

## **Appendix I**

### **Summary of Survey Flights**

Primary observer codes are:

MAB= Michael A Bigg (Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C. V9R 5K6)

PFO= Peter F. Olesiuk (Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C. V9R 5K6)

GME= Graeme M. Ellis (Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C. V9R 5K6)

DXB= Doug Burles (Canada Parks Service, Gwaii Haanas National Park Reserve, Queen Charlotte City, British Columbia, V0T 1S0)

Summary of survey flights (page 1 of 4 pages).

| Survey Number | Survey Date: | Platform:             | Primary Observer | Description of survey:                            | Conditions during survey:                |
|---------------|--------------|-----------------------|------------------|---|--|
| 31            | 19-Jul-66    | Aircraft              | MAB              | Aerial census: BBAY / FRASERR                     | Not recorded                             |
| 32            | 27-Jul-66    | Aircraft              | MAB              | Aerial census: BBAY / FRASERR                     | Not recorded                             |
| 33            | 28-Jul-66    | Aircraft              | MAB              | Aerial census: BBAY / FRASERR                     | Not recorded                             |
| 28            | 13-Aug-66    | Aircraft              | MAB              | Aerial census: SGULF / GULFISL                    | Not recorded                             |
| 29            | 14-Aug-66    | Aircraft              | MAB              | Aerial census: GULFISL                            | Scattered clouds, 10 knot wind           |
| 34            | 29-Aug-66    | Aircraft              | MAB              | Aerial census: BBAY / FRASERR                     | Not recorded                             |
| 23            | 11-Jun-73    | Aircraft on wheels    | MAB              | Aerial census: HOWESD                             | Overcast, calm                           |
| 24            | 13-Jun-73    | Aircraft on wheels    | MAB              | Aerial census: SGULF                              | Patchy cloud, calm                       |
| 26            | 14-Jun-73    | Aircraft on wheels    | MAB              | Aerial census: GULFISL / FRASERR / BBAY           | Overcast, calm, scattered rain           |
| 25            | 15-Jun-73    | Aircraft on wheels    | MAB              | Aerial census: GULFISL                            | Overcast, calm                           |
| 19            | 14-Aug-74    | Cessna 180 on wheels  | MAB              | Aerial census: SGULF                              | Slight overcast, calm                    |
| 20            | 15-Aug-74    | Cessna 180 on wheels  | MAB              | Aerial census: GULFISL                            | Slight overcast, calm                    |
| 21            | 16-Aug-74    | Cessna 180 on wheels  | MAB              | Aerial census: NWGULF / BBAY / FRASERR            | Not recorded                             |
| 22            | 19-Aug-74    | Cessna 180 on wheels  | MAB              | Aerial census: NWGULF / NEGULF / HOWESD / FRASERR | Low ceiling, scattered drizzle           |
| 12            | 10-Aug-76    | Cessna 180 on wheels  | MAB              | Aerial census: NWGULF                             | Not recorded                             |
| 13            | 11-Aug-76    | Cessna 180 on wheels  | MAB              | Aerial census: NEGULF                             | Not recorded                             |
| 18            | 12-Aug-76    | Cessna 180 on wheels  | MAB              | Aerial census: SGULF / SWWANISL                   | High overcast, calm                      |
| 14            | 22-Aug-76    | Cessna 180 on wheels  | MAB              | Aerial census: BBAY / FRASERR                     | Overcast, cool, light wind               |
| 15            | 23-Aug-76    | Cessna 180 on wheels  | MAB              | Aerial census: NEGULF                             | Overcast, light wind                     |
| 16            | 24-Aug-76    | Cessna 180 on wheels  | MAB              | Aerial census: NEGULF                             | Overcast, no wind                        |
| 17            | 25-Aug-76    | Cessna 180 floatplane | MAB              | Aerial census: BARKLYSD / SWWANISL                | 400' ceiling, calm                       |
| 10            | 15-Jun-77    | Cessna 185 floatplane | MAB              | Aerial census: Lower Skeena River                 | Not recorded                             |
| 11            | 16-Jun-77    | Cessna 185 floatplane | MAB              | Aerial census: Lower Skeena River                 | Not recorded                             |
| 5             | 16-Aug-82    | Cessna 172 on wheels  | MAB              | Aerial census: SGULF / GULFISL                    | High overcast, calm                      |
| 6             | 17-Aug-82    | Cessna 172 on wheels  | MAB              | Aerial census: BBAY / FRASERR / HOWESD            | Clear, calm                              |
| 7             | 18-Aug-82    | Cessna 172 on wheels  | MAB              | Aerial census: GULFISL                            | Not recorded                             |
| 8             | 13-Jun-83    | Cessna 185 floatplane | PFO              | Aerial census: Lower Skeena River                 | Overcast, calm                           |
| 9             | 14-Jun-83    | Cessna 185 floatplane | PFO              | Aerial census: Lower Skeena River                 | Overcast, calm                           |
| 2             | 17-Aug-83    | Aircraft              | MAB              | Aerial census: NWGULF / NEGULF                    | Clear, wind NW 20 knots                  |
| 3             | 18-Aug-83    | Aircraft              | MAB              | Aerial census: NEGULF                             | Clear, wind NW 15 knots                  |
| 4             | 19-Aug-83    | Aircraft              | MAB              | Aerial census: NEGULF / BBAY                      | Clear, water rippled                     |
| 39            | 08-Aug-84    | Cessna 172 on wheels  | MAB              | Aerial census: BBAY / FRASERR                     | Overcast, calm                           |
| 40            | 23-Aug-84    | Cessna 172 on wheels  | PFO              | Aerial census: BBAY / FRASERR / HOWESD            | 2/3 cloud cover, rippled                 |
| 38            | 12-Aug-85    | Cessna 172 on wheels  | MAB              | Aerial census: BBAY / FRASERR                     | High overcast, 10-15 knots               |
| 37            | 14-Aug-85    | Cessna 172 on wheels  | MAB              | Aerial census: NWGULF                             | High overcast, 10-15 knot NWer           |
| 35            | 27-Aug-85    | Cessna 172 on wheels  | MAB              | Aerial census: BBAY / FRASERR / HOWESD            | Not recorded                             |
| 56            | 22-Jul-86    | DHC Beaver floatplane | PFO              | Aerial census: SEQCI                              | Not recorded                             |
| 57            | 23-Jul-86    | DHC Beaver floatplane | PFO              | Aerial census: NEQCI / MASSET                     | Sea rippled                              |
| 58            | 24-Jul-86    | DHC Beaver floatplane | PFO              | Aerial census: SEQCI                              | Overcast, scattered drizzle, sea rippled |

Summary of survey flights (page 2 of 4 pages).

| Survey Number | Survey Date: | Platform:             | Primary Observer | Description of survey:                 | Conditions during survey:                     |
|---------------|--------------|-----------------------|------------------|--|---|
| 44            | 16-Aug-86    | Cessna 172 on wheels  | MAB              | Aerial census: SGULF                   | Clear   |
| 46            | 17-Aug-86    | Cessna 172 on wheels  | MAB              | Aerial census: HOWESD / FRASERR / BBAY | High light overcast, light wind               |
| 47            | 18-Aug-86    | Cessna 172 on wheels  | MAB              | Aerial census: BBAY / FRASERR / HOWESD | Scattered high overcast, calm                 |
| 48            | 19-Aug-86    | Cessna 172 on wheels  | MAB              | Aerial census: GULFISL                 | Clear, light chop on water                    |
| 45            | 20-Aug-86    | Cessna 172 on wheels  | MAB              | Aerial census: SGULF                   | Not recorded                                  |
| 52            | 14-Jun-87    | Cessna 180 floatplane | PFO              | Aerial census: Lower Skeena River      | Heavy overcast, scattered showers             |
| 53            | 15-Jun-87    | Cessna 180 floatplane | PFO              | Aerial census: Lower Skeena River      | 7/10 cloud, scattered showers                 |
| 51            | 11-Aug-87    | Cessna 172 on wheels  | MAB              | Aerial census: HOWESD / FRASERR / BBAY | High overcast, calm                           |
| 49            | 21-Aug-87    | Cessna 172 on wheels  | MAB              | Aerial census: NEGULF                  | Not recorded                                  |
| 50            | 22-Aug-87    | Cessna 172 on wheels  | MAB              | Aerial census: NEGULF                  | Clear, 10 knot NEer                           |
| 54            | 28-Aug-87    | Cessna 172 on wheels  | PFO              | Aerial census: BARKLYSD                | Not recorded                                  |
| 55            | 29-Aug-87    | Cessna 172 on wheels  | PFO              | Aerial census: SWVANISL                | Not recorded                                  |
| 94            | 20-Sep-87    | Cessna 172 floatplane | PFO              | Aerial census: NEGULF / Jervis Inlet   | Not recorded                                  |
| 59            | 30-May-88    | Cessna 172 on wheels  | MAB              | Aerial census: BBAY / FRASERR / HOWESD | High overcast, calm                           |
| 60            | 31-May-88    | Cessna 172 on wheels  | PFO              | Aerial census: SGULF                   | Not recorded                                  |
| 61            | 01-Jun-88    | Cessna 172 on wheels  | PFO              | Aerial census: GULFISL                 | Low cloud, scattered (sometime heavy) showers |
| 62            | 13-Jun-88    | Cessna 172 on wheels  | PFO              | Aerial census: NEGULF / NWGULF         | Not recorded                                  |
| 63            | 14-Jun-88    | Cessna 172 on wheels  | PFO              | Aerial census: NEGULF / NWGULF         | Not recorded                                  |
| 64            | 15-Jun-88    | Cessna 172 on wheels  | PFO              | Aerial census: GULFISL                 | Not recorded                                  |
| 65            | 16-Jun-88    | Cessna 172 on wheels  | PFO              | Aerial census: GULFISL / NWGULF        | Not recorded                                  |
| 66            | 09-Aug-88    | Cessna 172 on wheels  | PFO              | Aerial census: NEGULF                  | Scattered cloud, light wind                   |
| 67            | 10-Aug-88    | Cessna 172 on wheels  | PFO              | Aerial census: NEGULF / NWGULF         | Mainly clear, NW 15-25 knot wind              |
| 68            | 11-Aug-88    | Cessna 172 on wheels  | PFO              | Aerial census: NWGULF                  | Clear, NW 15 knot wind                        |
| 69            | 12-Aug-88    | Cessna 172 on wheels  | PFO              | Aerial census: SGULF                   | Clear, W 20 knot wind                         |
| 70            | 24-Aug-88    | Cessna 172 on wheels  | PFO              | Aerial census: GULFISL / NWGULF        | Clear, NW 5-10 knot wind                      |
| 71            | 25-Aug-88    | Cessna 172 on wheels  | PFO              | Aerial census: BBAY / FRASERR / HOWESD | Scattered cloud, SE 5-10 knot wind            |
| 72            | 26-Aug-88    | Cessna 172 on wheels  | PFO              | Aerial census: GULFISL                 | Not recorded                                  |
| 76            | 29-Aug-88    | Cessna 185 floatplane | PFO              | Aerial census: Queen Charlotte Strait  | Not recorded                                  |
| 73            | 21-Sep-88    | Cessna 172 on wheels  | PFO              | Aerial census: NEGULF                  | Not recorded                                  |
| 74            | 22-Sep-88    | Cessna 172 on wheels  | PFO              | Aerial census: BBAY / FRASERR / HOWESD | Foggy, calm                                   |
| 75            | 24-Sep-88    | Cessna 172 on wheels  | PFO              | Aerial census: SGULF / BBAY / FRASERR  | Not recorded                                  |
| 123           | 21-Jul-89    | Cessna 185 floatplane | GME              | Aerial census: Queen Charlotte Strait  | Not recorded                                  |
| 124           | 23-Jul-89    | Cessna 185 floatplane | GME              | Aerial census: Queen Charlotte Strait  | Not recorded                                  |
| 79            | 03-Aug-90    | Cessna 185 floatplane | PFO              | Aerial census: HOWESD / NEGULF         | Not recorded                                  |
| 80            | 04-Aug-90    | Cessna 185 floatplane | PFO              | Aerial census: BBAY / FRASERR          | Not recorded                                  |
| 81            | 05-Aug-90    | Cessna 185 floatplane | PFO              | Aerial census: GULFISL                 | Not recorded                                  |
| 82            | 06-Aug-90    | Cessna 185 floatplane | PFO              | Aerial census: SGULF / GULFISL         | Not recorded                                  |
| 83            | 07-Aug-90    | Cessna 185 floatplane | PFO              | Aerial census: SGULF                   | Not recorded                                  |
| 84            | 17-Aug-90    | Cessna 185 floatplane | PFO              | Aerial census: NWGULF                  | Mainly overcast, very scattered showers, calm |

Summary of survey flights (page 3 of 4 pages).

| Survey Number | Survey Date | Platform              | Primary Observer | Description of survey                  | Conditions during survey                        |
|---------------|-------------|-----------------------|------------------|--|---|
| 85            | 18-Aug-90   | Cessna 185 floatplane | PFO              | Aerial census: NEGULF                  | Overcast, scattered fog patches, sea rippled    |
| 86            | 20-Aug-90   | Cessna 185 floatplane | PFO              | Aerial census: NEGULF                  | Not recorded                                    |
| 99            | 01-Jul-92   | DHC Beaver floatplane | PFO              | Aerial census: NWQCI                   | Not recorded                                    |
| 100           | 03-Jul-92   | DHC Beaver floatplane | PFO              | Aerial census: SEQCI                   | Not recorded                                    |
| 101           | 04-Jul-92   | DHC Beaver floatplane | PFO              | Aerial census: SEQCI                   | Not recorded                                    |
| 154           | 30-Jul-92   | Cessna 185 floatplane | DXB              | Aerial census: SEQCI                   | Not recorded                                    |
| 155           | 01-Aug-92   | Cessna 185 floatplane | DXB              | Aerial census: SEQCI                   | Not recorded                                    |
| 87            | 24-Aug-92   | DHC Beaver floatplane | PFO              | Aerial census: BBAY / FRASERR / HOWESD | Not recorded                                    |
| 88            | 25-Aug-92   | DHC Beaver floatplane | PFO              | Aerial census: HOWESD / NEGULF         | Clear, water rippled                            |
| 89            | 26-Aug-92   | DHC Beaver floatplane | PFO              | Aerial census: NEGULF                  | Clear, water rippled                            |
| 90            | 27-Aug-92   | DHC Beaver floatplane | PFO              | Aerial census: NEGULF / NWGULF         | 8/10 cloud cover, wind 10-15 kts                |
| 91            | 28-Aug-92   | DHC Beaver floatplane | PFO              | Aerial census: NWGULF / GULFISL        | Clear, wind 5-10 kts                            |
| 92            | 08-Sep-92   | DHC Beaver floatplane | PFO              | Aerial census: GULFISL                 | 2/10 cloud cover, wind 5-10 kts                 |
| 93            | 09-Sep-92   | DHC Beaver floatplane | PFO              | Aerial census: GULFISL                 | Not recorded                                    |
| 78            | 04-Jul-93   | DHC Beaver floatplane | PFO              | Aerial census: Lower Skeena River      | Low ceiling, scattered showers, calm            |
| 114           | 19-Aug-93   | DHC Beaver floatplane | PFO              | Aerial census: NWWANISL                | Not recorded                                    |
| 115           | 20-Aug-93   | DHC Beaver floatplane | PFO              | Aerial census: NWWANISL                | Not recorded                                    |
| 102           | 11-Jul-94   | Cessna 185 floatplane | PFO              | Aerial census: SEQCI                   | Not recorded                                    |
| 103           | 12-Jul-94   | Cessna 185 floatplane | PFO              | Aerial census: SEQCI / SWQCI           | Not recorded                                    |
| 104           | 13-Jul-94   | Cessna 185 floatplane | PFO              | Aerial census: SWQCI                   | Not recorded                                    |
| 116           | 26-Jul-94   | DHC Beaver floatplane | PFO              | Aerial census: NWWANSIL                | Not recorded                                    |
| 117           | 29-Jul-94   | DHC Beaver floatplane | PFO              | Aerial census: NWWANISL                | Not recorded                                    |
| 126           | 04-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: BBAY / FRASERR / HOWESD | Not recorded                                    |
| 127           | 05-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: NEGULF                  | Not recorded                                    |
| 128           | 06-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: NEGULF                  | Not recorded                                    |
| 129           | 07-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: NEGULF / NWGULF         | Not recorded                                    |
| 130           | 17-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: NWGULF                  | 1/10 cloud; wind NW at 5-10 knots               |
| 131           | 18-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: GULFISL                 | Clear; wind NW at 5 knots                       |
| 132           | 19-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: GULFISL                 | 2/10 high cloud; wind < 5 knots                 |
| 133           | 20-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: GULFISL / SGULF         | 7/10 high overcast; wind SE at 5 knots          |
| 134           | 21-Aug-94   | DHC Beaver floatplane | PFO              | Aerial census: SGULF                   | 8/10 high overcast; wind SE at 10 knots         |
| 118           | 13-Aug-95   | DHC Beaver floatplane | PFO              | Aerial census: NWWANISL                | Not recorded                                    |
| 119           | 15-Aug-95   | DHC Beaver floatplane | PFO              | Aerial census: NWWANISL                | 2/10 Cloud cover; NW 10 kts                     |
| 135           | 27-Jul-96   | DHC Beaver floatplane | PFO              | Aerial census: BBAY / FRASERR / HOWESD | 0/10 cloud; wind NW at 15 knots                 |
| 136           | 28-Jul-96   | DHC Beaver floatplane | PFO              | Aerial census: GULFISL                 | 0/10 cloud; wind NE at 12 knots                 |
| 137           | 29-Jul-96   | DHC Beaver floatplane | PFO              | Aerial census: GULFISL                 | 0/10 cloud; wind NE at 12 knots                 |
| 138           | 30-Jul-96   | DHC Beaver floatplane | PFO              | Aerial census: GULFISL                 | 0/10 cloud; wind NE at 10 knots                 |
| 139           | 31-Jul-96   | DHC Beaver floatplane | PFO              | Aerial census: SGULF                   | 2/10 cloud; wind NW at 10 knots                 |
| 121           | 02-Aug-96   | DHC Beaver floatplane | PFO              | Aerial census: Broughton Archipelago   | 10/10 Cloud cover at 2000 ft; scattered drizzle |

