



## **NOAA Technical Memorandum NMFS**

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**MARINE MAMMAL DATA COLLECTED DURING A SURVEY IN THE  
EASTERN TROPICAL PACIFIC OCEAN ABOARD THE  
NOAA SHIPS *McARTHUR II* AND *DAVID STARR JORDAN*,  
JULY 29 - DECEMBER 10, 2003**

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## INTRODUCTION

In 1997 the U.S. Congress directed the Secretary of Commerce to determine whether the chasing and deployment of purse seine nets around dolphins during tuna fishing operations in the eastern tropical Pacific Ocean (ETP) was having a significant adverse impact on any depleted dolphin stock (International Dolphin Program Conservation Act, Public Law 105-42). A portion of this mandate directed the National Marine Fisheries Service to undertake three field surveys between 1998 and 2000 to estimate the current abundances of the populations of dolphins in the area affected by the fishery.

Among other results, analysis of data from the 1998-2000 cruises indicated that ETP dolphin populations were not recovering as expected (SWFSC 2002). Accordingly, the Southwest Fisheries Science Center plans to carry out a cruise every three years to monitor the dolphin populations affected by the fishery. The 2003 *Stenella* Abundance Research project (STAR03) was the first of these continuing cruises.

This report summarizes the survey procedures and data for marine mammals during the STAR03 cruise. Ecosystem studies conducted during STAR03 will be summarized in separate reports. Marine mammal data on STAR cruises from 1998-2000 were summarized in Kinzey et al. (1999, 2000, 2001). These reports and additional details about the project are available at <http://swfsc.nmfs.noaa.gov/prd/PROJECTS/star/>.

The SWFSC has conducted research on the cetacean populations of the ETP since the mid-1970s. The line-transect field methodologies in current use were originally established for the five-year "Monitoring of Porpoise Stocks" (MOPS) program of surveys the SWFSC completed between 1986 and 1990. MOPS produced estimates of abundance over this five-year period for 24 stocks of cetaceans representing 19 species or genera (Wade and Gerrodette 1993). The MOPS program also produced annual estimates for the four species of dolphins (*Stenella attenuata*, *S. longirostris*, *S. coeruleoalba*, and *Delphinus delphis*) believed to be most affected by the fishery (Wade and Gerrodette 1992). The STAR cruises resulted in estimates of coastal and northeastern offshore stocks of spotted dolphins (Gerrodette and Forcada 2002a), as well as selected other species less affected by the fishery (Gerrodette and Forcada 2002b). Additional information regarding the abundance of stocks of dolphins taken by the fishery is available through analysis of sighting data from the tuna vessels (Anganuzzi and Buckland 1994), although these data contain biases that vary in time (Lennert-Cody et al. 2001).

The STAR03 survey was conducted using the two NOAA ships *McArthur II* and *David Starr Jordan* (hereafter referred to as the *Jordan*) with cruise numbers assigned as follows:

*McArthur II*, AR-03-04: SWFSC Cruise Number 1623

*Jordan*, DS-03-06: SWFSC Cruise Number 1624

## SURVEY OBJECTIVES

The primary objective of the study was to estimate abundances of the dolphin stocks affected by the ETP purse-seine fishery for yellowfin tuna (*Thunnus albacares*). The survey's design targeted the depleted stocks of eastern spinner dolphins (*Stenella longirostris orientalis*) and the northeastern offshore stock of spotted dolphins (*Stenella attenuata*). In addition to data suitable for line-transect analysis, behavioral, acoustic, photogrammetric, genetic, morphological, and individual whale identification data were collected on the region's cetaceans and are described in this report.

## STUDY AREA

The study area extended from the U.S.-Mexico border, south to the territorial waters of Peru, bounded on the east by the continental shores of the Americas, and to the west by Hawaii (roughly from 30° north to 18° south out from the coastline to 153° west; see Fig. 1 and Appendix A). This area is the same as that covered during the 1998-2000 surveys and approximately the same covered by the 1986-1990 MOPS surveys. Examination of dolphin sightings from research and fishing vessels indicated that this region encompasses the entire distribution of the dolphin stocks most affected by the fishery (Gerrodette et al. 1998). The study area was divided into three sampling strata that received different levels of survey effort: the core area, the outer area, and the coastal area (Fig. 1). The strata for the 2003 survey were the same as for the 1998-2000 surveys, except that the western boundary of the core area was shifted to the west to include more of the range of the eastern spinner dolphin. The coordinates of the westernmost boundary point of the core area were 10° north and 125° west (Fig. 1).

## ITINERARY

The survey began on July 29 and ended on December 10, 2003. It was composed of five legs on the *McArthur II* and six legs on the *Jordan*. Survey legs varied between 13 and 29 days in length, separated by 3 to 10 days in port. The itineraries for the ships are listed below.

### NOAA Ship *David Star Jordan*:

|                 |                           |
|-----------------|---------------------------|
| 31 JUL          | Depart San Diego, CA      |
| 31 JUL - 16 AUG | Leg I                     |
| 17 AUG - 19 AUG | Manzanillo, Mexico        |
| 20 AUG - 06 SEP | Leg II                    |
| 07 SEP - 16 SEP | Acapulco, Mexico          |
| 17 SEP - 29 SEP | Leg III                   |
| 30 SEP - 06 OCT | Puntarenas, Costa Rica    |
| 07 OCT - 23 OCT | Leg IV                    |
| 24 OCT - 27 OCT | Puerto Quetzal, Guatemala |
| 28 OCT - 17 NOV | Leg V                     |
| 18 NOV - 21 NOV | Manzanillo, Mexico        |
| 22 NOV - 09 DEC | Leg VI                    |
| 10 DEC          | Arrive San Diego, CA      |



**NOAA Ship *McArthur II*:**

|                 |        |                        |
|-----------------|--------|------------------------|
|                 | 29 JUL | Depart San Diego, CA   |
| 29 JUL - 26 AUG |        | Leg I                  |
| 27 AUG - 04 SEP |        | Honolulu, Hawaii       |
| 05 SEP - 29 SEP |        | Leg II                 |
| 30 SEP - 06 OCT |        | Puntarenas, Costa Rica |
| 07 OCT - 27 OCT |        | Leg III                |
| 28 OCT - 30 OCT |        | Callao, Peru           |
| 31 OCT - 14 NOV |        | Leg IV                 |
| 15 NOV - 18 NOV |        | Panama City, Panama    |
| 19 NOV - 08 DEC |        | Leg V                  |
|                 | 10 DEC | Arrive San Diego, CA   |

**SCIENTIFIC PERSONNEL**

The scientific complement per leg included 15 to 16 scientists aboard the *Jordan* and 12 to 15 aboard the *McArthur II*. Appendix B lists the scientists and ship/legs on which they participated.

Two six-person teams of marine mammal observers rotated between the ships. Each team spent three legs on the *Jordan* so that their estimates of school size could be calibrated with photogrammetric counts of school size taken from the helicopter. Additionally, the *Jordan* had two photogrammetrists and the *McArthur II* had two acousticians per legs 3-5. Data collected by birders and oceanographers aboard each vessel will be summarized in separate reports, as noted in the introduction.

**EQUIPMENT AND PROCEDURES**

**Line-Transect Survey**

Line-transect procedures (Buckland et al. 1993) developed at SWFSC for estimating absolute abundances of cetaceans were followed during the survey. The *McArthur II* and *Jordan*, 68.3 m and 52.1 m in length, respectively, maintained cruising speeds of approximately 18.5 km/hr (10 knots) along pre-determined tracklines (Figures 1-3) while actively searching for marine mammals ("on effort" mode). Observers conducted a visual watch for marine mammals during daylight hours (approximately 0600 to 1800) using two 25 X 150 power binoculars mounted on the port and starboard sides of the ship's flying bridge. For each marine mammal sighting, bearing (using an azimuth ring on the binocular mount to measure angle) and distance (using a reticle scale inscribed in the eyepiece) were recorded, along with the initial sighting cue and related information.

Six observers on each ship rotated through three watch positions: port binocular, center observer/data recorder, and starboard binocular. Observers shifted positions every 40 minutes. At least one identification specialist with previous experience in the ETP was on watch at all times.

Total binocular height above the water for the *McArthur II* was 15.2 meters, giving a maximum ship-to-horizon sighting distance of approximately 13.9 km (7.5 nm). On the *Jordan*, total binocular height above the water was 10.7 meters, giving a maximum ship-to-horizon sighting distance of approximately 11.7 km (6.3 nm). Two additional mounted 25 X 150 binoculars were available on both ships for periodic use during sightings (but not during searching mode).

Sighting data were collected by the three observers in the three watch positions on each ship. No information from other observers or binocular positions was relayed to this primary team during searching effort. The observer at the port binocular surveyed the area between the trackline and 90° left of the trackline. The observer at the starboard binocular surveyed the area between the trackline and 90° right of the trackline. Using unaided eye and a handheld 7X binocular, the center observer searched the entire 180° forward of the ship, with effort focused on the trackline and the area from the ship out to about 400 meters (the "blind" area for observers using the 25X binoculars).

The center observer also served as the data recorder and entered sighting, weather and effort information into a laptop computer on the flying bridge using the SWFSC software program "WinCruz". The computer was linked to the ship's global positioning system to record time and position for every event entered by the recorder such as a sighting or effort change, or automatically every 10 minutes if no other event had been entered.

When a sighting was made, searching effort was typically suspended (i.e., "off effort") and the ship entered "closing" mode with variable speeds and courses in order to approach the mammals. Schools were approached if they were within three nautical miles perpendicular to the trackline. Observers identified cetaceans to the level of species/stock when possible, and then made independent estimates of school size. If more than one taxon was present, percent composition of the school was estimated independently by each observer. Sightings of new schools made while in closing mode were recorded as off-effort sightings. While in closing mode, ancillary projects such as photo-identification and skin biopsy sampling might be conducted.

Upon completion of activities associated with the sighting, the ship returned to searching mode on a course parallel to the original trackline unless this was greater than 10 nm (18.5 km) from it, in which case the ship resumed searching on a 20° course back to the original trackline. If a school that had been previously recorded as an off-effort sighting during closing mode was resighted during searching, it was recorded as an on-effort sighting.

## **Acoustics**

An abbreviated acoustics program was undertaken during legs 3, 4, and 5 of the STAR03 survey, with the intention of testing the performance of the *McArthur II* as a research platform for cetacean acoustics. The goals were (1) to gather additional information to determine whether acoustics can aid in the estimation of dolphin distribution and abundance; (2) to gather additional information on the range of acoustic detection of

sperm whales (*Physeter macrocephalus*); and (3) to examine the geographic variation of Bryde's (*Balaenoptera edeni*) and blue whale (*B. musculus*) vocalizations. Two procedures were used to gather these data: continuous monitoring and recording of dolphin and sperm whale vocalizations obtained from a towed hydrophone array on the *McArthur II*, and opportunistic deployment of sonobuoys for recording baleen whales from both the *McArthur II* and the *Jordan*. Additionally, opportunistic recordings of odontocetes were made on the *Jordan* using a bow-mounted hydrophone.

A two-element hydrophone array was towed 300 m behind the *McArthur II* during daylight hours. This array was built in-house, and the hydrophones have internal pre-amplification and sensitivity from 500 Hz to 25 kHz ( $\pm 10$  dB). The array was monitored for cetacean vocalizations aurally and visually, using a spectrographic display, and clear cetacean sounds were recorded on a Tascam DA-38 multi-channel recorder at 48 k samples/sec. Real-time spectrographic displays of sounds were monitored using ISHMAEL software, which allows for localization of vocalizing animals via phone-pair (cross-correlation) algorithms. Successive angles to sound sources obtained using these methods were plotted to a mapping program, Whaltrak. Information regarding sperm whale detections was not shared between the acoustic and visual teams until the animals had clearly passed abeam of the vessel to allow for independent observation of this species by both teams.

Opportunistic deployments of Navy-surplus sonobuoys were made from both ships to record cetacean sounds not easily obtained using the hydrophone array. Sonobuoys (type 53 or type 57) were typically deployed within 500 m of Bryde's and blue whales. Sonobuoy signals were received using a 2-channel ICOM receiver and recorded to a Sony DAT recorder. Sounds were monitored aurally and visually using a scrolling spectrographic display.

A 3-element bow hydrophone was attached to the bow bubble of the *Jordan*, and allowed for recording vocalizations of odontocetes in close proximity to the bow of the ship (primarily bow-riding dolphins).

### **Photo-Identification and Biopsy Studies**

Digital and 35 mm photographs of cetacean schools and individuals were taken to assist with stock delineations and for studies utilizing identifiable individual whales to determine stock movement or, for some whale species such as blue whales, as an alternative means of estimating population sizes. These studies were often conducted in conjunction with biopsy sampling using a hollow-tipped dart fired from a crossbow to obtain a small sample of skin for genetic analysis. Both photography and biopsy sampling were conducted either from the bow of the ship or from a small boat with outboard engine.

## **Aerial Photogrammetry**

Helicopter operations were conducted from the *Jordan* in order to obtain photographs of dolphin schools for calibrating observer estimates of school size, for measuring total body length for cetacean species, and for enumerating pinniped and seabird colonies. Flights were made in the morning and afternoon during optimal weather conditions: clear skies and sea state below Beaufort 4. All mammal observers on the vessel made estimates of school size and taxonomic composition for these calibration schools.

## **Behavior**

Behavioral data collection emphasized dolphin schools and focused on behaviors that would indicate reactions to the vessel. The data included information on (1) group behavior, (2) school size and shape, (3) reactions to the research vessel, and (4) an estimate by the observer of whether the overall reaction of the school to the research vessel was evasive, non-evasive, both, or unknown. These data were collected using minor modifications to the additional data fields on the Marine Mammal Sighting Form that were initiated with the 1999 survey.

# **RESULTS**

## **Line-transect Observations**

A total of 26,200 kilometers of trackline were surveyed by the two ships during 207 ship days of on-effort searching. The daily record of kilometers surveyed by each ship is reported in Table 1. An average of 127 km (69 nm) of trackline was searched per ship per on-effort day. Figure 1 depicts the locations of the combined tracklines. Tracklines completed individually by the *McArthur II* and the *Jordan* and are depicted in Figures 2 and 3, respectively. The *McArthur II* surveyed the most offshore and southern portions of the study area, while the *Jordan's* tracklines were concentrated in the core area.

A total of 1586 sightings of marine mammals were made during the survey: 757 from the *Jordan* and 829 from the *McArthur II*. Of this total, 1359 sightings were on-effort, made during searching mode by the on-duty observers. Table 2 reports the times, locations, average estimated school size, and related information for each sighting, organized by sighting category (a single species, stock, or more general category such as "unidentified dolphin"). Table 3 summarizes the total numbers of sightings detailed in Table 2. Maps depicting the geographic positions for all marine mammal sightings are displayed in Figures 4-27.

The number of sightings in Table 3 is tabulated by the number of "pure" (single sighting category) and "mixed" (multiple category) schools. Seventy-eight percent of all schools were pure schools. The total of 1784 pure and mixed sightings in Table 3 exceeds the actual number of sightings by 198 because mixed sightings are counted separately in the table for each category recorded in the sighting.

The most common sighting categories were striped dolphin (*Stenella coeruleoalba*) and offshore spotted dolphin, each found in about 10% of the total schools (Table 3). These two categories were followed closely by bottlenose dolphin (*Tursiops truncatus*) and unidentified dolphin, each found in about 9% of the schools. Striped dolphins tended to be found in pure schools averaging just over 50 individuals while offshore spotted dolphins were usually in larger, mixed schools.

The most commonly encountered species of large whales were Bryde's whale and blue whale at 3% and 2% of all sightings, respectively. In addition to the 47 confirmed sightings of Bryde's whale there were 33 sightings of whales that were either Bryde's or sei whales that could not be identified to species.

The different kinds of mixed sighting-category schools recorded during the survey are shown in Table 4. One hundred eighty-eight schools were mixed. The most common of these, 32% of all mixed schools, was comprised of the two target stocks, offshore spotted dolphin and eastern spinner dolphin. The second most common type of mixed school, 13% of all mixed schools, was comprised of offshore spotted dolphin and the whitebelly stock of spinner dolphin (*Stenella longirostris* hybrid).

The overall sighting rate was 51.8 sightings per 1000 km (Table 5). Sighting rates were influenced by sea state and swell height (Table 5).

### **Acoustics**

The hydrophone array was towed and monitored for approximately 9,274 km (5,008 nm).

Recordings from the towed hydrophone array included vocalizations from short-beaked common dolphin (*Delphinus delphis*), long-beaked common dolphin (*D. capensis*), spinner dolphin (*Stenella longirostris*), spotted dolphin (*S. attenuata*), striped dolphin (*S. coeruleoalba*), bottlenose dolphin (*Tursiops truncatus*), rough-toothed dolphin (*Steno bredanensis*), Risso's dolphin (*Grampus griseus*), false killer whale (*Pseudorca crassidens*), dusky dolphin (*Lagenorhynchus obscurus*), pilot whale (*Globicephala* sp.), minke whale (*Balaenoptera acutorostrata*), humpback whale (*Megaptera noviaengliae*), and sperm whale (Table 6). All non-sighted acoustic detections, with the exception of sperm whales, humpback whales and minke whales were "unidentified dolphins". Plots of sighted dolphin schools (Fig. 28) and non-sighted dolphin schools (Fig. 29) are plotted with the acoustic effort track.

Recordings from the bow hydrophone on the *Jordan* included short-beaked common dolphin, spinner dolphin, spotted dolphin, bottlenose dolphin, rough-toothed dolphin, Risso's dolphin, false killer whale, Pacific white-sided dolphin (*L. obliquidens*), pilot whale, killer whale (*Orcinus orca*), and Baird's beaked whale (*Berardius bairdii*) (Table 7).

There were a total of 24 visual and/or acoustic detections of sperm whales while the acoustics team was on effort; sixteen of these were detected by the acoustics team only

(Fig. 30). One of the visual sightings was not detected by the acoustics team. In addition, there were numerous recordings of non-sighted humpback whales in the southern region of the study area, and of non-sighted minke whales in the northern region of the study area (Fig. 30).

A total of 56 sonobuoys were deployed from the ships, of which 44 were successful (Table 8 *McArthur II*, Table 9 *Jordan*). Sonobuoy recordings were made of blue whales, Bryde's whales, Bryde's/sei whales, sei whales, fin whales, sperm whales, humpback whales, pilot whales, killer whales, and Fraser's dolphins. Not all recordings contained vocalizations of the target species.

### **Digital and 35 mm Photography**

Four hundred ninety-seven cetacean schools were photographed (Table 10). One hundred twenty-eight of these contained various stocks of spotted and spinner dolphins, or both. Photographs of individually identifiable whales that will be submitted to existing ID catalogs were obtained from a total of 49 different sightings (Table 11). These include 21 sightings of blue whale (24 whales), 12 sightings of humpback whale (30 whales), 7 sightings of killer whale (62 whales), and 9 sperm whale sightings (17 whales).

### **Aerial Photogrammetry**

Tables 12 and 13 summarize the photogrammetry results obtained by the helicopter on the *Jordan*. A total of 122 schools were photographed, of which 37 were used to calibrate observer estimates of school size. Twenty spotted, 4 spinner, 11 mixed spotted/spinner, and 19 striped dolphin schools were photographed in the combined calibration and other aerial photogrammetric studies.

