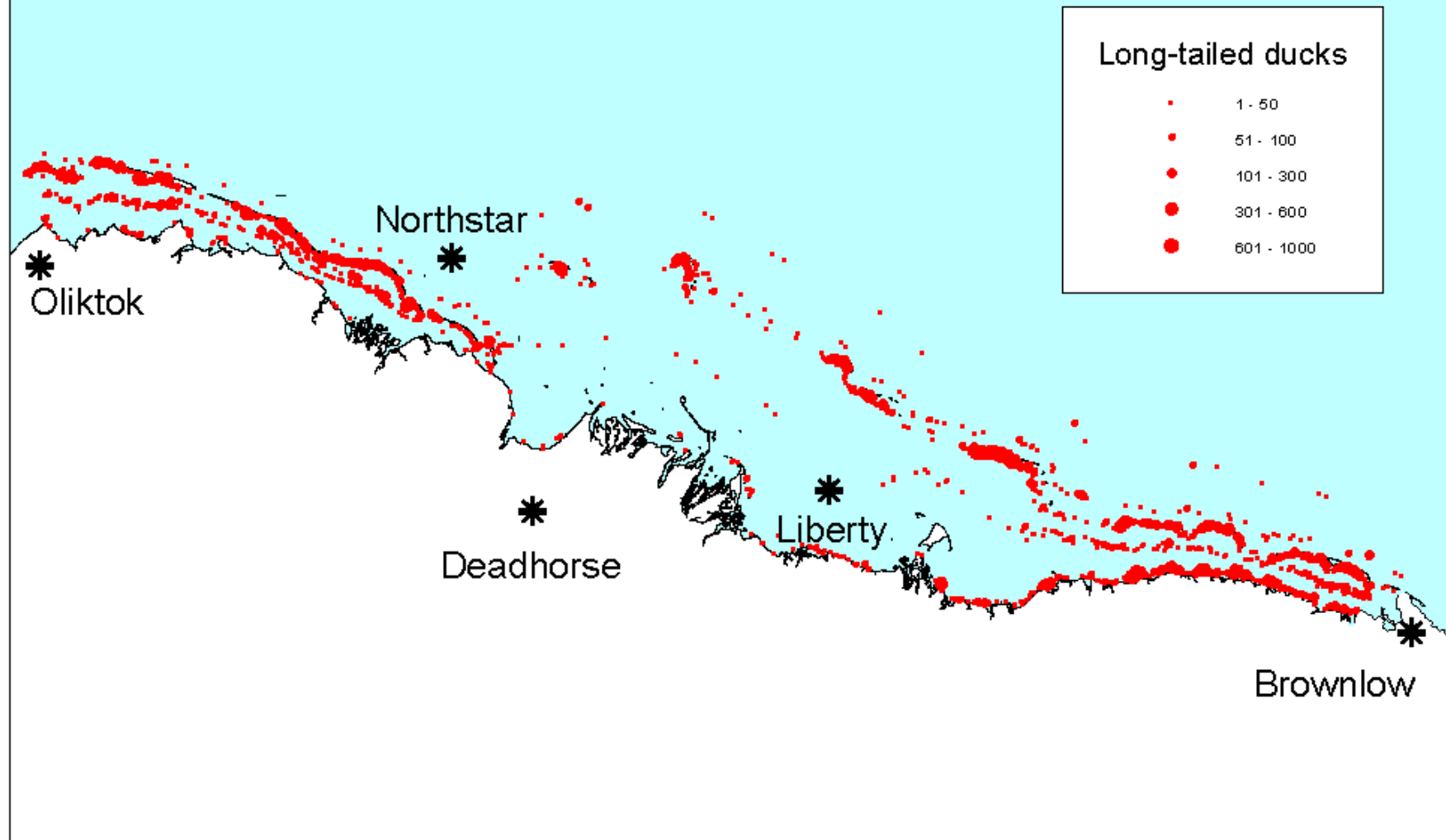


Appendix 1. Sightings of Long-tailed Ducks during 12 near-shore aerial surveys, Beaufort Sea, Alaska, 1999-2000.



Appendix 2. Densities and numbers of Long-tailed Ducks observed on historical near-shore transects during 12 replicate surveys, Beaufort Sea, 1999-2000.

| Date         | West Inshore Marine |        |         |        |         |        |         |        | West Barrier Island |        |         |        |         |        |         |        |
|--------------|---------------------|--------|---------|--------|---------|--------|---------|--------|---------------------|--------|---------|--------|---------|--------|---------|--------|
|              | 101                 |        | 102     |        | 30      |        | 22      |        | 201                 |        | 202     |        | 31      |        | 23      |        |
|              | Length (km)         |        | 14.70   |        | 13.50   |        | 9.10    |        | 22.00               |        | 15.20   |        | 14.00   |        | 11.20   |        |
|              | Area (sq. km)       |        | 5.88    |        | 5.40    |        | 3.64    |        | 8.80                |        | 6.08    |        | 5.60    |        | 4.48    |        |
|              | Density             | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv | Density             | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv |
| 22-Jul-1999  | 0.11                | 1      | 0.00    | 0      | 0.74    | 4      | 3.57    | 13     | 156.48              | 1377   | 148.36  | 902    | 268.04  | 1501   | 6.70    | 30     |
| 30-Jul-1999  | 0.98                | 9      | 4.25    | 25     | 0.00    | 0      | 0.27    | 1      | 46.48               | 409    | 0.00    | 0      | 74.46   | 417    | 5.13    | 23     |
| 11-Aug-1999  | 0.00                | 0      | 1.70    | 10     | 0.00    | 0      | 2.75    | 10     | 107.95              | 950    | 177.47  | 1079   | 312.14  | 1748   | 17.63   | 79     |
| 26-Aug-1999  | 2.28                | 21     | 0.00    | 0      | 0.37    | 2      | 0.55    | 2      | 17.05               | 150    | 1.97    | 12     | 29.82   | 167    | 2.90    | 13     |
| 2-3-Sep-1999 | 0.65                | 6      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 40.45               | 356    | 3.62    | 22     | 18.57   | 104    | 3.35    | 15     |
| 8-Sep-1999   | 0.43                | 4      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 8.07                | 71     | 1.81    | 11     | 9.46    | 53     | 27.23   | 122    |
| 21-Jul-2000  | 0.00                | 0      | 0.00    | 0      | 0.74    | 4      | 0.00    | 0      | 80.11               | 705    | 74.84   | 455    | 86.07   | 482    | 8.26    | 37     |
| 1-Aug-2000   | 4.89                | 45     | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 15.80               | 139    | 14.47   | 88     | 4.46    | 25     | 3.35    | 15     |
| 7-Aug-2000   | 0.00                | 0      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 72.27               | 636    | 35.86   | 218    | 128.21  | 718    | 34.82   | 156    |
| 15-Aug-2000* | 0.00                | 0      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 28.64               | 252    | 26.64   | 162    | 46.43   | 260    | 0.22    | 1      |
| 24-Aug-2000  | 0.00                | 0      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 332.95              | 2930   | 161.51  | 982    | 286.96  | 1607   | 50.67   | 227    |
| 31-Aug-2000  | 4.46                | 41     | 0.00    | 0      | 4.81    | 26     | 2.75    | 10     | 38.86               | 342    | 43.75   | 266    | 32.68   | 183    | 8.48    | 38     |
| Mean         | 1.15                |        | 0.50    |        | 0.56    |        | 0.82    |        | 78.76               |        | 57.52   |        | 108.11  |        | 14.06   |        |

