | 18 | 2 | | | 4 | | | |
| 59-00 | 175-45 | 5/21 | 130 | | 3 | | | | | | | 1 | 1 | 2 | 2 | 5 | | | | | | | | | | | | | |
| 58-59 | 176-18 | 5/21 | 131 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-39 | 176-16 | 5/21 | 137 | | | 2 | 1 | | | | | 3 | 4 | 1 | 13 | 12 | 8 | 17 | 5 | 11 | 6 | 7 | 1 | 1 | | | | | |
| 58-41 | 176-49 | 5/21 | 130 | | | | 2 | | | | 2 | 12 | 21 | 23 | 21 | 14 | 10 | 6 | 15 | 14 | 17 | 8 | 10 | 10 | | 2 | | | |
| 58-58 | 176-55 | 5/21 | 130 | | 3 | 8 | | | | | | 1 | 2 | | 1 | 1 | | | | | | | | | | | | | |
| 59-00 | 177-32 | 5/21 | 132 | | | | | | | | | 1 | 6 | 5 | 4 | 5 | 1 | 3 | 3 | 1 | | | | | | | | | |
| 59-21 | 177-02 | 5/22 | 145 | | | 8 | | | | | | | 3 | 1 | | | 1 | | | | | | | | | | | | |
| 59-39 | 177-06 | 5/22 | 165 | | | 7 | 1 | | | | | | | 1 | | | | | | | | | | | | | | | |
| 59-37 | 176-31 | 5/22 | 132 | | | | | | | | | | 9 | 2 | 7 | 4 | 5 | 1 | 2 | 4 | 1 | | | | | | | | |
| 59-20 | 176-21 | 5/22 | 132 | | | | | | | | | 2 | | 5 | | 2 | 4 | 5 | 2 | | | | | | | | | | |
| 59-21 | 175-45 | 5/22 | 133 | | | | | | | 2 | | 11 | 9 | 13 | 13 | 15 | 5 | 4 | | | | 2 | | | | | | | |
| 59-40 | 175-43 | 5/22 | 132 | | | | | | | | 3 | 4 | 1 | 4 | | 3 | | | | | | | | | | | | | |
| 59-39 | 175-10 | 5/22 | 123 | | | | | | | 1 | 2 | 7 | 9 | 18 | 19 | 14 | 9 | 7 | 4 | 5 | 1 | | | | | | | | |
| 59-21 | 175-06 | 5/22 | 130 | | | | | | | 1 | 4 | 1 | | 3 | 2 | | 1 | 1 | 1 | | | | | | | | | | |
| 59-21 | 174-26 | 5/23 | 115 | | | | | | | 1 | 5 | 1 | 2 | | 8 | 1 | 4 | 1 | 4 | | | | | | | | | | |
| 59-40 | 174-29 | 5/23 | 112 | | | | | | | 6 | 11 | 7 | 29 | 25 | 30 | 14 | 3 | 1 | | | | | | | | | | | |
| 59-37 | 173-45 | 5/23 | 100 | | | | | | | 1 | 3 | 2 | 3 | 5 | 3 | 6 | | | | | | | | | | | | | |
| 59-19 | 173-47 | 5/23 | 105 | | | | | | 5 | 5 | 16 | 31 | 55 | 69 | 49 | 45 | 19 | 12 | 7 | 2 | | | | | | | | | |
| 59-20 | 173-09 | 5/23 | 96 | | | | | | | 3 | 15 | 14 | 15 | 21 | 11 | 2 | | 1 | | | | | | | | | | | |
| 59-42 | 173-13 | 5/23 | 90 | | | | 5 | 36 | 100 | 168 | 241 | 128 | 141 | 68 | 18 | 5 | | | | | | | | | | | | | |
| 59-39 | 172-33 | 5/23 | 81 | | | | | 2 | 5 | 12 | 12 | 12 | 3 | 5 | 2 | 3 | 2 | | | | | | | | | | | | |
| 59-21 | 172-30 | 5/23 | 85 | | | | | | | 1 | 5 | 6 | 5 | 3 | | | | | | | | | | | | | | | |

Table 3. (Page 2.) Width frequency by 5 mm classes of male OPILIO TANNER crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Width of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|-------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 20 24 | 25 29 | 30 34 | 35 39 | 40 44 | 45 49 | 50 54 | 55 59 | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 |
| 59-20 | 171-13 | 5/25 | 72 | | | | | 27 | 13 | 27 | 67 | 40 | 160 | 333 | 359 | 359 | 346 | 439 | 226 | 173 | 53 | 27 | 13 | | | | | | |
| 59-20 | 171-50 | 5/25 | 76 | | | | 7 | 16 | 32 | 71 | 75 | 107 | 107 | 84 | 68 | 20 | 29 | 13 | 3 | 16 | | | | | | | | | |