### **Biopsy Sampling**

Skin biopsy samples were obtained from 574 individual cetaceans representing 25 species or stocks (Tables 14 and 15). For spotted dolphin, biopsies from the northeast stock, spotted schools unidentified to stock, and the coastal stock totaled 63, 11, and 102 samples, respectively. For spinner dolphin, the eastern stock, Central American stock, unidentified stock, and eastern or Central American stock were represented by 35, 7, 24 and 12 samples, respectively. No samples were obtained from the hybrid or "whitebelly" form of spinner dolphin.

### **Behavior**

Behavioral data regarding cetacean responses to the survey ships was collected for 807 sightings (Table 16), or 45% of all sightings. Most notably, these data were collected for 80% of the target species sightings.

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For further information about these data contact the following: marine mammal sightings, Tim Gerrodette; acoustics, Jay Barlow; aerial photogrammetry, Wayne Perryman; genetics, Barb Taylor; 35 mm and digital photographs, Paula Olson.

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Table 1. Kilometers of survey effort during STAR03, per ship per day.

| Date      | <i>McArthur II</i> | <i>Jordan</i> | Date      | <i>McArthur II</i> | <i>Jordan</i> |
|-----------|--------------------|---------------|-----------|--------------------|---------------|
| 29 Jul 03 | 0.3                | 0.0           | 20 Sep 03 | 117.0              | 161.2         |
| 30 Jul 03 | 152.4              | 0.0           | 21 Sep 03 | 197.1              | 156.4         |
| 31 Jul 03 | 163.2              | 18.7          | 22 Sep 03 | 123.2              | 132.5         |
| 1 Aug 03  | 128.5              | 200.4         | 23 Sep 03 | 114.4              | 140.5         |
| 2 Aug 03  | 232.6              | 111.3         | 24 Sep 03 | 158.0              | 71.4          |
| 3 Aug 03  | 223.4              | 96.3          | 25 Sep 03 | 149.9              | 151.1         |
| 4 Aug 03  | 214.7              | 175.7         | 26 Sep 03 | 104.8              | 63.5          |
| 5 Aug 03  | 154.9              | 125.5         | 27 Sep 03 | 116.4              | 80.5          |
| 6 Aug 03  | 135.7              | 206.2         | 28 Sep 03 | 130.3              | 101.4         |
| 7 Aug 03  | 148.4              | 110.3         | 29 Sep 03 | 72.9               | 109.9         |
| 8 Aug 03  | 150.5              | 115.1         | 7 Oct 03  | 104.6              | 7.8           |
| 9 Aug 03  | 195.8              | 64.0          | 8 Oct 03  | 137.8              | 4.4           |
| 10 Aug 03 | 166.8              | 134.8         | 9 Oct 03  | 144.5              | 98.6          |
| 11 Aug 03 | 188.7              | 115.8         | 10 Oct 03 | 130.9              | 122.0         |
| 12 Aug 03 | 106.7              | 119.7         | 11 Oct 03 | 150.4              | 89.7          |
| 13 Aug 03 | 127.9              | 122.6         | 12 Oct 03 | 131.1              | 81.7          |
| 14 Aug 03 | 111.0              | 125.2         | 13 Oct 03 | 137.7              | 131.8         |
| 15 Aug 03 | 116.8              | 118.0         | 14 Oct 03 | 128.0              | 57.0          |
| 16 Aug 03 | 184.1              | 121.8         | 15 Oct 03 | 126.3              | 85.5          |
| 17 Aug 03 | 185.0              | 0.0           | 16 Oct 03 | 166.5              | 129.9         |
| 18 Aug 03 | 140.2              | 0.0           | 17 Oct 03 | 184.0              | 113.1         |
| 19 Aug 03 | 134.2              | 0.0           | 18 Oct 03 | 182.7              | 184.1         |
| 20 Aug 03 | 120.9              | 51.4          | 19 Oct 03 | 187.2              | 97.3          |
| 21 Aug 03 | 173.2              | 85.4          | 20 Oct 03 | 116.3              | 0.0           |
| 22 Aug 03 | 190.7              | 117.1         | 21 Oct 03 | 110.5              | 116.8         |
| 23 Aug 03 | 162.4              | 147.5         | 22 Oct 03 | 143.6              | 149.3         |
| 24 Aug 03 | 202.7              | 183.4         | 23 Oct 03 | 202.4              | 131.6         |
| 25 Aug 03 | 235.1              | 190.6         | 24 Oct 03 | 153.6              | 0.0           |
| 26 Aug 03 | 159.6              | 185.6         | 25 Oct 03 | 166.9              | 0.0           |
| 27 Aug 03 | 0.0                | 51.7          | 26 Oct 03 | 212.3              | 0.0           |
| 28 Aug 03 | 0.0                | 105.8         | 28 Oct 03 | 0.0                | 102.1         |
| 29 Aug 03 | 0.0                | 179.4         | 29 Oct 03 | 0.0                | 115.9         |
| 30 Aug 03 | 0.0                | 109.4         | 30 Oct 03 | 0.0                | 122.5         |
| 31 Aug 03 | 0.0                | 96.7          | 31 Oct 03 | 63.6               | 106.1         |
| 1 Sep 03  | 0.0                | 134.5         | 1 Nov 03  | 125.5              | 163.8         |
| 4 Sep 03  | 0.0                | 151.2         | 2 Nov 03  | 74.7               | 163.2         |
| 5 Sep 03  | 79.2               | 183.5         | 3 Nov 03  | 115.8              | 153.1         |
| 6 Sep 03  | 0.0                | 146.4         | 4 Nov 03  | 104.9              | 54.3          |
| 7 Sep 03  | 1.1                | 0.0           | 5 Nov 03  | 136.2              | 164.1         |
| 8 Sep 03  | 144.2              | 0.0           | 6 Nov 03  | 130.3              | 156.2         |
| 9 Sep 03  | 165.9              | 0.0           | 7 Nov 03  | 138.3              | 149.7         |
| 10 Sep 03 | 135.1              | 0.0           | 8 Nov 03  | 105.7              | 77.4          |
| 11 Sep 03 | 79.7               | 0.0           | 9 Nov 03  | 133.4              | 69.0          |
| 12 Sep 03 | 150.6              | 0.0           | 10 Nov 03 | 0.0                | 123.4         |
| 13 Sep 03 | 159.9              | 0.0           | 11 Nov 03 | 63.7               | 118.0         |
| 14 Sep 03 | 156.2              | 0.0           | 12 Nov 03 | 95.2               | 135.2         |
| 15 Sep 03 | 217.0              | 0.0           | 13 Nov 03 | 98.7               | 139.7         |
| 16 Sep 03 | 193.1              | 0.0           | 14 Nov 03 | 65.8               | 154.0         |
| 17 Sep 03 | 143.3              | 22.6          | 15 Nov 03 | 0.0                | 151.2         |
| 18 Sep 03 | 55.2               | 42.8          | 16 Nov 03 | 0.0                | 152.8         |
| 19 Sep 03 | 159.5              | 65.2          | 17 Nov 03 | 0.0                | 120.5         |

Table 1. Survey effort (continued).

| Date      | <i>McArthur II</i> | <i>Jordan</i> |
|-----------|--------------------|---------------|
| 19 Nov 03 | 60.6               | 0.0           |
| 20 Nov 03 | 115.0              | 0.0           |
| 21 Nov 03 | 66.8               | 0.0           |
| 22 Nov 03 | 62.2               | 88.1          |
| 23 Nov 03 | 28.1               | 123.2         |
| 24 Nov 03 | 51.3               | 146.4         |
| 25 Nov 03 | 43.1               | 118.5         |
| 26 Nov 03 | 68.8               | 180.9         |
| 27 Nov 03 | 111.9              | 88.7          |
| 28 Nov 03 | 163.0              | 168.6         |
| 29 Nov 03 | 190.0              | 136.0         |
| 30 Nov 03 | 158.0              | 169.0         |
| 1 Dec 03  | 147.7              | 157.9         |
| 2 Dec 03  | 87.9               | 0.0           |
| 3 Dec 03  | 165.4              | 138.2         |
| 4 Dec 03  | 162.2              | 202.3         |
| 5 Dec 03  | 127.5              | 136.0         |
| 6 Dec 03  | 89.3               | 76.5          |
| 7 Dec 03  | 93.7               | 151.2         |
| 8 Dec 03  | 27.5               | 36.9          |
| 9 Dec 03  | 0.0                | 69.7          |
| Total     | 14219.4            | 11980.7       |

Table 2. Marine mammal sightings during STAR03 for each sighting category. "Other Codes" column indicates the other sighting categories (see Appendix C) in a mixed-species school. Times are local. School size is the uncalibrated mean of the observers' best estimates of school size. Sighting numbers less than 1000 were made from the *McArthur II*, those over 1000 were made from the *Jordan*.