| Date         | West Mid-Lagoon |        |         |        |         |        |         |        | West Mainland Shoreline |        |         |        |         |        |         |        |
|--------------|-----------------|--------|---------|--------|---------|--------|---------|--------|-------------------------|--------|---------|--------|---------|--------|---------|--------|
|              | 301             |        | 302     |        | 32      |        | 24      |        | 401                     |        | 402     |        | 33      |        | 25      |        |
|              | Length (km)     |        | 12.60   |        | 15.60   |        | 9.40    |        | 18.70                   |        | 15.10   |        | 19.80   |        | 12.50   |        |
|              | Area (sq. km)   |        | 5.04    |        | 6.24    |        | 3.76    |        | 7.48                    |        | 6.04    |        | 7.92    |        | 5.00    |        |
|              | Density         | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv | Density                 | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv |
| 22-Jul-1999  | 9.53            | 69     | 12.30   | 62     | 12.02   | 75     | 0.80    | 3      | 13.50                   | 101    | 0.33    | 2      | 0.00    | 0      | 0.00    | 0      |
| 30-Jul-1999  | 64.64           | 468    | 142.26  | 717    | 77.40   | 483    | 10.11   | 38     | 16.84                   | 126    | 25.99   | 157    | 0.13    | 1      | 13.00   | 65     |
| 11-Aug-1999  | 25.28           | 183    | 0.00    | 0      | 8.01    | 50     | 0.00    | 0      | 2.67                    | 20     | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      |
| 26-Aug-1999  | 1.93            | 14     | 11.90   | 60     | 18.91   | 118    | 10.37   | 39     | 0.00                    | 0      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      |
| 2-3-Sep-1999 | 0.00            | 0      | 0.00    | 0      | 15.54   | 97     | 0.27    | 1      | 3.34                    | 25     | 7.45    | 45     | 0.00    | 0      | 4.00    | 20     |
| 8-Sep-1999   | 3.31            | 24     | 4.96    | 25     | 10.58   | 66     | 0.00    | 0      | 0.13                    | 1      | 1.16    | 7      | 0.38    | 3      | 4.00    | 20     |
| 21-Jul-2000  | 0.41            | 3      | 2.78    | 14     | 3.21    | 20     | 0.00    | 0      | 3.34                    | 25     | 0.00    | 0      | 6.31    | 50     | 1.20    | 6      |
| 1-Aug-2000   | 25.83           | 187    | 9.92    | 50     | 20.03   | 125    | 0.00    | 0      | 0.00                    | 0      | 1.66    | 10     | 0.00    | 0      | 0.00    | 0      |
| 7-Aug-2000   | 40.06           | 290    | 18.85   | 95     | 11.22   | 70     | 0.27    | 1      | 8.29                    | 62     | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      |
| 15-Aug-2000* | 7.87            | 57     | 1.39    | 7      | 0.16    | 1      | 0.00    | 0      | 0.00                    | 0      | 3.31    | 20     | 0.76    | 6      | 0.00    | 0      |
| 24-Aug-2000  | 5.66            | 41     | 0.40    | 2      | 2.08    | 13     | 0.00    | 0      | 1.07                    | 8      | 32.62   | 197    | 0.38    | 3      | 0.20    | 1      |
| 31-Aug-2000  | 18.37           | 133    | 7.94    | 40     | 11.38   | 71     | 1.33    | 5      | 1.34                    | 10     | 0.00    | 0      | 6.69    | 53     | 0.00    | 0      |
| Mean         | 16.91           |        | 17.72   |        | 15.88   |        | 1.93    |        | 4.21                    |        | 6.04    |        | 1.22    |        | 1.87    |        |

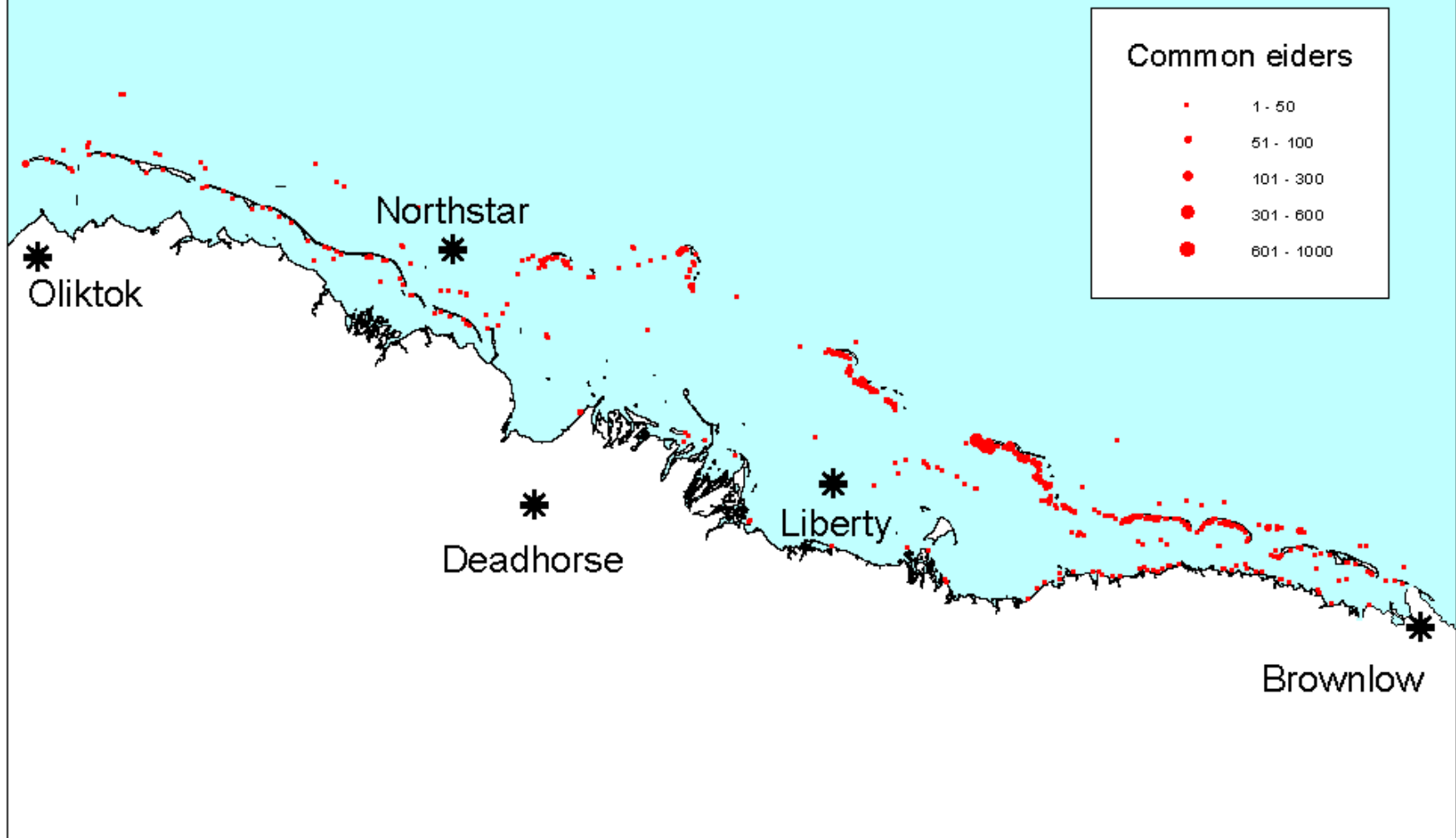
| Date         | East Inshore Marine |        |         |        |         |        |         |        | East Barrier Island |        |         |        |         |        |         |        |
|--------------|---------------------|--------|---------|--------|---------|--------|---------|--------|---------------------|--------|---------|--------|---------|--------|---------|--------|
|              | 63                  |        | 62      |        | 61      |        | 60      |        | 133                 |        | 134     |        | 135     |        | 136     |        |
|              | Length (km)         |        | 12.20   |        | 12.50   |        | 13.60   |        | 14.20               |        | 13.00   |        | 14.10   |        | 15.20   |        |
|              | Area (sq. km)       |        | 4.88    |        | 5.00    |        | 5.44    |        | 5.68                |        | 5.20    |        | 5.64    |        | 6.08    |        |
|              | Density             | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv | Density             | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv |
| 22-Jul-1999  | 0.00                | 0      | 5.33    | 26     | 9.00    | 45     | 5.15    | 28     | 125.00              | 710    | 73.27   | 381    | 99.11   | 559    | 140.30  | 853    |
| 30-Jul-1999  | 3.38                | 18     | 0.00    | 0      | 0.80    | 4      | 0.00    | 0      | 131.34              | 746    | 236.54  | 1230   | 208.51  | 1176   | 95.72   | 582    |
| 11-Aug-1999  | 0.00                | 0      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 67.78               | 385    | 18.27   | 95     | 120.04  | 677    | 50.49   | 307    |
| 26-Aug-1999  | 0.00                | 0      | 0.82    | 4      | 6.00    | 30     | 11.58   | 63     | 41.20               | 234    | 27.12   | 141    | 50.89   | 287    | 33.88   | 206    |
| 2-3-Sep-1999 | 0.75                | 4      | 2.66    | 13     | 0.00    | 0      | 0.00    | 0      | 1511.3              | 8584   | 471.54  | 2452   | 145.39  | 820    | 82.57   | 502    |
| 8-Sep-1999   | 0.00                | 0      | 7.17    | 35     | 0.60    | 3      | 0.37    | 2      | 42.61               | 242    | 41.73   | 217    | 59.40   | 335    | 58.55   | 356    |
| 21-Jul-2000  | 0.00                | 0      | 0.61    | 3      | 0.00    | 0      | 0.74    | 4      | 127.99              | 727    | 100.19  | 521    | 56.38   | 318    | 123.36  | 750    |
| 1-Aug-2000   | 0.00                | 0      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 83.63               | 475    | 2.88    | 15     | 17.91   | 101    | 23.68   | 144    |
| 7-Aug-2000   | 0.00                | 0      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 96.83               | 550    | 100.96  | 525    | 121.81  | 687    | 155.10  | 943    |
| 15-Aug-2000* | 0.00                | 0      | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 17.61               | 100    | 1.92    | 10     | 44.15   | 249    | 38.13   | 98     |
| 24-Aug-2000  | 18.80               | 100    | 0.00    | 0      | 0.00    | 0      | 0.00    | 0      | 41.20               | 234    | 50.19   | 261    | 32.27   | 182    | 60.20   | 366    |
| 31-Aug-2000  | 36.84               | 196    | 46.11   | 225    | 17.80   | 89     | 36.76   | 200    | 55.28               | 314    | 48.65   | 253    | 33.51   | 189    | 76.64   | 466    |
| Mean         | 4.98                |        | 5.23    |        | 2.85    |        | 4.55    |        | 195.14              |        | 97.77   |        | 82.45   |        | 78.22   |        |