Summary of survey flights (page 4 of 4 pages).

| Survey Number | Survey Date: | Platform:             | Primary Observer | Description of survey:                 | Conditions during survey:                          |
|---------------|--------------|-----------------------|------------------|--|--|
| 120           | 03-Aug-96    | DHC Beaver floatplane | PFO              | Aerial census: NWWANISL                | 10/10 Cloud cover at 5000 ft; calm                 |
| 122           | 04-Aug-96    | DHC Beaver floatplane | PFO              | Aerial census: Broughton Archipelago   | 10/10 Cloud cover 700 ft; scattered fog; NW 10 kts |
| 140           | 10-Aug-96    | DHC Beaver floatplane | PFO              | Aerial census: HOWESD / NEGULF         | 3/10 cloud; wind NW at 15 knots (25 kt in Howe Sd) |
| 141           | 11-Aug-96    | DHC Beaver floatplane | PFO              | Aerial census: NEGULF / NWWGULF        | 1/10 high cloud; wind SE at 5-10 knots             |
| 142           | 12-Aug-96    | DHC Beaver floatplane | PFO              | Aerial census: NEGULF / NWWGULF        | 5/10 scattered @ 1000 feet; wind NW at 10 knots    |
| 143           | 13-Aug-96    | DHC Beaver floatplane | PFO              | Aerial census: NWWGULF                 | 0/10 cloud; wind NW at 10-15 knots                 |
| 152           | 11-Jul-98    | DHC Beaver floatplane | PFO              | Aerial census: Lower Skeena River      | 10/10 low overcast; wind less than 10 knots        |
| 153           | 12-Jul-98    | DHC Beaver floatplane | PFO              | Aerial census: Lower Skeena River      | 10/10 high overcast; calm                          |
| 144           | 05-Aug-98    | Cessna 180 floatplane | PFO              | Aerial census: BBAY / FRASERR / HOWESD | clear; wind NW at 20 knots                         |
| 145           | 06-Aug-98    | Cessna 180 floatplane | PFO              | Aerial census: NEGULF                  | 2/10 cloud; wind NW at 15-20 knots                 |
| 146           | 07-Aug-98    | Cessna 180 floatplane | PFO              | Aerial census: NEGULF                  | Not recorded                                       |
| 147           | 08-Aug-98    | Cessna 180 floatplane | PFO              | Aerial census: NEGULF / NWWGULF        | 3/10 cloud; wind NW at 10-15 knots                 |
| 148           | 09-Aug-98    | Cessna 180 floatplane | PFO              | Aerial census: NWWGULF                 | 2/10 high overcast; wind SE at 20 knots            |
| 149           | 04-Sep-98    | Cessna 180 floatplane | PFO              | Aerial census: GULFISL                 | clear; wind NW at 20-25 knots                      |
| 150           | 05-Sep-98    | Cessna 180 floatplane | PFO              | Aerial census: GULFISL                 | clear; wind NW at 10 knots                         |
| 151           | 06-Sep-98    | Cessna 180 floatplane | PFO              | Aerial census: SGULF                   | 2/10 high overcast; calm                           |

## Appendix II

### Summary of Survey Counts

Note: counts denoted by a '0' indicate the site was specifically checked during the survey and no animals were present; counts denoted with a '-' indicate the area was surveyed but the site was not specifically checked and no seals were present (i.e. the survey made before seals were observed using the site); counts denoted with a 'ns' indicate the site was not surveyed or occasionally that the count was deemed unusable (e.g. poor visual and no photographs or the site was know to have been disturbed prior to count).

Subarea 11 (SGULF). Panel 1 of 4 panels.

| Site Name and Number | 13 August 1966     | 13-15 June 1973 | 14-15 August 1974 | 12 August 1976 | 16 August 1982 | 16 August 1986 | 20 August 1986 | 31 May 1 June 1988 | 12-26 August 1988 | 24 Sept. 1988 |
|----------------------|--------------------|-----------------|-------------------|----------------|----------------|----------------|----------------|--------------------|-------------------|---------------|
| H222                 | E CHADS ISL        | -               | -                 | -              | ns             | -              | 10             | 0                  | 8                 | 21            |
| H462                 | CANOE ROCK         | -               | -                 | -              | ns             | -              | -              | -                  | -                 | -             |
| H338                 | PARKIN PT          | -               | -                 | -              | ns             | -              | -              | 3                  | 0                 | 0             |
| H180                 | REYNARD PT RF      | -               | 1                 | 13             | ns             | 0              | 51             | 52                 | 90                | 40            |
| H223                 | PELLOW ITS         | -               | -                 | -              | ns             | -              | 40             | 44                 | 81                | 39            |
| H224                 | PELORUS PT         | -               | -                 | -              | ns             | -              | 24             | 42                 | 0                 | 38            |
| H226                 | S BRACKMAN ISL     | -               | -                 | -              | ns             | -              | -              | 68                 | 0                 | 55            |
| H179                 | TORTOISE ITS       | -               | 1                 | 24             | ns             | 0              | 13             | 13                 | 0                 | 1             |
| H365                 | ARBUTUS ISL        | -               | -                 | -              | ns             | -              | -              | -                  | 2                 | 12            |
| H463                 | W POINT FAIRFAX    | -               | -                 | -              | ns             | -              | -              | -                  | -                 | -             |
| H411                 | N KNAPP ISL        | -               | -                 | -              | ns             | -              | -              | -                  | -                 | 14            |
| H221                 | CLIVE ISL          | -               | -                 | -              | ns             | -              | 22             | 36                 | 52                | 47            |
| H366                 | PYM ISL            | -               | -                 | -              | ns             | -              | -              | -                  | 2                 | 10            |
| H378                 | POINT FAIRFAX      | -               | -                 | -              | ns             | -              | -              | -                  | 5                 | 37            |
| H161                 | IMRIE ISL          | 6               | 0                 | 0              | ns             | 0              | 54             | 20                 | 0                 | 15            |
| H360                 | HATCH PT           | -               | -                 | -              | ns             | -              | -              | -                  | 16                | ns            |
| H023                 | N GOUDGE ISL RF    | -               | 1                 | 0              | ns             | 43             | 4              | 7                  | 67                | 17            |
| H536                 | WAIN ROCK          | -               | -                 | -              | ns             | -              | -              | -                  | -                 | ns            |
| H554                 | SE SWARTZ HEAD RF  | -               | -                 | -              | ns             | -              | -              | -                  | -                 | -             |
| H018                 | REAY ISL           | -               | 1                 | 0              | ns             | 28             | 3              | 1                  | 0                 | 6             |
| H025                 | E FERNIE ISL       | -               | -                 | -              | ns             | 13             | 26             | 66                 | 0                 | 0             |
| H017                 | NW BRETHOUR ISL    | -               | -                 | 9              | ns             | 59             | 38             | 21                 | 79                | 39            |
| H020                 | S COAL ISL RF      | -               | -                 | 22             | ns             | 41             | 21             | 7                  | 11                | 82            |
| H019                 | GREIG ISL          | -               | 14                | 9              | ns             | 13             | 53             | 41                 | 31                | 0             |
| H537                 | SW COAL ISLAND RF  | -               | -                 | -              | ns             | -              | -              | -                  | -                 | -             |
| H016                 | E BRETHOUR ISL RF  | -               | 15                | 80             | ns             | 91             | 61             | 66                 | 96                | 136           |
| H022                 | TSEHUM HRBR RF     | 30              | 84                | 35             | ns             | 16             | 17             | 32                 | 26                | 15            |
| H323                 | DOCK ISL           | -               | -                 | -              | ns             | -              | -              | -                  | 17                | 2             |
| H015                 | COOPER REEF        | 4               | 21                | 0              | ns             | 72             | 100            | 45                 | 86                | 223           |
| H363                 | W DOMVILLE ISL     | -               | -                 | -              | ns             | -              | -              | -                  | -                 | 4             |
| H413                 | S COMET ISL        | -               | -                 | -              | ns             | -              | -              | -                  | -                 | 13            |
| H021                 | S KER ISL RF       | -               | -                 | -              | ns             | 38             | 10             | 7                  | 0                 | 52            |
| H158                 | N GOOCH ISL        | 4               | 0                 | 0              | ns             | 0              | 0              | 6                  | 0                 | 0             |
| H412                 | RUBLY ISL          | -               | -                 | -              | ns             | -              | -              | -                  | -                 | 6             |
| H324                 | NE PATRICIA BAY    | -               | -                 | -              | ns             | -              | -              | -                  | 40                | 15            |
| H219                 | TOM PT             | -               | -                 | -              | ns             | -              | 29             | 0                  | 0                 | 26            |
| H220                 | SE FORREST ISL RFS | -               | -                 | -              | ns             | -              | 33             | 61                 | 41                | 76            |
| H218                 | NORTH COD REEF     | -               | -                 | -              | ns             | -              | 9              | 7                  | 17                | 39            |
| H024                 | MILL BAY           | ns              | 12                | 7              | ns             | 0              | ns             | 24                 | 36                | 72            |
| H014                 | NW MANDARTE ISL RK | -               | -                 | 2              | ns             | 6              | 6              | 9                  | 1                 | 20            |
| H225                 | S MANDARTE ISL RF  | -               | -                 | -              | ns             | -              | -              | 5                  | 4                 | 7             |
| H552                 | TANNER ROCK        | -               | -                 | -              | ns             | -              | -              | -                  | -                 | ns            |
| H367                 | DYER ROCKS         | -               | -                 | -              | ns             | -              | -              | -                  | 22                | ns            |
| H013                 | E SIDNEY ISL RF    | 2               | 30                | 35             | ns             | 38             | 26             | 27                 | 44                | 33            |
| H157                 | HALIBUT ISL        | 3               | 0                 | 0              | ns             | 0              | 18             | 31                 | 20                | 31            |
| H461                 | TOZIER ROCK        | -               | -                 | -              | ns             | -              | -              | -                  | -                 | ns            |
| H362                 | E JAMES ISL        | -               | -                 | -              | ns             | -              | -              | -                  | 1                 | 1             |
| H156                 | CORDOVA SPIT       | 3               | 0                 | 0              | ns             | 0              | 0              | 0                  | 0                 | 0             |
| H011                 | MUNROE ROCK        | 30              | 35                | 0              | ns             | 33             | 34             | 40                 | 1                 | 35            |
| H318                 | N BAMBERTON        | -               | -                 | -              | ns             | -              | -              | -                  | 48                | 64            |
| H010                 | S JAMES ISL RF     | -               | 5                 | 2              | ns             | 7              | 1              | 0                  | 0                 | 2             |
| H009                 | SALLAS ROCKS       | 2               | 3                 | 40             | ns             | 124            | 152            | 107                | 126               | 223           |





Subarea 11 (SGULF). Panel 3 of 4 panels.

| Site Name and Number: |                    | 6-7<br>August<br>1990 | 20-21<br>August<br>1994 | 30-31<br>July<br>1996 | 5-6<br>Sept.<br>1998 |
|-----------------------|--------------------|-----------------------|-------------------------|-----------------------|----------------------|
| H222                  | E CHADS ISL        | 4                     | 25                      | 0                     | 42                   |
| H462                  | CANOE ROCK         | 76                    | 219                     | 339                   | 106                  |
| H338                  | PARKIN PT          | 4                     | 0                       | 0                     | 0                    |
| H180                  | REYNARD PT RF      | 47                    | 87                      | 84                    | 91                   |
| H223                  | PELLOW ITS         | 125                   | 50                      | 65                    | 0                    |
| H224                  | PELORUS PT         | 0                     | 19                      | 0                     | 0                    |
| H226                  | S BRACKMAN ISL     | 37                    | 20                      | 0                     | 0                    |
| H179                  | TORTOISE ITS       | 1                     | 0                       | 0                     | 0                    |
| H365                  | ARBUTUS ISL        | 1                     | 4                       | 0                     | 30                   |
| H463                  | W POINT FAIRFAX    | -                     | 7                       | 7                     | 0                    |
| H411                  | N KNAPP ISL        | 0                     | 0                       | 0                     | 0                    |
| H221                  | CLIVE ISL          | 22                    | 50                      | 45                    | 28                   |
| H366                  | PYM ISL            | 0                     | 0                       | 0                     | 0                    |
| H378                  | POINT FAIRFAX      | 0                     | 3                       | 0                     | 14                   |
| H161                  | IMRIE ISL          | 0                     | 87                      | 64                    | 80                   |
| H360                  | HATCH PT           | 29                    | 36                      | 6                     | ns                   |
| H023                  | N GOUDGE ISL RF    | 2                     | 49                      | 34                    | 7                    |
| H536                  | WAIN ROCK          | -                     | 46                      | 33                    | ns                   |
| H554                  | SE SWARTZ HEAD RF  | -                     | -                       | 22                    | 20                   |
| H018                  | REAY ISL           | 3                     | 1                       | 12                    | 0                    |
| H025                  | E FERNIE ISL       | 82                    | 4                       | 0                     | 0                    |
| H017                  | NW BRETHOUR ISL    | 61                    | 49                      | 109                   | 29                   |
| H020                  | S COAL ISL RF      | 31                    | 6                       | 0                     | 0                    |
| H019                  | GREIG ISL          | 65                    | 40                      | 135                   | 10                   |
| H537                  | SW COAL ISLAND RF  | -                     | 76                      | 46                    | 47                   |
| H016                  | E BRETHOUR ISL RF  | 129                   | 92                      | 217                   | 42                   |
| H022                  | TSEHUM HRBR RF     | 0                     | 24                      | 23                    | 0                    |
| H323                  | DOCK ISL           | 68                    | 7                       | 0                     | 6                    |
| H015                  | COOPER REEF        | 198                   | 162                     | 0                     | 159                  |
| H363                  | W DOMVILLE ISL     | 2                     | 0                       | 24                    | 0                    |
| H413                  | S COMET ISL        | 0                     | 9                       | 7                     | 5                    |
| H021                  | S KER ISL RF       | 56                    | 58                      | 49                    | 116                  |
| H158                  | N GOOCH ISL        | 0                     | 0                       | 0                     | 0                    |
| H412                  | RUBLY ISL          | 4                     | 21                      | 0                     | 13                   |
| H324                  | NE PATRICIA BAY    | 1                     | 0                       | 3                     | ns                   |
| H219                  | TOM PT             | 31                    | 71                      | 48                    | 28                   |
| H220                  | SE FORREST ISL RFS | 59                    | 51                      | 80                    | 57                   |
| H218                  | NORTH COD REEF     | 55                    | 17                      | 49                    | 0                    |
| H024                  | MILL BAY           | 17                    | 11                      | 5                     | ns                   |
| H014                  | NW MANDARTE ISL RK | 12                    | 32                      | 44                    | 57                   |
| H225                  | S MANDARTE ISL RF  | 36                    | 23                      | 117                   | 33                   |
| H552                  | TANNER ROCK        | -                     | -                       | 38                    | ns                   |
| H367                  | DYER ROCKS         | 34                    | 19                      | 0                     | ns                   |
| H013                  | E SIDNEY ISL RF    | 48                    | 30                      | 37                    | 3                    |
| H157                  | HALIBUT ISL        | 13                    | 34                      | 14                    | 39                   |
| H461                  | TOZIER ROCK        | 10                    | 10                      | 2                     | ns                   |
| H362                  | E JAMES ISL        | 0                     | 0                       | 0                     | 1                    |
| H156                  | CORDOVA SPIT       | 0                     | 0                       | 0                     | 0                    |
| H011                  | MUNROE ROCK        | 5                     | 21                      | 12                    | 46                   |
| H318                  | N BAMBERTON        | 0                     | 2                       | 0                     | ns                   |
| H010                  | S JAMES ISL RF     | 0                     | 0                       | 10                    | 0                    |
| H009                  | SALLAS ROCKS       | 274                   | 265                     | 289                   | 149                  |