| 59-41 | 171-54 | 5/25 | 74 | | | | | | 32 | 64 | 117 | 192 | 223 | 383 | 436 | 351 | 192 | 85 | 42 | 11 | | | | | | | | | |
| 59-57 | 171-56 | 5/25 | 64 | | | | 1 | 1 | 6 | 9 | 10 | 9 | 8 | 10 | 7 | 5 | 4 | 3 | 1 | | | | | | | | | | |
| 60-02 | 173-24 | 5/25 | 72 | | | | | 2 | | 6 | 7 | 2 | | | | | | 9 | 7 | 4 | 7 | 6 | | | | | | | |
| 60-01 | 173-56 | 5/25 | 94 | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | |
| 60-20 | 174-00 | 5/25 | 90 | | | | | | 1 | 3 | 2 | 2 | 5 | 2 | | 3 | | | 1 | 4 | 1 | | | | | | | | |
| 59-59 | 175-18 | 5/27 | 115 | | | | | 1 | 1 | 1 | 7 | 6 | 4 | 1 | | | | | | 1 | | | | | | | | | |
| 60-00 | 174-38 | 5/27 | 106 | | | | | 1 | 1 | 7 | 21 | 16 | 15 | 5 | 2 | 4 | | | | | | | | | | | | | |
| 60-20 | 174-46 | 5/27 | 100 | | | | | | 6 | 1 | 6 | 11 | 23 | 14 | 7 | 3 | 4 | | | | | | | | | | | | 2 |
| 60-20 | 175-25 | 5/27 | 108 | | | | | 2 | 1 | 8 | 8 | 7 | 13 | 14 | 9 | 2 | 1 | | | | | | | | | | | | 2 |
| 60-19 | 176-01 | 5/27 | 118 | | | | | | 3 | 9 | 11 | 23 | 19 | 20 | 9 | 12 | 4 | 1 | 3 | | | | | | | | | | |
| 60-00 | 175-58 | 5/27 | 126 | | | | | 15 | 30 | 105 | 256 | 497 | 512 | 647 | 482 | 90 | 136 | 106 | 45 | 45 | 30 | 15 | | | | | | | |
| 60-01 | 176-34 | 5/27 | 140 | | | | | | | 2 | 3 | 2 | 13 | 12 | 17 | 9 | 6 | 5 | 6 | 8 | 1 | 1 | | | | | | | 1 |
| 60-18 | 176-41 | 5/27 | 133 | | | | | 1 | | 7 | 3 | 16 | 15 | 31 | 16 | 7 | 1 | 4 | 2 | 4 | | | | | | | | | 2 |
| 60-01 | 177-13 | 5/28 | 135 | | | | | | | | 3 | | 3 | 3 | 1 | 1 | 4 | 1 | 1 | | | | | | | | | | 1 |
| 60-21 | 177-22 | 5/28 | 147 | | | | | | | | 1 | 1 | | | 3 | 2 | | | | | 8 | 2 | | | | | | | |
| 60-40 | 177-28 | 5/28 | 145 | | | | | | | | 2 | 2 | 4 | | | | | | | | 1 | | | | | | | | |
| 60-39 | 176-49 | 5/28 | 127 | 1 | | | | 1 | 4 | 17 | 22 | 14 | 29 | 16 | 19 | 24 | 12 | 2 | 1 | 3 | | | | | | | | | |
| 60-40 | 176-13 | 5/28 | 115 | | | | | | 8 | 8 | 16 | 89 | 217 | 378 | 411 | 242 | 169 | 48 | 17 | | 8 | | | | | | | | |
| 60-56 | 176-17 | 5/28 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-40 | 175-29 | 5/28 | 105 | | | | | 18 | 88 | 472 | 542 | 700 | 560 | 455 | 297 | 157 | 140 | 53 | 17 | | | | | | | | | | |
| 59-19 | 170-32 | 5/29 | 65 | | | | | 3 | 8 | 246 | 590 | 811 | 836 | 639 | 786 | 319 | 295 | 246 | 74 | 24 | 24 | | | | | | | | |
| 59-00 | 170-29 | 5/29 | 67 | | | | | | | 63 | 63 | 76 | 76 | 214 | 442 | 606 | 404 | 265 | 164 | 76 | 25 | 51 | | | | | | | |
| 58-40 | 170-24 | 5/29 | 70 | | | | | 1 | 3 | 13 | 18 | 19 | 8 | 20 | 11 | 4 | 5 | 4 | 1 | 2 | 1 | | | | | | | | |
| 58-39 | 169-45 | 5/29 | 64 | | | | | 1 | 2 | 12 | 5 | 7 | 6 | 7 | 10 | 16 | 12 | 7 | 7 | 2 | | | | | | | | | |
| 58-40 | 169-13 | 5/29 | 60 | | | | | 15 | 46 | 53 | 69 | 19 | 34 | 38 | 27 | 21 | 9 | 8 | 4 | | | | | | | | | | |
| 59-20 | 169-51 | 5/30 | 56 | | | | | 7 | 33 | 55 | 47 | 91 | 153 | 167 | 87 | 40 | 26 | 11 | 7 | 4 | | | | | | | | | |
| 59-19 | 169-13 | 5/30 | 45 | | | | | 10 | 28 | 52 | 73 | 93 | 124 | 111 | 80 | 48 | 38 | 14 | 17 | 4 | | | | | | | | | |