| Date         | East Mid-Lagoon |        |         |        |         |        |         |        | East Mainland Shoreline |        |         |        |         |        |         |        |         |        |
|--------------|-----------------|--------|---------|--------|---------|--------|---------|--------|-------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
|              | 183             |        | 182     |        | 181     |        | 180     |        | 193                     |        | 192     |        | 191     |        | 190     |        |         |        |
|              | Length (km)     |        | 13.90   |        | 13.00   |        | 11.80   |        | 14.20                   |        | 19.50   |        | 17.30   |        | 12.80   |        | 16.00   |        |
|              | Area (sq. km)   |        | 5.56    |        | 5.20    |        | 4.72    |        | 5.68                    |        | 7.80    |        | 6.92    |        | 5.12    |        | 6.40    |        |
|              | Density         | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv | Density                 | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv | Density | #Indiv |
| 22-Jul-1999  | 1.80            | 10     | 3.08    | 16     | 5.08    | 24     | 13.03   | 74     | 18.33                   | 143    | 159.68  | 1105   | 172.07  | 881    | 48.44   | 310    |         |        |
| 30-Jul-1999  | 0.00            | 0      | 4.04    | 21     | 6.36    | 30     | 38.56   | 219    | 80.64                   | 629    | 172.54  | 1194   | 270.31  | 1384   | 203.13  | 1300   |         |        |
| 11-Aug-1999  | 0.00            | 0      | 0.00    | 0      | 0.00    | 0      | 25.88   | 147    | 7.69                    | 60     | 21.68   | 150    | 116.21  | 595    | 0.00    | 0      |         |        |
| 26-Aug-1999  | 0.00            | 0      | 5.77    | 30     | 100.85  | 476    | 11.80   | 67     | 0.26                    | 2      | 25.29   | 175    | 33.20   | 170    | 5.16    | 33     |         |        |
| 2-3-Sep-1999 | 2.70            | 15     | 17.50   | 91     | 9.11    | 43     | 0.00    | 0      | 3.59                    | 28     | 208.38  | 1442   | 107.42  | 550    | 48.44   | 310    |         |        |
| 8-Sep-1999   | 14.93           | 83     | 48.65   | 253    | 3.81    | 18     | 41.90   | 238    | 2.56                    | 20     | 7.08    | 49     | 20.51   | 105    | 7.81    | 50     |         |        |
| 21-Jul-2000  | 0.00            | 0      | 0.00    | 0      | 0.00    | 0      | 15.14   | 86     | 56.41                   | 440    | 131.94  | 913    | 80.27   | 411    | 21.56   | 138    |         |        |
| 1-Aug-2000   | 0.00            | 0      | 15.38   | 80     | 0.00    | 0      | 4.40    | 25     | 0.64                    | 5      | 50.43   | 349    | 17.58   | 90     | 13.91   | 89     |         |        |
| 7-Aug-2000   | 0.00            | 0      | 0.00    | 0      | 1.69    | 8      | 39.96   | 227    | 23.72                   | 185    | 105.20  | 728    | 231.84  | 1187   | 78.28   | 501    |         |        |
| 15-Aug-2000* | 0.00            | 0      | 17.12   | 89     | 10.38   | 49     | 26.23   | 149    | 7.44                    | 58     | 14.16   | 98     | 64.84   | 332    | 26.09   | 167    |         |        |
| 24-Aug-2000  | 0.18            | 1      | 2.31    | 12     | 12.50   | 59     | 0.00    | 0      | 15.90                   | 124    | 106.65  | 738    | 50.98   | 261    | 9.84    | 63     |         |        |
| 31-Aug-2000  | 0.00            | 0      | 50.58   | 263    | 10.59   | 50     | 8.63    | 49     | 7.31                    | 57     | 53.61   | 371    | 68.75   | 352    | 11.41   | 73     |         |        |
| Mean         | 1.63            |        | 13.70   |        | 13.37   |        | 18.79   |        | 18.71                   |        | 88.05   |        | 102.83  |        | 39.51   |        |         |        |

\*Transects 60 and 136 were truncated due to fog on 15-Aug-2000; on that day transect 60 was 5.75 km in length with 2.3 sq. km surveyed and transect 136 was 6.43 km in length with 2.57 sq. km surveyed.

Appendix 3. Sightings of Common Eiders during 12 near-shore aerial surveys, Beaufort Sea, Alaska, 1999-2000.



Appendix 4. Densities and numbers of Common Eiders observed on historical near-shore transects during 12 replicate surveys, Beaufort Sea, 1999-2000.

| Date         | West Inshore Marine |        |              |        |             |        |             |        | West Barrier Island |        |              |        |             |        |             |        |
|--------------|---------------------|--------|--------------|--------|-------------|--------|-------------|--------|---------------------|--------|--------------|--------|-------------|--------|-------------|--------|
|              | Transect 101        |        | Transect 102 |        | Transect 30 |        | Transect 22 |        | Transect 201        |        | Transect 202 |        | Transect 31 |        | Transect 23 |        |
|              | Density             | #Indiv | Density      | #Indiv | Density     | #Indiv | Density     | #Indiv | Density             | #Indiv | Density      | #Indiv | Density     | #Indiv | Density     | #Indiv |
| 22-Jul-1999  | 0.00                | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      | 0.11                | 1      | 0.49         | 3      | 5.18        | 29     | 0.22        | 1      |
| 30-Jul-1999  | 0.54                | 5      | 0.00         | 0      | 0.56        | 3      | 3.02        | 11     | 0.00                | 0      | 0.00         | 0      | 0.00        | 0      | 0.45        | 2      |
| 11-Aug-1999  | 0.87                | 8      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      | 0.23                | 2      | 1.32         | 8      | 0.00        | 0      | 0.00        | 0      |
| 26-Aug-1999  | 0.00                | 0      | 0.00         | 0      | 0.00        | 0      | 0.27        | 1      | 0.00                | 0      | 2.63         | 16     | 1.43        | 8      | 0.00        | 0      |
| 2-3-Sep-1999 | 0.00                | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      | 0.00                | 0      | 2.47         | 15     | 0.00        | 0      | 4.46        | 20     |
| 8-Sep-1999   | 0.00                | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      | 0.23                | 2      | 0.00         | 0      | 0.18        | 1      | 0.00        | 0      |
| 21-Jul-2000  | 3.48                | 32     | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      | 0.00                | 0      | 0.00         | 0      | 0.00        | 0      | 0.67        | 3      |
| 1-Aug-2000   | 0.87                | 8      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      | 1.02                | 9      | 0.00         | 0      | 0.18        | 1      | 0.00        | 0      |
| 7-Aug-2000   | 0.11                | 1      | 0.00         | 0      | 5.56        | 30     | 0.82        | 3      | 0.23                | 2      | 0.82         | 5      | 0.36        | 2      | 0.67        | 3      |
| 15-Aug-2000* | 0.00                | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      | 0.11                | 1      | 0.00         | 0      | 1.07        | 6      | 0.00        | 0      |
| 24-Aug-2000  | 0.00                | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      | 0.57                | 5      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 31-Aug-2000  | 0.00                | 0      | 0.00         | 0      | 2.78        | 15     | 0.00        | 0      | 1.02                | 9      | 2.63         | 16     | 0.00        | 0      | 2.01        | 9      |
| Mean         | 0.49                |        | 0.00         |        | 0.74        |        | 0.34        |        | 0.29                |        | 0.86         |        | 0.70        |        | 0.71        |        |