Subarea 11 (SGULF). Panel 4 of 4 panels.

| Site Name and Number:                  | 6-7<br>August<br>1990   | 20-21<br>August<br>1994 | 30-31<br>July<br>1996 | 5-6<br>Sept.<br>1998 |               |
|--|-------------------------|-------------------------|-----------------------|----------------------|---------------|
| H008                                   | NW LITTLE D'ARCY ISL RK | 17                      | 50                    | 64                   | 0             |
| H012                                   | COWICHAN HD             | 0                       | 2                     | 15                   | 0             |
| H319                                   | SHEPPARD PT             | 39                      | 3                     | 9                    | ns            |
| H469                                   | E D'ARCY ISL            | 15                      | 19                    | 121                  | 28            |
| H007                                   | UNIT ROCKS              | 31                      | 100                   | 21                   | 91            |
| H006                                   | S D'ARCY ISL RF         | 49                      | 0                     | 95                   | 56            |
| H361                                   | ELBOW PT                | 44                      | 19                    | 0                    | ns            |
| H542                                   | LITTLE ZERO ROCK        | -                       | 4                     | 10                   | 0             |
| H005                                   | ZERO ROCK               | 83                      | 109                   | 155                  | 111           |
| H538                                   | CORDOVA BAY RF          | -                       | 42                    | 8                    | 36            |
| H177                                   | GORDON ROCK             | 8                       | 0                     | 0                    | 0             |
| H320                                   | GOLDSTREAM ESTUARY      | ns                      | ns                    | ns                   | ns            |
| H594                                   | S FINNERTY COVE REEF    | -                       | -                     | -                    | 8             |
| H539                                   | CADBORO POINT           | -                       | 7                     | 0                    | 0             |
| H468                                   | S FLOWER ISL RK         | 6                       | 0                     | 0                    | 0             |
| H212                                   | CHATHAM ISLS            | 134                     | 237                   | 236                  | 232           |
| H321                                   | BROTHERS ISLS           | 7                       | 0                     | 29                   | 10            |
| H540                                   | MAYOR CHANNEL RF        | -                       | 29                    | 59                   | 39            |
| H004                                   | CHAIN ITS               | 193                     | 290                   | 401                  | 144           |
| H322                                   | GREAT CHAIN ISL         | 23                      | 47                    | 103                  | 185           |
| H541                                   | MOUAT REEF              | -                       | 3                     | 0                    | 0             |
| H171                                   | GLIMPSE REEFS           | 2                       | 0                     | 0                    | 3             |
| H178                                   | TRIAL ISLS              | 79                      | 100                   | 119                  | 105           |
| H217                                   | ALBERT HD               | 55                      | 80                    | 0                    | 153           |
| H003                                   | HAYSTOCK ITS            | 182                     | 179                   | 193                  | 129           |
| H467                                   | PARKER BAY              | 7                       | 20                    | 0                    | 10            |
| H216                                   | ANCHOR RK               | 50                      | 58                    | 48                   | 109           |
| H466                                   | ROCKY PT                | 14                      | 8                     | 0                    | 37            |
| H001                                   | W BENTINCK ISL RFS      | 174                     | 76                    | 412                  | 173           |
| H002                                   | RACE ROCKS              | 617                     | 485                   | 858                  | 359           |
| <b>Total number counted</b>            |                         | <b>3,471</b>            | <b>3,804</b>          | <b>5,025</b>         | <b>3,276</b>  |
| <b>Correction for unborn pups</b>      |                         | <b>1.0617</b>           | <b>1.0145</b>         | <b>1.1067</b>        | <b>1.0010</b> |
| <b>Proportion of area covered</b>      |                         | <b>1.0000</b>           | <b>1.0000</b>         | <b>1.0000</b>        | <b>0.9809</b> |
| <b>Adjusted count</b>                  |                         | <b>3685.2</b>           | <b>3859.0</b>         | <b>5561.2</b>        | <b>3343.1</b> |
| <b>Estimated proportion hauled out</b> |                         | <b>0.651</b>            | <b>0.625</b>          | <b>0.668</b>         | <b>0.678</b>  |
| <b>Correction for missed animals</b>   |                         | <b>1.537</b>            | <b>1.599</b>          | <b>1.496</b>         | <b>1.474</b>  |
| <b>Estimated abundance</b>             |                         | <b>5,664</b>            | <b>6,170</b>          | <b>8,320</b>         | <b>4,929</b>  |
| <b>Abundance adjusted to 1996-98</b>   |                         | <b>-</b>                | <b>-</b>              | <b>8,320</b>         | <b>4,929</b>  |

Subarea 12 (BBAY). Panel 1 of 2 panels.

| Site Name and Number:                  |                       | 27 July<br>1966 | 11 June<br>1973 | 16<br>August<br>1974 | 23<br>August<br>1976 | 17<br>August<br>1982 | 19<br>August<br>1983 | 9<br>August<br>1984 | 24<br>August<br>1984 | 12<br>August<br>1985 | 27<br>August<br>1985 |
|--|-----------------------|-----------------|-----------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|
| H030                                   | E BOUNDARY BAY SITE B | -               | 0               | 0                    | 19                   | 8                    | 10                   | 10                  | 0                    | 9                    | 4                    |
| H029                                   | E BOUNDARY BAY SITE A | 0               | 15              | 0                    | 34                   | 24                   | 37                   | 22                  | 28                   | 25                   | 42                   |
| H031                                   | E BOUNDARY BAY SITE C | 13              | 0               | 0                    | 35                   | 18                   | 51                   | 13                  | 38                   | 50                   | 38                   |
| H032                                   | E BOUNDARY BAY SITE D | 50              | 76              | 56                   | 29                   | 38                   | 37                   | 0                   | 31                   | 0                    | 0                    |
| H033                                   | C BOUNDARY BAY SITE E | -               | -               | -                    | -                    | 77                   | 0                    | 46                  | 24                   | 39                   | 0                    |
| H449                                   | W BOUNDARY BAY SITE I | -               | -               | -                    | -                    | -                    | -                    | -                   | -                    | -                    | -                    |
| H034                                   | W BOUNDARY BAY SITE F | 118             | 116             | 247                  | 304                  | 593                  | 740                  | 827                 | 677                  | 746                  | 755                  |
| H155                                   | C BOUNDARY BAY SITE H | -               | -               | -                    | -                    | -                    | 44                   | 67                  | 0                    | 22                   | 31                   |
| H035                                   | W BOUNDARY BAY SITE G | 40              | 0               | 0                    | 41                   | 38                   | 20                   | 59                  | 21                   | 4                    | 0                    |
| H172                                   | KWOMAS PT             | -               | 8               | 0                    | 0                    | 0                    | 0                    | 0                   | 0                    | 0                    | 0                    |
| H170                                   | SE POINT ROBERTS RFS  | 15              | 8               | 4                    | 2                    | 1                    | 0                    | 0                   | 0                    | 5                    | 5                    |
| <b>Total number counted</b>            |                       | <b>236</b>      | <b>223</b>      | <b>307</b>           | <b>464</b>           | <b>797</b>           | <b>939</b>           | <b>1,044</b>        | <b>819</b>           | <b>900</b>           | <b>875</b>           |
| <b>Correction for unborn pups</b>      |                       | <b>1.1320</b>   | <b>1.2496</b>   | <b>1.0293</b>        | <b>1.0167</b>        | <b>1.0264</b>        | <b>1.0213</b>        | <b>1.0149</b>       | <b>1.0621</b>        | <b>1.0438</b>        | <b>1.0075</b>        |
| <b>Proportion of area covered</b>      |                       | <b>1.0000</b>   | <b>1.0000</b>   | <b>1.0000</b>        | <b>1.0000</b>        | <b>1.0000</b>        | <b>1.0000</b>        | <b>1.0000</b>       | <b>1.0000</b>        | <b>1.0000</b>        | <b>1.0000</b>        |
| <b>Adjusted count</b>                  |                       | <b>267.2</b>    | <b>278.7</b>    | <b>316.0</b>         | <b>471.7</b>         | <b>818.0</b>         | <b>959.0</b>         | <b>1059.6</b>       | <b>869.9</b>         | <b>939.4</b>         | <b>881.6</b>         |
| <b>Estimated proportion hauled out</b> |                       | <b>0.615</b>    | <b>0.609</b>    | <b>0.667</b>         | <b>0.610</b>         | <b>0.595</b>         | <b>0.687</b>         | <b>0.676</b>        | <b>0.704</b>         | <b>0.661</b>         | <b>0.686</b>         |
| <b>Correction for missed animals</b>   |                       | <b>1.626</b>    | <b>1.641</b>    | <b>1.499</b>         | <b>1.640</b>         | <b>1.681</b>         | <b>1.456</b>         | <b>1.480</b>        | <b>1.420</b>         | <b>1.513</b>         | <b>1.458</b>         |
| <b>Estimated abundance</b>             |                       | <b>434</b>      | <b>457</b>      | <b>474</b>           | <b>774</b>           | <b>1,375</b>         | <b>1,396</b>         | <b>1,568</b>        | <b>1,235</b>         | <b>1,421</b>         | <b>1,285</b>         |
| <b>Abundance adjusted to 1996-98</b>   |                       | <b>-</b>        | <b>-</b>        | <b>-</b>             | <b>-</b>             | <b>-</b>             | <b>-</b>             | <b>-</b>            | <b>-</b>             | <b>-</b>             | <b>-</b>             |

Subarea 12 (BBAY). Panel 2 of 2 panels.

| Site Name and Number:                  |                       | 18<br>August<br>1986 | 11<br>August<br>1987 | 31<br>May<br>1988 | 26<br>August<br>1988 | 24<br>Sept.<br>1988 | 5<br>August<br>1990 | 24<br>August<br>1992 | 5<br>August<br>1994 | 27<br>July<br>1996 | 5<br>August<br>1998 |
|--|-----------------------|----------------------|----------------------|-------------------|----------------------|---------------------|---------------------|----------------------|---------------------|--------------------|---------------------|
| H030                                   | E BOUNDARY BAY SITE B | 0                    | 27                   | 0                 | 0                    | 0                   | 23                  | 0                    | 0                   | 80                 | 86                  |
| H029                                   | E BOUNDARY BAY SITE A | 31                   | 21                   | 39                | 50                   | 73                  | 78                  | 23                   | 0                   | 0                  | 0                   |
| H031                                   | E BOUNDARY BAY SITE C | 24                   | 42                   | 1                 | 55                   | 22                  | 64                  | 68                   | 64                  | 90                 | 121                 |
| H032                                   | E BOUNDARY BAY SITE D | 31                   | 18                   | 0                 | 13                   | 0                   | 4                   | 0                    | 0                   | 0                  | 0                   |
| H033                                   | C BOUNDARY BAY SITE E | 0                    | 102                  | 87                | 7                    | 0                   | 14                  | 12                   | 54                  | 28                 | 34                  |
| H449                                   | W BOUNDARY BAY SITE I | -                    | -                    | -                 | -                    | -                   | 28                  | 9                    | 33                  | 0                  | 16                  |
| H034                                   | W BOUNDARY BAY SITE F | 610                  | 643                  | 303               | 694                  | 525                 | 714                 | 594                  | 604                 | 631                | 284                 |
| H155                                   | C BOUNDARY BAY SITE H | 29                   | 0                    | 0                 | 0                    | 10                  | 77                  | 5                    | 12                  | 48                 | 118                 |
| H035                                   | W BOUNDARY BAY SITE G | 24                   | 52                   | 0                 | 57                   | 0                   | 27                  | 3                    | 0                   | 0                  | 0                   |
| H172                                   | KWOMAS PT             | 0                    | 0                    | 0                 | 0                    | 0                   | 0                   | 0                    | 0                   | 1                  | 1                   |
| H170                                   | SE POINT ROBERTS RFS  | 0                    | 7                    | 24                | 4                    | 2                   | 14                  | 1                    | 7                   | 11                 | 1                   |
| <b>Total number counted</b>            |                       | <b>749</b>           | <b>912</b>           | <b>454</b>        | <b>880</b>           | <b>632</b>          | <b>1,043</b>        | <b>715</b>           | <b>774</b>          | <b>889</b>         | <b>661</b>          |
| <b>Correction for unborn pups</b>      |                       | <b>1.0238</b>        | <b>1.0480</b>        | <b>1.2500</b>     | <b>1.0100</b>        | <b>1.0000</b>       | <b>1.0770</b>       | <b>1.0110</b>        | <b>1.0770</b>       | <b>1.1310</b>      | <b>1.0720</b>       |
| <b>Proportion of area covered</b>      |                       | <b>1.0000</b>        | <b>1.0000</b>        | <b>1.0000</b>     | <b>1.0000</b>        | <b>1.0000</b>       | <b>1.0000</b>       | <b>1.0000</b>        | <b>1.0000</b>       | <b>1.0000</b>      | <b>1.0000</b>       |
| <b>Adjusted count</b>                  |                       | <b>766.8</b>         | <b>955.8</b>         | <b>567.5</b>      | <b>888.8</b>         | <b>632.0</b>        | <b>1123.3</b>       | <b>722.9</b>         | <b>833.6</b>        | <b>1005.5</b>      | <b>708.6</b>        |
| <b>Estimated proportion hauled out</b> |                       | <b>0.623</b>         | <b>0.679</b>         | <b>0.565</b>      | <b>0.611</b>         | <b>0.707</b>        | <b>0.630</b>        | <b>0.673</b>         | <b>0.603</b>        | <b>0.574</b>       | <b>0.557</b>        |
| <b>Correction for missed animals</b>   |                       | <b>1.605</b>         | <b>1.472</b>         | <b>1.769</b>      | <b>1.637</b>         | <b>1.415</b>        | <b>1.587</b>        | <b>1.485</b>         | <b>1.658</b>        | <b>1.743</b>       | <b>1.796</b>        |
| <b>Estimated abundance</b>             |                       | <b>1,231</b>         | <b>1,407</b>         | <b>1,004</b>      | <b>1,455</b>         | <b>894</b>          | <b>1,783</b>        | <b>1,073</b>         | <b>1,382</b>        | <b>1,753</b>       | <b>1,273</b>        |
| <b>Estimated abundance</b>             |                       | <b>-</b>             | <b>-</b>             | <b>-</b>          | <b>-</b>             | <b>-</b>            | <b>-</b>            | <b>-</b>             | <b>-</b>            | <b>1,753</b>       | <b>1,273</b>        |



Subarea 13 (FRASERR). Panel 2 of 2 panels.