| 59-00 | 169-13 | 5/30 | 50 | | | | | 4 | 8 | 12 | 8 | 28 | 38 | 52 | 54 | 48 | 61 | 55 | 10 | 10 | 10 | | | | | | | | |
| 58-59 | 168-31 | 5/30 | 43 | | | | | 6 | 19 | 64 | 76 | 140 | 287 | 223 | 179 | 115 | 89 | 25 | 45 | | 7 | | | | | | | | |
| 58-39 | 168-30 | 5/30 | 50 | | | | | 9 | 35 | 70 | 88 | 149 | 228 | 245 | 219 | 271 | 193 | 140 | 87 | 17 | | | | | | | | | |
| 58-20 | 168-29 | 5/30 | 61 | | | | | 30 | 68 | 115 | 85 | 38 | 30 | 17 | 34 | 17 | 9 | 8 | | | | | | | | | | | |
| 58-19 | 169-08 | 5/30 | 63 | | | | | 2 | 11 | 14 | 12 | 15 | 7 | 13 | 16 | 13 | 11 | 10 | 10 | 3 | | | | | | | | | |
| 58-02 | 169-05 | 5/30 | 65 | | | | | 2 | 4 | 6 | 2 | 2 | 7 | 5 | 2 | 3 | 2 | 3 | | | | | | | | | | | |
| 57-41 | 169-00 | 6/01 | 65 | | | | | | 3 | 6 | 7 | 1 | 6 | 14 | 12 | 4 | | 1 | | | | | | | | | | | |
| 57-41 | 169-39 | 6/01 | 66 | | | | | | 2 | 1 | 3 | 6 | 5 | 9 | 13 | 6 | 1 | 1 | 1 | | | | | | | | | | |
| 57-58 | 169-41 | 6/01 | 66 | | | | | 1 | 19 | 23 | 22 | 13 | 16 | 27 | 20 | 5 | 5 | 1 | | | 1 | | | | | | | | |
| 58-17 | 169-44 | 6/01 | 66 | | | | | 2 | 1 | 5 | 19 | 21 | 7 | 19 | 20 | 21 | 13 | 5 | 1 | | | | | | | | | | |
| 58-21 | 170-23 | 6/01 | 72 | | | | | 9 | 16 | 16 | 21 | 12 | 18 | 16 | 12 | 4 | 2 | | 2 | | | | | | | | | | |
| 58-02 | 170-19 | 6/01 | 71 | | | | | 1 | 4 | 6 | 8 | 10 | 10 | 10 | 14 | 12 | 4 | 2 | | | | | | | | | | | |
| 58-01 | 170-58 | 6/01 | 83 | | | | | | | 167 | 321 | 524 | 298 | 262 | 310 | 155 | 202 | 83 | 24 | 24 | | 12 | | | | | | | |
| 58-18 | 171-00 | 6/01 | 82 | | | | | 1 | 9 | 14 | 15 | 11 | 7 | 13 | 12 | 6 | 2 | 1 | | | | | | | | | | | |
| 58-20 | 171-39 | 6/02 | 92 | | | | | | | 11 | 48 | 56 | 42 | 58 | 35 | 35 | 14 | 3 | 13 | 3 | 1 | | | | | | | | |

Table 3. (Page 3.) Width frequency by 5 mm classes of male OPIILIO TANNER crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Width of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------|-------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|---|
| | | | 20 24 | 25 29 | 30 34 | 35 39 | 40 44 | 45 49 | 50 54 | 55 59 | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 | | |
| 58-20 172-16 | 6/02 | 100 | | | | | | 1 | 3 | 14 | 15 | 14 | 16 | 25 | 21 | 16 | 9 | 8 | 7 | 4 | 2 | | | | | | | | | | |
| 58-20 172-57 | 6/02 | 106 | | | | | | | | | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 2 | | | | | | | | | | | |
| 57-59 173-27 | 6/02 | 114 | | | | | | | | | | | | | 2 | 1 | | | | 3 | 2 | 1 | | | | | | | | | |
| 58-01 172-50 | 6/02 | 106 | | | | | | | | | 1 | | | 1 | 1 | 2 | | | 2 | 3 | 2 | 1 | | | | | | | | | |
| 58-00 172-15 | 6/02 | 102 | | | | | | | | | | | 9 | 2 | 6 | 9 | 23 | 25 | 19 | 8 | 11 | 6 | 6 | 6 | 9 | | | | | | |
| 58-00 171-36 | 6/02 | 94 | | | | | | 1 | | | 1 | 2 | 1 | 2 | 18 | 24 | 21 | 11 | 10 | 8 | 3 | 1 | | | | | | | | | |
| 57-21 171-27 | 6/04 | 97 | | | | | | 3 | 9 | 53 | 54 | 63 | 88 | 123 | 85 | 57 | 50 | 35 | 3 | 6 | | | | | | | | | | | |