| Date         | West Mid-Lagoon |        |              |        | West Mainland Shoreline |        |             |        |              |        |              |        |             |        |             |        |
|--------------|-----------------|--------|--------------|--------|-------------------------|--------|-------------|--------|--------------|--------|--------------|--------|-------------|--------|-------------|--------|
|              | Transect 301    |        | Transect 302 |        | Transect 32             |        | Transect 24 |        | Transect 401 |        | Transect 402 |        | Transect 33 |        | Transect 25 |        |
|              | Density         | #Indiv | Density      | #Indiv | Density                 | #Indiv | Density     | #Indiv | Density      | #Indiv | Density      | #Indiv | Density     | #Indiv | Density     | #Indiv |
| 22-Jul-1999  | 0.00            | 0      | 0.00         | 0      | 0.32                    | 2      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 30-Jul-1999  | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 11-Aug-1999  | 0.00            | 0      | 0.00         | 0      | 0.80                    | 5      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 26-Aug-1999  | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 2.13        | 8      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 2-3-Sep-1999 | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 8-Sep-1999   | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 21-Jul-2000  | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 1-Aug-2000   | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 7-Aug-2000   | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 15-Aug-2000* | 0.00            | 0      | 0.00         | 0      | 0.64                    | 4      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 24-Aug-2000  | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| 31-Aug-2000  | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00        | 0      | 0.00         | 0      | 0.00         | 0      | 0.00        | 0      | 0.00        | 0      |
| Mean         | 0.00            |        | 0.00         |        | 0.15                    |        | 0.18        |        | 0.00         |        | 0.00         |        | 0.00        |        | 0.00        |        |

| Date         | East Inshore Marine |        |             |        | East Barrier Island |        |             |        |              |        |              |        |              |        |              |        |
|--------------|---------------------|--------|-------------|--------|---------------------|--------|-------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
|              | Transect 63         |        | Transect 62 |        | Transect 61         |        | Transect 60 |        | Transect 133 |        | Transect 134 |        | Transect 135 |        | Transect 136 |        |
|              | Density             | #Indiv | Density     | #Indiv | Density             | #Indiv | Density     | #Indiv | Density      | #Indiv | Density      | #Indiv | Density      | #Indiv | Density      | #Indiv |
| 22-Jul-1999  | 0.00                | 0      | 0.00        | 0      | 0.00                | 0      | 0.00        | 0      | 12.50        | 71     | 32.69        | 170    | 5.50         | 31     | 0.16         | 1      |
| 30-Jul-1999  | 0.00                | 0      | 1.43        | 7      | 42.40               | 212    | 0.00        | 0      | 14.61        | 83     | 7.12         | 37     | 5.85         | 33     | 1.32         | 8      |
| 11-Aug-1999  | 0.00                | 0      | 0.00        | 0      | 0.00                | 0      | 0.00        | 0      | 65.14        | 370    | 3.27         | 17     | 1.42         | 8      | 0.00         | 0      |
| 26-Aug-1999  | 0.00                | 0      | 0.00        | 0      | 0.00                | 0      | 0.00        | 0      | 149.12       | 847    | 25.00        | 130    | 7.45         | 42     | 1.64         | 10     |
| 2-3-Sep-1999 | 0.00                | 0      | 0.00        | 0      | 0.00                | 0      | 0.00        | 0      | 68.31        | 388    | 21.15        | 110    | 8.69         | 49     | 1.97         | 12     |
| 8-Sep-1999   | 0.00                | 0      | 0.00        | 0      | 0.00                | 0      | 0.00        | 0      | 40.14        | 228    | 1.73         | 9      | 4.08         | 23     | 0.99         | 6      |
| 21-Jul-2000  | 0.00                | 0      | 0.00        | 0      | 0.00                | 0      | 0.00        | 0      | 9.15         | 52     | 0.77         | 4      | 0.35         | 2      | 0.00         | 0      |
| 1-Aug-2000   | 0.00                | 0      | 0.00        | 0      | 16.00               | 80     | 4.60        | 25     | 6.69         | 38     | 0.38         | 2      | 2.84         | 16     | 1.81         | 11     |
| 7-Aug-2000   | 0.00                | 0      | 0.00        | 0      | 1.20                | 6      | 0.74        | 4      | 18.66        | 106    | 10.00        | 52     | 2.30         | 13     | 0.33         | 2      |
| 15-Aug-2000* | 0.00                | 0      | 0.00        | 0      | 0.00                | 0      | 0.00        | 0      | 12.50        | 71     | 7.12         | 37     | 0.18         | 1      | 0.00         | 0      |
| 24-Aug-2000  | 2.26                | 12     | 0.00        | 0      | 0.00                | 0      | 0.00        | 0      | 3.70         | 21     | 0.77         | 4      | 7.62         | 43     | 0.49         | 3      |
| 31-Aug-2000  | 0.00                | 0      | 0.00        | 0      | 0.00                | 0      | 0.74        | 4      | 5.28         | 30     | 5.00         | 26     | 2.30         | 13     | 0.00         | 0      |
| Mean         | 0.19                |        | 0.12        |        | 4.97                |        | 0.51        |        | 33.82        |        | 9.58         |        | 4.05         |        | 0.73         |        |

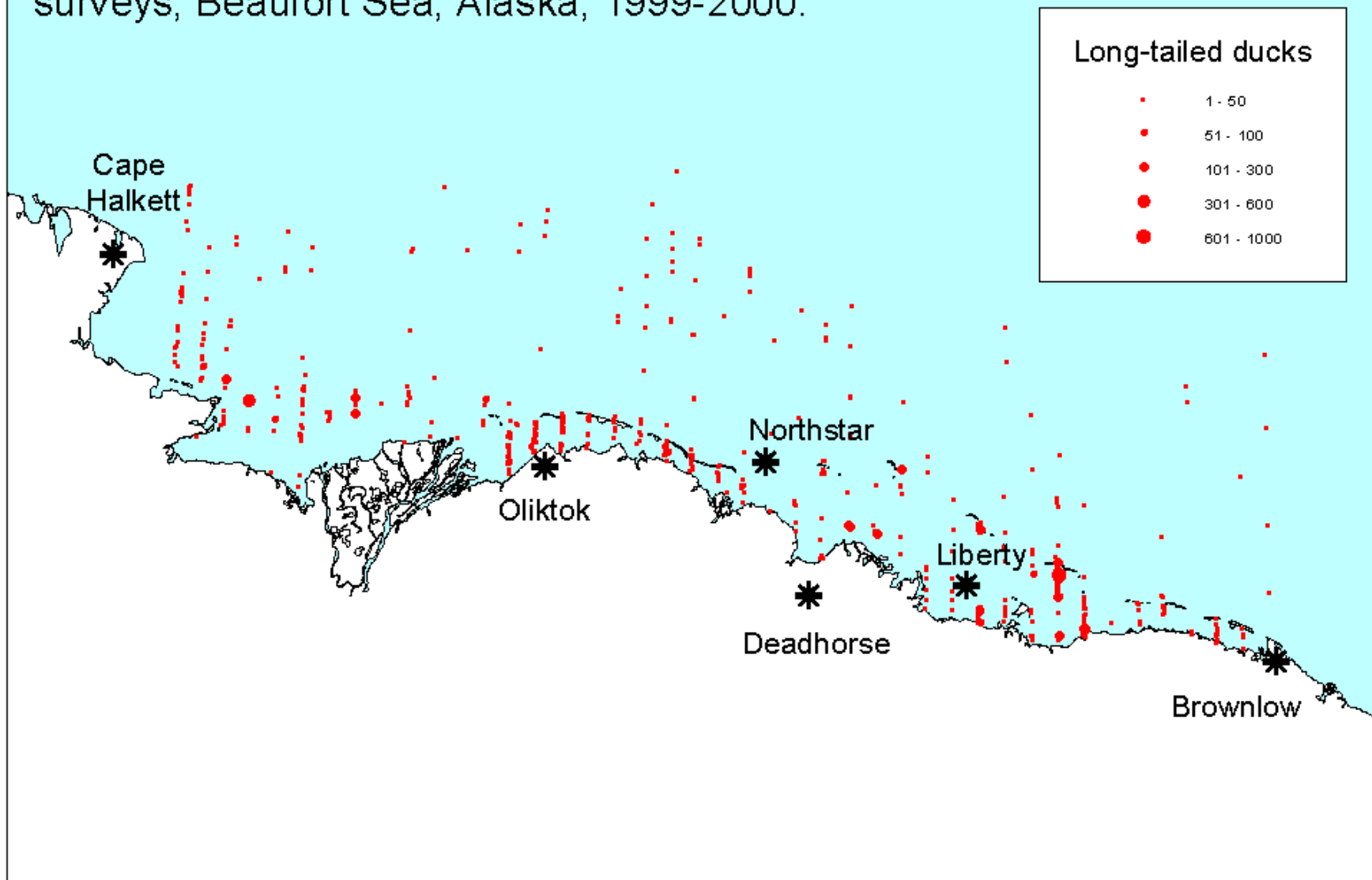
| Date         | East Mid-Lagoon |        |              |        | East Mainland Shoreline |        |              |        |              |        |              |        |              |        |              |        |
|--------------|-----------------|--------|--------------|--------|-------------------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
|              | Transect 183    |        | Transect 182 |        | Transect 181            |        | Transect 180 |        | Transect 193 |        | Transect 192 |        | Transect 191 |        | Transect 190 |        |
|              | Density         | #Indiv | Density      | #Indiv | Density                 | #Indiv | Density      | #Indiv | Density      | #Indiv | Density      | #Indiv | Density      | #Indiv | Density      | #Indiv |
| 22-Jul-1999  | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.53         | 3      | 2.56         | 20     | 1.73         | 12     | 1.76         | 9      | 0.47         | 3      |
| 30-Jul-1999  | 8.09            | 45     | 1.15         | 6      | 0.00                    | 0      | 0.35         | 2      | 0.00         | 0      | 0.00         | 0      | 1.17         | 6      | 1.56         | 10     |
| 11-Aug-1999  | 0.00            | 0      | 3.85         | 20     | 0.00                    | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      |
| 26-Aug-1999  | 1.08            | 6      | 0.00         | 0      | 2.54                    | 12     | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      | 0.16         | 1      |
| 2-3-Sep-1999 | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00         | 0      | 3.85         | 30     | 0.00         | 0      | 1.95         | 10     | 0.16         | 1      |
| 8-Sep-1999   | 0.00            | 0      | 0.19         | 1      | 2.33                    | 11     | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      |
| 21-Jul-2000  | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00         | 0      | 0.00         | 0      | 0.58         | 4      | 0.00         | 0      | 0.00         | 0      |
| 1-Aug-2000   | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00         | 0      | 0.77         | 6      | 0.58         | 4      | 0.20         | 1      | 0.00         | 0      |
| 7-Aug-2000   | 0.00            | 0      | 5.38         | 28     | 0.00                    | 0      | 0.00         | 0      | 0.00         | 0      | 6.21         | 43     | 1.76         | 9      | 2.19         | 14     |
| 15-Aug-2000* | 0.00            | 0      | 1.15         | 6      | 0.00                    | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      | 0.00         | 0      |
| 24-Aug-2000  | 0.00            | 0      | 0.00         | 0      | 0.00                    | 0      | 0.00         | 0      | 1.03         | 8      | 0.00         | 0      | 0.59         | 3      | 0.63         | 4      |
| 31-Aug-2000  | 0.00            | 0      | 3.46         | 18     | 0.00                    | 0      | 0.00         | 0      | 0.00         | 0      | 1.30         | 9      | 3.91         | 20     | 0.16         | 1      |
| Mean         | 0.76            |        | 1.27         |        | 0.41                    |        | 0.07         |        | 0.68         |        | 0.87         |        | 0.94         |        | 0.44         |        |