| Code                                 | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|--------------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| <i>Mesoplodon peruvianus</i>         |             |                 |           |      |           |            |     |         |             |       |
| 001                                  |             | 429             | 23 Oct 03 | 1523 | S15:25.49 | W087:05.50 | 4   | 126     | 1           | On    |
| 001                                  |             | 616             | 22 Nov 03 | 1445 | N08:29.00 | W086:10.89 | 3   | 126     | 1           | Off   |
| 001                                  |             | 622             | 22 Nov 03 | 1714 | N08:25.33 | W086:24.86 | 1   | 126     | 2           | Off   |
| 001                                  |             | 678             | 24 Nov 03 | 1617 | N09:54.04 | W091:01.03 | 1   | 126     | 1           | On    |
| 001                                  |             | 726             | 26 Nov 03 | 1647 | N08:07.95 | W096:07.78 | 2   | 224     | 1           | Off   |
| <i>Stenella attenuata</i> (offshore) |             |                 |           |      |           |            |     |         |             |       |
| 002                                  |             | 45              | 8 Aug 03  | 0811 | N08:53.05 | W126:48.94 | 4   | 7       | 57          | On    |
| 002                                  |             | 49              | 8 Aug 03  | 1627 | N07:47.08 | W126:46.77 | 4   | 7       | 72          | On    |
| 002                                  | 013         | 52              | 8 Aug 03  | 1838 | N07:35.36 | W126:51.77 | 4   | 230     | 49          | On    |
| 002                                  | 010         | 69              | 11 Aug 03 | 1617 | N10:50.77 | W131:29.62 | 5   | 228     | 66          | On    |
| 002                                  |             | 76              | 12 Aug 03 | 1746 | N13:10.26 | W133:43.28 | 3   | 230     | 123         | On    |
| 002                                  | 011         | 77              | 12 Aug 03 | 1813 | N13:13.93 | W133:44.67 | 2   | 125     | 220         | On    |
| 002                                  | 011         | 79              | 13 Aug 03 | 0826 | N14:16.35 | W134:55.49 | 3   | 208     | 343         | On    |
| 002                                  | 011         | 83              | 13 Aug 03 | 1622 | N14:59.02 | W135:49.31 | 3   | 125     | 233         | On    |
| 002                                  |             | 85              | 13 Aug 03 | 1702 | N14:54.66 | W135:50.90 | 3   | 230     | 5           | On    |
| 002                                  | 013         | 88              | 14 Aug 03 | 0917 | N12:55.57 | W136:18.29 | 1   | 7       | 55          | On    |
| 002                                  | 011         | 89              | 14 Aug 03 | 1011 | N12:49.30 | W136:19.25 | 1   | 208     | 316         | On    |
| 002                                  | 011 013 077 | 91              | 14 Aug 03 | 1128 | N12:40.65 | W136:23.62 | 2   | 208     | 304         | On    |
| 002                                  | 011 072     | 98              | 14 Aug 03 | 1846 | N11:52.75 | W136:28.68 | 4   | 1       | 525         | On    |
| 002                                  | 011         | 101             | 15 Aug 03 | 0832 | N10:32.74 | W136:52.62 | 2   | 125     | 135         | On    |
| 002                                  | 011         | 103             | 15 Aug 03 | 0953 | N10:20.20 | W136:53.28 | 2   | 208     | 48          | Off   |
| 002                                  | 011 077     | 120             | 18 Aug 03 | 0649 | N06:34.55 | W140:07.65 | 4   | 7       | 117         | On    |
| 002                                  |             | 122             | 18 Aug 03 | 1057 | N07:02.20 | W140:32.08 | 4   | 208     | 32          | On    |
| 002                                  | 011         | 123             | 18 Aug 03 | 1116 | N07:06.40 | W140:32.42 | 4   | 7       | 78          | On    |
| 002                                  | 011         | 124             | 18 Aug 03 | 1236 | N07:16.84 | W140:37.44 | 4   | 208     | 83          | On    |
| 002                                  | 011         | 125             | 18 Aug 03 | 1429 | N07:28.17 | W140:49.40 | 4   | 228     | 162         | On    |
| 002                                  | 011         | 127             | 18 Aug 03 | 1626 | N07:31.43 | W141:01.12 | 3   | 125     | 197         | On    |
| 002                                  | 011         | 130             | 19 Aug 03 | 0757 | N08:48.88 | W142:12.56 | 3   | 208     | 82          | On    |
| 002                                  |             | 133             | 19 Aug 03 | 1018 | N09:01.14 | W142:22.23 | 4   | 7       | 39          | On    |
| 002                                  |             | 140             | 19 Aug 03 | 1814 | N09:45.91 | W143:20.77 | 2   | 208     | 12          | On    |
| 002                                  | 011         | 145             | 20 Aug 03 | 1033 | N08:51.39 | W145:05.90 | 2   | 1       | 157         | On    |
| 002                                  | 011         | 146             | 20 Aug 03 | 1119 | N08:49.85 | W145:12.90 | 1   | 208     | 260         | On    |
| 002                                  |             | 148             | 20 Aug 03 | 1141 | N08:49.67 | W145:11.81 | 1   | 231     | 12          | Off   |
| 002                                  |             | 166             | 21 Aug 03 | 1230 | N07:10.02 | W148:00.78 | 4   | 228     | 121         | On    |
| 002                                  |             | 168             | 22 Aug 03 | 1618 | N07:48.16 | W150:22.50 | 4   | 7       | 68          | On    |
| 002                                  |             | 169             | 23 Aug 03 | 0932 | N09:52.93 | W151:23.69 | 4   | 230     | 18          | On    |
| 002                                  |             | 171             | 24 Aug 03 | 1609 | N14:05.09 | W153:36.21 | 5   | 125     | 34          | On    |
| 002                                  |             | 173             | 26 Aug 03 | 0751 | N19:19.91 | W156:50.03 | 4   | 230     | 10          | On    |
| 002                                  | 003         | 179             | 26 Aug 03 | 1547 | N20:32.73 | W157:05.44 | 4   | 125     | 80          | On    |
| 002                                  | 003         | 185             | 5 Sep 03  | 1040 | N19:06.67 | W156:15.56 | 4   | 228     | 86          | On    |
| 002                                  |             | 188             | 9 Sep 03  | 1306 | N12:17.41 | W142:39.69 | 3   | 125     | 76          | On    |
| 002                                  | 101         | 196             | 10 Sep 03 | 1253 | N10:40.23 | W140:11.59 | 5   | 7       | 257         | On    |
| 002                                  | 011         | 200             | 11 Sep 03 | 0606 | N09:36.85 | W138:23.29 | 2   | 1       | 227         | On    |
| 002                                  | 101         | 213             | 11 Sep 03 | 1423 | N09:19.52 | W137:49.20 | 1   | 228     | 268         | On    |
| 002                                  | 011         | 216             | 11 Sep 03 | 1526 | N09:14.34 | W137:44.03 | 3   | 230     | 117         | On    |
| 002                                  |             | 235             | 14 Sep 03 | 1455 | N03:16.91 | W128:33.64 | 5   | 7       | 200         | On    |
| 002                                  |             | 247             | 18 Sep 03 | 0824 | N02:04.41 | W118:38.59 | 4   | 7       | 158         | On    |
| 002                                  | 003         | 253             | 20 Sep 03 | 1212 | N03:08.88 | W114:38.65 | 3   | 208     | 123         | On    |
| 002                                  | 011         | 254             | 20 Sep 03 | 1318 | N03:10.80 | W114:30.03 | 4   | 1       | 568         | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 002  | 011         | 258             | 20 Sep 03 | 1609 | N03:06.49 | W114:11.71 | 4   | 7       | 148         | On    |
| 002  | 011         | 272             | 23 Sep 03 | 1656 | N04:11.20 | W103:16.34 | 5   | 125     | 330         | On    |
| 002  |             | 277             | 24 Sep 03 | 1458 | N04:35.86 | W099:41.56 | 5   | 208     | 99          | Off   |
| 002  | 003         | 278             | 24 Sep 03 | 1626 | N04:43.30 | W099:33.90 | 5   | 7       | 69          | On    |
| 002  |             | 293             | 26 Sep 03 | 1332 | N05:13.25 | W094:26.46 | 4   | 1       | 28          | On    |
| 002  |             | 296             | 26 Sep 03 | 1737 | N05:33.30 | W093:54.04 | 4   | 230     | 11          | On    |
| 002  | 011         | 298             | 27 Sep 03 | 0719 | N06:21.32 | W092:06.39 | 4   | 7       | 146         | On    |
| 002  |             | 299             | 27 Sep 03 | 0832 | N06:25.59 | W092:03.79 | 4   | 125     | 42          | On    |
| 002  |             | 300             | 27 Sep 03 | 1119 | N06:36.25 | W091:41.61 | 4   | 208     | 63          | On    |
| 002  | 010         | 301             | 27 Sep 03 | 1355 | N06:44.31 | W091:16.27 | 4   | 125     | 301         | On    |
| 002  | 010         | 303             | 27 Sep 03 | 1511 | N06:45.28 | W091:11.93 | 4   | 7       | 202         | On    |
| 002  |             | 306             | 28 Sep 03 | 0724 | N07:45.34 | W089:33.68 | 5   | 125     | 36          | On    |
| 002  |             | 332             | 8 Oct 03  | 1035 | N05:54.97 | W084:45.42 | 4   | 233     | 68          | On    |
| 002  | 010         | 333             | 8 Oct 03  | 1537 | N05:09.22 | W084:44.78 | 5   | 126     | 132         | On    |
| 002  |             | 346             | 10 Oct 03 | 0852 | N02:05.22 | W088:31.34 | 5   | 233     | 91          | On    |
| 002  |             | 355             | 10 Oct 03 | 1833 | N01:27.60 | W089:26.36 | 5   | 233     | 169         | On    |
| 002  | 101         | 390             | 14 Oct 03 | 1232 | S05:05.02 | W097:58.41 | 4   | 73      | 422         | On    |
| 002  | 010 011     | 521             | 12 Nov 03 | 0929 | N05:32.73 | W083:00.33 | 4   | 233     | 248         | On    |
| 002  | 177         | 710             | 26 Nov 03 | 0629 | N08:27.45 | W095:01.92 | 2   | 199     | 183         | On    |
| 002  | 011         | 713             | 26 Nov 03 | 0832 | N08:26.10 | W095:14.81 | 3   | 233     | 307         | On    |
| 002  | 011         | 714             | 26 Nov 03 | 1023 | N08:20.00 | W095:26.37 | 3   | 199     | 107         | On    |
| 002  | 011         | 720             | 26 Nov 03 | 1359 | N08:10.35 | W095:54.59 | 2   | 126     | 160         | On    |
| 002  |             | 723             | 26 Nov 03 | 1604 | N08:07.64 | W096:02.81 | 2   | 233     | 48          | On    |
| 002  |             | 739             | 28 Nov 03 | 0944 | N09:41.43 | W101:11.65 | 4   | 199     | 148         | On    |
| 002  | 010         | 740             | 28 Nov 03 | 1109 | N09:36.44 | W101:27.54 | 4   | 73      | 257         | On    |
| 002  | 010         | 741             | 28 Nov 03 | 1229 | N09:30.20 | W101:40.49 | 4   | 224     | 205         | On    |
| 002  | 010         | 742             | 28 Nov 03 | 1405 | N09:25.95 | W101:55.22 | 4   | 233     | 187         | On    |
| 002  |             | 743             | 28 Nov 03 | 1454 | N09:24.41 | W102:03.34 | 4   | 199     | 135         | On    |
| 002  | 017         | 744             | 29 Nov 03 | 0730 | N10:36.85 | W104:10.02 | 5   | 73      | 18          | On    |
| 002  | 010         | 747             | 29 Nov 03 | 1029 | N11:07.77 | W104:31.67 | 5   | 73      | 400         | On    |
| 002  |             | 753             | 30 Nov 03 | 0830 | N13:23.85 | W107:01.27 | 5   | 126     | 59          | On    |
| 002  |             | 755             | 30 Nov 03 | 1750 | N14:12.50 | W108:16.16 | 3   | 233     | 303         | On    |
| 002  |             | 756             | 30 Nov 03 | 1813 | N14:11.87 | W108:19.37 | 3   | 233     | 210         | Off   |
| 002  |             | 758             | 1 Dec 03  | 1110 | N14:37.16 | W109:48.18 | 4   | 224     | 63          | On    |
| 002  |             | 761             | 1 Dec 03  | 1429 | N14:29.35 | W110:15.93 | 4   | 200     | 11          | On    |
| 002  | 010         | 762             | 1 Dec 03  | 1643 | N14:22.24 | W110:35.62 | 4   | 224     | 220         | On    |
| 002  |             | 768             | 2 Dec 03  | 1210 | N15:28.63 | W112:32.92 | 4   | 233     | 73          | On    |
| 002  | 010         | 769             | 2 Dec 03  | 1246 | N15:30.22 | W112:39.42 | 4   | 73      | 130         | On    |
| 002  |             | 772             | 3 Dec 03  | 0821 | N16:36.61 | W114:23.87 | 4   | 126     | 133         | On    |
| 002  | 011         | 774             | 3 Dec 03  | 1224 | N16:49.51 | W114:55.80 | 4   | 233     | 185         | On    |
| 002  |             | 777             | 4 Dec 03  | 1218 | N18:42.75 | W118:05.40 | 4   | 199     | 24          | On    |
| 002  | 010         | 1106            | 9 Aug 03  | 1615 | N21:54.32 | W109:49.30 | 1   | 126     | 106         | On    |
| 002  |             | 1114            | 10 Aug 03 | 0851 | N23:18.72 | W108:50.64 | 4   | 200     | 141         | On    |
| 002  | 010         | 1119            | 10 Aug 03 | 1304 | N23:45.68 | W109:05.30 | 3   | 233     | 187         | On    |
| 002  |             | 1158            | 12 Aug 03 | 1516 | N25:30.92 | W109:25.72 | 4   | 224     | 211         | On    |
| 002  | 018         | 1164            | 13 Aug 03 | 0854 | N24:15.01 | W108:03.15 | 2   | 199     | 145         | On    |
| 002  |             | 1165            | 13 Aug 03 | 0944 | N24:10.67 | W108:01.02 | 1   | 126     | 52          | On    |
| 002  |             | 1166            | 13 Aug 03 | 1021 | N24:08.75 | W107:55.78 | 1   | 73      | 175         | On    |
| 002  |             | 1168            | 13 Aug 03 | 1223 | N23:57.97 | W107:46.01 | 0   | 126     | 113         | On    |
| 002  |             | 1173            | 14 Aug 03 | 0824 | N22:04.05 | W106:19.16 | 1   | 199     | 37          | On    |
| 002  |             | 1174            | 14 Aug 03 | 1011 | N21:51.70 | W106:13.54 | 2   | 233     | 6           | On    |
| 002  |             | 1175            | 14 Aug 03 | 1030 | N21:49.40 | W106:13.14 | 2   | 233     | 13          | On    |
| 002  |             | 1182            | 15 Aug 03 | 0649 | N21:52.26 | W107:38.16 | 3   | 200     | 8           | Off   |
| 002  | 018         | 1187            | 15 Aug 03 | 1021 | N21:42.28 | W107:57.14 | 2   | 73      | 179         | On    |
| 002  | 010         | 1188            | 15 Aug 03 | 1256 | N21:26.89 | W108:05.03 | 3   | 73      | 165         | On    |
| 002  | 010         | 1189            | 15 Aug 03 | 1428 | N21:15.55 | W108:05.94 | 2   | 199     | 355         | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time      | Latitude  | Longitude  | Bft        | Obs No. | School Size | Efort |    |
|------|-------------|-----------------|-----------|-----------|-----------|------------|------------|---------|-------------|-------|----|
| 002  | 010         | 1190            | 15 Aug 03 | 1527      | N21:11.50 | W108:10.86 | 2          | 126     | 264         | On    |    |
| 002  | 010         | 1198            | 16 Aug 03 | 0959      | N20:06.24 | W106:19.97 | 3          | 73      | 237         | On    |    |
| 002  |             | 1199            | 16 Aug 03 | 1142      | N20:07.00 | W106:10.44 | 3          | 126     | 78          | On    |    |
| 002  | 010         | 1200            | 16 Aug 03 | 1226      | N20:07.73 | W106:08.93 | 3          | 73      | 98          | On    |    |
| 002  | 010         | 015             | 1222      | 21 Aug 03 | 1316      | N17:34.81  | W105:34.81 | 1       | 126         | 146   | On |
| 002  | 010         |                 | 1226      | 21 Aug 03 | 1626      | N17:32.06  | W105:57.41 | 0       | 73          | 417   | On |
| 002  |             | 1232            | 22 Aug 03 | 0730      | N17:05.30 | W107:25.68 | 3          | 73      | 55          | On    |    |
| 002  | 010         |                 | 1238      | 22 Aug 03 | 1519      | N16:47.20  | W108:21.99 | 2       | 200         | 490   | On |
| 002  | 010         |                 | 1246      | 23 Aug 03 | 1236      | N16:03.26  | W110:58.32 | 3       | 126         | 36    | On |
| 002  | 010         |                 | 1268      | 28 Aug 03 | 0932      | N10:51.23  | W124:03.04 | 4       | 126         | 345   | On |
| 002  | 010         |                 | 1269      | 28 Aug 03 | 1027      | N10:47.10  | W124:04.98 | 4       | 199         | 83    | On |
| 002  | 010         |                 | 1278      | 30 Aug 03 | 0955      | N11:16.88  | W119:47.99 | 3       | 126         | 166   | On |
| 002  | 010         |                 | 1279      | 30 Aug 03 | 1159      | N11:20.33  | W119:35.96 | 3       | 73          | 475   | On |
| 002  |             | 1291            | 31 Aug 03 | 1227      | N12:16.06 | W117:07.15 | 4          | 233     | 38          | On    |    |
| 002  | 010         |                 | 1294      | 1 Sep 03  | 1434      | N13:25.61  | W113:35.13 | 4       | 200         | 470   | On |
| 002  | 010         |                 | 1299      | 5 Sep 03  | 1052      | N17:13.14  | W102:59.59 | 4       | 73          | 243   | On |
| 002  | 010         |                 | 1300      | 5 Sep 03  | 1245      | N17:16.05  | W102:45.76 | 4       | 233         | 112   | On |
| 002  |             | 1301            | 5 Sep 03  | 1446      | N17:27.94 | W102:37.28 | 3          | 73      | 6           | On    |    |
| 002  | 010         |                 | 1322      | 19 Sep 03 | 0757      | N14:52.56  | W098:56.92 | 4       | 73          | 158   | On |
| 002  | 010         |                 | 1324      | 19 Sep 03 | 0904      | N14:48.22  | W099:06.22 | 4       | 199         | 357   | On |
| 002  | 010         | 096             | 1326      | 20 Sep 03 | 0732      | N13:23.10  | W101:25.95 | 2       | 73          | 133   | On |
| 002  | 010         |                 | 1329      | 20 Sep 03 | 1728      | N12:55.84  | W101:17.75 | 2       | 126         | 225   | On |
| 002  | 010         |                 | 1335      | 22 Sep 03 | 1337      | N13:27.97  | W096:09.07 | 4       | 73          | 635   | On |
| 002  | 010         |                 | 1339      | 22 Sep 03 | 1835      | N13:28.98  | W095:28.88 | 3       | 200         | 213   | On |
| 002  | 010         |                 | 1342      | 23 Sep 03 | 0848      | N13:32.48  | W093:54.05 | 2       | 233         | 57    | On |
| 002  |             | 1439            | 9 Oct 03  | 1512      | N05:58.61 | W088:17.71 | 4          | 1       | 44          | On    |    |
| 002  | 077         |                 | 1442      | 10 Oct 03 | 1302      | N06:05.14  | W090:27.68 | 5       | 228         | 32    | On |
| 002  | 101         |                 | 1443      | 10 Oct 03 | 1644      | N06:06.43  | W090:49.44 | 4       | 228         | 56    | On |
| 002  | 010         |                 | 1452      | 12 Oct 03 | 0703      | N06:21.98  | W094:41.43 | 4       | 208         | 170   | On |
| 002  | 011         |                 | 1453      | 12 Oct 03 | 0757      | N06:19.05  | W094:49.65 | 4       | 1           | 158   | On |
| 002  | 010         |                 | 1456      | 12 Oct 03 | 1241      | N06:24.68  | W095:12.51 | 3       | 1           | 67    | On |
| 002  | 011         |                 | 1463      | 15 Oct 03 | 1117      | N06:08.58  | W102:55.51 | 4       | 208         | 65    | On |
| 002  | 010         |                 | 1473      | 19 Oct 03 | 0741      | N11:03.20  | W103:37.93 | 3       | 228         | 192   | On |
| 002  |             | 1474            | 19 Oct 03 | 0924      | N11:13.41 | W103:29.08 | 3          | 125     | 78          | On    |    |
| 002  | 010         |                 | 1477      | 19 Oct 03 | 1204      | N11:22.06  | W103:11.31 | 2       | 125         | 263   | On |
| 002  |             | 1483            | 21 Oct 03 | 0734      | N11:53.00 | W098:44.12 | 3          | 230     | 102         | On    |    |
| 002  |             | 1484            | 21 Oct 03 | 0821      | N11:52.56 | W098:38.30 | 3          | 7       | 100         | On    |    |
| 002  | 010         |                 | 1489      | 21 Oct 03 | 1407      | N11:40.65  | W098:03.90 | 4       | 1           | 187   | On |
| 002  | 010         |                 | 1491      | 22 Oct 03 | 0933      | N11:32.08  | W096:09.07 | 5       | 208         | 277   | On |
| 002  | 010         |                 | 1492      | 22 Oct 03 | 1637      | N11:54.53  | W095:21.70 | 5       | 208         | 141   | On |
| 002  | 010         |                 | 1494      | 23 Oct 03 | 0740      | N12:31.67  | W093:46.66 | 4       | 7           | 457   | On |
| 002  | 010         |                 | 1552      | 31 Oct 03 | 0626      | N14:45.71  | W097:00.78 | 2       | 125         | 212   | On |
| 002  | 010         |                 | 1557      | 31 Oct 03 | 0918      | N14:29.99  | W097:17.41 | 2       | 208         | 194   | On |
| 002  | 010         |                 | 1571      | 1 Nov 03  | 1633      | N15:09.97  | W101:06.33 | 1       | 228         | 292   | On |
| 002  |             | 1572            | 1 Nov 03  | 1722      | N15:09.58 | W101:08.20 | 1          | 208     | 12          | On    |    |
| 002  |             | 1580            | 2 Nov 03  | 1820      | N13:23.03 | W104:16.05 | 2          | 1       | 68          | On    |    |
| 002  | 010         |                 | 1581      | 3 Nov 03  | 0748      | N12:27.05  | W105:52.97 | 4       | 7           | 138   | On |
| 002  | 010         |                 | 1582      | 3 Nov 03  | 0848      | N12:25.02  | W106:01.78 | 4       | 208         | 38    | On |
| 002  | 010         |                 | 1583      | 3 Nov 03  | 1034      | N12:18.31  | W106:14.81 | 4       | 7           | 160   | On |
| 002  | 010         |                 | 1584      | 3 Nov 03  | 1525      | N11:54.71  | W106:53.47 | 4       | 7           | 95    | On |
| 002  | 010         |                 | 1586      | 4 Nov 03  | 0833      | N10:39.92  | W108:47.34 | 5       | 228         | 515   | On |
| 002  | 010         |                 | 1588      | 4 Nov 03  | 0918      | N10:36.53  | W108:49.87 | 5       | 208         | 238   | On |
| 002  | 010         |                 | 1590      | 5 Nov 03  | 1456      | N08:59.87  | W111:18.48 | 4       | 208         | 168   | On |
| 002  |             | 1594            | 6 Nov 03  | 1422      | N07:20.39 | W113:40.51 | 4          | 7       | 59          | On    |    |
| 002  |             | 1597            | 7 Nov 03  | 0754      | N06:03.51 | W115:37.07 | 3          | 125     | 147         | On    |    |
| 002  |             | 1608            | 10 Nov 03 | 0718      | N08:37.38 | W118:43.06 | 2          | 208     | 52          | On    |    |

Table 2. Marine mammal sightings (continued).

| Code  | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|---|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 002   | 101         | 1609            | 10 Nov 03 | 0811 | N08:41.87 | W118:34.98 | 3   | 208     | 210         | On    |
| 002   | 010         | 1615            | 11 Nov 03 | 1656 | N10:38.23 | W114:34.75 | 5   | 125     | 113         | On    |
| 002   | 010         | 1616            | 12 Nov 03 | 0650 | N11:20.77 | W112:53.24 | 4   | 208     | 129         | On    |
| 002   | 010         | 1620            | 12 Nov 03 | 1117 | N11:34.71 | W112:25.45 | 4   | 208     | 410         | On    |
| 002   | 010         | 1622            | 13 Nov 03 | 0805 | N12:42.45 | W110:10.22 | 4   | 125     | 215         | On    |
| 002   | 010         | 1624            | 13 Nov 03 | 1107 | N12:52.70 | W109:52.91 | 5   | 208     | 133         | On    |
| 002   | 010         | 1625            | 13 Nov 03 | 1409 | N13:06.29 | W109:30.55 | 5   | 1       | 287         | On    |
| 002   |             | 1629            | 14 Nov 03 | 0758 | N14:01.18 | W107:24.42 | 2   | 7       | 54          | On    |
| 002   | 010         | 1631            | 14 Nov 03 | 1116 | N14:13.11 | W106:54.59 | 3   | 1       | 57          | On    |
| 002   |             | 1634            | 14 Nov 03 | 1705 | N14:34.93 | W106:11.24 | 3   | 7       | 39          | On    |
| 002   |             | 1636            | 15 Nov 03 | 0759 | N15:20.51 | W104:35.96 | 4   | 230     | 94          | On    |
| 002   |             | 1639            | 15 Nov 03 | 1504 | N15:48.82 | W103:38.61 | 1   | 7       | 55          | On    |
| 002   |             | 1648            | 16 Nov 03 | 1315 | N17:00.60 | W101:01.43 | 1   | 230     | 147         | On    |
| 002   |             | 1649            | 16 Nov 03 | 1441 | N17:01.67 | W100:59.11 | 2   | 228     | 10          | On    |
| 002   |             | 1653            | 17 Nov 03 | 0854 | N17:40.25 | W102:09.78 | 2   | 230     | 73          | On    |
| 002   |             | 1654            | 17 Nov 03 | 0919 | N17:40.84 | W102:13.17 | 2   | 7       | 35          | On    |
| 002   |             | 1677            | 23 Nov 03 | 0740 | N18:39.49 | W107:11.13 | 3   | 1       | 20          | On    |
| 002   |             | 1682            | 23 Nov 03 | 1159 | N18:34.27 | W107:42.35 | 4   | 1       | 38          | On    |
| 002   | 018         | 1690            | 24 Nov 03 | 1205 | N17:51.81 | W110:42.44 | 4   | 230     | 41          | On    |
| 002   | 010         | 1691            | 24 Nov 03 | 1617 | N17:42.92 | W111:22.58 | 4   | 230     | 115         | On    |
| 002   | 010         | 1695            | 25 Nov 03 | 1140 | N17:06.48 | W114:03.23 | 4   | 208     | 88          | On    |
| 002   |             | 1706            | 29 Nov 03 | 1353 | N18:23.58 | W119:21.30 | 4   | 7       | 106         | On    |
| 002   |             | 1710            | 30 Nov 03 | 1614 | N19:04.03 | W115:46.71 | 4   | 230     | 109         | On    |
| <i>Stenella longirostris</i> (unid. subsp.) |             |                 |           |      |           |            |     |         |             |       |
| 003   | 077         | 158             | 20 Aug 03 | 1833 | N08:18.55 | W146:06.18 | 1   | 1       | 93          | On    |
| 003   |             | 159             | 20 Aug 03 | 1833 | N08:19.81 | W146:05.86 | 1   | 228     | 1           | On    |
| 003   | 002         | 179             | 26 Aug 03 | 1547 | N20:32.73 | W157:05.44 | 4   | 125     | 80          | On    |
| 003   | 002         | 185             | 5 Sep 03  | 1040 | N19:06.67 | W156:15.56 | 4   | 228     | 86          | On    |
| 003   | 002         | 253             | 20 Sep 03 | 1212 | N03:08.88 | W114:38.65 | 3   | 208     | 123         | On    |
| 003   | 002         | 278             | 24 Sep 03 | 1626 | N04:43.30 | W099:33.90 | 5   | 7       | 69          | On    |
| 003   |             | 544             | 14 Nov 03 | 0840 | N07:24.60 | W078:12.35 | 2   | 233     | 124         | Off   |
| 003   |             | 546             | 14 Nov 03 | 1055 | N07:22.99 | W078:19.34 | 2   | 126     | 20          | Off   |
| 003   | 090         | 1215            | 21 Aug 03 | 0955 | N17:39.32 | W105:13.37 | 1   | 224     | 201         | On    |
| 003   |             | 1263            | 26 Aug 03 | 1522 | N13:27.22 | W120:24.62 | 4   | 224     | 36          | On    |
| 003   |             | 1363            | 24 Sep 03 | 1615 | N13:04.01 | W090:27.55 | 4   | 73      | 4500        | Off   |
| 003   |             | 1364            | 24 Sep 03 | 1714 | N13:10.93 | W090:23.41 | 4   | 233     | 500         | Off   |
| <i>Delphinus</i> sp.                        |             |                 |           |      |           |            |     |         |             |       |
| 005   |             | 506             | 8 Nov 03  | 0637 | N00:00.08 | W080:44.62 | 4   | 126     | 25          | Off   |
| 005   |             | 1001            | 31 Jul 03 | 1545 | N32:22.02 | W117:09.30 | 2   | 73      | 16          | On    |
| 005   |             | 1002            | 31 Jul 03 | 1610 | N32:18.35 | W117:06.39 | 2   | 126     | 36          | On    |
| 005   |             | 1097            | 9 Aug 03  | 1244 | N21:44.30 | W110:06.01 | 1   | 99      | 48          | Off   |
| <i>Stenella attenuata graffmani</i>         |             |                 |           |      |           |            |     |         |             |       |
| 006   |             | 508             | 8 Nov 03  | 0832 | N00:03.00 | W080:31.06 | 4   | 73      | 120         | On    |
| 006   |             | 511             | 8 Nov 03  | 1637 | N00:42.53 | W080:13.30 | 4   | 73      | 90          | On    |
| 006   |             | 513             | 9 Nov 03  | 0727 | N00:58.67 | W080:06.81 | 4   | 73      | 24          | On    |
| 006   |             | 515             | 9 Nov 03  | 0905 | N00:58.18 | W080:01.07 | 5   | 73      | 61          | On    |
| 006   | 017         | 517             | 9 Nov 03  | 1345 | N01:05.27 | W079:42.25 | 5   | 126     | 255         | On    |
| 006   |             | 545             | 14 Nov 03 | 1006 | N07:23.79 | W078:18.71 | 2   | 73      | 95          | Off   |
| 006   |             | 548             | 14 Nov 03 | 1203 | N07:34.12 | W078:28.98 | 3   | 126     | 118         | On    |
| 006   |             | 549             | 14 Nov 03 | 1333 | N07:39.39 | W078:34.20 | 3   | 233     | 12          | On    |
| 006   |             | 550             | 14 Nov 03 | 1404 | N07:43.78 | W078:36.77 | 3   | 73      | 17          | On    |
| 006   |             | 554             | 14 Nov 03 | 1642 | N07:54.88 | W078:50.66 | 3   | 98      | 6           | Off   |
| 006   |             | 555             | 14 Nov 03 | 1700 | N07:57.63 | W078:52.78 | 2   | 199     | 14          | On    |



Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 006  |             | 556             | 14 Nov 03 | 1724 | N08:00.03 | W078:54.87 | 2   | 233     | 47          | On    |
| 006  |             | 557             | 19 Nov 03 | 1138 | N08:43.71 | W079:27.14 | 1   | 233     | 16          | On    |
| 006  |             | 559             | 19 Nov 03 | 1226 | N08:38.56 | W079:28.75 | 0   | 73      | 35          | On    |
| 006  |             | 567             | 20 Nov 03 | 0633 | N07:08.97 | W080:56.84 | 2   | 99      | 5           | Off   |
| 006  |             | 568             | 20 Nov 03 | 0646 | N07:11.76 | W081:01.36 | 2   | 126     | 14          | On    |
| 006  |             | 569             | 20 Nov 03 | 0706 | N07:13.17 | W081:02.19 | 2   | 126     | 2           | On    |
| 006  |             | 570             | 20 Nov 03 | 0707 | N07:12.39 | W081:01.22 | 2   | 84      | 8           | Off   |
| 006  |             | 572             | 20 Nov 03 | 0711 | N07:13.77 | W081:02.28 | 2   | 126     | 2           | On    |
| 006  |             | 574             | 20 Nov 03 | 0717 | N07:14.93 | W081:03.60 | 2   | 126     | 1           | On    |
| 006  |             | 575             | 20 Nov 03 | 0719 | N07:13.71 | W081:02.89 | 2   | 126     | 10          | On    |
| 006  |             | 576             | 20 Nov 03 | 0722 | N07:14.06 | W081:03.73 | 2   | 126     | 6           | On    |
| 006  |             | 577             | 20 Nov 03 | 0750 | N07:16.08 | W081:07.43 | 3   | 233     | 10          | On    |
| 006  |             | 579             | 20 Nov 03 | 0830 | N07:20.07 | W081:13.47 | 2   | 233     | 9           | On    |
| 006  |             | 581             | 20 Nov 03 | 0932 | N07:18.43 | W081:22.00 | 2   | 224     | 4           | On    |
| 006  |             | 587             | 20 Nov 03 | 1157 | N07:05.43 | W081:41.02 | 4   | 199     | 323         | On    |
| 006  |             | 588             | 20 Nov 03 | 1507 | N07:19.73 | W082:00.20 | 4   | 233     | 49          | On    |
| 006  |             | 593             | 20 Nov 03 | 1757 | N07:31.33 | W082:07.25 | 3   | 126     | 20          | On    |
| 006  |             | 597             | 21 Nov 03 | 0830 | N08:23.95 | W083:36.85 | 2   | 233     | 59          | On    |
| 006  |             | 598             | 21 Nov 03 | 0915 | N08:27.58 | W083:41.68 | 2   | 73      | 82          | On    |
| 006  |             | 599             | 21 Nov 03 | 0950 | N08:28.51 | W083:43.59 | 2   | 200     | 10          | On    |
| 006  |             | 601             | 21 Nov 03 | 1014 | N08:31.41 | W083:50.11 | 2   | 224     | 164         | On    |
| 006  |             | 602             | 21 Nov 03 | 1234 | N08:39.76 | W083:58.54 | 2   | 233     | 158         | On    |
| 006  |             | 604             | 21 Nov 03 | 1451 | N08:56.04 | W084:06.32 | 3   | 233     | 70          | On    |
| 006  |             | 605             | 21 Nov 03 | 1550 | N08:57.57 | W084:08.24 | 3   | 73      | 65          | On    |
| 006  |             | 1167            | 13 Aug 03 | 1123 | N24:06.05 | W107:53.42 | 1   | 224     | 52          | On    |
| 006  |             | 1207            | 16 Aug 03 | 1821 | N19:41.29 | W105:22.68 | 4   | 200     | 620         | On    |
| 006  |             | 1211            | 20 Aug 03 | 1740 | N18:12.69 | W103:33.13 | 3   | 126     | 21          | On    |
| 006  |             | 1302            | 6 Sep 03  | 0810 | N17:20.04 | W101:14.36 | 2   | 233     | 10          | On    |
| 006  |             | 1303            | 6 Sep 03  | 0939 | N17:16.66 | W101:08.77 | 2   | 200     | 11          | On    |
| 006  |             | 1306            | 6 Sep 03  | 1153 | N17:09.19 | W100:58.25 | 2   | 224     | 74          | On    |
| 006  |             | 1308            | 6 Sep 03  | 1245 | N17:09.14 | W100:54.46 | 1   | 73      | 28          | On    |
| 006  |             | 1314            | 17 Sep 03 | 1646 | N16:39.61 | W099:45.64 | 4   | 200     | 45          | On    |
| 006  |             | 1315            | 17 Sep 03 | 1747 | N16:36.92 | W099:39.42 | 3   | 199     | 27          | On    |
| 006  |             | 1316            | 17 Sep 03 | 1818 | N16:35.17 | W099:34.37 | 3   | 126     | 107         | On    |
| 006  |             | 1317            | 18 Sep 03 | 0634 | N16:03.01 | W098:22.71 | 3   | 126     | 171         | On    |
| 006  |             | 1320            | 18 Sep 03 | 0848 | N16:04.22 | W098:07.95 | 3   | 126     | 29          | On    |
| 006  |             | 1349            | 24 Sep 03 | 0820 | N13:44.51 | W090:54.73 | 4   | 73      | 10          | On    |
| 006  |             | 1351            | 24 Sep 03 | 0836 | N13:44.66 | W090:52.50 | 4   | 200     | 29          | On    |
| 006  |             | 1396            | 27 Sep 03 | 1051 | N12:36.88 | W088:41.74 | 2   | 73      | 250         | On    |
| 006  | 018         | 1400            | 27 Sep 03 | 1245 | N12:40.16 | W088:33.88 | 2   | 126     | 144         | On    |
| 006  |             | 1407            | 27 Sep 03 | 1556 | N12:38.16 | W088:18.99 | 1   | 200     | 308         | On    |
| 006  |             | 1408            | 27 Sep 03 | 1658 | N12:41.99 | W088:12.68 | 2   | 233     | 24          | On    |
| 006  |             | 1412            | 28 Sep 03 | 1111 | N11:46.97 | W087:16.42 | 3   | 200     | 13          | On    |
| 006  |             | 1418            | 28 Sep 03 | 1642 | N11:33.32 | W086:38.22 | 2   | 227     | 3           | Off   |
| 006  |             | 1419            | 28 Sep 03 | 1747 | N11:30.72 | W086:28.06 | 2   | 73      | 8           | On    |
| 006  |             | 1420            | 28 Sep 03 | 1806 | N11:29.20 | W086:25.14 | 3   | 73      | 11          | On    |
| 006  |             | 1422            | 29 Sep 03 | 0635 | N10:38.30 | W085:53.86 | 3   | 126     | 3           | Off   |
| 006  |             | 1423            | 29 Sep 03 | 0641 | N10:37.25 | W085:53.94 | 3   | 199     | 15          | On    |
| 006  |             | 1424            | 29 Sep 03 | 0708 | N10:32.70 | W085:54.56 | 3   | 126     | 28          | On    |
| 006  |             | 1425            | 29 Sep 03 | 0733 | N10:28.40 | W085:55.40 | 3   | 224     | 48          | On    |
| 006  |             | 1426            | 29 Sep 03 | 0808 | N10:22.13 | W085:57.36 | 2   | 224     | 50          | On    |
| 006  | 018         | 1427            | 29 Sep 03 | 0847 | N10:17.14 | W085:58.79 | 2   | 233     | 30          | On    |
| 006  |             | 1428            | 29 Sep 03 | 0927 | N10:12.84 | W085:57.03 | 2   | 200     | 30          | On    |
| 006  |             | 1429            | 29 Sep 03 | 0956 | N10:08.21 | W085:56.00 | 2   | 200     | 20          | On    |
| 006  |             | 1430            | 29 Sep 03 | 1019 | N10:03.97 | W085:53.06 | 2   | 126     | 13          | On    |
| 006  |             | 1431            | 29 Sep 03 | 1130 | N09:54.60 | W085:54.84 | 2   | 126     | 80          | On    |

Table 2. Marine mammal sightings (continued).

| Code                                    | Other Codes | Sighting Number | Date      | Time      | Latitude  | Longitude  | Bft        | Obs No. | School Size | Efort |    |
|---|-------------|-----------------|-----------|-----------|-----------|------------|------------|---------|-------------|-------|----|
| 006                                     |             | 1435            | 29 Sep 03 | 1617      | N09:40.23 | W085:19.24 | 4          | 224     | 63          | On    |    |
| 006                                     |             | 1436            | 29 Sep 03 | 1711      | N09:40.45 | W085:15.80 | 4          | 73      | 10          | On    |    |
| 006                                     |             | 1503            | 28 Oct 03 | 0848      | N13:49.81 | W090:52.99 | 1          | 1       | 17          | On    |    |
| 006                                     | 018         | 1504            | 28 Oct 03 | 0912      | N13:48.53 | W090:56.27 | 1          | 230     | 53          | On    |    |
| 006                                     |             | 1506            | 28 Oct 03 | 1137      | N13:46.86 | W091:19.39 | 1          | 1       | 8           | On    |    |
| 006                                     |             | 1509            | 28 Oct 03 | 1256      | N13:48.16 | W091:29.97 | 1          | 125     | 42          | On    |    |
| 006                                     |             | 1510            | 28 Oct 03 | 1341      | N13:50.74 | W091:34.78 | 1          | 125     | 14          | On    |    |
| 006                                     |             | 1511            | 28 Oct 03 | 1409      | N13:50.91 | W091:37.92 | 2          | 7       | 5           | On    |    |
| 006                                     |             | 1513            | 28 Oct 03 | 1524      | N13:49.40 | W091:50.56 | 1          | 1       | 37          | On    |    |
| 006                                     |             | 1515            | 28 Oct 03 | 1552      | N13:51.27 | W091:54.37 | 2          | 228     | 13          | On    |    |
| 006                                     |             | 1518            | 28 Oct 03 | 1618      | N13:50.80 | W091:55.61 | 2          | 125     | 14          | On    |    |
| 006                                     |             | 1520            | 28 Oct 03 | 1652      | N13:52.41 | W091:57.70 | 2          | 1       | 8           | On    |    |
| 006                                     |             | 1523            | 29 Oct 03 | 0644      | N15:03.07 | W092:55.55 | 2          | 228     | 16          | On    |    |
| 006                                     |             | 1524            | 29 Oct 03 | 0749      | N15:04.89 | W093:06.65 | 1          | 208     | 33          | On    |    |
| 006                                     |             | 1525            | 29 Oct 03 | 0828      | N15:05.53 | W093:11.62 | 1          | 1       | 47          | On    |    |
| 006                                     |             | 1526            | 29 Oct 03 | 0841      | N15:05.51 | W093:15.20 | 1          | 1       | 15          | On    |    |
| 006                                     |             | 1528            | 29 Oct 03 | 0908      | N15:04.98 | W093:16.82 | 1          | 125     | 13          | On    |    |
| 006                                     | 090         | 1531            | 29 Oct 03 | 1226      | N15:06.96 | W093:43.12 | 3          | 230     | 81          | On    |    |
| 006                                     |             | 1537            | 30 Oct 03 | 0623      | N16:06.26 | W094:37.62 | 1          | 228     | 38          | On    |    |
| 006                                     |             | 1539            | 30 Oct 03 | 0646      | N16:03.75 | W094:38.37 | 1          | 125     | 20          | On    |    |
| 006                                     |             | 1540            | 30 Oct 03 | 0646      | N16:04.77 | W094:39.38 | 1          | 208     | 20          | On    |    |
| 006                                     |             | 1541            | 30 Oct 03 | 0708      | N16:02.65 | W094:40.99 | 1          | 125     | 7           | On    |    |
| 006                                     |             | 1542            | 30 Oct 03 | 1045      | N15:48.25 | W095:12.11 | 1          | 1       | 2           | On    |    |
| 006                                     |             | 1652            | 17 Nov 03 | 0754      | N17:38.32 | W102:04.01 | 2          | 125     | 160         | On    |    |
| 006                                     |             | 1658            | 17 Nov 03 | 1216      | N17:49.93 | W102:31.08 | 4          | 1       | 210         | On    |    |
| <i>Stenella longirostris orientalis</i> |             |                 |           |           |           |            |            |         |             |       |    |
| 010                                     | 002         | 69              | 11 Aug 03 | 1617      | N10:50.77 | W131:29.62 | 5          | 228     | 66          | On    |    |
| 010                                     | 002         | 301             | 27 Sep 03 | 1355      | N06:44.31 | W091:16.27 | 4          | 125     | 301         | On    |    |
| 010                                     | 002         | 303             | 27 Sep 03 | 1511      | N06:45.28 | W091:11.93 | 4          | 7       | 202         | On    |    |
| 010                                     | 002         | 333             | 8 Oct 03  | 1537      | N05:09.22 | W084:44.78 | 5          | 126     | 132         | On    |    |
| 010                                     | 002         | 011             | 521       | 12 Nov 03 | 0929      | N05:32.73  | W083:00.33 | 4       | 233         | 248   | On |
| 010                                     |             | 699             | 25 Nov 03 | 1333      | N09:06.53 | W093:08.12 | 2          | 73      | 30          | Off   |    |
| 010                                     |             | 700             | 25 Nov 03 | 1409      | N09:04.62 | W093:11.14 | 2          | 200     | 58          | On    |    |
| 010                                     | 002         | 740             | 28 Nov 03 | 1109      | N09:36.44 | W101:27.54 | 4          | 73      | 257         | On    |    |
| 010                                     | 002         | 741             | 28 Nov 03 | 1229      | N09:30.20 | W101:40.49 | 4          | 224     | 205         | On    |    |
| 010                                     | 002         | 742             | 28 Nov 03 | 1405      | N09:25.95 | W101:55.22 | 4          | 233     | 187         | On    |    |
| 010                                     | 177         | 745             | 29 Nov 03 | 0949      | N11:01.91 | W104:25.80 | 4          | 126     | 60          | On    |    |
| 010                                     | 002         | 747             | 29 Nov 03 | 1029      | N11:07.77 | W104:31.67 | 5          | 73      | 400         | On    |    |
| 010                                     |             | 757             | 1 Dec 03  | 0833      | N14:47.16 | W109:27.33 | 4          | 224     | 15          | On    |    |
| 010                                     |             | 759             | 1 Dec 03  | 1148      | N14:36.98 | W109:50.07 | 4          | 200     | 203         | On    |    |
| 010                                     | 002         | 762             | 1 Dec 03  | 1643      | N14:22.24 | W110:35.62 | 4          | 224     | 220         | On    |    |
| 010                                     | 177         | 763             | 1 Dec 03  | 1740      | N14:19.16 | W110:37.50 | 4          | 73      | 40          | On    |    |
| 010                                     |             | 764             | 1 Dec 03  | 1813      | N14:17.90 | W110:40.76 | 4          | 233     | 20          | On    |    |
| 010                                     | 002         | 769             | 2 Dec 03  | 1246      | N15:30.22 | W112:39.42 | 4          | 73      | 130         | On    |    |
| 010                                     | 002         | 1106            | 9 Aug 03  | 1615      | N21:54.32 | W109:49.30 | 1          | 126     | 106         | On    |    |
| 010                                     | 002         | 1119            | 10 Aug 03 | 1304      | N23:45.68 | W109:05.30 | 3          | 233     | 187         | On    |    |
| 010                                     | 002         | 1188            | 15 Aug 03 | 1256      | N21:26.89 | W108:05.03 | 3          | 73      | 165         | On    |    |
| 010                                     | 002         | 1189            | 15 Aug 03 | 1428      | N21:15.55 | W108:05.94 | 2          | 199     | 355         | On    |    |
| 010                                     | 002         | 1190            | 15 Aug 03 | 1527      | N21:11.50 | W108:10.86 | 2          | 126     | 264         | On    |    |
| 010                                     |             | 1196            | 16 Aug 03 | 0810      | N20:15.30 | W106:29.21 | 3          | 73      | 77          | On    |    |
| 010                                     | 002         | 1198            | 16 Aug 03 | 0959      | N20:06.24 | W106:19.97 | 3          | 73      | 237         | On    |    |
| 010                                     | 002         | 1200            | 16 Aug 03 | 1226      | N20:07.73 | W106:08.93 | 3          | 73      | 98          | On    |    |
| 010                                     | 002         | 015             | 1222      | 21 Aug 03 | 1316      | N17:34.81  | W105:34.81 | 1       | 126         | 146   | On |
| 010                                     | 002         | 1226            | 21 Aug 03 | 1626      | N17:32.06 | W105:57.41 | 0          | 73      | 417         | On    |    |
| 010                                     | 002         | 1238            | 22 Aug 03 | 1519      | N16:47.20 | W108:21.99 | 2          | 200     | 490         | On    |    |

Table 2. Marine mammal sightings (continued).