| Site Name and Number.                  | 4<br>August<br>1990    | 4<br>August<br>1992 | 4<br>August<br>1994 | 4<br>August<br>1996 | 5<br>August<br>1998 |
|--|------------------------|---------------------|---------------------|---------------------|---------------------|
| H042                                   | C STURGEON BANK SITE C | 0                   | 279                 | 163                 | 0                   |
| H071                                   | C STURGEON BANK SITE B | 139                 | 78                  | 0                   | 0                   |
| H199                                   | SWISHWASH ISL          | 0                   | 0                   | 51                  | 6                   |
| H573                                   | STURGEON BANK - SITE G | -                   | -                   | -                   | 111                 |
| H451                                   | C STURGEON BANK SITE E | 314                 | 0                   | 312                 | 598                 |
| H231                                   | S STURGEON BANK SITE D | 0                   | 0                   | 0                   | 0                   |
| H564                                   | STURGEON BANK - SITE F | -                   | -                   | 71                  | 0                   |
| H070                                   | S STURGEON BANK SITE A | 36                  | 4                   | 4                   | 0                   |
| H481                                   | GARRY PT               | -                   | 63                  | 0                   | 0                   |
| H206                                   | N ROBERTS BANK SITE G  | 0                   | 75                  | 0                   | 172                 |
| H038                                   | N ROBERTS BANK SITE C  | 106                 | 0                   | 239                 | 0                   |
| H565                                   | ROBERTS BANK - SITE K  | -                   | -                   | 257                 | 0                   |
| H543                                   | N ROBERTS BANK SITE J  | -                   | -                   | -                   | 103                 |
| H041                                   | N ROBERTS BANK SITE E  | 142                 | 161                 | 34                  | 184                 |
| H040                                   | N ROBERTS BANK SITE F  | 217                 | 418                 | 122                 | 81                  |
| H039                                   | N ROBERTS BANK SITE D  | 5                   | 0                   | 0                   | 0                   |
| H201                                   | N ROBERTS BANK SITE H  | 73                  | 23                  | 63                  | 0                   |
| H408                                   | S WESTHAM ISL          | 0                   | 0                   | 0                   | 0                   |
| H036                                   | C ROBERTS BANK SITE A  | 0                   | 0                   | 4                   | 10                  |
| H450                                   | C ROBERTS BANK SITE I  | 24                  | 0                   | 0                   | 0                   |
| H037                                   | C ROBERTS BANK SITE B  | 11                  | 0                   | 1                   | 0                   |
| H480                                   | TSWASSEN BREAKWATER    | -                   | 10                  | 2                   | 20                  |
| <b>Total number counted</b>            |                        |                     |                     |                     |                     |
|  |                        | 1,067               | 1,111               | 1,323               | 1,174               |
| <b>Correction for unborn pups</b>      |                        |                     |                     |                     |                     |
|  |                        | 1,0770              | 1,0110              | 1,0770              | 1,1310              |
| <b>Proportion of area covered</b>      |                        |                     |                     |                     |                     |
|  |                        | 1,0000              | 1,0000              | 1,0000              | 1,0000              |
| <b>Adjusted count</b>                  |                        |                     |                     |                     |                     |
|  |                        | 1,149.2             | 1,123.2             | 1,424.9             | 1,327.8             |
| <b>Estimated proportion hauled out</b> |                        |                     |                     |                     |                     |
|  |                        | 0.690               | 0.692               | 0.632               | 0.700               |
| <b>Correction for missed animals</b>   |                        |                     |                     |                     |                     |
|  |                        | 1.449               | 1.446               | 1.583               | 1.429               |
| <b>Estimated abundance</b>             |                        |                     |                     |                     |                     |
|  |                        | 1,665               | 1,624               | 2,256               | 1,897               |
| <b>Abundance adjusted to 1996-98</b>   |                        |                     |                     |                     |                     |
|  |                        | -                   | -                   | -                   | 1,897               |
|  |                        |                     |                     |                     | 1,365               |

Subarea 14 (HOWESD). Panel 1 of 1 panels.

| Site Name and Number:           | 11 June 1973 | 19 August 1974 | 17 August 1982 | 23 August 1984 | 27 August 1985 | 18 August 1986 | 11 August 1987 | 30 May 1988 | 25 August 1988 | 22 Sept. 1988 | 3 August 1990 | 25 August 1992 | 4 August 1994 | 10 August 1996 | 5 August 1998 |
|---------------------------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|----------------|---------------|---------------|----------------|---------------|----------------|---------------|
| H317 SQUAMISH ESTUARY           | -            | -              | -              | -              | -              | -              | -              | -           | -              | 2             | ns            | ns             | ns            | ns             | ns            |
| H316 N IRBY PT RKS              | -            | -              | -              | -              | -              | -              | -              | 3           | 0              | 0             | 0             | 2              | 0             | 0              | 0             |
| H445 CHRISTIE IT                | -            | -              | -              | -              | -              | -              | -              | -           | -              | -             | 33            | 24             | 24            | 14             | 24            |
| H043 PAM ROCKS                  | 37           | 38             | 65             | 195            | 180            | 126            | 251            | 191         | 219            | 139           | 204           | 180            | 288           | 187            | 214           |
| H410 PORT GRAVES                | -            | -              | -              | -              | -              | -              | -              | -           | -              | 3             | 0             | 0              | 0             | ns             | ns            |
| H446 N HALKETT PT               | -            | -              | -              | -              | -              | -              | 2              | -           | -              | -             | 6             | 0              | 4             | 0              | 0             |
| H252 HALKETT PT                 | -            | -              | -              | -              | -              | -              | 64             | 75          | 80             | 70            | 38            | 51             | 0             | 0              | 0             |
| H230 E BOWYER ISL               | -            | -              | -              | -              | -              | 35             | -              | 3           | 0              | 21            | 1             | 4              | 1             | 0              | 0             |
| H315 W HUTT ISL                 | -            | -              | -              | -              | -              | -              | -              | -           | 21             | 26            | 40            | 21             | 38            | 2              | 7             |
| H372 NW BOWEN ISL               | -            | -              | -              | -              | 10             | 8              | 12             | 11          | 18             | 7             | 26            | 0              | 0             | 9              | 0             |
| H200 RAGGED ISL                 | -            | -              | -              | -              | -              | -              | 2              | 51          | 7              | 0             | 1             | 14             | 1             | 16             | 0             |
| H253 N HERMIT ISL RK            | -            | -              | -              | -              | -              | -              | 0              | 0           | 0              | 0             | 5             | 2              | 22            | 3              | 0             |
| H484 MICKEY ISL                 | -            | -              | -              | -              | -              | -              | 4              | 0           | 5              | 1             | 0             | 0              | 42            | 0              | 6             |
| H232 WHYTE IT                   | -            | -              | -              | -              | -              | -              | -              | -           | -              | -             | -             | -              | 22            | 11             | 0             |
| H507 S HERMIT ISL REEF          | -            | -              | -              | -              | -              | -              | -              | -           | -              | -             | -             | -              | -             | -              | -             |
| H044 N POPHAM ISL RFS           | 24           | 52             | 99             | 112            | 170            | 170            | 190            | 207         | 182            | 71            | 151           | 110            | 224           | 52             | 138           |
| H506 BOWEN BAY ROCK             | -            | -              | -              | -              | -              | -              | -              | -           | -              | -             | -             | -              | 20            | 0              | 0             |
| H229 S PASLEY ISL RK            | -            | -              | -              | -              | -              | 0              | 0              | 9           | 0              | 35            | 36            | 42             | 11            | 28             | 67            |
| H482 EAGLE ISL                  | -            | -              | -              | -              | -              | -              | -              | -           | -              | -             | -             | 0              | 0             | 0              | 0             |
| H574 N WORLCOMBE ISL RF         | -            | -              | -              | -              | -              | -              | -              | -           | -              | -             | -             | -              | -             | -              | 20            |
| H045 NW WORLCOMBE ISL RFS       | 27           | 1              | 31             | 34             | 68             | 77             | 73             | 88          | 77             | 50            | 84            | 122            | 244           | 63             | 187           |
| H483 GREBE ITS                  | -            | -              | -              | -              | -              | -              | -              | -           | -              | -             | -             | 21             | 20            | 10             | 2             |
| H409 E CAPE ROGER CURTIS        | -            | -              | -              | -              | -              | -              | -              | -           | -              | 5             | 0             | 8              | 0             | 1              | 0             |
| Total number counted            | 64           | 63             | 148            | 328            | 370            | 420            | 594            | 638         | 609            | 430           | 625           | 581            | 961           | 428            | 679           |
| Correction for unborn pups      | 1,2496       | 1,0213         | 1,0264         | 1,0149         | 1,0075         | 1,0238         | 1,0480         | 1,2500      | 1,0100         | 1,0000        | 1,0820        | 1,0100         | 1,0770        | 1,0520         | 1,0777        |
| Proportion of area covered      | 1,0000       | 1,0000         | 1,0000         | 1,0000         | 1,0000         | 1,0000         | 0,9905         | 1,0000      | 1,0000         | 1,0000        | 0,9953        | 0,9953         | 0,9953        | 0,9953         | 0,9953        |
| Adjusted count                  | 80,0         | 64,3           | 151,9          | 332,9          | 372,8          | 430,0          | 628,5          | 797,5       | 615,1          | 430,0         | 679,4         | 589,6          | 1039,9        | 452,4          | 735,2         |
| Estimated proportion hauled out | 0,623        | 0,585          | 0,662          | 0,564          | 0,687          | 0,664          | 0,607          | 0,661       | 0,664          | 0,631         | 0,615         | 0,626          | 0,687         | 0,627          | 0,702         |
| Correction for missed animals   | 1,605        | 1,709          | 1,511          | 1,773          | 1,456          | 1,506          | 1,647          | 1,513       | 1,506          | 1,585         | 1,627         | 1,598          | 1,455         | 1,596          | 1,424         |
| Estimated abundance             | 128          | 110            | 230            | 590            | 543            | 648            | 1,035          | 1,207       | 926            | 682           | 1,105         | 942            | 1,513         | 722            | 1,047         |
| Abundance adjusted to 1996-98   | -            | -              | -              | -              | -              | -              | -              | -           | -              | -             | -             | -              | -             | 722            | 1,047         |



Subarea 15 (GULFISL). Panel 2 of 4 panels.

| Site Name and Number: | 13-14<br>August<br>1966 | 14-15<br>June<br>1973 | 14-16<br>August<br>1974 | 16-18<br>August<br>1982 | 19-20<br>August<br>1986 | 1-17<br>June<br>1988 | 12-26<br>August<br>1988 | 5-6<br>August<br>1990 | 28 Aug<br>9 Sept<br>1992 | 18-20<br>August<br>1994 | 28-30<br>July<br>1996 | 9 Aug<br>5 Sept<br>1998 |
|-----------------------|-------------------------|-----------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------------------|-----------------------|--------------------------|-------------------------|-----------------------|-------------------------|
| H064                  |                         |                       |                         | 8                       | 5                       | 0                    | 9                       | 14                    | 27                       | 60                      | 48                    | 81                      |
| H027                  |                         |                       |                         | 21                      | 38                      | 1                    | 14                      | 127                   | 193                      | 154                     | 13                    | 192                     |
| H525                  |                         |                       |                         |                         |                         |                      |                         |                       |                          | 2                       | 2                     | 0                       |
| H243                  |                         |                       |                         |                         | 43                      | 10                   | 51                      | 74                    | 179                      | 214                     | 146                   | 208                     |
| H048                  |                         | 1                     | 13                      | 2                       |                         | 1                    | 1                       | 0                     |                          | 13                      | 29                    | 0                       |
| H590                  |                         |                       |                         |                         |                         |                      |                         |                       |                          |                         |                       | 14                      |
| H174                  |                         | 3                     | 1                       | 0                       | 0                       | 1                    | 0                       | 12                    | 9                        | 0                       | 0                     | 2                       |
| H047                  | 32                      | 0                     | 17                      | 45                      | 41                      | 102                  | 63                      | 75                    | 78                       | 104                     | 121                   | 64                      |
| H213                  | ns                      | 12                    | ns                      | 0                       | 0                       | 0                    | 15                      | 0                     | 0                        | 0                       | 0                     | 0                       |
| H453                  |                         |                       |                         |                         |                         |                      |                         | 19                    | 0                        | 51                      | 16                    | 0                       |
| H346                  |                         |                       |                         |                         |                         | 41                   | 1                       | 0                     | 4                        | 0                       | 0                     | 1                       |
| H546                  |                         |                       |                         |                         |                         |                      |                         |                       |                          |                         | 4                     | 0                       |
| H374                  |                         |                       |                         |                         |                         |                      | 25                      | 0                     | 34                       | 69                      | 0                     | 52                      |
| H529                  |                         |                       |                         |                         |                         |                      |                         |                       |                          | 10                      | 0                     | 3                       |
| H181                  |                         |                       | 23                      | 0                       | 9                       | 7                    | 16                      | 19                    | 26                       | 23                      | 63                    | 42                      |
| H236                  |                         |                       |                         |                         | 22                      | 0                    | 3                       | 0                     | 1                        | 37                      | 7                     | 13                      |
| H547                  |                         |                       |                         |                         |                         |                      |                         |                       |                          |                         | 9                     | 0                       |
| H182                  |                         | 2                     | 6                       | 0                       | 26                      | 16                   | 96                      | 0                     | 76                       | 51                      | 0                     | 54                      |
| H086                  |                         | 1                     | 2                       | 16                      | 14                      | 60                   | 28                      | 25                    | 4                        | 2                       | 16                    | 2                       |
| H528                  |                         |                       |                         |                         |                         |                      |                         |                       |                          | 22                      | 0                     | 22                      |
| H336                  |                         |                       |                         |                         |                         |                      | 6                       | 0                     | 0                        | 0                       | 0                     | 0                       |
| H454                  |                         |                       |                         |                         |                         |                      |                         | 9                     | 0                        | 6                       | 26                    | 0                       |
| H085                  |                         |                       |                         | 29                      | 0                       | 51                   | 0                       | 12                    | 11                       | 16                      | 12                    | 27                      |
| H465                  |                         |                       |                         |                         |                         |                      |                         | 40                    | 0                        | 2                       | 49                    | 30                      |
| H083                  |                         |                       | 9                       | 32                      | 23                      | 0                    | 34                      | 2                     | 0                        | 23                      | 16                    | 15                      |
| H084                  |                         |                       | 33                      | 9                       | 49                      | 30                   | 57                      | 49                    | 42                       | 29                      | 21                    | 0                       |
| H065                  |                         | 1                     | 9                       | 15                      | 41                      | 13                   | 42                      | 42                    | 81                       | 40                      | 0                     | 156                     |
| H235                  |                         |                       |                         |                         | 25                      | 7                    | 1                       | 0                     | 2                        | 4                       | 63                    | 83                      |
| H349                  |                         |                       |                         |                         |                         | 1                    | 2                       | 0                     | 0                        | 0                       | 0                     | 0                       |
| H348                  |                         |                       |                         |                         |                         | 70                   | 1                       | 82                    | 0                        | 8                       | 46                    | 2                       |
| H082                  | 2                       | 2                     | 0                       | 3                       | 15                      | 0                    | 3                       | 0                     | 0                        | 2                       | 0                     | 11                      |
| H347                  |                         |                       |                         |                         |                         | 10                   | 47                      | 25                    | 20                       | 31                      | 19                    | 44                      |
| H530                  |                         |                       |                         |                         |                         |                      |                         |                       |                          | 260                     | 152                   | 0                       |
| H046                  |                         |                       |                         | 2                       | 60                      | 0                    | 0                       | 0                     | 13                       | 12                      | 0                     | 0                       |
| H066                  |                         |                       | 6                       | 11                      | 46                      | 70                   | 55                      | 0                     | 0                        | 0                       | 0                     | 0                       |
| H081                  |                         | 8                     | 7                       | 13                      | 30                      | 0                    | 8                       | 0                     | 5                        | 0                       | 0                     | 1                       |
| H501                  |                         |                       |                         |                         |                         |                      |                         |                       | 10                       | 0                       | 0                     | 0                       |



Subarea 15 (GULFISL). Panel 3 of 4 panels.