\*Transects 60 and 136 were truncated due to fog on 15-Aug-2000; on that day transect 60 was 5.75 km in length with 2.3 sq. km surveyed and transect 136 was 6.43 km in length with 2.57 sq. km surveyed.

Appendix 5. Numbers and densities of Long-tailed Ducks observed during 6 surveys of 43 offshore transects, Beaufort Sea, Alaska, 1999-2000.

| Transect | 1999       |         |            |         |               |         | 2000       |         |            |         |           |         |
|----------|------------|---------|------------|---------|---------------|---------|------------|---------|------------|---------|-----------|---------|
|          | 28-30 June |         | 27-31 July |         | 31 Aug-3 Sept |         | 24-27 June |         | 25-28 July |         | 25-30 Aug |         |
|          | Birds      | Density | Birds      | Density | Birds         | Density | Birds      | Density | Birds      | Density | Birds     | Density |
| 1        | 0          | 0.00    | 528        | 21.56   | 57            | 2.36    | 0          | 0.00    | 135        | 10.30   | 75        | 3.00    |
| 2        | 24         | 0.80    | 70         | 2.75    | 1357          | 54.63   | 24         | 0.93    | 363        | 25.47   | 191       | 7.43    |
| 3        | 40         | 1.51    | 0          | 0.00    | 87            | 3.44    | 58         | 2.25    | 75         | 5.16    | 0         | 0.00    |
| 4        | 0          | 0.00    | 3          | 0.13    | 22            | 0.91    | 6          | 0.24    | 3          | 0.23    | 56        | 2.29    |
| 5        | 0          | 0.00    | 174        | 7.13    | 159           | 6.75    | 2          | 0.08    | 222        | 16.14   | 31        | 1.27    |
| 6        | 1          | 0.05    | 5          | 0.24    | 5             | 0.21    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 7        | 4          | 0.25    | 0          | 0.00    | 3             | 0.11    | 2          | 0.08    | 46         | 3.53    | 3         | 0.12    |
| 8        | 1          | 0.09    | 20         | 0.90    | 2             | 0.08    | 0          | 0.00    | 0          | 0.00    | 240       | 10.37   |
| 9        | 0          | 0.00    | 314        | 15.31   | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 10       | 0          | 0.00    | 275        | 11.31   | 21            | 0.87    | 3          | 0.12    | 333        | 13.56   | 4         | 0.17    |
| 11       | 2          | 0.10    | 3          | 0.12    | 49            | 2.08    | 2          | 0.08    | 140        | 5.54    | 4         | 0.16    |
| 12       | 0          | 0.00    | 0          | 0.00    | 9             | 0.42    | 3          | 0.12    | 6          | 0.25    | 1         | 0.04    |
| 13       | 40         | 1.68    | 0          | 0.00    | 1             | 0.05    | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 14       | 7          | 0.31    | 1          | 0.04    | 5             | 0.24    | 2          | 0.08    | 35         | 2.41    | 32        | 1.35    |
| 15       | 9          | 0.38    | 20         | 0.92    | 19            | 0.96    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 16       | 4          | 0.18    | 7          | 0.44    | 15            | 0.80    | 0          | 0.00    | 11         | 0.48    | 9         | 0.38    |
| 17       | 25         | 1.08    | 156        | 10.30   | 67            | 2.65    | 1          | 0.04    | 7          | 0.29    | 2         | 0.09    |
| 18       | 0          | 0.00    | 0          | 0.00    | 43            | 1.76    | 0          | 0.00    | 2          | 0.09    | 16        | 0.76    |
| 19       | 0          | 0.00    | 5          | 0.24    | 5             | 0.21    | 0          | 0.00    | 7          | 0.30    | 36        | 3.78    |
| 20       | 0          | 0.00    | 10         | 0.47    | 16            | 0.67    | 0          | 0.00    | 5          | 0.21    | 0         | 0.00    |
| 21       | 10         | 0.47    | 0          | 0.00    | 74            | 2.98    | 0          | 0.00    | 60         | 2.41    | 13        | 0.52    |
| 22       | 0          | 0.00    | 19         | 0.76    | 44            | 1.75    | 0          | 0.00    | 8          | 0.32    | 4         | 0.16    |
| 23       | 2          | 0.08    | 109        | 4.48    | 85            | 3.52    | 0          | 0.00    | 38         | 1.49    | 40        | 1.58    |
| 24       | 0          | 0.00    | 2          | 0.08    | 1             | 0.04    | 0          | 0.00    | 0          | 0.00    | 68        | 2.56    |
| 25       | 0          | 0.00    | 0          | 0.00    | 5             | 0.20    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 26       | 0          | 0.00    | 5          | 0.21    | 0             | 0.00    | 0          | 0.00    | 3          | 0.11    | 8         | 0.28    |
| 27       | 15         | 0.58    | 0          | 0.00    | 27            | 1.14    | 9          | 0.35    | 3          | 0.12    | 43        | 1.66    |
| 28       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 2          | 0.08    | 0         | 0.00    |
| 29       | 0          | 0.00    | 110        | 4.65    | 134           | 5.80    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 30       | 0          | 0.00    | 15         | 0.61    | 27            | 1.11    | 0          | 0.00    | 0          | 0.00    | 35        | 1.35    |
| 31       | 0          | 0.00    | 6          | 0.25    | 79            | 2.95    | 11         | 0.38    | 12         | 0.43    | 47        | 1.70    |
| 32       | 0          | 0.00    | 10         | 0.42    | 86            | 3.41    | 0          | 0.00    | 3          | 0.11    | 64        | 2.47    |
| 33       | 0          | 0.00    | 1          | 0.04    | 42            | 1.72    | 0          | 0.00    | 1          | 0.04    | 462       | 17.26   |
| 34       | 0          | 0.00    | 179        | 7.37    | 48            | 1.97    | 0          | 0.00    | 14         | 0.54    | 16        | 0.62    |
| 35       | 0          | 0.00    | 155        | 6.80    | 22            | 0.85    | 1          | 0.04    | 3          | 0.12    | 0         | 0.00    |
| 36       | 0          | 0.00    | 11         | 0.50    | 106           | 4.57    | 0          | 0.00    | 16         | 0.69    | 25        | 1.07    |
| 37       | -          | -       | -          | -       | -             | -       | 8          | 0.33    | 0          | 0.00    | 0         | 0.00    |
| 38       | -          | -       | -          | -       | -             | -       | 1          | 0.04    | 82         | 5.47    | 0         | 0.00    |
| 39       | -          | -       | -          | -       | -             | -       | 1          | 0.04    | 228        | 16.68   | 0         | 0.00    |
| 40       | -          | -       | -          | -       | -             | -       | 3          | 0.13    | 7          | 0.54    | 0         | 0.00    |
| 41       | -          | -       | -          | -       | -             | -       | 1          | 0.04    | 34         | 2.74    | 89        | 3.72    |
| 42       | -          | -       | -          | -       | -             | -       | 1          | 0.04    | 10         | 0.75    | 14        | 0.60    |
| 43       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 2          | 0.15    | 0         | 0.00    |