| 57-40 171-30 | 6/04 | 95 | | | | | | 9 | 14 | 9 | 47 | 47 | 79 | 178 | 182 | 150 | 93 | 70 | 23 | 14 | 14 | 5 | | | | | | | | | |
| 57-39 170-51 | 6/04 | 81 | | | | | 12 | 12 | 60 | 108 | 217 | 120 | 229 | 373 | 529 | 445 | 144 | 108 | 24 | 12 | | | | | | | | | | | |
| 57-39 170-18 | 6/04 | 70 | | | | | | 2 | 3 | 9 | 12 | 6 | 9 | 15 | 8 | 2 | 2 | 3 | | | | | | | | | | | | | |
| 57-20 172-06 | 6/06 | 106 | | | | | | | 1 | 7 | 15 | 15 | 19 | 27 | 29 | 21 | 15 | 12 | 9 | 4 | 2 | 1 | | | | | | | | | |
| 57-00 172-01 | 6/06 | 113 | | | | | | | 2 | 5 | 24 | 21 | 28 | 69 | 69 | 74 | 48 | 43 | 38 | 24 | 26 | 4 | | | | | | | | | |
| 57-00 172-37 | 6/07 | 120 | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| 57-00 171-26 | 6/08 | 106 | | | | | | | | | 9 | 3 | 2 | 9 | 7 | 9 | 10 | 12 | 3 | 4 | | | | | | | | | | | |
| 61-00 176-57 | 6/10 | 118 | | | | | | | | 16 | 12 | 8 | 31 | 58 | 128 | 132 | 105 | 86 | 105 | 47 | 19 | 23 | 4 | 4 | | | | | | | |
| 61-18 176-58 | 6/10 | 115 | | | | | | 8 | 8 | 49 | 65 | 237 | 310 | 147 | 147 | 180 | 122 | 155 | 89 | 57 | | 49 | | | | | | | | | |
| 61-19 176-14 | 6/10 | 105 | | | | | 6 | 25 | 116 | 126 | 94 | 101 | 57 | 57 | 25 | 19 | 3 | | | | | | | | | | | | | | |
| 61-20 175-37 | 6/10 | 95 | | | | | 20 | 59 | 135 | 113 | 76 | 87 | 48 | 14 | 6 | 3 | 3 | | | | | | | | | | | | | | |
| 61-01 175-30 | 6/11 | 98 | | | | | | 45 | 173 | 377 | 422 | 188 | 151 | 68 | 53 | 22 | | | 8 | | | | | | | | | | | | |
| 60-59 174-53 | 6/11 | 92 | | | | | 3 | 44 | 136 | 187 | 120 | 60 | 44 | 25 | 13 | | | | | | | | | | | | | | | | |
| 60-41 174-50 | 6/11 | 95 | | | | | | 4 | 23 | 28 | 13 | 14 | 2 | 8 | | | | | 1 | | | | | | | | | | | | |
| 60-40 174-06 | 6/11 | 85 | | | | | 4 | 10 | 113 | 191 | 157 | 103 | 44 | 24 | 24 | | | 10 | 3 | | | | | | | | | | | | |
| 61-00 174-10 | 6/11 | 81 | | | | | 3 | 14 | 78 | 190 | 183 | 122 | 61 | 13 | 10 | | | 3 | | | | | | | | | | | | | |
| 61-19 172-12 | 6/11 | 62 | | | | | 8 | 21 | 72 | 92 | 59 | 30 | 14 | 2 | 3 | | | 1 | | | | | | | | | | | | | |
| 61-18 171-33 | 6/11 | 53 | | | | | 30 | 88 | 197 | 187 | 79 | 3 | 6 | 12 | 3 | | | | | | | | | | | | | | | | |
| 61-00 171-27 | 6/11 | 52 | | | | | | 16 | 157 | 495 | 627 | 223 | 82 | 17 | 16 | 16 | | | | | | | | | | | | | | | |
| 61-20 170-45 | 6/12 | 46 | | | | | 3 | 63 | 189 | 258 | 79 | 43 | 17 | 7 | | 3 | | | | | | | | | | | | | | | |
| 61-20 170-08 | 6/12 | 44 | | | | | 5 | 39 | 72 | 125 | 65 | 39 | 4 | 3 | | | | | | | | | | | | | | | | | |
| 61-40 170-07 | 6/12 | 43 | | | | 11 | 123 | 226 | 220 | 215 | 145 | 97 | 32 | 5 | | | | | | | | | | | | | | | | | |
| 61-39 169-32 | 6/12 | 38 | | | 23 | 462 | 1571 | 1040 | 808 | 439 | 208 | 23 | | 23 | 23 | | | | | | | | | | | | | | | | |
| 61-19 169-25 | 6/12 | 37 | | | | 66 | 433 | 1141 | 551 | 275 | 92 | 66 | | | | | | | | | | | | | | | | | | | |
| 60-59 170-04 | 6/12 | 45 | | | | 2 | 6 | 13 | 13 | 18 | 3 | 1 | | | | | | | | | | | | | | | | | | | |