| Site Name and Number:    | 13-14<br>August<br>1966 | 14-15<br>June<br>1973 | 14-16<br>August<br>1974 | 16-18<br>August<br>1982 | 19-20<br>August<br>1986 | 1-17<br>June<br>1988 | 12-26<br>August<br>1988 | 5-6<br>August<br>1990 | 28 Aug<br>9 Sept<br>1992 | 18-20<br>August<br>1994 | 28-30<br>July<br>1996 | 9 Aug<br>5 Sept<br>1998 |
|--------------------------|-------------------------|-----------------------|-------------------------|-------------------------|-------------------------|----------------------|-------------------------|-----------------------|--------------------------|-------------------------|-----------------------|-------------------------|
| H345 NORTH REEF          | -                       | -                     | -                       | -                       | -                       | 27                   | 45                      | 46                    | 38                       | 60                      | 0                     | 59                      |
| H080 MW GALIANO ISL RF A | 2                       | 12                    | 9                       | 21                      | 0                       | 31                   | 0                       | 25                    | 3                        | 0                       | 4                     | 0                       |
| H364 BALLINGALL ITS      | -                       | -                     | -                       | -                       | -                       | -                    | 8                       | 15                    | 14                       | 85                      | 0                     | 99                      |
| H169 WISE ISL            | 5                       | 15                    | 2                       | 0                       | 0                       | 1                    | 1                       | 1                     | 0                        | 0                       | 2                     | 0                       |
| H498 CHARLES ISL         | -                       | -                     | -                       | -                       | -                       | -                    | -                       | 3                     | 4                        | 0                       | 0                     | 1                       |
| H026 SHOAL ISLS FLATS    | 7                       | 12                    | 1                       | 38                      | 40                      | 135                  | 121                     | 223                   | 79                       | 7                       | 28                    | 16                      |
| H531 LION ISLETS         | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | -                        | 4                       | 0                     | 69                      |
| H350 YORK ROCKS          | -                       | -                     | -                       | -                       | -                       | -                    | 27                      | 54                    | 59                       | 66                      | 17                    | 11                      |
| H067 SE GOSSIP ISL RFS   | -                       | -                     | -                       | 9                       | 31                      | 33                   | 15                      | 25                    | 75                       | 192                     | 104                   | 59                      |
| H548 NW RIP POINT        | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | -                        | -                       | 13                    | 16                      |
| H592 CROFTON REEF        | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | -                        | -                       | -                     | 80                      |
| H168 ATKINS REEF         | 12                      | 7                     | 4                       | 0                       | 23                      | 10                   | 23                      | 49                    | 34                       | 0                       | 98                    | 52                      |
| H376 E DAVID COVE RF     | -                       | -                     | -                       | -                       | -                       | -                    | 15                      | 0                     | 32                       | 29                      | 23                    | 28                      |
| H497 W MARY ANNE PT      | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | 5                        | 17                      | 0                     | 6                       |
| H549 W GEORGEON BAY RF   | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | -                        | -                       | 43                    | 27                      |
| H241 SE EDITH PT RFS     | -                       | -                     | -                       | -                       | 17                      | 0                    | 7                       | 24                    | 36                       | 19                      | 31                    | 14                      |
| H375 NE NOSE PT          | -                       | -                     | -                       | -                       | -                       | -                    | 7                       | 5                     | 12                       | 20                      | 0                     | 0                       |
| H166 S PEILE PT          | 3                       | 0                     | 1                       | 0                       | 0                       | 0                    | 2                       | 31                    | 0                        | 0                       | 0                     | 5                       |
| H379 CHAIN ISLS          | -                       | 1                     | 6                       | 0                       | 0                       | 108                  | 42                      | 0                     | 24                       | 59                      | 17                    | 0                       |
| H079 CHARLES ROCKS       | 1                       | 33                    | 14                      | 63                      | 20                      | 119                  | 81                      | 3                     | 15                       | 23                      | 123                   | 14                      |
| H502 HAWKINS ISL         | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | 53                       | 21                      | 0                     | 0                       |
| H457 DINNER PT           | -                       | -                     | -                       | -                       | -                       | -                    | -                       | 9                     | 16                       | 21                      | 0                     | 27                      |
| H069 BELLE CHAIN ITS     | 7                       | 14                    | 106                     | 140                     | 471                     | 240                  | 753                     | 573                   | 800                      | 0                       | 755                   | 458                     |
| H068 E SAMUEL ISL RF     | -                       | 55                    | 20                      | 34                      | 22                      | 123                  | 0                       | 103                   | 96                       | 1,034                   | 281                   | 0                       |
| H503 E STANLEY PT        | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | 29                       | 5                       | 0                     | 0                       |
| H078 NE STANLEY PT       | 1                       | 0                     | 12                      | 5                       | 14                      | 0                    | 34                      | 6                     | 0                        | 19                      | 18                    | 6                       |
| H337 LIZARD ISL          | -                       | -                     | -                       | -                       | -                       | 8                    | 0                       | 0                     | 0                        | 0                       | 2                     | 0                       |
| H550 E ELLEN BAY         | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | -                        | -                       | 18                    | 0                       |
| H173 NW ACLAND ISLS RFS  | 1                       | 1                     | 0                       | 0                       | 9                       | 1                    | 52                      | 0                     | 0                        | 0                       | 0                     | 3                       |
| H237 RED ITS             | -                       | -                     | -                       | -                       | 6                       | 0                    | 0                       | 15                    | 15                       | 0                       | 0                     | 0                       |
| H551 BOAT ISLET          | -                       | -                     | -                       | -                       | -                       | -                    | -                       | -                     | -                        | -                       | 8                     | 2                       |
| H460 SE ACLAND ISLS      | -                       | -                     | -                       | -                       | -                       | -                    | -                       | 7                     | 0                        | 0                       | 4                     | 0                       |
| H240 KING ITS            | -                       | -                     | -                       | -                       | 52                      | 40                   | 41                      | 65                    | 66                       | 6                       | 105                   | 26                      |
| H238 FANE ISL            | -                       | -                     | -                       | -                       | 7                       | 19                   | 13                      | 0                     | 12                       | 4                       | 35                    | 5                       |
| H073 W TUMBO ISL RF      | 2                       | 0                     | 10                      | 20                      | 0                       | 121                  | 45                      | 106                   | 21                       | 205                     | 5                     | 108                     |
| H165 CHANNEL ISLS        | 11                      | 27                    | 0                       | 0                       | 68                      | 61                   | 51                      | 114                   | 63                       | 135                     | 169                   | 66                      |
| H074 PINE IT             | 11                      | 10                    | 6                       | 26                      | 103                     | 0                    | 107                     | 157                   | 247                      | 355                     | 236                   | 185                     |



Subarea 16 (NWGULF). Panel 1 of 2 panels.

| Site Name and Number:    | 16-19<br>August<br>1974 | 10-11<br>August<br>1976 | 17-18<br>August<br>1983 | 14<br>August<br>1985 | 13-16<br>June<br>1988 | 10-24<br>August<br>1988 | 17-18<br>August<br>1990 | 27-28<br>August<br>1992 | 7-17<br>August<br>1994 | 11-13<br>August<br>1996 | 8-9<br>August<br>1998 |
|--------------------------|-------------------------|-------------------------|-------------------------|----------------------|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|-------------------------|-----------------------|
| H356 SHELTER PT RF       | -                       | -                       | -                       | -                    | ns                    | 32                      | 56                      | 36                      | 44                     | 0                       | 83                    |
| H588 OYSTER BAY RF       | -                       | -                       | -                       | -                    | -                     | -                       | -                       | -                       | -                      | -                       | 3                     |
| H329 S WILLIAMS BEACH    | -                       | -                       | -                       | -                    | 103                   | 92                      | 163                     | 119                     | 87                     | 151                     | 93                    |
| H330 N LITTLE RIVER RF   | -                       | -                       | -                       | -                    | 153                   | 65                      | 117                     | 138                     | 103                    | 134                     | 192                   |
| H522 LITTLE RIVER RF     | -                       | -                       | -                       | -                    | -                     | -                       | -                       | -                       | -                      | 18                      | 11                    |
| H126 E CAPE LAZO RF      | 24                      | 16                      | 12                      | 65                   | 111                   | 94                      | 138                     | 111                     | 126                    | 147                     | 92                    |
| H104 COMOX HRBR          | 1                       | 7                       | 15                      | 75                   | 168                   | 169                     | 0                       | 0                       | 318                    | 241                     | 262                   |
| H102 E SEAL ITS RF       | 3                       | 6                       | 7                       | 10                   | 55                    | 44                      | 60                      | 60                      | 45                     | 28                      | 16                    |
| H414 S UNION PT          | -                       | -                       | -                       | -                    | -                     | -                       | 19                      | 26                      | 2                      | 0                       | 0                     |
| H204 S KOMAS BLUFF       | -                       | -                       | -                       | 5                    | 4                     | 12                      | 51                      | 46                      | 15                     | 19                      | 15                    |
| H103 COLLISHAW PT        | 16                      | 14                      | 32                      | 65                   | 25                    | 165                     | 126                     | 226                     | 220                    | 262                     | 144                   |
| H357 TRALEE PT           | -                       | -                       | -                       | -                    | -                     | 12                      | 0                       | 0                       | 30                     | 0                       | 0                     |
| H491 CAPE GURNEY         | -                       | -                       | -                       | -                    | -                     | -                       | -                       | 3                       | 5                      | 1                       | 0                     |
| H099 FLORA IT            | -                       | -                       | 65                      | 106                  | 164                   | 186                     | 219                     | 251                     | 505                    | 559                     | 356                   |
| H332 NASH BANK RF        | -                       | -                       | -                       | -                    | 73                    | 18                      | 0                       | 0                       | 15                     | 27                      | 0                     |
| H101 S FANNY BAY         | -                       | 3                       | 32                      | 10                   | 0                     | 14                      | 37                      | 2                       | 11                     | 43                      | 17                    |
| H490 MAUDE REEF          | -                       | -                       | -                       | -                    | -                     | -                       | -                       | -                       | 28                     | 18                      | 21                    |
| H203 E NORMAN PT         | 1                       | 0                       | 0                       | 49                   | 51                    | 77                      | 116                     | 103                     | 199                    | 123                     | 123                   |
| H470 NORRIS ROCKS        | -                       | -                       | -                       | -                    | -                     | -                       | 60                      | 136                     | 229                    | 266                     | 350                   |
| H202 E REPULSE PT        | -                       | -                       | -                       | 6                    | 4                     | 21                      | 25                      | 48                      | 67                     | 43                      | 59                    |
| H100 MUD BAY             | 2                       | 28                      | 25                      | 67                   | 17                    | 81                      | 98                      | 50                      | 51                     | 81                      | 15                    |
| H358 N QUALICUM BAY RF   | -                       | -                       | -                       | -                    | -                     | 5                       | 28                      | 2                       | 2                      | 2                       | 0                     |
| H331 S QUALICUM BAY RF   | -                       | -                       | -                       | -                    | 65                    | 57                      | 114                     | 67                      | 154                    | 126                     | 157                   |
| H093 S BALLENAS ISLS RFS | 3                       | 1                       | 10                      | 17                   | 56                    | 77                      | 88                      | 65                      | 111                    | 132                     | 107                   |
| H094 NE MISTAKEN ISL RFS | -                       | 12                      | 85                      | 94                   | 65                    | 85                      | 28                      | 173                     | 275                    | 245                     | 221                   |
| H359 COTTAM REEF         | -                       | -                       | -                       | -                    | -                     | 1                       | 7                       | 4                       | 8                      | 13                      | 0                     |
| H340 GERALD ISL          | -                       | -                       | -                       | -                    | 3                     | 19                      | 50                      | 7                       | 3                      | 51                      | 91                    |
| H339 DOUGLAS ISL         | -                       | -                       | -                       | -                    | 51                    | 34                      | 25                      | 35                      | 13                     | 0                       | 12                    |
| H092 YEO ISLS            | -                       | -                       | 59                      | 65                   | 96                    | 53                      | 73                      | 71                      | 321                    | 187                     | 187                   |
| H368 AMELIA ISL          | -                       | -                       | -                       | -                    | -                     | 11                      | 0                       | 0                       | 0                      | 0                       | 0                     |
| H091 N SCHOONER REEF     | -                       | -                       | 5                       | 0                    | 10                    | 18                      | 25                      | 12                      | 38                     | 21                      | 18                    |
| H369 WINCHELSEA ISLS     | -                       | -                       | -                       | -                    | -                     | 49                      | 10                      | 95                      | 37                     | 20                      | 173                   |
| H087 ADA ISLS            | -                       | -                       | 79                      | 120                  | 123                   | 181                     | 245                     | 38                      | 274                    | 502                     | 307                   |
| H088 SOUTHEY ISL         | 24                      | 50                      | 78                      | 67                   | 95                    | 73                      | 76                      | 70                      | 41                     | 72                      | 24                    |
| H496 N WALLIS PT RKS     | -                       | -                       | -                       | -                    | -                     | -                       | -                       | 12                      | 20                     | 8                       | 0                     |
| H089 E WALLIS PT RK      | -                       | -                       | 7                       | 0                    | 0                     | 0                       | 9                       | 0                       | 9                      | 0                       | 0                     |
| H090 MAUDE ISL           | -                       | 3                       | 35                      | 36                   | 17                    | 24                      | 18                      | 30                      | 43                     | 30                      | 2                     |

Subarea 16 (NWGULF). Panel 2 of 2 panels.

| Site Name and Number:           | 16-19<br>August<br>1974 | 10-11<br>August<br>1976 | 17-18<br>August<br>1983 | 14<br>August<br>1985 | 13-16<br>June<br>1988 | 10-24<br>August<br>1988 | 17-18<br>August<br>1990 | 27-28<br>August<br>1992 | 7-17<br>August<br>1994 | 11-13<br>August<br>1996 | 8-9<br>August<br>1998 |
|---------------------------------|-------------------------|-------------------------|-------------------------|----------------------|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|-------------------------|-----------------------|
| H341 NANOOSE BAY                | -                       | -                       | -                       | -                    | 2                     | 1                       | 0                       | 0                       | 0                      | 0                       | 0                     |
| H370 NECK PT                    | -                       | -                       | -                       | -                    | -                     | 8                       | 3                       | 0                       | 0                      | 0                       | 0                     |
| H589 HORSWELL BLUFF RF          | -                       | -                       | -                       | -                    | -                     | -                       | -                       | -                       | -                      | -                       | 13                    |
| Total number counted            | 74                      | 140                     | 546                     | 857                  | 1,511                 | 1,778                   | 2,084                   | 2,036                   | 3,449                  | 3,570                   | 3,164                 |
| Correction for unborn pups      | 1.0293                  | 1.0502                  | 1.0264                  | 1.0362               | 1.2490                | 1.0337                  | 1.0225                  | 1.0067                  | 1.0385                 | 1.0399                  | 1.0580                |
| Proportion of area covered      | 1.0000                  | 1.0000                  | 1.0000                  | 1.0000               | 0.9820                | 1.0000                  | 1.0000                  | 1.0000                  | 1.0000                 | 1.0000                  | 1.0000                |
| Adjusted count                  | 76.2                    | 147.0                   | 560.4                   | 888.0                | 1921.8                | 1837.3                  | 2131.0                  | 2049.6                  | 3581.6                 | 3712.4                  | 3347.5                |
| Estimated proportion hauled out | 0.450                   | 0.322                   | 0.509                   | 0.483                | 0.461                 | 0.560                   | 0.585                   | 0.617                   | 0.553                  | 0.558                   | 0.660                 |
| Correction for missed animals   | 2.221                   | 3.107                   | 1.965                   | 2.070                | 2.169                 | 1.785                   | 1.708                   | 1.622                   | 1.807                  | 1.793                   | 1.515                 |
| Estimated abundance             | 169                     | 457                     | 1,101                   | 1,838                | 4,168                 | 3,280                   | 3,640                   | 3,324                   | 6,472                  | 6,656                   | 5,072                 |
| Abundance adjusted to 1996-98   | -                       | -                       | -                       | -                    | -                     | -                       | -                       | -                       | -                      | 6,656                   | 5,072                 |



Subarea 17 (NEGULF). Panel 2 of 3 panels.