| Code                                      | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|---|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 010                                       |             | 1243            | 23 Aug 03 | 0928 | N16:12.33 | W110:36.07 | 2   | 126     | 62          | On    |
| 010 002                                   |             | 1246            | 23 Aug 03 | 1236 | N16:03.26 | W110:58.32 | 3   | 126     | 36          | On    |
| 010 002                                   |             | 1268            | 28 Aug 03 | 0932 | N10:51.23 | W124:03.04 | 4   | 126     | 345         | On    |
| 010 002                                   |             | 1269            | 28 Aug 03 | 1027 | N10:47.10 | W124:04.98 | 4   | 199     | 83          | On    |
| 010 002                                   |             | 1278            | 30 Aug 03 | 0955 | N11:16.88 | W119:47.99 | 3   | 126     | 166         | On    |
| 010 002                                   |             | 1279            | 30 Aug 03 | 1159 | N11:20.33 | W119:35.96 | 3   | 73      | 475         | On    |
| 010                                       |             | 1284            | 30 Aug 03 | 1811 | N11:37.71 | W118:59.30 | 2   | 73      | 42          | On    |
| 010                                       |             | 1287            | 30 Aug 03 | 1940 | N11:35.49 | W118:51.12 | 2   | 199     | 102         | On    |
| 010                                       |             | 1292            | 31 Aug 03 | 1437 | N12:18.57 | W116:50.56 | 4   | 73      | 643         | On    |
| 010 002                                   |             | 1294            | 1 Sep 03  | 1434 | N13:25.61 | W113:35.13 | 4   | 200     | 470         | On    |
| 010 002                                   |             | 1299            | 5 Sep 03  | 1052 | N17:13.14 | W102:59.59 | 4   | 73      | 243         | On    |
| 010 002                                   |             | 1300            | 5 Sep 03  | 1245 | N17:16.05 | W102:45.76 | 4   | 233     | 112         | On    |
| 010 002                                   |             | 1322            | 19 Sep 03 | 0757 | N14:52.56 | W098:56.92 | 4   | 73      | 158         | On    |
| 010 002                                   |             | 1324            | 19 Sep 03 | 0904 | N14:48.22 | W099:06.22 | 4   | 199     | 357         | On    |
| 010 002                                   | 096         | 1326            | 20 Sep 03 | 0732 | N13:23.10 | W101:25.95 | 2   | 73      | 133         | On    |
| 010 002                                   |             | 1329            | 20 Sep 03 | 1728 | N12:55.84 | W101:17.75 | 2   | 126     | 225         | On    |
| 010 002                                   |             | 1335            | 22 Sep 03 | 1337 | N13:27.97 | W096:09.07 | 4   | 73      | 635         | On    |
| 010 002                                   |             | 1339            | 22 Sep 03 | 1835 | N13:28.98 | W095:28.88 | 3   | 200     | 213         | On    |
| 010 002                                   |             | 1342            | 23 Sep 03 | 0848 | N13:32.48 | W093:54.05 | 2   | 233     | 57          | On    |
| 010 002                                   |             | 1452            | 12 Oct 03 | 0703 | N06:21.98 | W094:41.43 | 4   | 208     | 170         | On    |
| 010 002                                   |             | 1456            | 12 Oct 03 | 1241 | N06:24.68 | W095:12.51 | 3   | 1       | 67          | On    |
| 010 002                                   |             | 1473            | 19 Oct 03 | 0741 | N11:03.20 | W103:37.93 | 3   | 228     | 192         | On    |
| 010 002                                   |             | 1477            | 19 Oct 03 | 1204 | N11:22.06 | W103:11.31 | 2   | 125     | 263         | On    |
| 010                                       |             | 1485            | 21 Oct 03 | 0906 | N11:49.14 | W098:35.04 | 4   | 230     | 82          | On    |
| 010 090                                   |             | 1487            | 21 Oct 03 | 1045 | N11:43.58 | W098:23.18 | 4   | 1       | 35          | Off   |
| 010 002                                   |             | 1489            | 21 Oct 03 | 1407 | N11:40.65 | W098:03.90 | 4   | 1       | 187         | On    |
| 010 002                                   |             | 1491            | 22 Oct 03 | 0933 | N11:32.08 | W096:09.07 | 5   | 208     | 277         | On    |
| 010 002                                   |             | 1492            | 22 Oct 03 | 1637 | N11:54.53 | W095:21.70 | 5   | 208     | 141         | On    |
| 010 002                                   |             | 1494            | 23 Oct 03 | 0740 | N12:31.67 | W093:46.66 | 4   | 7       | 457         | On    |
| 010 002                                   |             | 1552            | 31 Oct 03 | 0626 | N14:45.71 | W097:00.78 | 2   | 125     | 212         | On    |
| 010                                       |             | 1553            | 31 Oct 03 | 0729 | N14:42.13 | W097:05.24 | 2   | 7       | 11          | On    |
| 010 002                                   |             | 1557            | 31 Oct 03 | 0918 | N14:29.99 | W097:17.41 | 2   | 208     | 194         | On    |
| 010 002                                   |             | 1571            | 1 Nov 03  | 1633 | N15:09.97 | W101:06.33 | 1   | 228     | 292         | On    |
| 010 002                                   |             | 1581            | 3 Nov 03  | 0748 | N12:27.05 | W105:52.97 | 4   | 7       | 138         | On    |
| 010 002                                   |             | 1582            | 3 Nov 03  | 0848 | N12:25.02 | W106:01.78 | 4   | 208     | 38          | On    |
| 010 002                                   |             | 1583            | 3 Nov 03  | 1034 | N12:18.31 | W106:14.81 | 4   | 7       | 160         | On    |
| 010 002                                   |             | 1584            | 3 Nov 03  | 1525 | N11:54.71 | W106:53.47 | 4   | 7       | 95          | On    |
| 010                                       |             | 1585            | 4 Nov 03  | 0726 | N10:43.63 | W108:36.66 | 4   | 208     | 70          | On    |
| 010 002                                   |             | 1586            | 4 Nov 03  | 0833 | N10:39.92 | W108:47.34 | 5   | 228     | 515         | On    |
| 010 002                                   |             | 1588            | 4 Nov 03  | 0918 | N10:36.53 | W108:49.87 | 5   | 208     | 238         | On    |
| 010 002                                   |             | 1590            | 5 Nov 03  | 1456 | N08:59.87 | W111:18.48 | 4   | 208     | 168         | On    |
| 010 002                                   |             | 1615            | 11 Nov 03 | 1656 | N10:38.23 | W114:34.75 | 5   | 125     | 113         | On    |
| 010 002                                   |             | 1616            | 12 Nov 03 | 0650 | N11:20.77 | W112:53.24 | 4   | 208     | 129         | On    |
| 010 002                                   |             | 1620            | 12 Nov 03 | 1117 | N11:34.71 | W112:25.45 | 4   | 208     | 410         | On    |
| 010 002                                   |             | 1622            | 13 Nov 03 | 0805 | N12:42.45 | W110:10.22 | 4   | 125     | 215         | On    |
| 010                                       |             | 1623            | 13 Nov 03 | 1028 | N12:52.44 | W109:57.07 | 5   | 1       | 126         | On    |
| 010 002                                   |             | 1624            | 13 Nov 03 | 1107 | N12:52.70 | W109:52.91 | 5   | 208     | 133         | On    |
| 010 002                                   |             | 1625            | 13 Nov 03 | 1409 | N13:06.29 | W109:30.55 | 5   | 1       | 287         | On    |
| 010 002                                   |             | 1631            | 14 Nov 03 | 1116 | N14:13.11 | W106:54.59 | 3   | 1       | 57          | On    |
| 010 002                                   |             | 1691            | 24 Nov 03 | 1617 | N17:42.92 | W111:22.58 | 4   | 230     | 115         | On    |
| 010 002                                   |             | 1695            | 25 Nov 03 | 1140 | N17:06.48 | W114:03.23 | 4   | 208     | 88          | On    |
| <i>Stenella longirostris</i> (whitebelly) |             |                 |           |      |           |            |     |         |             |       |
| 011                                       |             | 41              | 6 Aug 03  | 1037 | N15:02.74 | W127:18.92 | 5   | 231     | 22          | Off   |
| 011                                       |             | 75              | 12 Aug 03 | 1716 | N13:08.13 | W133:39.75 | 3   | 125     | 142         | On    |
| 011 002                                   |             | 77              | 12 Aug 03 | 1813 | N13:13.93 | W133:44.67 | 2   | 125     | 220         | On    |

Table 2. Marine mammal sightings (continued).