| 60-39 170-44 | 6/12 | 56 | | | | | 12 | 20 | 22 | 21 | 19 | 13 | 5 | | | | | | | | | | | | | | | | | | |
| 60-40 171-27 | 6/13 | 60 | | | | | | 8 | 84 | 184 | 129 | 63 | 40 | 3 | 16 | | | | | | | | | | | | | | | | |
| 60-19 171-22 | 6/13 | 63 | | | | | 7 | 40 | 86 | 212 | 230 | 86 | 22 | 25 | 7 | | | 4 | | | | | | | | | | | | | |
| 60-00 171-16 | 6/13 | 67 | | | | | 14 | 29 | 119 | 249 | 277 | 153 | 81 | 14 | 10 | 10 | | | | | | | | | | | | | | | |
| 59-40 171-15 | 6/13 | 68 | | | | | | 39 | 136 | 195 | 497 | 361 | 293 | 205 | 117 | 78 | 19 | 10 | | | | | | | | | | | | | |
| 57-20 169-01 | 6/14 | 66 | | | | | | | 3 | | 7 | 1 | 4 | 5 | 1 | | | 2 | 5 | | | | | | | | | | | | |
| 57-20 169-37 | 6/14 | 55 | | | | | | 6 | 12 | 32 | 17 | 11 | 7 | 26 | 21 | 24 | 20 | 9 | 15 | 3 | 2 | | | | | | | | | | |
| TOTALS | | | 1 | 7 | 59 | 673 | 2611 | 3966 | 5872 | 8008 | 8178 | 7452 | 7561 | 8222 | 7426 | 5018 | 3373 | 2526 | 1241 | 675 | 347 | 173 | 74 | 28 | 5 | 4 | | | | | 1 |

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Table 4. (Page 1.) Width frequency by 5 mm classes of female OPILIO TANNER crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Width of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|-------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 20 24 | 25 29 | 30 34 | 35 39 | 40 44 | 45 49 | 50 54 | 55 59 | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 |
| 58-40 | 172-59 | 5/17 | | | | | | 1 | 16 | 17 | 7 | 1 | | | | | | | | | | | | | | | | | |
| 58-58 | 171-50 | 5/17 | | | | | 2 | 6 | 15 | 2 | | | | | | | | | | | | | | | | | | | |
| 59-39 | 170-27 | 5/18 | | | | | | 141 | 357 | 379 | 151 | 54 | | | | | | | | | | | | | | | | | |
| 59-39 | 169-53 | 5/18 | | | | | | 21 | 88 | 51 | 10 | | | | | | | | | | | | | | | | | | |
| 59-59 | 169-18 | 5/18 | | | | | | 11 | 27 | 9 | 2 | | | | | | | | | | | | | | | | | | |
| 59-42 | 169-16 | 5/18 | | | | | 4 | 28 | 124 | 53 | 4 | 4 | | | | | | | | | | | | | | | | | |
| 59-39 | 168-36 | 5/18 | | | | | 6 | 33 | 70 | 13 | | | | | | | | | | | | | | | | | | | |
| 58-58 | 169-50 | 5/19 | | | | | | 10 | 69 | 119 | 50 | 5 | | | | | | | | | | | | | | | | | |
| 58-59 | 171-08 | 5/19 | | | | | | | 78 | 895 | 1906 | 1011 | | | | | | | | | | | | | | | | | |
| 58-41 | 171-07 | 5/19 | | | | | 2 | 6 | 30 | 13 | 5 | 4 | 1 | | | | | | | | | | | | | | | | |
| 58-39 | 171-43 | 5/19 | | | | | 25 | 153 | 236 | 79 | | | | | | | | | | | | | | | | | | | |
| 58-40 | 172-22 | 5/20 | | | | | | 2 | 3 | 1 | | | 1 | | | | | | | | | | | | | | | | |
| 58-58 | 172-24 | 5/20 | | | | | 3 | 55 | 107 | 67 | 12 | 5 | | | | | | | | | | | | | | | | | |
| 59-00 | 173-18 | 5/20 | | | | | | 1 | 3 | 2 | | | | | | | | | | | | | | | | | | | |
| 58-59 | 173-43 | 5/20 | | | | | | 5 | 17 | 13 | 6 | 5 | 4 | | | | 1 | | | | | | | | | | | | |
| 58-41 | 173-39 | 5/20 | | | | | | | 1 | 1 | | | 1 | | | | | | | | | | | | | | | | |