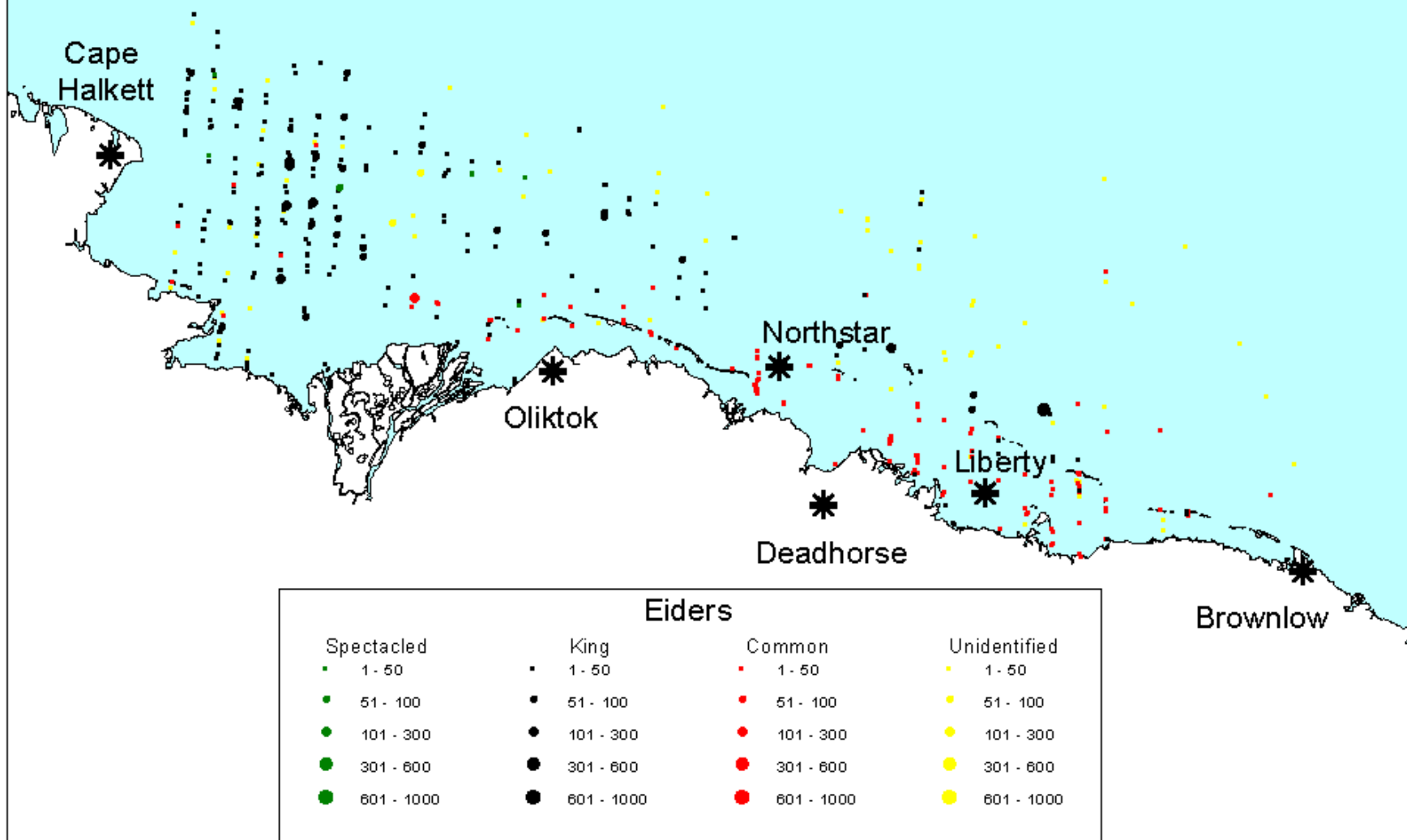
Appendix 6. Sightings of long-tailed ducks during 6 offshore aerial surveys, Beaufort Sea, Alaska, 1999-2000.



Appendix 7. Numbers and densities of King Eiders observed during 6 surveys of 43 offshore transects, Beaufort Sea, Alaska, 1999-2000.

| Transect | 1999       |         |            |         |               |         | 2000       |         |            |         |           |         |
|----------|------------|---------|------------|---------|---------------|---------|------------|---------|------------|---------|-----------|---------|
|          | 28-30 June |         | 27-31 July |         | 31 Aug-3 Sept |         | 24-27 June |         | 25-28 July |         | 25-30 Aug |         |
|          | Birds      | Density | Birds      | Density | Birds         | Density | Birds      | Density | Birds      | Density | Birds     | Density |
| 1        | 2          | 0.07    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 2        | 0          | 0.00    | 7          | 0.28    | 21            | 0.85    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 3        | 13         | 0.49    | 452        | 16.11   | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 4        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 5        | 0          | 0.00    | 8          | 0.33    | 0             | 0.00    | 4          | 0.16    | 0          | 0.00    | 0         | 0.00    |
| 6        | 10         | 0.53    | 155        | 7.56    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 7        | 1          | 0.06    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 8        | 0          | 0.00    | 3          | 0.14    | 0             | 0.00    | 2          | 0.09    | 0          | 0.00    | 3         | 0.13    |
| 9        | 0          | 0.00    | 345        | 16.82   | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 10       | 0          | 0.00    | 12         | 0.49    | 0             | 0.00    | 15         | 0.61    | 0          | 0.00    | 0         | 0.00    |
| 11       | 0          | 0.00    | 70         | 2.75    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 12       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 13       | 7          | 0.29    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 14       | 2          | 0.09    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 15       | 2          | 0.09    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 3         | 0.13    |
| 16       | 0          | 0.00    | 37         | 2.32    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 4         | 0.17    |
| 17       | 1          | 0.04    | 120        | 7.92    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 18       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 19         | 0.81    | 0         | 0.00    |
| 19       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 73         | 3.09    | 0         | 0.00    |
| 20       | 0          | 0.00    | 85         | 4.00    | 0             | 0.00    | 0          | 0.00    | 100        | 4.13    | 0         | 0.00    |
| 21       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 1          | 0.04    | 25         | 1.00    | 0         | 0.00    |
| 22       | 0          | 0.00    | 110        | 4.41    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 23       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 1          | 0.04    | 4          | 0.16    | 2         | 0.08    |
| 24       | 33         | 1.25    | 90         | 3.62    | 21            | 0.85    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 25       | 0          | 0.00    | 48         | 1.95    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 26       | 0          | 0.00    | 73         | 3.00    | 0             | 0.00    | 0          | 0.00    | 90         | 3.19    | 1         | 0.04    |
| 27       | 15         | 0.58    | 0          | 0.00    | 47            | 1.98    | 0          | 0.00    | 70         | 2.69    | 0         | 0.00    |
| 28       | 8          | 0.31    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 18         | 0.68    | 0         | 0.00    |
| 29       | 25         | 0.99    | 180        | 7.61    | 12            | 0.52    | 0          | 0.00    | 12         | 0.48    | 0         | 0.00    |
| 30       | 0          | 0.00    | 256        | 10.42   | 16            | 0.66    | 0          | 0.00    | 276        | 10.75   | 3         | 0.12    |
| 31       | 5          | 0.19    | 418        | 17.38   | 158           | 5.89    | 0          | 0.00    | 54         | 1.94    | 6         | 0.22    |
| 32       | 0          | 0.00    | 449        | 18.81   | 410           | 16.26   | 0          | 0.00    | 134        | 5.12    | 7         | 0.27    |
| 33       | 0          | 0.00    | 51         | 2.11    | 65            | 2.67    | 0          | 0.00    | 22         | 0.82    | 10        | 0.37    |
| 34       | 0          | 0.00    | 131        | 5.40    | 1             | 0.04    | 0          | 0.00    | 12         | 0.46    | 83        | 3.22    |
| 35       | 0          | 0.00    | 74         | 3.24    | 0             | 0.00    | 0          | 0.00    | 101        | 4.06    | 21        | 0.86    |
| 36       | 0          | 0.00    | 51         | 2.34    | 0             | 0.00    | 0          | 0.00    | 192        | 8.25    | 3         | 0.13    |
| 37       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 38       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 39       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 40       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 41       | -          | -       | -          | -       | -             | -       | 21         | 0.88    | 0          | 0.00    | 0         | 0.00    |
| 42       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 43       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |

## Appendix 8. Sightings of eiders during 6 offshore aerial surveys, Beaufort Sea, 1999-2000.





Appendix 9. Numbers and densities of Common Eiders observed during 6 surveys of 43 offshore transects, Beaufort Sea, Alaska, 1999-2000.

| Transect | 1999       |         |            |         |               |         | 2000       |         |            |         |           |         |
|----------|------------|---------|------------|---------|---------------|---------|------------|---------|------------|---------|-----------|---------|
|          | 28-30 June |         | 27-31 July |         | 31 Aug-3 Sept |         | 24-27 June |         | 25-28 July |         | 25-30 Aug |         |
|          | Birds      | Density | Birds      | Density | Birds         | Density | Birds      | Density | Birds      | Density | Birds     | Density |
| 1        | 3          | 0.10    | 1          | 0.04    | 44            | 1.82    | 1          | 0.04    | 0          | 0.00    | 0         | 0.00    |
| 2        | 13         | 0.43    | 35         | 1.38    | 10            | 0.40    | 45         | 1.75    | 0          | 0.00    | 0         | 0.00    |
| 3        | 15         | 0.56    | 25         | 0.89    | 4             | 0.16    | 16         | 0.62    | 0          | 0.00    | 0         | 0.00    |
| 4        | 8          | 0.34    | 0          | 0.00    | 0             | 0.00    | 2          | 0.08    | 3          | 0.23    | 0         | 0.00    |
| 5        | 0          | 0.00    | 2          | 0.08    | 0             | 0.00    | 2          | 0.08    | 0          | 0.00    | 0         | 0.00    |
| 6        | 8          | 0.42    | 5          | 0.24    | 1             | 0.04    | 0          | 0.00    | 2          | 0.15    | 0         | 0.00    |
| 7        | 2          | 0.13    | 3          | 0.13    | 0             | 0.00    | 6          | 0.25    | 0          | 0.00    | 0         | 0.00    |
| 8        | 12         | 1.10    | 2          | 0.09    | 0             | 0.00    | 6          | 0.26    | 15         | 1.43    | 0         | 0.00    |
| 9        | 4          | 0.45    | 0          | 0.00    | 0             | 0.00    | 5          | 0.19    | 0          | 0.00    | 0         | 0.00    |
| 10       | 2          | 0.35    | 0          | 0.00    | 0             | 0.00    | 25         | 1.01    | 0          | 0.00    | 0         | 0.00    |
| 11       | 0          | 0.00    | 20         | 0.79    | 3             | 0.13    | 1          | 0.04    | 0          | 0.00    | 0         | 0.00    |
| 12       | 0          | 0.00    | 0          | 0.00    | 3             | 0.14    | 0          | 0.00    | 10         | 0.42    | 0         | 0.00    |
| 13       | 5          | 0.21    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 14       | 21         | 0.92    | 13         | 0.57    | 2             | 0.10    | 59         | 2.49    | 0          | 0.00    | 0         | 0.00    |
| 15       | 3          | 0.13    | 0          | 0.00    | 0             | 0.00    | 1          | 0.04    | 0          | 0.00    | 0         | 0.00    |
| 16       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 17       | 0          | 0.00    | 1          | 0.07    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 18       | 0          | 0.00    | 9          | 1.11    | 3             | 0.12    | 0          | 0.00    | 1          | 0.04    | 0         | 0.00    |
| 19       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 88         | 3.73    | 0         | 0.00    |
| 20       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 21       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 2          | 0.08    | 1         | 0.04    |
| 22       | 0          | 0.00    | 8          | 0.32    | 0             | 0.00    | 0          | 0.00    | 2          | 0.08    | 0         | 0.00    |
| 23       | 4          | 0.16    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 24       | 17         | 0.64    | 0          | 0.00    | 2             | 0.08    | 12         | 0.45    | 0          | 0.00    | 0         | 0.00    |
| 25       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 26       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 14         | 0.50    | 0          | 0.00    | 0         | 0.00    |
| 27       | 2          | 0.08    | 0          | 0.00    | 0             | 0.00    | 220        | 8.52    | 0          | 0.00    | 0         | 0.00    |
| 28       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 29       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 30       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 31       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 2          | 0.07    | 0         | 0.00    |
| 32       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 2          | 0.08    | 0         | 0.00    |
| 33       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 34       | 1          | 0.04    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 3          | 0.12    | 0         | 0.00    |
| 35       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 36       | 0          | 0.00    | 3          | 0.14    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 37       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 38       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 39       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 40       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 41       | -          | -       | -          | -       | -             | -       | 19         | 0.80    | 0          | 0.00    | 1         | 0.04    |
| 42       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 42         | 3.14    | 0         | 0.00    |
| 43       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |

Appendix 10. Numbers and densities of Spectacled Eiders observed during 6 surveys of 43 offshore transects, Beaufort Sea, Alaska, 1999-2000.

| Transect | 1999       |         |            |         |               |         | 2000       |         |            |         |           |         |
|----------|------------|---------|------------|---------|---------------|---------|------------|---------|------------|---------|-----------|---------|
|          | 28-30 June |         | 27-31 July |         | 31 Aug-3 Sept |         | 24-27 June |         | 25-28 July |         | 25-30 Aug |         |
|          | Birds      | Density | Birds      | Density | Birds         | Density | Birds      | Density | Birds      | Density | Birds     | Density |
| 1        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 2        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 3        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 4        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 5        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 6        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 7        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 8        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 9        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 10       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 11       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 12       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 13       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 14       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 15       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 16       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 17       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 18       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 19       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 20       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 21       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 22       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 23       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 4          | 0.16    | 0         | 0.00    |
| 24       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 25       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 40         | 1.66    | 0         | 0.00    |
| 26       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 27       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 28       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 29       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 30       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 100        | 3.89    | 0         | 0.00    |
| 31       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 32       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 33       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 34       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 35       | 0          | 0.00    | 0          | 0.00    | 4             | 0.15    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 36       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 37       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 38       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 39       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 40       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 41       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 42       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 43       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |

Appendix 11. Numbers and densities of unidentified eiders observed during 6 surveys of 43 offshore transects, Beaufort Sea, Alaska, 1999-2000.

| Transect | 1999       |         |            |         |               |         | 2000       |         |            |         |           |         |
|----------|------------|---------|------------|---------|---------------|---------|------------|---------|------------|---------|-----------|---------|
|          | 28-30 June |         | 27-31 July |         | 31 Aug-3 Sept |         | 24-27 June |         | 25-28 July |         | 25-30 Aug |         |
|          | Birds      | Density | Birds      | Density | Birds         | Density | Birds      | Density | Birds      | Density | Birds     | Density |
| 1        | 1          | 0.03    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 3         | 0.12    |
| 2        | 5          | 0.17    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 2         | 0.08    |
| 3        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 3         | 0.12    |
| 4        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 3         | 0.12    |
| 5        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 6        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 7         | 0.30    |
| 7        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 4         | 0.17    |
| 8        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 7         | 0.30    |
| 9        | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 5         | 0.19    |
| 10       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 7         | 0.29    |
| 11       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 1          | 0.04    | 4         | 0.16    |
| 12       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 13       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 14       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 15       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 16       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 2         | 0.08    |
| 17       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 18       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 2          | 0.09    | 3         | 0.14    |
| 19       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 20       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 1         | 0.07    |
| 21       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 22       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 39        | 1.53    |
| 23       | 0          | 0.00    | 0          | 0.00    | 6             | 0.25    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 24       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 25        | 0.94    |
| 25       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 26       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 2         | 0.07    |
| 27       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 60         | 2.30    | 3         | 0.12    |
| 28       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 80         | 3.00    | 0         | 0.00    |
| 29       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 30       | 0          | 0.00    | 0          | 0.00    | 15            | 0.62    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 31       | 0          | 0.00    | 0          | 0.00    | 1             | 0.04    | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 32       | 0          | 0.00    | 0          | 0.00    | 3             | 0.12    | 0          | 0.00    | 0          | 0.00    | 2         | 0.08    |
| 33       | 0          | 0.00    | 0          | 0.00    | 2             | 0.08    | 0          | 0.00    | 0          | 0.00    | 4         | 0.15    |
| 34       | 0          | 0.00    | 0          | 0.00    | 0             | 0.00    | 0          | 0.00    | 1          | 0.04    | 14        | 0.54    |
| 35       | 0          | 0.00    | 0          | 0.00    | 1             | 0.04    | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 36       | 0          | 0.00    | 0          | 0.00    | 1             | 0.04    | 0          | 0.00    | 0          | 0.00    | 2         | 0.09    |
| 37       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 1         | 0.11    |
| 38       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 39       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 40       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 0         | 0.00    |
| 41       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |
| 42       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 5         | 0.21    |
| 43       | -          | -       | -          | -       | -             | -       | 0          | 0.00    | 0          | 0.00    | 1         | 0.04    |