| Code                         | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 011                          | 002         | 79              | 13 Aug 03 | 0826 | N14:16.35 | W134:55.49 | 3   | 208     | 343         | On    |
| 011                          | 002         | 83              | 13 Aug 03 | 1622 | N14:59.02 | W135:49.31 | 3   | 125     | 233         | On    |
| 011                          |             | 86              | 14 Aug 03 | 0659 | N13:18.58 | W136:16.87 | 2   | 1       | 10          | On    |
| 011                          | 002         | 89              | 14 Aug 03 | 1011 | N12:49.30 | W136:19.25 | 1   | 208     | 316         | On    |
| 011                          | 013 002 077 | 91              | 14 Aug 03 | 1128 | N12:40.65 | W136:23.62 | 2   | 208     | 304         | On    |
| 011                          | 002 072     | 98              | 14 Aug 03 | 1846 | N11:52.75 | W136:28.68 | 4   | 1       | 525         | On    |
| 011                          |             | 99              | 15 Aug 03 | 0741 | N10:37.87 | W136:48.28 | 2   | 1       | 15          | On    |
| 011                          | 002         | 101             | 15 Aug 03 | 0832 | N10:32.74 | W136:52.62 | 2   | 125     | 135         | On    |
| 011                          | 002         | 103             | 15 Aug 03 | 0953 | N10:20.20 | W136:53.28 | 2   | 208     | 48          | Off   |
| 011                          |             | 110             | 15 Aug 03 | 1612 | N09:43.60 | W136:58.17 | 2   | 7       | 65          | On    |
| 011                          | 002 077     | 120             | 18 Aug 03 | 0649 | N06:34.55 | W140:07.65 | 4   | 7       | 117         | On    |
| 011                          | 002         | 123             | 18 Aug 03 | 1116 | N07:06.40 | W140:32.42 | 4   | 7       | 78          | On    |
| 011                          | 002         | 124             | 18 Aug 03 | 1236 | N07:16.84 | W140:37.44 | 4   | 208     | 83          | On    |
| 011                          | 002         | 125             | 18 Aug 03 | 1429 | N07:28.17 | W140:49.40 | 4   | 228     | 162         | On    |
| 011                          | 002         | 127             | 18 Aug 03 | 1626 | N07:31.43 | W141:01.12 | 3   | 125     | 197         | On    |
| 011                          | 002         | 130             | 19 Aug 03 | 0757 | N08:48.88 | W142:12.56 | 3   | 208     | 82          | On    |
| 011                          | 077         | 137             | 19 Aug 03 | 1449 | N09:22.57 | W142:57.97 | 2   | 1       | 35          | On    |
| 011                          |             | 141             | 20 Aug 03 | 0750 | N09:04.94 | W144:53.20 | 0   | 230     | 193         | On    |
| 011                          |             | 143             | 20 Aug 03 | 0855 | N09:01.25 | W144:59.44 | 1   | 230     | 136         | On    |
| 011                          | 002         | 145             | 20 Aug 03 | 1033 | N08:51.39 | W145:05.90 | 2   | 1       | 157         | On    |
| 011                          | 002         | 146             | 20 Aug 03 | 1119 | N08:49.85 | W145:12.90 | 1   | 208     | 260         | On    |
| 011                          |             | 150             | 20 Aug 03 | 1227 | N08:50.73 | W145:19.24 | 1   | 125     | 17          | On    |
| 011                          |             | 151             | 20 Aug 03 | 1310 | N08:49.93 | W145:25.32 | 1   | 230     | 9           | On    |
| 011                          | 002         | 200             | 11 Sep 03 | 0606 | N09:36.85 | W138:23.29 | 2   | 1       | 227         | On    |
| 011                          | 002         | 216             | 11 Sep 03 | 1526 | N09:14.34 | W137:44.03 | 3   | 230     | 117         | On    |
| 011                          | 002         | 254             | 20 Sep 03 | 1318 | N03:10.80 | W114:30.03 | 4   | 1       | 568         | On    |
| 011                          | 002         | 258             | 20 Sep 03 | 1609 | N03:06.49 | W114:11.71 | 4   | 7       | 148         | On    |
| 011                          | 002         | 272             | 23 Sep 03 | 1656 | N04:11.20 | W103:16.34 | 5   | 125     | 330         | On    |
| 011                          | 002         | 298             | 27 Sep 03 | 0719 | N06:21.32 | W092:06.39 | 4   | 7       | 146         | On    |
| 011                          | 002 010     | 521             | 12 Nov 03 | 0929 | N05:32.73 | W083:00.33 | 4   | 233     | 248         | On    |
| 011                          | 002         | 713             | 26 Nov 03 | 0832 | N08:26.10 | W095:14.81 | 3   | 233     | 307         | On    |
| 011                          | 002         | 714             | 26 Nov 03 | 1023 | N08:20.00 | W095:26.37 | 3   | 199     | 107         | On    |
| 011                          | 002         | 720             | 26 Nov 03 | 1359 | N08:10.35 | W095:54.59 | 2   | 126     | 160         | On    |
| 011                          | 002         | 774             | 3 Dec 03  | 1224 | N16:49.51 | W114:55.80 | 4   | 233     | 185         | On    |
| 011                          | 002         | 1453            | 12 Oct 03 | 0757 | N06:19.05 | W094:49.65 | 4   | 1       | 158         | On    |
| 011                          | 002         | 1463            | 15 Oct 03 | 1117 | N06:08.58 | W102:55.51 | 4   | 208     | 65          | On    |
| <i>Stenella coeruleoalba</i> |             |                 |           |      |           |            |     |         |             |       |
| 013                          |             | 17              | 30 Jul 03 | 1926 | N29:43.77 | W118:44.56 | 3   | 228     | 175         | On    |
| 013                          |             | 18              | 31 Jul 03 | 0651 | N28:53.02 | W119:58.60 | 1   | 208     | 38          | On    |
| 013                          |             | 20              | 31 Jul 03 | 0854 | N28:40.28 | W120:13.63 | 1   | 125     | 53          | On    |
| 013                          |             | 21              | 31 Jul 03 | 1047 | N28:26.30 | W120:26.68 | 1   | 228     | 86          | On    |
| 013                          |             | 22              | 31 Jul 03 | 1152 | N28:21.29 | W120:34.14 | 1   | 1       | 19          | On    |
| 013                          |             | 23              | 31 Jul 03 | 1321 | N28:11.13 | W120:47.43 | 1   | 125     | 63          | On    |
| 013                          |             | 24              | 31 Jul 03 | 1511 | N27:57.77 | W121:02.07 | 1   | 228     | 61          | On    |
| 013                          |             | 27              | 1 Aug 03  | 0740 | N26:31.56 | W122:57.23 | 2   | 228     | 22          | On    |
| 013                          |             | 34              | 4 Aug 03  | 1827 | N19:12.80 | W125:59.30 | 5   | 7       | 37          | On    |
| 013                          |             | 40              | 5 Aug 03  | 1650 | N17:18.71 | W127:28.59 | 4   | 1       | 9           | Off   |
| 013                          |             | 42              | 6 Aug 03  | 1329 | N14:36.94 | W127:20.22 | 5   | 7       | 31          | On    |
| 013                          |             | 50              | 8 Aug 03  | 1746 | N07:40.14 | W126:49.05 | 4   | 1       | 63          | On    |
| 013                          |             | 51              | 8 Aug 03  | 1811 | N07:37.25 | W126:51.00 | 4   | 1       | 57          | On    |
| 013                          | 002         | 52              | 8 Aug 03  | 1838 | N07:35.36 | W126:51.77 | 4   | 230     | 49          | On    |
| 013                          |             | 56              | 9 Aug 03  | 0902 | N06:33.15 | W127:01.29 | 4   | 208     | 21          | Off   |
| 013                          |             | 57              | 9 Aug 03  | 1216 | N06:53.18 | W127:25.66 | 4   | 125     | 33          | On    |
| 013                          |             | 62              | 10 Aug 03 | 1244 | N08:25.34 | W128:55.43 | 4   | 228     | 15          | On    |
| 013                          |             | 71              | 12 Aug 03 | 1253 | N12:46.55 | W133:29.63 | 4   | 208     | 35          | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 013  |             | 78              | 13 Aug 03 | 0651 | N14:07.47 | W134:45.46 | 2   | 208     | 53          | On    |
| 013  |             | 80              | 13 Aug 03 | 1118 | N14:32.47 | W135:10.21 | 3   | 7       | 43          | On    |
| 013  |             | 82              | 13 Aug 03 | 1450 | N14:52.32 | W135:39.00 | 3   | 208     | 35          | On    |
| 013  | 002         | 88              | 14 Aug 03 | 0917 | N12:55.57 | W136:18.29 | 1   | 7       | 55          | On    |
| 013  | 011 002 077 | 91              | 14 Aug 03 | 1128 | N12:40.65 | W136:23.62 | 2   | 208     | 304         | On    |
| 013  |             | 92              | 14 Aug 03 | 1300 | N12:36.15 | W136:25.49 | 2   | 125     | 34          | On    |
| 013  |             | 97              | 14 Aug 03 | 1725 | N12:05.20 | W136:34.11 | 4   | 7       | 27          | On    |
| 013  |             | 111             | 15 Aug 03 | 1753 | N09:25.33 | W137:00.56 | 3   | 208     | 25          | On    |
| 013  |             | 129             | 19 Aug 03 | 0659 | N08:43.73 | W142:12.56 | 4   | 228     | 49          | On    |
| 013  |             | 131             | 19 Aug 03 | 0833 | N08:52.54 | W142:13.62 | 3   | 1       | 49          | On    |
| 013  |             | 132             | 19 Aug 03 | 1003 | N08:59.69 | W142:20.68 | 4   | 7       | 41          | On    |
| 013  |             | 144             | 20 Aug 03 | 0931 | N08:56.09 | W145:03.84 | 1   | 208     | 130         | On    |
| 013  |             | 156             | 20 Aug 03 | 1731 | N08:24.97 | W146:01.36 | 1   | 208     | 32          | On    |
| 013  |             | 187             | 9 Sep 03  | 0853 | N12:33.41 | W143:10.98 | 4   | 1       | 27          | On    |
| 013  |             | 199             | 10 Sep 03 | 1524 | N10:31.12 | W139:55.09 | 4   | 228     | 63          | On    |
| 013  |             | 201             | 11 Sep 03 | 0713 | N09:30.88 | W138:22.71 | 2   | 208     | 55          | On    |
| 013  |             | 206             | 11 Sep 03 | 1038 | N09:27.16 | W138:12.74 | 2   | 1       | 58          | On    |
| 013  |             | 210             | 11 Sep 03 | 1357 | N09:21.31 | W137:51.97 | 1   | 208     | 38          | Off   |
| 013  |             | 212             | 11 Sep 03 | 1422 | N09:22.03 | W137:49.35 | 1   | 1       | 38          | On    |
| 013  |             | 219             | 12 Sep 03 | 1054 | N07:33.09 | W135:13.69 | 5   | 125     | 58          | On    |
| 013  |             | 221             | 12 Sep 03 | 1809 | N06:56.11 | W134:12.02 | 4   | 1       | 51          | On    |
| 013  |             | 271             | 22 Sep 03 | 1730 | N03:49.90 | W106:42.36 | 4   | 230     | 97          | On    |
| 013  |             | 274             | 24 Sep 03 | 0705 | N04:25.76 | W100:56.59 | 4   | 1       | 22          | On    |
| 013  |             | 276             | 24 Sep 03 | 1252 | N04:35.65 | W100:01.86 | 5   | 228     | 11          | On    |
| 013  |             | 279             | 24 Sep 03 | 1727 | N04:44.09 | W099:29.77 | 4   | 208     | 36          | On    |
| 013  |             | 280             | 25 Sep 03 | 0632 | N04:39.37 | W097:50.54 | 4   | 1       | 46          | On    |
| 013  |             | 289             | 25 Sep 03 | 1556 | N04:50.16 | W096:29.82 | 4   | 228     | 43          | On    |
| 013  |             | 290             | 25 Sep 03 | 1713 | N04:55.09 | W096:16.75 | 4   | 1       | 41          | On    |
| 013  |             | 297             | 27 Sep 03 | 0714 | N06:21.88 | W092:08.07 | 4   | 208     | 17          | On    |
| 013  |             | 308             | 28 Sep 03 | 0900 | N07:57.08 | W089:28.59 | 5   | 7       | 77          | On    |
| 013  |             | 310             | 28 Sep 03 | 1010 | N08:08.50 | W089:27.18 | 5   | 7       | 39          | Off   |
| 013  |             | 312             | 28 Sep 03 | 1040 | N08:09.23 | W089:24.53 | 5   | 208     | 28          | On    |
| 013  |             | 330             | 8 Oct 03  | 0602 | N06:32.32 | W084:46.17 | 4   | 233     | 89          | On    |
| 013  |             | 331             | 8 Oct 03  | 0919 | N06:05.06 | W084:41.64 | 4   | 233     | 33          | On    |
| 013  |             | 338             | 9 Oct 03  | 1316 | N03:34.17 | W086:46.78 | 4   | 199     | 60          | On    |
| 013  |             | 340             | 9 Oct 03  | 1528 | N03:25.39 | W086:56.44 | 4   | 199     | 15          | On    |
| 013  |             | 345             | 10 Oct 03 | 0759 | N02:12.34 | W088:28.14 | 5   | 126     | 1           | On    |
| 013  |             | 350             | 10 Oct 03 | 1027 | N01:58.62 | W088:40.11 | 4   | 200     | 11          | On    |
| 013  |             | 351             | 10 Oct 03 | 1253 | N01:49.96 | W088:59.00 | 5   | 126     | 26          | On    |
| 013  |             | 354             | 10 Oct 03 | 1752 | N01:27.50 | W089:21.80 | 5   | 73      | 62          | On    |
| 013  |             | 356             | 11 Oct 03 | 0728 | N00:33.23 | W090:37.68 | 4   | 224     | 39          | On    |
| 013  |             | 357             | 11 Oct 03 | 0802 | N00:29.09 | W090:38.32 | 4   | 233     | 183         | On    |
| 013  |             | 359             | 11 Oct 03 | 0843 | N00:25.41 | W090:41.33 | 4   | 199     | 33          | On    |
| 013  |             | 363             | 11 Oct 03 | 1138 | N00:04.90 | W090:57.63 | 4   | 224     | 178         | On    |
| 013  |             | 375             | 12 Oct 03 | 1727 | S01:42.24 | W093:19.53 | 4   | 73      | 94          | On    |
| 013  |             | 376             | 12 Oct 03 | 1827 | S01:43.78 | W093:29.05 | 4   | 224     | 11          | On    |
| 013  |             | 378             | 13 Oct 03 | 0853 | S02:51.16 | W095:06.46 | 3   | 224     | 125         | On    |
| 013  |             | 392             | 14 Oct 03 | 1747 | S05:32.54 | W098:40.93 | 4   | 126     | 122         | On    |
| 013  |             | 393             | 14 Oct 03 | 1822 | S05:31.23 | W098:44.75 | 4   | 126     | 26          | On    |
| 013  |             | 395             | 15 Oct 03 | 0909 | S06:44.34 | W100:16.14 | 5   | 200     | 32          | On    |
| 013  |             | 402             | 17 Oct 03 | 1855 | S09:26.88 | W099:39.42 | 5   | 224     | 89          | On    |
| 013  |             | 403             | 18 Oct 03 | 1502 | S09:15.17 | W097:01.32 | 5   | 199     | 203         | On    |
| 013  |             | 518             | 11 Nov 03 | 0953 | N05:09.02 | W080:41.63 | 4   | 126     | 56          | On    |
| 013  |             | 520             | 12 Nov 03 | 0720 | N05:16.13 | W083:02.07 | 4   | 233     | 17          | On    |
| 013  |             | 524             | 12 Nov 03 | 1552 | N06:21.92 | W082:37.06 | 3   | 224     | 53          | On    |
| 013  |             | 529             | 13 Nov 03 | 0744 | N06:24.93 | W080:47.34 | 2   | 200     | 50          | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 013  |             | 532             | 13 Nov 03 | 0856 | N06:20.15 | W080:42.63 | 2   | 126     | 72          | On    |
| 013  |             | 534             | 13 Nov 03 | 0925 | N06:15.34 | W080:40.31 | 2   | 73      | 7           | Off   |
| 013  |             | 535             | 13 Nov 03 | 0953 | N06:17.46 | W080:34.75 | 2   | 199     | 40          | On    |
| 013  |             | 536             | 13 Nov 03 | 1122 | N06:19.96 | W080:22.35 | 2   | 126     | 59          | On    |
| 013  |             | 542             | 13 Nov 03 | 1607 | N06:25.15 | W079:44.89 | 2   | 199     | 22          | On    |
| 013  |             | 623             | 23 Nov 03 | 0654 | N08:38.75 | W087:46.09 | 3   | 200     | 40          | On    |
| 013  |             | 626             | 23 Nov 03 | 0755 | N08:37.92 | W087:48.58 | 3   | 200     | 165         | On    |
| 013  |             | 630             | 23 Nov 03 | 0957 | N08:45.64 | W087:58.94 | 3   | 126     | 33          | On    |
| 013  |             | 633             | 23 Nov 03 | 1211 | N08:56.56 | W088:09.64 | 1   | 126     | 36          | On    |
| 013  |             | 634             | 23 Nov 03 | 1219 | N08:56.32 | W088:05.07 | 1   | 200     | 11          | On    |
| 013  | 017         | 646             | 23 Nov 03 | 1611 | N09:06.03 | W088:24.03 | 3   | 126     | 112         | On    |
| 013  |             | 652             | 24 Nov 03 | 0828 | N09:36.03 | W090:13.11 | 2   | 199     | 29          | On    |
| 013  |             | 656             | 24 Nov 03 | 0940 | N09:37.32 | W090:24.14 | 0   | 73      | 30          | On    |
| 013  |             | 657             | 24 Nov 03 | 1002 | N09:41.92 | W090:25.78 | 0   | 233     | 122         | On    |
| 013  |             | 658             | 24 Nov 03 | 1005 | N09:42.23 | W090:23.70 | 0   | 233     | 40          | On    |
| 013  |             | 661             | 24 Nov 03 | 1051 | N09:45.93 | W090:28.81 | 0   | 73      | 20          | On    |
| 013  |             | 679             | 24 Nov 03 | 1640 | N09:51.14 | W091:07.99 | 1   | 233     | 127         | On    |
| 013  |             | 682             | 24 Nov 03 | 1732 | N09:50.69 | W091:14.57 | 2   | 73      | 140         | On    |
| 013  |             | 685             | 25 Nov 03 | 0713 | N09:24.76 | W092:43.60 | 1   | 200     | 40          | On    |
| 013  |             | 686             | 25 Nov 03 | 0720 | N09:23.73 | W092:47.51 | 1   | 73      | 250         | Off   |
| 013  |             | 687             | 25 Nov 03 | 0744 | N09:23.21 | W092:48.69 | 1   | 224     | 96          | On    |
| 013  |             | 692             | 25 Nov 03 | 0952 | N09:18.71 | W092:58.11 | 2   | 84      | 5           | Off   |
| 013  |             | 693             | 25 Nov 03 | 1044 | N09:17.32 | W092:57.69 | 2   | 200     | 55          | On    |
| 013  |             | 694             | 25 Nov 03 | 1115 | N09:11.22 | W092:58.40 | 2   | 224     | 27          | On    |
| 013  |             | 696             | 25 Nov 03 | 1325 | N09:08.48 | W093:06.86 | 2   | 199     | 45          | On    |
| 013  |             | 702             | 25 Nov 03 | 1436 | N09:04.91 | W093:12.46 | 2   | 233     | 64          | On    |
| 013  |             | 704             | 25 Nov 03 | 1515 | N09:07.47 | W093:17.07 | 2   | 73      | 43          | On    |
| 013  |             | 705             | 25 Nov 03 | 1551 | N09:08.27 | W093:20.78 | 2   | 200     | 82          | On    |
| 013  |             | 706             | 25 Nov 03 | 1633 | N09:06.33 | W093:26.42 | 2   | 199     | 86          | On    |
| 013  |             | 708             | 25 Nov 03 | 1728 | N09:01.98 | W093:30.23 | 3   | 199     | 62          | On    |
| 013  |             | 709             | 25 Nov 03 | 1813 | N09:01.70 | W093:37.69 | 3   | 233     | 73          | On    |
| 013  |             | 712             | 26 Nov 03 | 0754 | N08:24.70 | W095:07.74 | 3   | 199     | 33          | On    |
| 013  |             | 715             | 26 Nov 03 | 1124 | N08:19.52 | W095:37.28 | 2   | 199     | 97          | On    |
| 013  |             | 716             | 26 Nov 03 | 1211 | N08:16.93 | W095:41.09 | 2   | 200     | 108         | On    |
| 013  |             | 718             | 26 Nov 03 | 1310 | N08:14.04 | W095:44.33 | 2   | 200     | 18          | Off   |
| 013  |             | 719             | 26 Nov 03 | 1319 | N08:12.56 | W095:47.51 | 2   | 73      | 86          | On    |
| 013  |             | 722             | 26 Nov 03 | 1529 | N08:06.47 | W096:01.39 | 2   | 199     | 112         | On    |
| 013  |             | 724             | 26 Nov 03 | 1645 | N08:08.96 | W096:08.88 | 2   | 73      | 15          | On    |
| 013  |             | 727             | 26 Nov 03 | 1726 | N08:04.19 | W096:13.79 | 2   | 126     | 84          | On    |
| 013  |             | 728             | 27 Nov 03 | 0651 | N08:49.43 | W097:44.12 | 3   | 126     | 111         | On    |
| 013  |             | 729             | 27 Nov 03 | 1100 | N08:58.33 | W098:25.18 | 3   | 233     | 56          | On    |
| 013  |             | 730             | 27 Nov 03 | 1203 | N08:59.86 | W098:28.43 | 4   | 200     | 79          | On    |
| 013  |             | 731             | 27 Nov 03 | 1237 | N09:05.85 | W098:31.12 | 3   | 233     | 6           | On    |
| 013  |             | 736             | 27 Nov 03 | 1533 | N09:12.43 | W098:44.12 | 2   | 199     | 15          | On    |
| 013  |             | 765             | 1 Dec 03  | 1840 | N14:17.79 | W110:45.66 | 4   | 233     | 22          | On    |
| 013  |             | 782             | 6 Dec 03  | 1153 | N23:26.15 | W119:33.16 | 1   | 73      | 74          | On    |
| 013  |             | 784             | 6 Dec 03  | 1425 | N23:50.00 | W119:28.20 | 2   | 199     | 193         | On    |
| 013  |             | 788             | 7 Dec 03  | 1109 | N25:56.38 | W119:10.87 | 3   | 73      | 145         | On    |
| 013  |             | 789             | 7 Dec 03  | 1156 | N26:00.72 | W119:08.71 | 3   | 200     | 36          | On    |
| 013  |             | 791             | 7 Dec 03  | 1224 | N26:04.13 | W119:10.66 | 2   | 199     | 136         | On    |
| 013  |             | 793             | 7 Dec 03  | 1646 | N26:34.68 | W119:03.31 | 3   | 199     | 22          | On    |
| 013  |             | 1048            | 5 Aug 03  | 1435 | N24:39.70 | W114:39.57 | 4   | 233     | 37          | On    |
| 013  |             | 1052            | 6 Aug 03  | 1253 | N22:47.67 | W115:01.68 | 4   | 224     | 21          | On    |
| 013  |             | 1070            | 8 Aug 03  | 1440 | N22:41.30 | W111:07.95 | 1   | 233     | 30          | Off   |
| 013  |             | 1074            | 8 Aug 03  | 1534 | N22:33.77 | W111:10.64 | 1   | 126     | 21          | On    |
| 013  |             | 1077            | 8 Aug 03  | 1658 | N22:32.33 | W111:14.08 | 1   | 233     | 58          | On    |

Table 2. Marine mammal sightings (continued).

| Code                     | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|--------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 013                      |             | 1099            | 9 Aug 03  | 1311 | N21:41.29 | W110:06.76 | 1   | 224     | 35          | On    |
| 013                      |             | 1102            | 9 Aug 03  | 1426 | N21:48.31 | W110:00.72 | 1   | 199     | 25          | On    |
| 013                      |             | 1104            | 9 Aug 03  | 1512 | N21:49.56 | W109:56.84 | 1   | 200     | 16          | On    |
| 013                      |             | 1105            | 9 Aug 03  | 1541 | N21:53.28 | W109:53.42 | 1   | 199     | 38          | On    |
| 013                      | 017         | 1107            | 9 Aug 03  | 1749 | N22:00.11 | W109:51.12 | 2   | 200     | 87          | On    |
| 013                      |             | 1109            | 9 Aug 03  | 1856 | N22:06.54 | W109:48.02 | 2   | 199     | 5           | On    |
| 013                      |             | 1185            | 15 Aug 03 | 0907 | N21:41.06 | W107:56.07 | 2   | 73      | 7           | On    |
| 013                      |             | 1194            | 15 Aug 03 | 1809 | N20:51.02 | W108:14.20 | 1   | 199     | 11          | On    |
| 013                      |             | 1217            | 21 Aug 03 | 1150 | N17:38.66 | W105:21.28 | 1   | 233     | 19          | On    |
| 013                      |             | 1224            | 21 Aug 03 | 1517 | N17:33.87 | W105:45.80 | 1   | 224     | 19          | On    |
| 013                      |             | 1225            | 21 Aug 03 | 1542 | N17:33.03 | W105:48.86 | 1   | 233     | 28          | On    |
| 013                      |             | 1230            | 21 Aug 03 | 1847 | N17:25.54 | W106:01.21 | 2   | 73      | 65          | On    |
| 013                      |             | 1235            | 22 Aug 03 | 1158 | N16:59.56 | W107:55.09 | 3   | 73      | 26          | On    |
| 013                      |             | 1239            | 22 Aug 03 | 1727 | N16:45.11 | W108:38.31 | 3   | 126     | 49          | On    |
| 013                      |             | 1242            | 23 Aug 03 | 0758 | N16:16.10 | W110:22.03 | 3   | 73      | 23          | On    |
| 013                      |             | 1244            | 23 Aug 03 | 1154 | N16:05.08 | W110:53.90 | 3   | 199     | 37          | On    |
| 013                      |             | 1254            | 24 Aug 03 | 0854 | N15:25.00 | W113:23.59 | 4   | 233     | 58          | On    |
| 013                      |             | 1255            | 24 Aug 03 | 0932 | N15:24.55 | W113:27.91 | 4   | 233     | 23          | On    |
| 013                      |             | 1259            | 25 Aug 03 | 1727 | N14:11.18 | W117:38.14 | 4   | 200     | 32          | On    |
| 013                      |             | 1261            | 26 Aug 03 | 0826 | N13:45.12 | W119:23.29 | 2   | 224     | 52          | On    |
| 013                      |             | 1267            | 28 Aug 03 | 0917 | N10:55.59 | W124:03.86 | 4   | 200     | 30          | On    |
| 013                      |             | 1281            | 30 Aug 03 | 1457 | N11:27.08 | W119:14.97 | 4   | 233     | 41          | On    |
| 013                      |             | 1283            | 30 Aug 03 | 1624 | N11:34.28 | W119:07.06 | 2   | 126     | 16          | On    |
| 013                      |             | 1289            | 31 Aug 03 | 0913 | N12:04.75 | W117:27.76 | 2   | 73      | 18          | On    |
| 013                      |             | 1290            | 31 Aug 03 | 1004 | N12:06.73 | W117:24.72 | 3   | 73      | 25          | On    |
| 013                      |             | 1378            | 26 Sep 03 | 0933 | N10:39.82 | W088:38.55 | 3   | 233     | 33          | On    |
| 013                      |             | 1379            | 26 Sep 03 | 1020 | N10:45.01 | W088:36.12 | 3   | 224     | 26          | On    |
| 013                      |             | 1384            | 26 Sep 03 | 1408 | N11:06.37 | W088:40.04 | 2   | 73      | 41          | On    |
| 013                      |             | 1385            | 26 Sep 03 | 1503 | N11:06.76 | W088:41.18 | 2   | 200     | 14          | On    |
| 013                      |             | 1386            | 26 Sep 03 | 1522 | N11:09.34 | W088:38.56 | 2   | 73      | 101         | On    |
| 013                      |             | 1388            | 26 Sep 03 | 1649 | N11:16.50 | W088:34.38 | 1   | 224     | 39          | On    |
| 013                      |             | 1391            | 26 Sep 03 | 1745 | N11:22.68 | W088:35.38 | 1   | 233     | 32          | On    |
| 013                      |             | 1446            | 11 Oct 03 | 1044 | N06:12.54 | W092:39.32 | 4   | 228     | 51          | On    |
| 013                      |             | 1450            | 11 Oct 03 | 1336 | N06:16.78 | W092:43.74 | 4   | 228     | 17          | On    |
| 013                      |             | 1461            | 15 Oct 03 | 0820 | N06:07.56 | W102:31.22 | 4   | 7       | 37          | On    |
| 013                      |             | 1466            | 16 Oct 03 | 1554 | N06:01.07 | W106:39.57 | 4   | 125     | 32          | On    |
| 013                      |             | 1587            | 4 Nov 03  | 0836 | N10:38.75 | W108:45.58 | 5   | 231     | 25          | Off   |
| 013                      |             | 1592            | 6 Nov 03  | 0904 | N07:46.79 | W113:05.14 | 3   | 7       | 38          | On    |
| 013                      |             | 1593            | 6 Nov 03  | 1140 | N07:31.59 | W113:24.31 | 3   | 208     | 35          | On    |
| 013                      |             | 1595            | 6 Nov 03  | 1823 | N06:59.08 | W114:04.38 | 4   | 7       | 33          | On    |
| 013                      |             | 1596            | 7 Nov 03  | 0725 | N06:07.18 | W115:32.80 | 3   | 125     | 9           | On    |
| 013                      |             | 1599            | 7 Nov 03  | 0826 | N06:00.84 | W115:40.62 | 3   | 228     | 115         | On    |
| 013                      |             | 1603            | 7 Nov 03  | 1509 | N05:31.31 | W116:27.38 | 4   | 230     | 27          | On    |
| 013                      |             | 1628            | 13 Nov 03 | 1823 | N13:16.74 | W108:58.67 | 4   | 1       | 19          | On    |
| 013                      |             | 1678            | 23 Nov 03 | 0844 | N18:36.59 | W107:19.04 | 4   | 230     | 23          | On    |
| 013                      |             | 1681            | 23 Nov 03 | 1106 | N18:32.93 | W107:38.71 | 4   | 125     | 47          | On    |
| 013                      |             | 1697            | 25 Nov 03 | 1342 | N17:02.75 | W114:17.91 | 3   | 1       | 19          | On    |
| 013                      |             | 1712            | 1 Dec 03  | 1302 | N19:43.63 | W113:00.94 | 4   | 125     | 62          | On    |
| 013                      |             | 1713            | 1 Dec 03  | 1456 | N19:46.17 | W112:45.96 | 4   | 7       | 44          | On    |
| 013                      |             | 1714            | 1 Dec 03  | 1517 | N19:46.59 | W112:42.72 | 4   | 7       | 83          | On    |
| 013                      |             | 1716            | 1 Dec 03  | 1654 | N19:48.23 | W112:25.95 | 4   | 208     | 27          | On    |
| 013                      |             | 1720            | 3 Dec 03  | 1334 | N21:50.97 | W111:59.25 | 4   | 230     | 47          | On    |
| 013                      |             | 1728            | 7 Dec 03  | 0637 | N26:50.64 | W116:57.18 | 2   | 230     | 40          | On    |
| <i>Steno bredanensis</i> |             |                 |           |      |           |            |     |         |             |       |
| 015                      |             | 58              | 9 Aug 03  | 1608 | N07:19.32 | W127:53.24 | 4   | 125     | 14          | On    |