| 58-41 | 174-17 | 5/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-59 | 174-23 | 5/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-00 | 174-55 | 5/20 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-43 | 174-56 | 5/21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-41 | 175-34 | 5/21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-00 | 175-45 | 5/21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-59 | 176-18 | 5/21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-39 | 176-16 | 5/21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-41 | 176-49 | 5/21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-58 | 176-55 | 5/21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-00 | 177-32 | 5/21 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-21 | 177-02 | 5/22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-39 | 177-06 | 5/22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-37 | 176-31 | 5/22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-21 | 175-45 | 5/22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-40 | 175-43 | 5/22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-39 | 175-10 | 5/22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-21 | 175-06 | 5/22 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-21 | 174-26 | 5/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-40 | 174-29 | 5/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-37 | 173-45 | 5/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-19 | 173-47 | 5/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-20 | 173-09 | 5/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-42 | 173-13 | 5/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-39 | 172-33 | 5/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-21 | 172-30 | 5/23 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-20 | 171-13 | 5/25 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-20 | 171-50 | 5/25 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 5. (Page 1.) Length frequency by 5 mm classes of male BLUE KING crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Length of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|-------|-------------------------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 | 155 159 | 160 164 | 165 169 | 170 174 | 175 179 | 180 184 | 185 189 |
| 59-21 | 174-26 | 5/23 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-40 | 174-29 | 5/23 | 112 | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| 59-37 | 173-45 | 5/23 | 100 | | | | | | | | | 1 | 3 | | | | | | | | | | | | | | | |
| 59-19 | 173-47 | 5/23 | 105 | | | | | | | | 2 | 1 | | | | | | | | | | | | | | | | |
| 59-20 | 173-09 | 5/23 | 96 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-42 | 173-13 | 5/23 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-39 | 172-33 | 5/23 | 81 | | | | | | 1 | 3 | 3 | 4 | 7 | 4 | 4 | 6 | 10 | 16 | 19 | 10 | 9 | 4 | 4 | | 1 | | | |