| Site Name and Number:         | 11-24<br>August<br>1976 | 17-19<br>August<br>1983 | 21-22<br>August<br>1987 | 13-14<br>June<br>1988 | 9-10<br>August<br>1988 | 3-20<br>August<br>1990 | 25-27<br>August<br>1992 | 5-7<br>August<br>1994 | 10-12<br>August<br>1996 | 6-8<br>August<br>1998 |
|-------------------------------|-------------------------|-------------------------|-------------------------|-----------------------|------------------------|------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| H515 S KELLY ISLAND           | -                       | -                       | -                       | -                     | -                      | -                      | -                       | 7                     | 0                       | 0                     |
| H473 SW BILLINGS BAY          | -                       | -                       | -                       | -                     | -                      | 20                     | 0                       | 17                    | 0                       | 0                     |
| H353 STRAWBERRY IT            | -                       | -                       | -                       | -                     | 14                     | 1                      | 16                      | 50                    | 42                      | 32                    |
| H326 NW HIGHLAND PT RF        | -                       | -                       | -                       | 68                    | 125                    | 117                    | 0                       | 0                     | 0                       | ns                    |
| H488 N GILES BAY              | -                       | -                       | -                       | -                     | -                      | -                      | 7                       | 0                     | 4                       | 0                     |
| H134 E CAPE COCKBURN RK       | -                       | -                       | 8                       | 0                     | 4                      | 21                     | 1                       | 0                     | 35                      | 19                    |
| H135 W QUARRY BAY RF          | -                       | 1                       | 2                       | 0                     | 0                      | 0                      | 0                       | 42                    | 0                       | 0                     |
| H205 MERMAID PT               | -                       | -                       | 7                       | 0                     | 1                      | 0                      | 0                       | 15                    | 0                       | 0                     |
| H249 S DICK ISL               | -                       | -                       | 48                      | 6                     | 39                     | 31                     | 49                      | 68                    | 69                      | 78                    |
| H472 NELSON ROCK              | -                       | -                       | -                       | -                     | -                      | 17                     | 0                       | 199                   | 0                       | 0                     |
| H131 W HODGSON ISLS           | 20                      | 79                      | 151                     | 93                    | 87                     | 100                    | 86                      | 11                    | 159                     | 95                    |
| H109 MOUAT ISLS               | 2                       | 53                      | 114                     | 136                   | 132                    | 146                    | 159                     | 267                   | 265                     | 165                   |
| H557 NARES ROCK               | -                       | -                       | -                       | -                     | -                      | -                      | -                       | -                     | 18                      | 18                    |
| H248 MW TEXADA ISL            | -                       | -                       | 4                       | 0                     | 2                      | 0                      | 4                       | 0                     | 25                      | 8                     |
| H556 S EDGECOMBE ISLAND IT    | -                       | -                       | -                       | -                     | -                      | -                      | -                       | -                     | 20                      | 0                     |
| H448 N WHITESTONE ISLS        | -                       | -                       | -                       | -                     | -                      | 19                     | 31                      | 75                    | 0                       | 15                    |
| H108 SE DAVIE BAY RFS         | -                       | 10                      | 40                      | 32                    | 25                     | 70                     | 30                      | 76                    | 93                      | 55                    |
| H487 MSW TEXADA ISL           | -                       | -                       | -                       | -                     | -                      | -                      | 8                       | 22                    | 22                      | 0                     |
| H244 SE TEXADA ISL            | -                       | -                       | 9                       | 11                    | 9                      | 72                     | 40                      | 32                    | 45                      | 10                    |
| H107 SW COOK BAY RK           | -                       | 9                       | 0                       | 24                    | 24                     | 10                     | 0                       | 24                    | 11                      | 0                     |
| H098 FEGAN ITS                | 38                      | 104                     | 155                     | 268                   | 257                    | 276                    | 129                     | 310                   | 327                     | 291                   |
| H474 PARTINGTON PT            | -                       | -                       | -                       | -                     | -                      | 40                     | 26                      | 9                     | 0                       | 0                     |
| H560 S FEGAN ITS              | -                       | -                       | -                       | -                     | -                      | -                      | -                       | -                     | 96                      | 24                    |
| H209 NW JERVIS ISL IT         | -                       | -                       | -                       | -                     | -                      | -                      | -                       | 194                   | 155                     | 352                   |
| H245 NE JERVIS ISL            | -                       | -                       | 44                      | 43                    | 86                     | 135                    | 139                     | 0                     | 0                       | 0                     |
| H105 E JERVIS ISL RF          | -                       | 65                      | 87                      | 146                   | 0                      | 143                    | 27                      | 83                    | 69                      | 58                    |
| H176 N PAUL ISL RK            | -                       | -                       | -                       | -                     | 87                     | 0                      | 0                       | 0                     | 0                       | 0                     |
| H352 DERBY PT                 | -                       | -                       | -                       | -                     | 11                     | 0                      | 31                      | 3                     | 0                       | 0                     |
| H247 FINNERTY ISLS            | -                       | -                       | 23                      | 0                     | 15                     | 16                     | 21                      | 93                    | 94                      | 70                    |
| H562 E JEDEDIAH ISLAND        | -                       | -                       | -                       | -                     | -                      | -                      | -                       | -                     | 30                      | 30                    |
| H183 SE JEDDAH PT RKS         | -                       | -                       | 19                      | 0                     | 4                      | 34                     | 17                      | 21                    | 48                      | 3                     |
| H486 SW TEXADA ISL            | -                       | -                       | -                       | -                     | -                      | -                      | 9                       | 17                    | 36                      | 6                     |
| H405 BOHO ISL                 | -                       | -                       | -                       | -                     | -                      | 3                      | 4                       | 0                     | 0                       | 0                     |
| H333 W JEDEDIAH ISL RF        | -                       | -                       | -                       | 59                    | 11                     | 2                      | 0                       | 0                     | 0                       | 0                     |
| H476 E JEDEDIAH ISL RK        | -                       | -                       | -                       | -                     | -                      | 14                     | 45                      | 41                    | 0                       | 0                     |
| H561 S BOHO BAY IT            | -                       | -                       | -                       | -                     | -                      | -                      | -                       | -                     | 5                       | 0                     |
| H512 S JEDEDIAH ISLAND        | -                       | -                       | -                       | -                     | -                      | -                      | -                       | 3                     | 0                       | 0                     |
| H251 SISTERS ITS              | -                       | -                       | 5                       | 0                     | 0                      | 44                     | 90                      | 226                   | 37                      | 258                   |
| H555 EGERTON ROCK             | -                       | -                       | -                       | -                     | -                      | -                      | -                       | -                     | 20                      | 0                     |
| H106 SHEER ISL                | -                       | 10                      | 34                      | 9                     | 32                     | 13                     | 14                      | 76                    | 40                      | 103                   |
| H130 MW SOUTH THORMANBY ISL   | -                       | 8                       | 3                       | 86                    | 45                     | 0                      | 12                      | 106                   | 38                      | 21                    |
| H513 SE BULL ISLAND RF        | -                       | -                       | -                       | -                     | -                      | -                      | -                       | 22                    | 0                       | 0                     |
| H475 NE LASQUETI ISL RK       | -                       | -                       | -                       | -                     | -                      | 7                      | -                       | 13                    | 0                       | 0                     |
| H511 S BULL ISLAND IT         | -                       | -                       | -                       | -                     | -                      | -                      | -                       | 3                     | 0                       | 0                     |
| H510 S RABBIT ISLAND          | -                       | -                       | -                       | -                     | -                      | -                      | -                       | 5                     | 23                      | 0                     |
| H355 HEATH IT                 | -                       | -                       | -                       | -                     | 3                      | 0                      | 0                       | 0                     | 0                       | 0                     |
| H215 ME SOUTH THORMANBY ISL   | -                       | -                       | 0                       | 37                    | 20                     | 26                     | 0                       | 21                    | 4                       | 19                    |
| H479 SW LASQUETI ISL          | -                       | -                       | -                       | -                     | -                      | 2                      | 6                       | 0                     | 0                       | 0                     |
| H129 SW SOUTH THORMANBY ISL   | 1                       | 31                      | 31                      | -                     | 15                     | 12                     | 50                      | 12                    | 136                     | 97                    |
| H447 S SOUTH THORMANBY ISL RF | -                       | -                       | -                       | -                     | -                      | 53                     | 0                       | 23                    | 0                       | 0                     |
| H160 MERRY ISL                | -                       | -                       | 12                      | 2                     | 27                     | 33                     | 157                     | 59                    | 111                     | 72                    |
| H325 PIRATE ROCK              | -                       | -                       | -                       | 12                    | 13                     | 35                     | 0                       | 23                    | 53                      | 52                    |

Subarea 17 (NEGULF). Panel 3 of 3 panels.

| Site Name and Number:                  | 11-24<br>August<br>1976 | 17-19<br>August<br>1983 | 21-22<br>August<br>1987 | 13-14<br>June<br>1988 | 9-10<br>August<br>1988 | 3-20<br>August<br>1990 | 25-27<br>August<br>1992 | 5-7<br>August<br>1994 | 10-12<br>August<br>1996 | 6-8<br>August<br>1998 |
|--|-------------------------|-------------------------|-------------------------|-----------------------|------------------------|------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| H406 E LASQUETI RK                     | -                       | -                       | -                       | -                     | -                      | 0                      | 0                       | 0                     | 12                      | 47                    |
| H351 BERTHA ISL                        | -                       | -                       | -                       | -                     | 4                      | 28                     | 22                      | 5                     | 57                      | 0                     |
| H096 BOAT COVE RFS                     | -                       | 16                      | 53                      | 111                   | 85                     | 0                      | 23                      | 2                     | 2                       | 0                     |
| H136 W TRAIL ISLS                      | 3                       | 1                       | 105                     | 2                     | 27                     | 93                     | 126                     | 14                    | 174                     | 126                   |
| H154 M TRAIL ISLS                      | -                       | -                       | 15                      | 62                    | -                      | 18                     | 43                      | 32                    | 1                       | 24                    |
| H477 SE BOAT COVE RK                   | -                       | -                       | -                       | -                     | -                      | 35                     | 0                       | 48                    | 0                       | 18                    |
| H514 E TRAIL ISLANDS                   | -                       | -                       | -                       | -                     | -                      | -                      | -                       | 7                     | 0                       | 0                     |
| H097 SEA EGG ROCKS                     | -                       | 7                       | 33                      | 43                    | 64                     | 77                     | 171                     | 161                   | 126                     | 126                   |
| H485 SE LASQUETI ISL                   | -                       | -                       | -                       | -                     | -                      | -                      | 4                       | 0                     | 0                       | 0                     |
| H509 SW JENKINS ISLAND                 | -                       | -                       | -                       | -                     | -                      | -                      | -                       | 8                     | 5                       | 28                    |
| H478 E JENKINS ISL RK                  | -                       | -                       | -                       | -                     | -                      | 15                     | 14                      | 72                    | 38                      | 46                    |
| H246 E YOUNG PT RK                     | -                       | -                       | 15                      | 1                     | 0                      | 14                     | 0                       | 1                     | 20                      | 0                     |
| H328 SEAL REEF                         | -                       | -                       | -                       | 4                     | 21                     | 0                      | 17                      | 111                   | 0                       | 196                   |
| H095 SANGSTER ISL                      | -                       | 37                      | 54                      | 36                    | 61                     | 86                     | 240                     | 299                   | 288                     | 191                   |
| H153 WHITE ITS                         | -                       | -                       | 16                      | 0                     | 0                      | 7                      | 102                     | 49                    | 67                      | 119                   |
| <b>Total number counted</b>            | <b>354</b>              | <b>1,310</b>            | <b>2,534</b>            | <b>2,969</b>          | <b>3,353</b>           | <b>4,120</b>           | <b>4,242</b>            | <b>6,271</b>          | <b>5,734</b>            | <b>5,696</b>          |
| <b>Correction for unborn pups</b>      | <b>1.0187</b>           | <b>1.0238</b>           | <b>1.0163</b>           | <b>1.2490</b>         | <b>1.0539</b>          | <b>1.0243</b>          | <b>1.0086</b>           | <b>1.0662</b>         | <b>1.0461</b>           | <b>1.0670</b>         |
| <b>Proportion of area covered</b>      | <b>0.9814</b>           | <b>0.9861</b>           | <b>0.9812</b>           | <b>1.0002</b>         | <b>1.0151</b>          | <b>0.9773</b>          | <b>0.9773</b>           | <b>0.9812</b>         | <b>0.8406</b>           | <b>0.9812</b>         |
| <b>Adjusted count</b>                  | <b>367.4</b>            | <b>1360.1</b>           | <b>2624.8</b>           | <b>3707.5</b>         | <b>3481.3</b>          | <b>4318.0</b>          | <b>4377.9</b>           | <b>6814.3</b>         | <b>7136.0</b>           | <b>6194.2</b>         |
| <b>Estimated proportion hauled out</b> | <b>0.573</b>            | <b>0.606</b>            | <b>0.653</b>            | <b>0.588</b>          | <b>0.646</b>           | <b>0.644</b>           | <b>0.629</b>            | <b>0.644</b>          | <b>0.637</b>            | <b>0.656</b>          |
| <b>Correction for missed animals</b>   | <b>1.746</b>            | <b>1.650</b>            | <b>1.531</b>            | <b>1.700</b>          | <b>1.547</b>           | <b>1.554</b>           | <b>1.591</b>            | <b>1.552</b>          | <b>1.569</b>            | <b>1.524</b>          |
| <b>Estimated abundance</b>             | <b>642</b>              | <b>2,244</b>            | <b>4,019</b>            | <b>6,303</b>          | <b>5,386</b>           | <b>6,710</b>           | <b>6,965</b>            | <b>10,576</b>         | <b>11,196</b>           | <b>9,442</b>          |
| <b>Abundance adjusted to 1996-98</b>   | <b>-</b>                | <b>-</b>                | <b>-</b>                | <b>-</b>              | <b>-</b>               | <b>-</b>               | <b>-</b>                | <b>-</b>              | <b>11,196</b>           | <b>9,442</b>          |

Subarea 21 (SWWANISL).

| Site Name and Number:           | 12-25 August 1976 | 29 August 1987 |
|---------------------------------|-------------------|----------------|
| H278 S DEADMAN COVE RK          | -                 | 35             |
| H192 SEABIRD ROCKS              | 29                | 133            |
| H277 E PACHENA PT               | -                 | 23             |
| H276 W TSUQUANAH PT             | -                 | 12             |
| H207 W DARE PT RF               | 1                 | 11             |
| H194 BONILLA PT                 | 40                | 107            |
| H275 OWEN PT                    | -                 | 34             |
| H193 N SOMBRIO PT               | 4                 | 46             |
| H274 E SAN SIMON PT RF          | -                 | 2              |
| H208 SOOKE HRBR                 | 2                 | 1              |
| H273 MUIR PT                    | -                 | 2              |
| H211 OTTER PT                   | 1                 | 0              |
| H272 SW FRAZER ISL RK           | -                 | 30             |
| H271 SOUTH BEDFORD ISL          | -                 | 8              |
| Total number counted            | 77                | 444            |
| Correction for unborn pups      | 1.0111            | 1.0056         |
| Proportion of area covered      | 1.0000            | 1.0000         |
| Adjusted count                  | 77.9              | 446.5          |
| Estimated proportion hauled out | 0.615             | 0.615          |
| Correction for missed animals   | 1.626             | 1.626          |
| Estimated abundance             | 127               | 726            |
| Abundance adjusted to 1996-98   | -                 | 1,044          |

Subarea 22 (BARKLYSD).

| Site Name and Number:           | 25 August 1976 | 28-29 August 1987 |
|---------------------------------|----------------|-------------------|
| H260 MILHUS ROCK                | -              | 18                |
| H259 NE LINK ISL RK             | -              | 6                 |
| H270 NE BRYANT ISLS             | -              | 16                |
| H189 BAERIA ROCKS               | 15             | 19                |
| H258 MEADE ITS                  | -              | 58                |
| H266 NW ELBOW IT RKS            | -              | 18                |
| H265 FABER ITS                  | -              | 4                 |
| H268 GREAT BEAR ROCK            | -              | 72                |
| H269 STARLIGHT REEF             | -              | 89                |
| H191 NW WOUWER ISL RFS          | 13             | 0                 |
| H261 WIZARD IT                  | -              | 13                |
| H190 S HOWELL ISL               | 5              | 8                 |
| H267 SE CREE ISL                | -              | 47                |
| H263 N LEACH IT RK              | -              | 21                |
| H264 N FOLGER ISL               | -              | 19                |
| H262 BORDELAIS ITS              | -              | 41                |
| H279 NW CAPE BEALE RK           | -              | 9                 |
| Total number counted            | 33             | 458               |
| Correction for unborn pups      | 1.0087         | 1.0066            |
| Proportion of area covered      | 1.0000         | 1.0000            |
| Adjusted count                  | 33.3           | 461.0             |
| Estimated proportion hauled out | 0.615          | 0.615             |
| Correction for missed animals   | 1.626          | 1.626             |
| Estimated abundance             | 54             | 750               |
| Abundance adjusted to 1996-98   | -              | 1,077             |