Table 2. Marine mammal sightings (continued).

| Code                      | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|---------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 015                       |             | 73              | 12 Aug 03 | 1546 | N13:00.46 | W133:32.48 | 2   | 7       | 13          | On    |
| 015                       |             | 147             | 20 Aug 03 | 1132 | N08:49.32 | W145:11.28 | 1   | 125     | 5           | Off   |
| 015                       |             | 229             | 13 Sep 03 | 1549 | N05:05.27 | W131:24.30 | 4   | 125     | 8           | Off   |
| 015                       |             | 231             | 13 Sep 03 | 1658 | N05:00.80 | W131:18.30 | 4   | 1       | 3           | Off   |
| 015                       |             | 244             | 17 Sep 03 | 1340 | S00:10.37 | W120:03.07 | 4   | 230     | 7           | On    |
| 015                       |             | 255             | 20 Sep 03 | 1457 | N03:07.37 | W114:21.02 | 4   | 230     | 14          | Off   |
| 015                       |             | 266             | 22 Sep 03 | 1015 | N03:51.18 | W107:48.44 | 4   | 228     | 10          | On    |
| 015                       | 018         | 323             | 29 Sep 03 | 1534 | N09:17.22 | W086:25.98 | 4   | 1       | 12          | On    |
| 015                       |             | 606             | 21 Nov 03 | 1640 | N09:03.94 | W084:14.31 | 3   | 200     | 18          | On    |
| 015                       |             | 663             | 24 Nov 03 | 1055 | N09:44.44 | W090:29.71 | 0   | 224     | 17          | On    |
| 015                       | 018         | 1092            | 9 Aug 03  | 1130 | N21:41.65 | W110:12.33 | 1   | 200     | 22          | On    |
| 015                       |             | 1197            | 16 Aug 03 | 0932 | N20:09.39 | W106:22.86 | 3   | 73      | 11          | On    |
| 015                       |             | 1204            | 16 Aug 03 | 1653 | N19:51.04 | W105:36.26 | 4   | 4       | 5           | Off   |
| 015                       |             | 1205            | 16 Aug 03 | 1744 | N19:45.46 | W105:27.96 | 4   | 73      | 9           | On    |
| 015                       |             | 1206            | 16 Aug 03 | 1806 | N19:44.11 | W105:24.87 | 4   | 126     | 6           | On    |
| 015                       |             | 1210            | 20 Aug 03 | 1715 | N18:15.91 | W103:37.67 | 3   | 73      | 8           | On    |
| 015                       | 002 010     | 1222            | 21 Aug 03 | 1316 | N17:34.81 | W105:34.81 | 1   | 126     | 146         | On    |
| 015                       |             | 1228            | 21 Aug 03 | 1817 | N17:28.23 | W105:59.00 | 1   | 233     | 17          | On    |
| 015                       |             | 1236            | 22 Aug 03 | 1307 | N16:56.33 | W108:04.64 | 3   | 199     | 13          | On    |
| 015                       |             | 1240            | 22 Aug 03 | 1817 | N16:43.73 | W108:42.71 | 2   | 233     | 5           | On    |
| 015                       | 018         | 1241            | 22 Aug 03 | 1846 | N16:42.07 | W108:45.91 | 2   | 233     | 10          | On    |
| 015                       |             | 1250            | 23 Aug 03 | 1414 | N16:02.94 | W111:13.93 | 3   | 224     | 8           | On    |
| 015                       |             | 1262            | 26 Aug 03 | 1030 | N13:39.89 | W119:38.00 | 3   | 126     | 12          | On    |
| 015                       |             | 1282            | 30 Aug 03 | 1540 | N11:28.48 | W119:13.03 | 3   | 199     | 13          | On    |
| 015                       |             | 1325            | 19 Sep 03 | 1713 | N14:13.67 | W100:02.22 | 3   | 126     | 5           | On    |
| 015                       |             | 1327            | 20 Sep 03 | 0811 | N13:20.90 | W101:27.64 | 2   | 126     | 8           | On    |
| 015                       |             | 1331            | 21 Sep 03 | 1220 | N13:09.95 | W099:12.03 | 1   | 199     | 15          | On    |
| 015                       |             | 1333            | 21 Sep 03 | 1554 | N13:11.50 | W098:52.09 | 4   | 227     | 1           | Off   |
| 015                       | 018         | 1336            | 22 Sep 03 | 1642 | N13:27.67 | W095:44.85 | 4   | 199     | 24          | On    |
| 015                       |             | 1338            | 22 Sep 03 | 1758 | N13:28.03 | W095:35.43 | 3   | 73      | 10          | On    |
| 015                       |             | 1392            | 26 Sep 03 | 1802 | N11:22.96 | W088:34.40 | 1   | 233     | 13          | Off   |
| 015                       |             | 1417            | 28 Sep 03 | 1459 | N11:38.18 | W086:49.77 | 2   | 126     | 4           | On    |
| 015                       |             | 1438            | 9 Oct 03  | 1227 | N06:13.74 | W088:01.73 | 5   | 228     | 9           | On    |
| 015                       |             | 1441            | 10 Oct 03 | 1129 | N06:03.32 | W090:15.56 | 5   | 7       | 4           | On    |
| 015                       |             | 1448            | 11 Oct 03 | 1232 | N06:14.58 | W092:40.49 | 4   | 208     | 16          | Off   |
| 015                       | 018         | 1488            | 21 Oct 03 | 1113 | N11:39.90 | W098:23.96 | 3   | 208     | 10          | On    |
| 015                       |             | 1493            | 22 Oct 03 | 1736 | N11:56.39 | W095:17.20 | 5   | 125     | 6           | On    |
| 015                       | 018         | 1562            | 31 Oct 03 | 1412 | N14:47.29 | W097:51.75 | 2   | 208     | 7           | On    |
| 015                       | 018         | 1579            | 2 Nov 03  | 1659 | N13:29.80 | W104:02.94 | 2   | 228     | 12          | On    |
| 015                       |             | 1626            | 13 Nov 03 | 1630 | N13:12.72 | W109:11.37 | 4   | 230     | 6           | On    |
| 015                       |             | 1641            | 16 Nov 03 | 0815 | N16:42.75 | W101:40.02 | 2   | 208     | 5           | On    |
| 015                       |             | 1643            | 16 Nov 03 | 1213 | N16:57.72 | W101:04.65 | 1   | 208     | 7           | On    |
| 015                       |             | 1644            | 16 Nov 03 | 1215 | N16:59.24 | W101:07.11 | 1   | 125     | 6           | Off   |
| 015                       |             | 1647            | 16 Nov 03 | 1313 | N16:57.94 | W101:02.09 | 1   | 1       | 3           | On    |
| 015                       |             | 1680            | 23 Nov 03 | 1013 | N18:35.96 | W107:29.25 | 4   | 228     | 5           | On    |
| 015                       |             | 1707            | 29 Nov 03 | 1455 | N18:24.15 | W119:12.40 | 3   | 208     | 9           | On    |
| <i>Delphinus capensis</i> |             |                 |           |      |           |            |     |         |             |       |
| 016                       | 025         | 441             | 31 Oct 03 | 1331 | S11:52.73 | W077:25.33 | 2   | 73      | 68          | On    |
| 016                       | 025         | 442             | 31 Oct 03 | 1523 | S11:46.18 | W077:37.22 | 3   | 126     | 168         | On    |
| 016                       | 025         | 452             | 2 Nov 03  | 1013 | S09:50.21 | W078:39.52 | 3   | 34      | 219         | On    |
| 016                       |             | 454             | 2 Nov 03  | 1152 | S09:44.01 | W078:34.42 | 2   | 199     | 128         | On    |
| 016                       | 025         | 456             | 2 Nov 03  | 1723 | S09:25.07 | W078:43.29 | 3   | 200     | 136         | On    |
| 016                       | 025         | 468             | 3 Nov 03  | 1306 | S08:55.03 | W079:20.74 | 4   | 224     | 360         | On    |
| 016                       |             | 470             | 3 Nov 03  | 1723 | S08:33.58 | W079:14.90 | 4   | 126     | 429         | On    |
| 016                       |             | 476             | 4 Nov 03  | 1155 | S07:30.11 | W079:59.85 | 3   | 233     | 38          | On    |



Table 2. Marine mammal sightings (continued).

| Code                     | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|--------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 016                      | 025         | 480             | 4 Nov 03  | 1453 | S07:27.66 | W079:57.56 | 4   | 73      | 145         | On    |
| 016                      |             | 482             | 4 Nov 03  | 1726 | S07:16.63 | W079:49.38 | 4   | 224     | 301         | On    |
| 016                      |             | 1004            | 31 Jul 03 | 1711 | N32:07.05 | W117:02.59 | 2   | 199     | 873         | On    |
| 016                      |             | 1006            | 31 Jul 03 | 1812 | N32:01.16 | W116:56.82 | 2   | 73      | 315         | On    |
| 016                      |             | 1011            | 1 Aug 03  | 1243 | N29:30.24 | W115:32.87 | 5   | 233     | 123         | On    |
| 016                      |             | 1043            | 4 Aug 03  | 0811 | N25:45.34 | W113:12.76 | 4   | 233     | 142         | On    |
| 016                      |             | 1044            | 4 Aug 03  | 1629 | N24:50.36 | W112:20.29 | 4   | 233     | 33          | On    |
| 016                      |             | 1046            | 4 Aug 03  | 1820 | N24:49.50 | W112:31.19 | 5   | 199     | 351         | On    |
| 016                      |             | 1059            | 7 Aug 03  | 1749 | N24:09.02 | W111:54.68 | 4   | 73      | 103         | On    |
| 016                      |             | 1156            | 12 Aug 03 | 1306 | N25:38.05 | W109:26.24 | 2   | 233     | 461         | On    |
| 016                      |             | 1157            | 12 Aug 03 | 1325 | N25:37.20 | W109:27.37 | 2   | 224     | 55          | On    |
| <i>Delphinus delphis</i> |             |                 |           |      |           |            |     |         |             |       |
| 017                      |             | 4               | 29 Jul 03 | 1857 | N32:14.61 | W117:15.04 | 2   | 208     | 453         | On    |
| 017                      |             | 6               | 30 Jul 03 | 0710 | N30:58.76 | W117:17.34 | 4   | 125     | 304         | On    |
| 017                      |             | 7               | 30 Jul 03 | 0737 | N30:54.74 | W117:19.70 | 4   | 228     | 280         | On    |
| 017                      |             | 46              | 8 Aug 03  | 0856 | N08:43.32 | W126:48.16 | 4   | 1       | 103         | On    |
| 017                      |             | 47              | 8 Aug 03  | 0954 | N08:39.29 | W126:49.23 | 4   | 208     | 121         | On    |
| 017                      |             | 64              | 10 Aug 03 | 1745 | N09:03.26 | W129:19.86 | 4   | 7       | 21          | On    |
| 017                      |             | 66              | 11 Aug 03 | 0853 | N10:05.36 | W130:39.53 | 4   | 228     | 108         | On    |
| 017                      |             | 304             | 27 Sep 03 | 1630 | N06:46.92 | W090:58.04 | 4   | 208     | 140         | On    |
| 017                      |             | 305             | 28 Sep 03 | 0653 | N07:42.64 | W089:33.16 | 5   | 228     | 71          | On    |
| 017                      |             | 313             | 28 Sep 03 | 1050 | N08:10.57 | W089:22.00 | 5   | 228     | 180         | On    |
| 017                      |             | 318             | 28 Sep 03 | 1519 | N08:39.53 | W089:13.98 | 5   | 228     | 305         | On    |
| 017                      |             | 319             | 29 Sep 03 | 0656 | N09:15.80 | W087:17.24 | 4   | 125     | 277         | On    |
| 017                      |             | 321             | 29 Sep 03 | 0939 | N09:20.12 | W087:01.12 | 4   | 231     | 255         | Off   |
| 017                      |             | 326             | 7 Oct 03  | 0626 | N08:46.35 | W084:47.45 | 4   | 99      | 2           | Off   |
| 017                      |             | 327             | 7 Oct 03  | 0631 | N08:45.51 | W084:48.21 | 4   | 200     | 68          | On    |
| 017                      |             | 362             | 11 Oct 03 | 1119 | N00:05.18 | W090:55.96 | 4   | 224     | 168         | On    |
| 017                      |             | 367             | 12 Oct 03 | 0648 | S01:25.98 | W091:59.19 | 4   | 224     | 181         | On    |
| 017                      |             | 370             | 12 Oct 03 | 0901 | S01:31.57 | W092:14.74 | 4   | 200     | 390         | On    |
| 017                      |             | 372             | 12 Oct 03 | 0955 | S01:32.81 | W092:23.68 | 4   | 73      | 90          | Off   |
| 017                      |             | 373             | 12 Oct 03 | 1230 | S01:40.29 | W092:38.36 | 4   | 73      | 128         | On    |
| 017                      |             | 374             | 12 Oct 03 | 1425 | S01:35.83 | W092:54.23 | 4   | 200     | 281         | On    |
| 017                      |             | 381             | 13 Oct 03 | 1052 | S02:56.21 | W095:20.28 | 3   | 73      | 160         | Off   |
| 017                      |             | 387             | 14 Oct 03 | 1110 | S04:58.85 | W097:50.44 | 3   | 126     | 60          | On    |
| 017                      |             | 489             | 5 Nov 03  | 1656 | S05:17.37 | W081:25.89 | 5   | 224     | 600         | On    |
| 017                      |             | 500             | 7 Nov 03  | 0629 | S02:08.85 | W081:15.47 | 4   | 224     | 418         | On    |
| 017                      | 006         | 517             | 9 Nov 03  | 1345 | N01:05.27 | W079:42.25 | 5   | 126     | 255         | On    |
| 017                      |             | 519             | 11 Nov 03 | 1106 | N05:10.80 | W080:50.86 | 4   | 233     | 66          | On    |
| 017                      |             | 525             | 12 Nov 03 | 1621 | N06:26.99 | W082:35.87 | 2   | 126     | 30          | On    |
| 017                      |             | 526             | 12 Nov 03 | 1736 | N06:27.06 | W082:32.39 | 2   | 73      | 30          | Off   |
| 017                      |             | 537             | 13 Nov 03 | 1216 | N06:22.34 | W080:17.85 | 2   | 199     | 28          | On    |
| 017                      |             | 541             | 13 Nov 03 | 1508 | N06:22.09 | W079:49.46 | 2   | 224     | 48          | On    |
| 017                      |             | 595             | 21 Nov 03 | 0659 | N08:19.08 | W083:33.47 | 2   | 126     | 70          | On    |
| 017                      |             | 613             | 22 Nov 03 | 1151 | N08:34.64 | W086:01.18 | 2   | 233     | 102         | On    |
| 017                      |             | 614             | 22 Nov 03 | 1248 | N08:33.47 | W086:06.38 | 3   | 224     | 11          | On    |
| 017                      |             | 617             | 22 Nov 03 | 1546 | N08:27.69 | W086:13.73 | 2   | 200     | 77          | On    |
| 017                      |             | 620             | 22 Nov 03 | 1637 | N08:27.74 | W086:24.06 | 2   | 233     | 113         | On    |
| 017                      |             | 627             | 23 Nov 03 | 0819 | N08:39.93 | W087:54.10 | 3   | 126     | 223         | On    |
| 017                      |             | 628             | 23 Nov 03 | 0901 | N08:42.20 | W087:58.61 | 3   | 199     | 156         | On    |
| 017                      |             | 631             | 23 Nov 03 | 1031 | N08:49.18 | W087:58.11 | 3   | 199     | 63          | On    |
| 017                      |             | 636             | 23 Nov 03 | 1315 | N08:56.83 | W088:14.03 | 1   | 199     | 294         | On    |
| 017                      |             | 638             | 23 Nov 03 | 1319 | N08:59.52 | W088:10.79 | 1   | 224     | 120         | Off   |
| 017                      |             | 640             | 23 Nov 03 | 1414 | N09:01.16 | W088:16.80 | 2   | 199     | 33          | On    |
| 017                      |             | 644             | 23 Nov 03 | 1521 | N09:06.15 | W088:20.54 | 2   | 73      | 103         | On    |

Table 2. Marine mammal sightings (continued).