| 59-21 | 172-30 | 5/23 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-20 | 171-13 | 5/25 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-20 | 171-50 | 5/25 | 76 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-41 | 171-54 | 5/25 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-57 | 171-56 | 5/25 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-02 | 173-24 | 5/25 | 72 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-01 | 173-56 | 5/25 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-20 | 174-00 | 5/25 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59-59 | 175-18 | 5/27 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-20 | 174-46 | 5/27 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-01 | 177-13 | 5/28 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-40 | 176-13 | 5/28 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-56 | 176-17 | 5/28 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-20 | 168-29 | 5/30 | 61 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-19 | 169-08 | 5/30 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-02 | 169-05 | 5/30 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-41 | 169-00 | 6/01 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-41 | 169-39 | 6/01 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-58 | 169-41 | 6/01 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-17 | 169-44 | 6/01 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-21 | 170-23 | 6/01 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-02 | 170-19 | 6/01 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-01 | 170-58 | 6/01 | 83 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-18 | 171-00 | 6/01 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58-00 | 171-36 | 6/02 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-40 | 171-30 | 6/04 | 95 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-39 | 170-51 | 6/04 | 81 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-39 | 170-18 | 6/04 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61-18 | 176-58 | 6/10 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61-19 | 176-14 | 6/10 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61-20 | 175-37 | 6/10 | 95 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61-01 | 175-30 | 6/11 | 98 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-59 | 174-53 | 6/11 | 92 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-40 | 174-06 | 6/11 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60-00 | 171-16 | 6/13 | 67 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57-20 | 169-01 | 6/14 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 5. (Page 2.) Length frequency by 5 mm classes of male BLUE KING crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Length of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|--------|-------------------------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 | 155 159 | 160 164 | 165 169 | 170 174 | 175 179 | 180 184 | 185 189 |