Appendix 12. Length (km) and area surveyed (sq. km) for 6 surveys of 43 transects, Beaufort Sea, Alaska, 1999-2000.

| Transect | 1999       |       |            |       |               |       | 2000       |        |            |       |           |        |
|----------|------------|-------|------------|-------|---------------|-------|------------|--------|------------|-------|-----------|--------|
|          | 28-30 June |       | 27-31 July |       | 31 Aug-3 Sept |       | 24-27 June |        | 25-28 July |       | 25-30 Aug |        |
|          | Length     | Area  | Length     | Area  | Length        | Area  | Length     | Area   | Length     | Area  | Length    | Area   |
| 1        | 74.4       | 29.8  | 61.2       | 24.5  | 60.3          | 24.1  | 63.5       | 25.4   | 32.8       | 13.1  | 62.4      | 25.0   |
| 2        | 75.0       | 30.0  | 63.6       | 25.4  | 62.1          | 24.8  | 64.3       | 25.7   | 35.6       | 14.3  | 64.2      | 25.7   |
| 3        | 66.4       | 26.6  | 70.1       | 28.1  | 63.2          | 25.3  | 64.5       | 25.8   | 36.3       | 14.5  | 64.9      | 26.0   |
| 4        | 59.0       | 23.6  | 56.3       | 22.5  | 60.3          | 24.1  | 63.4       | 25.4   | 32.2       | 12.9  | 61.1      | 24.5   |
| 5        | 44.4       | 17.7  | 61.0       | 24.4  | 58.9          | 23.6  | 61.1       | 24.4   | 34.4       | 13.8  | 61.0      | 24.4   |
| 6        | 47.3       | 18.9  | 51.3       | 20.5  | 59.1          | 23.6  | 60.0       | 24.0   | 33.8       | 13.5  | 59.1      | 23.6   |
| 7        | 39.5       | 15.8  | 57.8       | 23.1  | 68.8          | 27.5  | 60.4       | 24.2   | 32.6       | 13.0  | 60.0      | 24.0   |
| 8        | 27.2       | 10.9  | 55.3       | 22.1  | 62.6          | 25.0  | 58.1       | 23.2   | 26.2       | 10.5  | 57.8      | 23.1   |
| 9        | 22.3       | 8.9   | 51.3       | 20.5  | 62.6          | 25.0  | 64.5       | 25.8   | 65.0       | 26.0  | 64.3      | 25.7   |
| 10       | 14.5       | 5.8   | 60.8       | 24.3  | 60.5          | 24.2  | 61.9       | 24.8   | 61.4       | 24.6  | 60.5      | 24.2   |
| 11       | 52.0       | 20.8  | 63.6       | 25.4  | 58.8          | 23.5  | 62.9       | 25.1   | 63.2       | 25.3  | 63.1      | 25.3   |
| 12       | 48.2       | 19.3  | 37.8       | 15.1  | 54.0          | 21.6  | 60.6       | 24.2   | 59.2       | 23.7  | 63.4      | 25.4   |
| 13       | 59.6       | 23.9  | 29.3       | 11.7  | 52.7          | 21.1  | 59.2       | 23.7   | 30.7       | 12.3  | 59.4      | 23.8   |
| 14       | 57.0       | 22.8  | 57.2       | 22.9  | 51.4          | 20.5  | 59.3       | 23.7   | 36.3       | 14.5  | 59.3      | 23.7   |
| 15       | 58.5       | 23.4  | 54.3       | 21.7  | 49.4          | 19.8  | 60.3       | 24.1   | 51.6       | 20.7  | 59.5      | 23.8   |
| 16       | 55.5       | 22.2  | 39.9       | 16.0  | 47.2          | 18.9  | 59.6       | 23.8   | 56.9       | 22.8  | 59.1      | 23.7   |
| 17       | 58.0       | 23.2  | 37.9       | 15.1  | 63.1          | 25.2  | 59.2       | 23.7   | 59.4       | 23.8  | 58.0      | 23.2   |
| 18       | 57.0       | 22.8  | 20.2       | 8.1   | 61.2          | 24.5  | 58.5       | 23.4   | 58.5       | 23.4  | 52.4      | 21.0   |
| 19       | 58.9       | 23.6  | 52.0       | 20.8  | 59.7          | 23.9  | 58.8       | 23.5   | 59.1       | 23.6  | 23.8      | 9.5    |
| 20       | 60.3       | 24.1  | 53.2       | 21.3  | 59.9          | 24.0  | 60.7       | 24.3   | 60.6       | 24.2  | 34.6      | 13.8   |
| 21       | 53.7       | 21.5  | 62.0       | 24.8  | 62.1          | 24.9  | 62.4       | 24.9   | 62.3       | 24.9  | 62.7      | 25.1   |
| 22       | 54.7       | 21.9  | 62.3       | 24.9  | 62.8          | 25.1  | 62.6       | 25.1   | 62.9       | 25.1  | 63.7      | 25.5   |
| 23       | 63.1       | 25.2  | 60.8       | 24.3  | 60.4          | 24.2  | 63.2       | 25.3   | 63.6       | 25.4  | 63.4      | 25.3   |
| 24       | 66.0       | 26.4  | 62.2       | 24.9  | 61.7          | 24.7  | 66.1       | 26.4   | 66.0       | 26.4  | 66.3      | 26.5   |
| 25       | 75.8       | 30.3  | 61.7       | 24.7  | 62.7          | 25.1  | 59.8       | 23.9   | 60.2       | 24.1  | 60.1      | 24.0   |
| 26       | 70.6       | 28.2  | 60.8       | 24.3  | 60.9          | 24.4  | 70.3       | 28.1   | 70.5       | 28.2  | 70.2      | 28.1   |
| 27       | 64.3       | 25.7  | 46.2       | 18.5  | 59.3          | 23.7  | 64.6       | 25.8   | 65.2       | 26.1  | 64.6      | 25.8   |
| 28       | 65.5       | 26.2  | 48.8       | 19.5  | 62.2          | 24.9  | 66.2       | 26.5   | 66.6       | 26.6  | 66.2      | 26.5   |
| 29       | 63.1       | 25.2  | 59.1       | 23.7  | 57.7          | 23.1  | 62.1       | 24.8   | 63.0       | 25.2  | 62.7      | 25.1   |
| 30       | 64.5       | 25.8  | 61.4       | 24.6  | 60.8          | 24.3  | 65.0       | 26.0   | 64.2       | 25.7  | 64.7      | 25.9   |
| 31       | 65.2       | 26.1  | 60.1       | 24.1  | 67.0          | 26.8  | 71.7       | 28.7   | 69.6       | 27.8  | 69.0      | 27.6   |
| 32       | 65.1       | 26.0  | 59.7       | 23.9  | 63.0          | 25.2  | 64.8       | 25.9   | 65.4       | 26.2  | 64.8      | 25.9   |
| 33       | 67.2       | 26.9  | 60.5       | 24.2  | 61.0          | 24.4  | 66.0       | 26.4   | 67.0       | 26.8  | 66.9      | 26.8   |
| 34       | 64.5       | 25.8  | 60.7       | 24.3  | 61.0          | 24.4  | 64.5       | 25.8   | 64.5       | 25.8  | 64.4      | 25.8   |
| 35       | 68.6       | 27.4  | 57.0       | 22.8  | 65.1          | 26.0  | 62.2       | 24.9   | 62.3       | 24.9  | 61.3      | 24.5   |
| 36       | 54.8       | 21.9  | 54.5       | 21.8  | 57.9          | 23.2  | 58.6       | 23.4   | 58.2       | 23.3  | 58.2      | 23.3   |
| 37       | -          | -     | -          | -     | -             | -     | 59.7       | 23.9   | 30.1       | 12.0  | 21.9      | 8.8    |
| 38       | -          | -     | -          | -     | -             | -     | 58.3       | 23.3   | 37.5       | 15.0  | 58.0      | 23.2   |
| 39       | -          | -     | -          | -     | -             | -     | 59.5       | 23.8   | 34.2       | 13.7  | 60.0      | 24.0   |
| 40       | -          | -     | -          | -     | -             | -     | 58.9       | 23.6   | 32.2       | 12.9  | 59.3      | 23.7   |
| 41       | -          | -     | -          | -     | -             | -     | 59.6       | 23.8   | 31.0       | 12.4  | 59.9      | 24.0   |
| 42       | -          | -     | -          | -     | -             | -     | 57.2       | 22.9   | 33.4       | 13.4  | 58.1      | 23.3   |
| 43       | -          | -     | -          | -     | -             | -     | 59.4       | 23.8   | 32.6       | 13.0  | 59.1      | 23.7   |
| Sum      | 2061.9     | 824.8 | 1972.0     | 788.8 | 2161.6        | 864.6 | 2663.4     | 1065.4 | 2188.2     | 875.3 | 2553.6    | 1021.5 |