Subarea 23 (MWVANISL).

| Site Name and Number:           | 26 July 1994 |
|---------------------------------|--------------|
| H659 W FLORES ISL REEFS         | 14           |
| H632 HIGH RKS                   | 139          |
| H631 SW CATALA ISL ISLET        | 3            |
| H630 W TWIN ISL REEF            | 3            |
| H629 NE FERRER PT REEF          | 2            |
| H658 N RAFAEL PT REEF           | 33           |
| H657 SE SIWISH COVE REEF        | 31           |
| H644 MALTBY ITS                 | 23           |
| H655 TIBBS IT                   | 13           |
| H656 W BARTLETT ISL REEFS       | 21           |
| H643 BLACKBERRY ITS             | 3            |
| H650 SE HANSEN ISL REEF         | 51           |
| H651 N LAGOON ISL REEF          | 15           |
| H646 S CORNING PT REEF          | 4            |
| H642 DARK ISL                   | 51           |
| H647 W MCCAW PENINSULA REEF     | 43           |
| H648 RANKIN RKS                 | 42           |
| H654 S CLELAND ISL              | 40           |
| H649 GUNNER INLET REEF          | 36           |
| H653 LACROIX GROUP              | 42           |
| H652 NW WILF RK REEF            | 7            |
| H645 BROWNING PASS REEF         | 9            |
| H641 SW LENNARD ISL REEF        | 38           |
| Total number counted            | 663          |
| Correction for unborn pups      | 1.1385       |
| Proportion of area covered      | 1.0000       |
| Adjusted count                  | 754.8        |
| Estimated proportion hauled out | 0.615        |
| Correction for missed animals   | 1.626        |
| Estimated abundance             | 1,227        |
| Abundance adjusted to 1996-98   | 1,228        |



Subarea 24 (NWWANISL), Panel 1 of 2 panels

| Site Name and Number:          | 19-20<br>August<br>1993 | 13-16<br>August<br>1995 | 3<br>August<br>1996 |
|--------------------------------|-------------------------|-------------------------|---------------------|
| H685 W SHUTTLEWORTH BIGHT REEF | ns                      | ns                      | 16                  |
| H681 NE LANZ ISL               | ns                      | ns                      | 11                  |
| H680 W LANZ ISL                | ns                      | ns                      | 36                  |
| H683 N COX ISL                 | ns                      | ns                      | 19                  |
| H682 NW COX ISL                | ns                      | ns                      | 3                   |
| H684 NE COX ISL                | ns                      | ns                      | 11                  |
| H679 SW COX ISL                | ns                      | ns                      | 5                   |
| H678 WINIFRED ISL              | ns                      | ns                      | 45                  |
| H677 SAN JOSEPH BAY REEF       | ns                      | ns                      | 12                  |
| H676 NW CAPE PALMERSTON        | ns                      | ns                      | 7                   |
| H673 STRAGGLING ISLS           | ns                      | ns                      | 45                  |
| H675 SE TOPKNOT PT REEF        | ns                      | ns                      | 15                  |
| H688 FARMER ITS                | ns                      | 6                       | 11                  |
| H672 KULTUS COVE REEFS         | ns                      | 15                      | 31                  |
| H686 PINNACLE ISL              | ns                      | ns                      | 13                  |
| H687 N GILLAM ISLS             | ns                      | 36                      | ns                  |
| H674 NW CAPE PARKINS REEF      | ns                      | ns                      | 32                  |
| H670 S GILLAM ISLS             | ns                      | 38                      | ns                  |
| H669 NE ROWLEY RFS             | ns                      | 34                      | ns                  |
| H668 RESTLESS BIGHT REEF       | ns                      | 15                      | ns                  |
| H667 S KWAKIUTL PT REEF        | ns                      | 131                     | ns                  |
| H666 LAWN PT                   | ns                      | 24                      | ns                  |
| H665 RUGGED ISLS               | ns                      | 12                      | ns                  |
| H664 CLERKE RFS                | ns                      | 12                      | ns                  |
| H663 NE CAPE COOK REEF         | ns                      | 9                       | ns                  |
| H582 NW TASHISH INLET REEF     | 8                       | ns                      | ns                  |
| H661 SW JACKOBSON PT REEF      | ns                      | 2                       | ns                  |
| H660 SE O'LEARY ITS REEF       | ns                      | 25                      | ns                  |

Subarea 24 (NWWANISL), Panel 2 of 2 panels.

| Site Name and Number:           | 19-20<br>August<br>1993 | 13-16<br>August<br>1995 | 3<br>August<br>1996 |
|---------------------------------|-------------------------|-------------------------|---------------------|
| H662 W CLERKE PT REEF           | ns                      | 7                       | ns                  |
| H416 GULL IT                    | 62                      | 31                      | ns                  |
| H583 WARREN RK                  | 4                       | ns                      | ns                  |
| H638 S CLARA IT REEF            | 16                      | 0                       | ns                  |
| H639 E THOMAS ISL REEF          | 1                       | 4                       | ns                  |
| H640 COLE RK                    | 18                      | 17                      | ns                  |
| H587 NW LOOKOUT ISL ISLET       | 36                      | 14                      | ns                  |
| H586 SW SPRING ISL REEF         | 3                       | 4                       | ns                  |
| H584 N MOOS IT                  | 16                      | ns                      | ns                  |
| H637 THORNTON ISLS              | 5                       | ns                      | ns                  |
| H585 MUNSIE RKS                 | 45                      | ns                      | ns                  |
| H636 GRASSY ISLS                | 179                     | ns                      | ns                  |
| H635 MCQUARRIE ITS              | 130                     | ns                      | ns                  |
| H634 TATCHU RKS                 | 18                      | ns                      | ns                  |
| H633 JURASSIC PT REEF           | 62                      | ns                      | ns                  |
| Total number counted            | 602                     | 436                     | 312                 |
| Correction for unborn pups      | 1.0188                  | 1.0362                  | 1.0833              |
| Proportion of area covered      | 0.3769                  | 0.3917                  | 0.2581              |
| Adjusted count                  | 1626.1                  | 1153.5                  | 1309.8              |
| Estimated proportion hauled out | 0.615                   | 0.615                   | 0.615               |
| Correction for missed animals   | 1.626                   | 1.626                   | 1.626               |
| Estimated abundance             | 2,644                   | 1,876                   | 2,130               |
| Abundance adjusted to 1996-98   | 2,652                   | 1,876                   | 2,130               |

Subarea 31 (SWQCSTR).

| Site Name and Number:                  |                       | 29<br>August<br>1988 | 23-24<br>July<br>1989 |
|--|-----------------------|----------------------|-----------------------|
| H706                                   | NW STORM ISLS         | ns                   | 30                    |
| H703                                   | NAIAD ITS             | ns                   | 24                    |
| H705                                   | NE STORM ISLS         | ns                   | 15                    |
| H704                                   | REID ITS              | ns                   | 12                    |
| H404                                   | TREE ITS              | 24                   | 40                    |
| H700                                   | ASHBY/SECRETARY PTS   | -                    | 8                     |
| H707                                   | BUCKLE GRP            | -                    | 5                     |
| H400                                   | RAGGED ROCK           | 20                   | 0                     |
| H701                                   | PLOVER/RASON ISLS     | -                    | 18                    |
| H395                                   | NICHOLAS ISLS         | 112                  | 82                    |
| H214                                   | NE TOMMY PT RF        | 4                    | 15                    |
| H398                                   | N HEDLEY ISLS RK      | 23                   | 12                    |
| H690                                   | MILLAR GROUP          | ns                   | 50                    |
| H702                                   | SE MEXICANA PT        | -                    | 4                     |
| H397                                   | JANE ROCK             | 5                    | 2                     |
| H399                                   | SE HEDLEY ISLS RK     | 7                    | 0                     |
| H396                                   | SUSSEX REEFS          | 43                   | 41                    |
| H401                                   | N MCLEOD ISL          | 17                   | 3                     |
| H689                                   | MARY RK               | ns                   | 11                    |
| H692                                   | E DESERTERS ISL       | -                    | 10                    |
| H391                                   | CARDIGAN ROCKS        | 11                   | 2                     |
| H403                                   | S WISHART ISL RK      | 20                   | 8                     |
| H402                                   | S ECHO ISLS RF        | 19                   | 3                     |
| H691                                   | NW CASTLE PT          | -                    | 3                     |
| H393                                   | N HUSSAR PT RF        | 12                   | 0                     |
| H394                                   | S LOQUILLILLA COVE RK | 1                    | 8                     |
| H390                                   | W BALAKLAVA ISL RKS   | 2                    | 0                     |
| H699                                   | BOYLE ISL             | -                    | 13                    |
| H392                                   | JEROME ISL            | 4                    | 0                     |
| H389                                   | S DUNCAN ISL          | 27                   | 0                     |
| H388                                   | ROUND ISL             | 30                   | 5                     |
| H671                                   | NW DEER ISL ROCKS     | -                    | 34                    |
| H387                                   | N FALSE HD            | 11                   | 65                    |
| H386                                   | SINGLE TREE PT RFS    | 67                   | 75                    |
| <b>Total number counted</b>            |                       | <b>459</b>           | <b>598</b>            |
| <b>Correction for unborn pups</b>      |                       | <b>1.0056</b>        | <b>1.0882</b>         |
| <b>Proportion of area covered</b>      |                       | <b>0.7625</b>        | <b>1.0000</b>         |
| <b>Adjusted count</b>                  |                       | <b>605.3</b>         | <b>650.8</b>          |
| <b>Estimated proportion hauled out</b> |                       | <b>0.615</b>         | <b>0.615</b>          |
| <b>Correction for missed animals</b>   |                       | <b>1.626</b>         | <b>1.626</b>          |
| <b>Estimated abundance</b>             |                       | <b>984</b>           | <b>1,058</b>          |
| <b>Abundance adjusted to 1996-98</b>   |                       | <b>1,260</b>         | <b>1,228</b>          |

Subarea 32 (NEQCSTR).

| Site Name and Number:                  |                        | 23-24<br>July<br>1989 | 4<br>August<br>1996 |
|--|------------------------|-----------------------|---------------------|
| H693                                   | SE NANKIVELL ISL REEF  | 25                    | ns                  |
| H694                                   | NW RAYNOR GRP REEF     | 35                    | ns                  |
| H695                                   | SE RAYNOR GRP REEF     | 46                    | ns                  |
| H698                                   | W NUMAS ISLS REEFS     | 41                    | ns                  |
| H697                                   | N NUMAS ISLS REEF      | 9                     | ns                  |
| H696                                   | SE NUMAS ISLS REEF     | 9                     | ns                  |
| H716                                   | FOSTER ISL             | 76                    | 89                  |
| H385                                   | PENFOLD IT             | 4                     | 46                  |
| H726                                   | HOLFORD ITS            | 29                    | 91                  |
| H741                                   | S MALCOLM ISL REEFS    | 2                     | ns                  |
| H708                                   | W PEARSE ISL REEFS     | 3                     | ns                  |
| H709                                   | NW STEPHENSON IT REEFS | 3                     | ns                  |
| H711                                   | NE WEYNTON ISL         | 7                     | ns                  |
| H710                                   | STEPHENSON IT          | 22                    | ns                  |
| H407                                   | NIMPKISH BANK          | 17                    | ns                  |
| <b>Total number counted</b>            |                        | <b>328</b>            | <b>226</b>          |
| <b>Correction for unborn pups</b>      |                        | <b>1.1555</b>         | <b>1.0777</b>       |
| <b>Proportion of area covered</b>      |                        | <b>1.0000</b>         | <b>0.3323</b>       |
| <b>Adjusted count</b>                  |                        | <b>379.0</b>          | <b>733.0</b>        |
| <b>Estimated proportion hauled out</b> |                        | <b>0.615</b>          | <b>0.615</b>        |
| <b>Correction for missed animals</b>   |                        | <b>1.626</b>          | <b>1.626</b>        |
| <b>Estimated abundance</b>             |                        | <b>616</b>            | <b>1,192</b>        |
| <b>Abundance adjusted to 1996-98</b>   |                        | <b>715</b>            | <b>1,192</b>        |

Subarea 33 (BROUGHT).

| Site Name and Number:                  |                        | 23-24<br>July<br>1989 | 4<br>August<br>1996 |
|--|------------------------|-----------------------|---------------------|
| H722                                   | FOX GRP                | 27                    | 31                  |
| H739                                   | SOLITARY IT            | -                     | 17                  |
| H740                                   | HUSTON IT              | -                     | 6                   |
| H725                                   | COACH ITS              | 9                     | 43                  |
| H724                                   | FOG ITS                | 56                    | 0                   |
| H723                                   | TRAP RK                | 11                    | 8                   |
| H736                                   | N LEDGE RK             | -                     | 9                   |
| H735                                   | SW SEDGE ISLS          | -                     | 27                  |
| H737                                   | S SEABREEZE ISL        | -                     | 6                   |
| H731                                   | GREEN RK               | -                     | 6                   |
| H719                                   | CANOE ITS              | 26                    | 8                   |
| H718                                   | W CEDAR ISL ISLETS     | 5                     | 0                   |
| H738                                   | NE MIDSUMMER ISL REEFS | -                     | 1                   |
| H717                                   | FIRE ISL               | 2                     | 3                   |
| H733                                   | WHITE CLIFF ITS        | -                     | 28                  |
| H721                                   | RIDGE RKS              | 66                    | 6                   |
| H734                                   | WHALE RK               | -                     | 3                   |
| H732                                   | PASSAGE IT             | -                     | 23                  |
| H720                                   | S RIDGE ITS            | 10                    | 36                  |
| H384                                   | SURGE ISLS             | 25                    | 0                   |
| H713                                   | PERING ITS             | 4                     | 9                   |
| H714                                   | N TWIST ISL            | 28                    | 0                   |
| H715                                   | PUZZLE/MIST ISLS       | 25                    | 0                   |
| H712                                   | NW ALDER ISL REEF      | 2                     | 0                   |
| H728                                   | NEGRO RK               | ns                    | 33                  |
| H727                                   | E MOUND ISL REEF       | -                     | 2                   |
| H730                                   | NW PARSON ISL REEF     | ns                    | 30                  |
| H729                                   | BELL RKS               | ns                    | 45                  |
| <b>Total number counted</b>            |                        | <b>296</b>            | <b>380</b>          |
| <b>Correction for unborn pups</b>      |                        | <b>1.1555</b>         | <b>1.0777</b>       |
| <b>Proportion of area covered</b>      |                        | <b>0.7158</b>         | <b>1.0000</b>       |
| <b>Adjusted count</b>                  |                        | <b>477.8</b>          | <b>409.5</b>        |
| <b>Estimated proportion hauled out</b> |                        | <b>0.615</b>          | <b>0.615</b>        |
| <b>Correction for missed animals</b>   |                        | <b>1.626</b>          | <b>1.626</b>        |
| <b>Estimated abundance</b>             |                        | <b>777</b>            | <b>666</b>          |
| <b>Abundance adjusted to 1996-98</b>   |                        | <b>901</b>            | <b>666</b>          |