| 57-20 | 169-37 | 6/14 | 55 | | | | | | 2 | | 2 | | | | 1 | | | | | | | 2 | 3 | | | | | |
| | | TOTALS | | 3 | | 1 | 1 | 12 | 12 | 15 | 28 | 52 | 69 | 70 | 65 | 102 | 80 | 82 | 45 | 32 | 20 | 14 | 17 | 5 | 6 | 5 | | |

Table 6. (Page 1.) Length frequency by 5 mm classes of female BLUE KING crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Length of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|-------|-------------------------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 60 64 | 65 69 | 70 74 | 75 79 | 80 84 | 85 89 | 90 94 | 95 99 | 100 104 | 105 109 | 110 114 | 115 119 | 120 124 | 125 129 | 130 134 | 135 139 | 140 144 | 145 149 | 150 154 | 155 159 | 160 164 | 165 169 | 170 174 | 175 179 | 180 184 | 185 189 |
| 60-02 | 173-24 | 5/25 | | 2 | | 2 | 2 | 5 | 4 | | 2 | | | | | | | | | | | | | | | | | |
| 60-01 | 173-56 | 5/25 | | | | | | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | |
| 60-20 | 174-00 | 5/25 | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | |
| 60-19 | 176-01 | 5/27 | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| 60-01 | 177-13 | 5/28 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| 60-40 | 177-28 | 5/28 | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| 58-02 | 169-05 | 5/30 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| 57-41 | 169-00 | 6/01 | | | | | 1 | 1 | | | 3 | 3 | 1 | | 3 | 2 | | | | | | | | | | | | |
| 57-41 | 169-39 | 6/01 | | | | | | | | | | 1 | | 1 | 3 | 2 | | | | | | | | | | | | |
| 58-01 | 170-58 | 6/01 | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| 57-39 | 170-51 | 6/04 | | | | | | | | | 1 | 1 | | 3 | 2 | 1 | | | | | | | | | | | | |
| 57-39 | 170-18 | 6/04 | | | | | | | | | | | | | | | 2 | 1 | | | | | | | | | | |
| 61-00 | 176-57 | 6/10 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 61-19 | 176-14 | 6/10 | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| 61-20 | 175-37 | 6/10 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| 57-20 | 169-01 | 6/14 | | | | | | | | | 2 | 3 | 3 | 3 | 2 | 1 | | | | | | | | | | | | |
| 57-20 | 169-37 | 6/14 | | | | | | | | | 1 | | 6 | 2 | 3 | | 2 | | | | | | | | | 1 | | |
| TOTALS | | | | 2 | | 2 | 3 | 9 | 9 | 7 | 11 | 6 | 10 | 12 | 12 | 4 | 4 | 1 | 1 | | | | | | | | | |

Table 7. (Page 1.) Width frequency by 5 mm classes of male KOREAN HAIR crab during the 1982 May to June research cruise by Wakatake maru.

| Position | Date | Depth | Width of carapace (mm) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|--------|--------|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | |
| | | | 34 | 39 | 44 | 49 | 54 | 59 | 64 | 69 | 74 | 79 | 84 | 89 | 94 | 99 | 104 | 109 | 114 | 119 | 124 | 129 | 134 | 139 | 144 | 149 | 154 | 159 | |
| 57-20 | 169-01 | 6/14 | 66 | | | | | | | | | 3 | 5 | | 5 | 9 | 6 | 7 | 2 | | | | | | | | | | |
| 57-20 | 169-37 | 6/14 | 55 | | | | | | | | | 1 | 2 | | | 3 | 3 | 3 | | | | | | | | | | | |
| | | TOTALS | | | | | | | | | | 4 | 7 | | 5 | 12 | 9 | 10 | 2 | | | | | | | | | | |