## Subarea 61 (SKEENAR).

| Site Name and Number                   | 15 June<br>1977 | 16 June<br>1977 | 13 June<br>1983 | 14 June<br>1983 | 14 June<br>1987 | 15 June<br>1987 | 4<br>July<br>1993 | 11<br>July<br>1998 | 12<br>July<br>1998 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|--------------------|--------------------|
| H256 W TUGWELL ISL RF                  | -               | -               | -               | -               | -               | 4               | 25                | 0                  | 12                 |
| H255 PIKE ISL                          | -               | -               | -               | -               | -               | 17              | 8                 | 5                  | 0                  |
| H443 STRAITH PT                        | -               | -               | -               | -               | -               | -               | 3                 | 0                  | 24                 |
| H566 LUCY ISL                          | ns              | ns              | ns              | ns              | ns              | ns              | ns                | 149                | 147                |
| H442 CRIDGE ISL                        | -               | -               | -               | -               | -               | -               | 55                | 0                  | 31                 |
| H151 SOUTH MORSE BASIN ROCK            | -               | -               | -               | 28              | 34              | 53              | 65                | 40                 | 44                 |
| H441 SNIDER ROCK                       | -               | -               | -               | -               | -               | -               | 11                | 43                 | 18                 |
| H197 N MARTINI ISL RF                  | -               | 4               | 0               | 0               | 0               | 0               | 3                 | 0                  | 0                  |
| H570 SPIRE ISL                         | -               | -               | -               | -               | -               | -               | -                 | -                  | 6                  |
| H440 S MILLER PT RK                    | -               | -               | -               | -               | -               | -               | 27                | 0                  | 10                 |
| H254 W LIMA PT                         | -               | -               | -               | -               | -               | 8               | -                 | 1                  | 0                  |
| H143 E ABERDEEN PT BAR                 | -               | 5               | 28              | 26              | 40              | 36              | 0                 | 0                  | 0                  |
| H144 E WINDSOR PT BAR                  | 0               | 98              | 254             | 233             | 278             | 363             | 158               | 0                  | 0                  |
| H569 SW KWINITSA PT                    | -               | -               | -               | -               | -               | -               | -                 | 35                 | 69                 |
| H567 RACHEL ISLS                       | ns              | ns              | ns              | ns              | ns              | ns              | ns                | 43                 | 51                 |
| H150 E AYTON ISL BAR                   | -               | -               | -               | 6               | 0               | 10              | 0                 | 0                  | 0                  |
| H444 SW KINAHAN ISLS                   | -               | -               | -               | -               | -               | -               | 17                | 15                 | 27                 |
| H145 W AYTON ISL BAR                   | 74              | 6               | 9               | 0               | 7               | 0               | -                 | 225                | 193                |
| H198 E CARNATION ISL BAR               | -               | 22              | 6               | 1               | 1               | 0               | 147               | 0                  | 0                  |
| H568 GREENTOP IT                       | -               | -               | -               | -               | -               | -               | -                 | 7                  | 55                 |
| H142 RASPBERRY ISLS                    | 15              | 42              | 5               | 0               | 13              | 17              | 0                 | 0                  | 0                  |
| H146 ECSTALL ISL                       | -               | -               | 30              | 13              | 84              | 92              | 83                | 71                 | 129                |
| H149 N MCDONALD CRK BAR                | 2               | 0               | 20              | 28              | 13              | 0               | 0                 | 0                  | 0                  |
| H141 ROBERTSON BANKS BAR               | 4               | 0               | 2               | 7               | 0               | 0               | 2                 | 0                  | 0                  |
| H147 W MCDONALD CRK BAR                | -               | -               | 5               | 2               | 0               | 0               | 10                | 0                  | 0                  |
| H140 E DE HORSEY ISL BAR               | 46              | 56              | 6               | 55              | 0               | 60              | 28                | 1                  | 0                  |
| H138 N GENN ISLS                       | 2               | 0               | 0               | 9               | 0               | 0               | 1                 | 6                  | 6                  |
| H137 LITTLE GENN ISL                   | 0               | 0               | 0               | 5               | 0               | 0               | 13                | 12                 | 0                  |
| H139 BASE SAND BAR                     | 139             | 168             | 147             | 255             | 543             | 442             | 315               | 404                | 382                |
| H210 ECSTALL RIVER ISL                 | -               | -               | 2               | 0               | 0               | 42              | -                 | 0                  | 0                  |
| H148 ECSTALL SEAL BAR                  | 0               | 1               | 49              | 37              | 44              | 15              | 83                | 41                 | 37                 |
| H572 NW MARRACK ISL                    | -               | -               | -               | -               | -               | -               | -                 | -                  | 7                  |
| H257 CECIL PT                          | -               | -               | -               | -               | -               | 24              | 134               | 80                 | 118                |
| H571 SW BEDFORD ISL                    | -               | -               | -               | -               | -               | -               | -                 | -                  | 20                 |
| H195 S LAMB ISL RK                     | -               | 15              | 0               | 0               | 0               | 0               | 59                | 0                  | 0                  |
| H196 E GIBSON ISL RK                   | 0               | 3               | 0               | 0               | 0               | 0               | 0                 | 0                  | 0                  |
| <b>Total number counted</b>            | <b>282</b>      | <b>420</b>      | <b>563</b>      | <b>705</b>      | <b>1,057</b>    | <b>1,183</b>    | <b>1,247</b>      | <b>1,178</b>       | <b>1,386</b>       |
| <b>Correction for unborn pups</b>      | <b>1.0941</b>   | <b>1.0882</b>   | <b>1.1063</b>   | <b>1.1002</b>   | <b>1.1002</b>   | <b>1.0940</b>   | <b>1.0164</b>     | <b>1.0064</b>      | <b>1.0055</b>      |
| <b>Proportion of area covered</b>      | <b>0.9100</b>   | <b>0.9600</b>   | <b>0.9600</b>   | <b>1.0000</b>   | <b>0.9554</b>   | <b>1.0000</b>   | <b>1.0000</b>     | <b>1.1947</b>      | <b>1.1667</b>      |
| <b>Adjusted count</b>                  | <b>339.1</b>    | <b>476.1</b>    | <b>648.8</b>    | <b>775.6</b>    | <b>1217.2</b>   | <b>1294.2</b>   | <b>1267.4</b>     | <b>992.3</b>       | <b>1194.5</b>      |
| <b>Estimated proportion hauled out</b> | <b>0.615</b>    | <b>0.615</b>    | <b>0.615</b>    | <b>0.615</b>    | <b>0.615</b>    | <b>0.615</b>    | <b>0.615</b>      | <b>0.615</b>       | <b>0.615</b>       |
| <b>Correction for missed animals</b>   | <b>1.626</b>    | <b>1.626</b>    | <b>1.626</b>    | <b>1.626</b>    | <b>1.626</b>    | <b>1.626</b>    | <b>1.626</b>      | <b>1.626</b>       | <b>1.626</b>       |
| <b>Estimated abundance</b>             | <b>551</b>      | <b>774</b>      | <b>1,055</b>    | <b>1,261</b>    | <b>1,979</b>    | <b>2,104</b>    | <b>2,061</b>      | <b>1,614</b>       | <b>1,942</b>       |
| <b>Abundance adjusted to 1996-98</b>   | <b>-</b>        | <b>-</b>        | <b>-</b>        | <b>-</b>        | <b>-</b>        | <b>-</b>        | <b>-</b>          | <b>1,614</b>       | <b>1,942</b>       |

Subarea 71 (SEQCI). Panel 1 of 2 panels.

| Site Name and Number:    | 22-24 July 1986 | 1-4 July 1992 | 30 July 1 Aug 1992 | 11-13 July 1994 |
|--------------------------|-----------------|---------------|--------------------|-----------------|
| H417 GILLATT ISL         | -               | 15            | ns                 | ns              |
| H295 NW DUVAL ROCK RKS   | 12              | 0             | ns                 | ns              |
| H296 CUMSHEWA ISL        | 234             | 27            | ns                 | ns              |
| H297 KINGUI ISL          | 77              | 156           | ns                 | ns              |
| H418 CUMSHEWA ROCKS      | -               | 114           | ns                 | ns              |
| H419 S SKEDANS PT RK     | -               | 19            | ns                 | ns              |
| H298 SKEDANS ISLS        | 15              | 59            | ns                 | ns              |
| H420 LOW ISL             | -               | 33            | ns                 | ns              |
| H299 SOUTH LOW ISL       | 48              | 47            | ns                 | ns              |
| H422 N NELSON PT RF      | -               | 11            | ns                 | ns              |
| H424 SEWELL INLET RF     | -               | 16            | ns                 | ns              |
| H421 E REEF ISL RKS      | -               | 51            | ns                 | ns              |
| H423 SW ALFRED PT RK     | -               | 83            | ns                 | ns              |
| H300 PROCTER ROCKS       | 13              | 13            | ns                 | ns              |
| H425 DWIGHT ROCK         | -               | 51            | ns                 | ns              |
| H432 E LOST ISLS         | -               | 0             | 74                 | ns              |
| H430 FLOWER POT ISL      | -               | 0             | 30                 | ns              |
| H302 NOB ROCK            | 12              | 32            | 34                 | ns              |
| H301 MN TANU ISL RK      | 35              | 21            | 2                  | ns              |
| H431 W KUNGA ISL RF      | -               | 7             | 0                  | ns              |
| H429 S STALKUNGI COVE RF | -               | 14            | 0                  | ns              |
| H433 KUL ROCKS           | -               | 0             | 23                 | ns              |
| H303 STANSUNG ITS        | 35              | 71            | 88                 | ns              |
| H308 N SHUTTLE ISL RF    | 91              | 44            | 19                 | ns              |
| H435 TAR ISLS            | -               | 37            | 76                 | ns              |
| H428 TOPPING ISLS        | -               | 85            | 51                 | ns              |
| H427 S HOYA PASSAGE RK   | -               | 1             | 0                  | ns              |
| H426 S SHUTTLE ISL       | -               | 22            | 0                  | ns              |
| H434 AGGLOMERATE ISL     | -               | 0             | 47                 | ns              |
| H304 E MURCHISON ISL     | 33              | 14            | 0                  | ns              |
| H307 BISCHOF ISLS        | 14              | ns            | 0                  | ns              |
| H436 RAMSAY ROCKS        | -               | 22            | 79                 | ns              |
| H305 S YADUS PT RF       | 30              | 75            | 0                  | ns              |
| H306 TATSUNG ROCK        | 40              | 26            | 261                | ns              |

Subarea 71 (SEQCI). Panel 2 of 2 panels.

| Site Name and Number:           | 22-24 July 1986 | 1-4 July 1992 | 30 July 1 Aug 1992 | 11-13 July 1994 |
|---------------------------------|-----------------|---------------|--------------------|-----------------|
| H437 E DE LA BECHE INLET RK     | -               | ns            | 7                  | ns              |
| H438 HOSKINS ITS                | -               | ns            | 16                 | ns              |
| H309 MARCO ROCK                 | 41              | ns            | 37                 | ns              |
| H595 NW HUXLEY ISL REEF         | -               | ns            | -                  | 18              |
| H311 N ALDER ISL RK             | 4               | ns            | 0                  | 19              |
| H596 E HUXLEY ISL REEF          | -               | ns            | -                  | 3               |
| H597 SAW RF                     | -               | ns            | -                  | 62              |
| H310 SELS IT                    | 69              | ns            | 11                 | 39              |
| H601 N KAT ISL REEF             | -               | ns            | -                  | 14              |
| H598 HOWAY ISL                  | -               | ns            | -                  | 53              |
| H439 S SKAAT HRBR RK            | -               | ns            | 68                 | 17              |
| H312 E EAST COPPER ISL RFS      | 25              | ns            | 0                  | 69              |
| H605 S SKINCUTTLE ISL REEF      | -               | ns            | -                  | 145             |
| H599 S PELICAN PT REEF          | -               | ns            | -                  | 4               |
| H313 JOYCE ROCKS                | 67              | ns            | 0                  | 121             |
| H600 E SWAN ISL REEF            | -               | ns            | ns                 | 14              |
| H602 SE GEORGE BAY REEF         | -               | ns            | ns                 | 40              |
| H603 N BOULDER ISL REEF         | -               | ns            | ns                 | 61              |
| H607 E RANKINE ISL              | -               | ns            | ns                 | 32              |
| H604 HUSTON INLET REEF          | -               | ns            | ns                 | 14              |
| H606 SAMUEL RK                  | -               | ns            | ns                 | 20              |
| H314 N HANCOCK PT               | 68              | ns            | ns                 | 0               |
| Total number counted            | 963             | 1,166         | 923                | 745             |
| Correction for unborn pups      | 1,0009          | 1,0208        | 1,0000             | 1,0064          |
| Proportion of area covered      | 1,0000          | 0,8179        | 0,5222             | 0,3481          |
| Adjusted count                  | 963.8           | 1455.2        | 1767.5             | 2154.1          |
| Estimated proportion hauled out | 0.615           | 0.615         | 0.615              | 0.615           |
| Correction for missed animals   | 1.626           | 1.626         | 1.626              | 1.626           |
| Estimated abundance             | 1,567           | 2,366         | 2,874              | 3,503           |
| Abundance adjusted to 1996-98   | -               | 2,390         | 2,903              | 3,505           |

Subarea 72 (NEQCI).

| Site Name and Number:           | 23<br>July<br>1986 |
|---------------------------------|--------------------|
| H285 ROSE SPIT                  | 381                |
| H280 NE NANKIVELL PT            | 64                 |
| H281 CAPE NADEN                 | 8                  |
| H282 WIAH PT                    | 78                 |
| H284 TROUP BANK BAR             | 90                 |
| H283 N STURGESS BAY RF          | 55                 |
| H286 SLOOP IT                   | 103                |
| H287 E DAWSON ISLS RK           | 32                 |
| H292 E COWLEY ISLS              | 61                 |
| H288 NW MUTUS ISL RK            | 13                 |
| H289 SE MUTUS ISL RFS           | 57                 |
| H291 NW SMYTH ISL               | 3                  |
| H290 W SHANNON BAY              | 14                 |
| H294 SW SEEGAY ITS RF           | 23                 |
| H293 SW MODEETS ISLS            | 16                 |
| Total number counted            | 998                |
| Correction for unborn pups      | 1.0009             |
| Proportion of area covered      | 1.0000             |
| Adjusted count                  | 998.8              |
| Estimated proportion hauled out | 0.615              |
| Correction for missed animals   | 1.626              |
| Estimated abundance             | 1,624              |
| Abundance adjusted to 1996-98   | 2,647              |

Subarea 73 (SQCI).

| Site Name and Number:           | 12-13<br>July<br>1994 |
|---------------------------------|-----------------------|
| H609 S MOORE HEAD               | 11                    |
| H619 NW LOUSCOONE PT            | 12                    |
| H610 N HIGH ISL REEF            | 11                    |
| H611 RAINY ISLS                 | 37                    |
| H618 ADAM RKS                   | 70                    |
| H617 S ANTHONY ISL REEFS        | 30                    |
| H613 NW LUXANA BAY REEF         | 20                    |
| H612 SE LUXANA BAY REEF         | 9                     |
| H614 HOWE BAY REEF              | 21                    |
| H616 S BARBER PT REEF           | 18                    |
| H615 BALLARD PT REEF            | 10                    |
| H608 GARCIN RKS                 | 82                    |
| Total number counted            | 331                   |
| Correction for unborn pups      | 1.0055                |
| Proportion of area covered      | 1.0000                |
| Adjusted count                  | 332.8                 |
| Estimated proportion hauled out | 0.615                 |
| Correction for missed animals   | 1.626                 |
| Estimated abundance             | 541                   |
| Abundance adjusted to 1996-98   | 542                   |

Subarea 74 (SWQCI).

| Site Name and Number:           | 13<br>July<br>1994 |
|---------------------------------|--------------------|
| H626 ARIEL RK                   | 30                 |
| H627 LOMGON ITS                 | 34                 |
| H628 HORN RK                    | 44                 |
| H624 S REID PT                  | 14                 |
| H625 WILSON BAY REEF            | 6                  |
| H623 S TASU HEAD                | 14                 |
| H622 S KWOON COVE               | 9                  |
| H621 NW WELLS COVE              | 31                 |
| H620 CAPE FREEMAN               | 2                  |
| H619 NW LOUSCOONE PT            | 12                 |
| Total number counted            | 196                |
| Correction for unborn pups      | 1.0047             |
| Proportion of area covered      | 1.0000             |
| Adjusted count                  | 196.9              |
| Estimated proportion hauled out | 0.615              |
| Correction for missed animals   | 1.626              |
| Estimated abundance             | 320                |
| Abundance adjusted to 1996-98   | 320                |