| Code                      | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|---------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 017                       | 013         | 646             | 23 Nov 03 | 1611 | N09:06.03 | W088:24.03 | 3   | 126     | 112         | On    |
| 017                       |             | 650             | 24 Nov 03 | 0727 | N09:34.16 | W090:04.99 | 2   | 126     | 95          | On    |
| 017                       |             | 653             | 24 Nov 03 | 0909 | N09:36.97 | W090:20.31 | 1   | 233     | 135         | On    |
| 017                       |             | 664             | 24 Nov 03 | 1126 | N09:46.42 | W090:37.68 | 0   | 126     | 382         | On    |
| 017                       |             | 688             | 25 Nov 03 | 0813 | N09:18.98 | W092:50.19 | 1   | 199     | 49          | On    |
| 017                       |             | 690             | 25 Nov 03 | 0928 | N09:17.03 | W092:54.41 | 2   | 73      | 57          | On    |
| 017                       | 002         | 744             | 29 Nov 03 | 0730 | N10:36.85 | W104:10.02 | 5   | 73      | 18          | On    |
| 017                       |             | 752             | 29 Nov 03 | 1337 | N11:34.29 | W104:50.42 | 4   | 233     | 35          | On    |
| 017                       |             | 792             | 7 Dec 03  | 1522 | N26:26.64 | W119:04.14 | 2   | 200     | 162         | On    |
| 017                       |             | 1049            | 5 Aug 03  | 1553 | N24:34.78 | W114:54.70 | 4   | 200     | 73          | On    |
| 017                       |             | 1055            | 7 Aug 03  | 1007 | N23:58.06 | W112:30.60 | 4   | 200     | 383         | On    |
| 017                       |             | 1095            | 9 Aug 03  | 1219 | N21:42.84 | W110:06.39 | 1   | 233     | 54          | On    |
| 017                       |             | 1100            | 9 Aug 03  | 1332 | N21:42.48 | W110:04.06 | 1   | 200     | 109         | On    |
| 017                       | 013         | 1107            | 9 Aug 03  | 1749 | N22:00.11 | W109:51.12 | 2   | 200     | 87          | On    |
| 017                       |             | 1108            | 9 Aug 03  | 1822 | N22:03.49 | W109:50.18 | 2   | 73      | 33          | On    |
| 017                       |             | 1111            | 10 Aug 03 | 0659 | N23:08.91 | W108:58.24 | 5   | 224     | 46          | On    |
| 017                       |             | 1112            | 10 Aug 03 | 0732 | N23:10.30 | W108:54.14 | 5   | 126     | 71          | On    |
| 017                       |             | 1115            | 10 Aug 03 | 0946 | N23:23.03 | W108:53.80 | 3   | 199     | 49          | On    |
| 017                       |             | 1116            | 10 Aug 03 | 1056 | N23:31.57 | W108:56.27 | 2   | 199     | 75          | On    |
| 017                       |             | 1121            | 10 Aug 03 | 1434 | N23:53.35 | W109:09.00 | 2   | 200     | 122         | On    |
| 017                       |             | 1208            | 20 Aug 03 | 1623 | N18:22.31 | W103:43.52 | 4   | 233     | 43          | On    |
| 017                       |             | 1266            | 28 Aug 03 | 0850 | N10:57.34 | W124:04.26 | 4   | 73      | 65          | On    |
| 017                       |             | 1271            | 28 Aug 03 | 1243 | N10:36.95 | W124:10.30 | 4   | 73      | 200         | On    |
| 017                       |             | 1274            | 29 Aug 03 | 0827 | N10:06.52 | W122:56.16 | 3   | 73      | 150         | On    |
| 017                       |             | 1276            | 29 Aug 03 | 1526 | N10:26.59 | W121:59.19 | 4   | 233     | 125         | On    |
| 017                       |             | 1288            | 31 Aug 03 | 0819 | N12:03.30 | W117:34.12 | 2   | 233     | 21          | On    |
| 017                       |             | 1346            | 23 Sep 03 | 1037 | N13:33.26 | W093:35.55 | 3   | 126     | 26          | On    |
| 017                       |             | 1348            | 23 Sep 03 | 1443 | N13:35.26 | W092:58.69 | 2   | 126     | 203         | On    |
| 017                       |             | 1371            | 26 Sep 03 | 0644 | N10:20.18 | W088:40.13 | 3   | 200     | 59          | On    |
| 017                       |             | 1374            | 26 Sep 03 | 0726 | N10:23.45 | W088:35.74 | 3   | 73      | 93          | On    |
| 017                       |             | 1375            | 26 Sep 03 | 0751 | N10:24.03 | W088:36.22 | 3   | 73      | 25          | Off   |
| 017                       |             | 1376            | 26 Sep 03 | 0801 | N10:25.44 | W088:37.39 | 3   | 126     | 50          | On    |
| 017                       |             | 1377            | 26 Sep 03 | 0845 | N10:32.48 | W088:38.14 | 3   | 224     | 14          | On    |
| 017                       |             | 1544            | 30 Oct 03 | 1249 | N15:41.33 | W095:29.35 | 1   | 230     | 148         | On    |
| 017                       |             | 1548            | 30 Oct 03 | 1517 | N15:38.75 | W095:39.36 | 2   | 208     | 12          | On    |
| 017                       |             | 1549            | 30 Oct 03 | 1618 | N15:37.55 | W095:49.11 | 2   | 125     | 143         | On    |
| 017                       |             | 1563            | 31 Oct 03 | 1509 | N14:52.23 | W097:58.02 | 3   | 1       | 87          | On    |
| 017                       |             | 1614            | 11 Nov 03 | 1520 | N10:32.34 | W114:45.16 | 4   | 1       | 157         | On    |
| 017                       |             | 1619            | 12 Nov 03 | 0953 | N11:31.38 | W112:37.49 | 4   | 208     | 95          | On    |
| 017                       |             | 1646            | 16 Nov 03 | 1254 | N16:56.60 | W101:03.56 | 1   | 230     | 54          | On    |
| 017                       |             | 1651            | 17 Nov 03 | 0737 | N17:40.68 | W102:01.30 | 2   | 125     | 98          | On    |
| 017                       |             | 1718            | 3 Dec 03  | 0946 | N21:21.63 | W111:46.84 | 5   | 228     | 89          | On    |
| 017                       |             | 1729            | 7 Dec 03  | 0927 | N27:14.44 | W117:13.87 | 3   | 125     | 78          | On    |
| 017                       |             | 1730            | 7 Dec 03  | 1003 | N27:19.84 | W117:15.25 | 2   | 125     | 26          | On    |
| 017                       |             | 1731            | 7 Dec 03  | 1157 | N27:32.67 | W117:26.08 | 4   | 208     | 44          | On    |
| 017                       |             | 1732            | 7 Dec 03  | 1343 | N27:49.50 | W117:31.97 | 1   | 1       | 286         | On    |
| 017                       |             | 1734            | 8 Dec 03  | 1215 | N29:14.53 | W118:11.53 | 5   | 228     | 37          | On    |
| 017                       |             | 1738            | 9 Dec 03  | 1015 | N31:33.23 | W116:51.60 | 2   | 7       | 105         | On    |
| <i>Tursiops truncatus</i> |             |                 |           |      |           |            |     |         |             |       |
| 018                       | 077         | 26              | 31 Jul 03 | 1717 | N27:46.02 | W121:17.35 | 1   | 125     | 30          | Off   |
| 018                       |             | 94              | 14 Aug 03 | 1418 | N12:29.77 | W136:28.89 | 3   | 208     | 15          | On    |
| 018                       | 036         | 104             | 15 Aug 03 | 1053 | N10:15.60 | W136:55.38 | 1   | 125     | 20          | On    |
| 018                       | 036         | 208             | 11 Sep 03 | 1228 | N09:20.42 | W137:56.20 | 2   | 7       | 33          | On    |
| 018                       | 036         | 209             | 11 Sep 03 | 1350 | N09:22.03 | W137:49.91 | 1   | 208     | 32          | On    |
| 018                       | 034         | 242             | 17 Sep 03 | 0725 | S00:42.03 | W120:26.90 | 4   | 208     | 48          | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 018  | 036         | 292             | 26 Sep 03 | 1137 | N05:13.17 | W094:33.44 | 4   | 125     | 21          | On    |
| 018  | 036         | 316             | 28 Sep 03 | 1231 | N08:20.65 | W089:20.60 | 5   | 230     | 19          | On    |
| 018  | 036         | 322             | 29 Sep 03 | 1342 | N09:20.07 | W086:32.17 | 3   | 208     | 26          | On    |
| 018  | 015         | 323             | 29 Sep 03 | 1534 | N09:17.22 | W086:25.98 | 4   | 1       | 12          | On    |
| 018  |             | 325             | 29 Sep 03 | 1727 | N09:20.08 | W086:16.74 | 4   | 1       | 7           | Off   |
| 018  |             | 329             | 7 Oct 03  | 1626 | N07:38.62 | W084:47.99 | 4   | 199     | 7           | Off   |
| 018  |             | 366             | 11 Oct 03 | 1748 | S00:43.28 | W090:44.27 | 4   | 233     | 47          | On    |
| 018  |             | 406             | 19 Oct 03 | 0655 | S09:04.01 | W095:06.47 | 5   | 126     | 5           | Off   |
| 018  | 277         | 417             | 21 Oct 03 | 1318 | S09:12.77 | W088:57.77 | 4   | 99      | 6           | Off   |
| 018  | 021 036     | 418             | 21 Oct 03 | 1818 | S09:57.82 | W088:45.69 | 4   | 73      | 48          | On    |
| 018  | 034         | 421             | 22 Oct 03 | 0955 | S11:48.82 | W088:14.37 | 4   | 98      | 18          | Off   |
| 018  | 034 021     | 423             | 22 Oct 03 | 1134 | S11:56.33 | W088:10.51 | 4   | 199     | 108         | On    |
| 018  |             | 424             | 22 Oct 03 | 1233 | S11:59.12 | W088:07.31 | 4   | 233     | 8           | On    |
| 018  | 036         | 430             | 24 Oct 03 | 1019 | S14:46.74 | W084:39.34 | 4   | 199     | 42          | On    |
| 018  | 036         | 432             | 24 Oct 03 | 1436 | S14:40.75 | W084:23.26 | 4   | 199     | 45          | On    |
| 018  |             | 446             | 1 Nov 03  | 1521 | S10:25.75 | W078:30.37 | 3   | 233     | 253         | On    |
| 018  |             | 449             | 2 Nov 03  | 0640 | S10:04.87 | W078:55.62 | 4   | 126     | 2795        | On    |
| 018  |             | 450             | 2 Nov 03  | 0747 | S09:56.88 | W078:54.03 | 4   | 73      | 467         | On    |
| 018  |             | 459             | 3 Nov 03  | 0624 | S09:29.80 | W079:39.37 | 3   | 233     | 28          | On    |
| 018  |             | 461             | 3 Nov 03  | 0655 | S09:27.23 | W079:37.91 | 3   | 126     | 1           | On    |
| 018  |             | 465             | 3 Nov 03  | 0948 | S09:06.04 | W079:20.35 | 4   | 200     | 35          | On    |
| 018  |             | 473             | 4 Nov 03  | 0944 | S07:45.42 | W080:09.43 | 4   | 224     | 10          | On    |
| 018  |             | 475             | 4 Nov 03  | 1056 | S07:38.78 | W080:04.59 | 3   | 199     | 7           | On    |
| 018  | 025         | 493             | 6 Nov 03  | 0931 | S03:40.94 | W081:16.10 | 4   | 199     | 47          | On    |
| 018  |             | 494             | 6 Nov 03  | 1117 | S03:28.39 | W081:07.80 | 4   | 73      | 49          | On    |
| 018  |             | 495             | 6 Nov 03  | 1331 | S03:23.83 | W080:54.50 | 3   | 199     | 22          | On    |
| 018  |             | 496             | 6 Nov 03  | 1349 | S03:21.27 | W080:54.78 | 4   | 73      | 25          | On    |
| 018  |             | 502             | 7 Nov 03  | 1316 | S01:19.49 | W081:01.50 | 4   | 233     | 6           | On    |
| 018  |             | 512             | 9 Nov 03  | 0646 | N00:55.81 | W080:13.64 | 4   | 233     | 2           | On    |
| 018  |             | 516             | 9 Nov 03  | 1139 | N01:14.56 | W080:01.68 | 5   | 199     | 67          | On    |
| 018  | 021         | 531             | 13 Nov 03 | 0846 | N06:23.43 | W080:43.23 | 2   | 233     | 43          | Off   |
| 018  |             | 551             | 14 Nov 03 | 1512 | N07:50.40 | W078:43.98 | 3   | 200     | 13          | On    |
| 018  |             | 552             | 14 Nov 03 | 1544 | N07:51.33 | W078:49.16 | 3   | 199     | 25          | On    |
| 018  |             | 553             | 14 Nov 03 | 1626 | N07:54.11 | W078:52.43 | 3   | 233     | 30          | On    |
| 018  |             | 561             | 19 Nov 03 | 1429 | N08:18.16 | W079:33.40 | 2   | 126     | 10          | On    |
| 018  |             | 562             | 19 Nov 03 | 1450 | N08:15.60 | W079:29.55 | 2   | 199     | 25          | On    |
| 018  |             | 563             | 19 Nov 03 | 1552 | N08:08.27 | W079:30.65 | 1   | 233     | 8           | On    |
| 018  |             | 564             | 19 Nov 03 | 1621 | N08:05.83 | W079:37.01 | 1   | 199     | 9           | On    |
| 018  |             | 565             | 19 Nov 03 | 1646 | N08:03.71 | W079:39.90 | 2   | 233     | 11          | On    |
| 018  |             | 566             | 19 Nov 03 | 1707 | N08:01.86 | W079:41.49 | 2   | 233     | 12          | On    |
| 018  |             | 580             | 20 Nov 03 | 0848 | N07:20.29 | W081:18.01 | 2   | 224     | 40          | On    |
| 018  |             | 582             | 20 Nov 03 | 0934 | N07:16.26 | W081:23.00 | 2   | 126     | 1           | On    |
| 018  |             | 583             | 20 Nov 03 | 0935 | N07:16.14 | W081:21.85 | 2   | 126     | 1           | On    |
| 018  |             | 584             | 20 Nov 03 | 0937 | N07:17.24 | W081:22.86 | 2   | 200     | 20          | On    |
| 018  |             | 585             | 20 Nov 03 | 0946 | N07:14.41 | W081:22.02 | 2   | 126     | 1           | On    |
| 018  |             | 586             | 20 Nov 03 | 1046 | N07:05.10 | W081:29.49 | 2   | 233     | 31          | On    |
| 018  | 036         | 596             | 21 Nov 03 | 0710 | N08:19.78 | W083:35.18 | 2   | 126     | 32          | Off   |
| 018  |             | 600             | 21 Nov 03 | 1014 | N08:27.60 | W083:46.72 | 2   | 199     | 20          | On    |
| 018  |             | 607             | 21 Nov 03 | 1754 | N09:07.25 | W084:16.13 | 3   | 126     | 24          | Off   |
| 018  | 036         | 612             | 22 Nov 03 | 0918 | N08:35.00 | W085:55.36 | 2   | 126     | 64          | On    |
| 018  | 021         | 621             | 22 Nov 03 | 1649 | N08:26.20 | W086:22.05 | 1   | 126     | 22          | On    |
| 018  | 036         | 632             | 23 Nov 03 | 1103 | N08:50.69 | W088:00.25 | 1   | 200     | 101         | On    |
| 018  |             | 666             | 24 Nov 03 | 1221 | N09:49.16 | W090:42.07 | 0   | 199     | 51          | On    |
| 018  |             | 670             | 24 Nov 03 | 1408 | N09:51.00 | W090:47.60 | 1   | 233     | 1           | On    |
| 018  |             | 676             | 24 Nov 03 | 1542 | N09:53.58 | W090:55.75 | 1   | 199     | 11          | On    |
| 018  |             | 681             | 24 Nov 03 | 1647 | N09:53.46 | W091:04.93 | 1   | 233     | 12          | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Effort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|--------|
| 018  | 036         | 721             | 26 Nov 03 | 1446 | N08:05.58 | W095:55.90 | 2   | 233     | 57          | On     |
| 018  |             | 737             | 27 Nov 03 | 1553 | N09:12.44 | W098:44.07 | 2   | 73      | 7           | Off    |
| 018  | 036         | 1031            | 2 Aug 03  | 1841 | N27:37.77 | W115:08.22 | 5   | 126     | 44          | On     |
| 018  |             | 1045            | 4 Aug 03  | 1736 | N24:49.38 | W112:29.16 | 5   | 200     | 20          | On     |
| 018  | 037         | 1056            | 7 Aug 03  | 1236 | N23:58.67 | W112:18.35 | 2   | 199     | 13          | On     |
| 018  |             | 1060            | 7 Aug 03  | 1834 | N24:11.01 | W111:52.93 | 4   | 233     | 30          | On     |
| 018  |             | 1061            | 8 Aug 03  | 0722 | N23:20.50 | W110:45.76 | 2   | 200     | 17          | On     |
| 018  |             | 1062            | 8 Aug 03  | 0803 | N23:17.01 | W110:42.30 | 2   | 199     | 11          | On     |
| 018  |             | 1063            | 8 Aug 03  | 0843 | N23:15.18 | W110:35.36 | 2   | 233     | 13          | On     |
| 018  |             | 1064            | 8 Aug 03  | 0952 | N23:07.41 | W110:36.76 | 2   | 73      | 10          | On     |
| 018  |             | 1065            | 8 Aug 03  | 1009 | N23:05.45 | W110:37.66 | 2   | 200     | 52          | On     |
| 018  | 015         | 1092            | 9 Aug 03  | 1130 | N21:41.65 | W110:12.33 | 1   | 200     | 22          | On     |
| 018  |             | 1113            | 10 Aug 03 | 0843 | N23:17.43 | W108:51.35 | 4   | 73      | 17          | On     |
| 018  | 021         | 1124            | 10 Aug 03 | 1739 | N24:12.05 | W109:23.70 | 2   | 73      | 29          | On     |
| 018  |             | 1126            | 11 Aug 03 | 0653 | N25:26.69 | W110:18.79 | 2   | 233     | 57          | On     |
| 018  |             | 1127            | 11 Aug 03 | 0743 | N25:30.99 | W110:20.90 | 2   | 224     | 16          | On     |
| 018  | 021         | 1129            | 11 Aug 03 | 0824 | N25:34.90 | W110:22.77 | 2   | 233     | 52          | On     |
| 018  |             | 1134            | 11 Aug 03 | 1156 | N26:00.48 | W110:37.35 | 3   | 224     | 54          | On     |
| 018  |             | 1135            | 11 Aug 03 | 1237 | N26:04.21 | W110:41.43 | 2   | 233     | 29          | On     |
| 018  | 021         | 1137            | 11 Aug 03 | 1333 | N26:13.34 | W110:48.55 | 2   | 126     | 71          | On     |
| 018  |             | 1140            | 11 Aug 03 | 1437 | N26:16.44 | W110:51.75 | 2   | 224     | 11          | On     |
| 018  |             | 1146            | 11 Aug 03 | 1649 | N26:32.37 | W111:05.85 | 2   | 199     | 32          | On     |
| 018  |             | 1148            | 11 Aug 03 | 1730 | N26:34.77 | W111:07.60 | 2   | 200     | 13          | On     |
| 018  |             | 1150            | 11 Aug 03 | 1816 | N26:42.71 | W111:06.35 | 3   | 199     | 65          | On     |
| 018  |             | 1151            | 11 Aug 03 | 1929 | N26:46.13 | W111:12.87 | 3   | 73      | 20          | On     |
| 018  |             | 1152            | 12 Aug 03 | 0826 | N26:03.69 | W109:54.34 | 4   | 73      | 49          | On     |
| 018  |             | 1162            | 13 Aug 03 | 0701 | N24:20.19 | W108:10.76 | 2   | 200     | 34          | Off    |
| 018  |             | 1163            | 13 Aug 03 | 0804 | N24:17.04 | W108:08.13 | 2   | 126     | 138         | On     |
| 018  | 002         | 1164            | 13 Aug 03 | 0854 | N24:15.01 | W108:03.15 | 2   | 199     | 145         | On     |
| 018  |             | 1171            | 13 Aug 03 | 1743 | N23:32.08 | W107:18.76 | 3   | 233     | 47          | On     |
| 018  |             | 1176            | 14 Aug 03 | 1058 | N21:43.83 | W106:10.88 | 3   | 73      | 29          | On     |
| 018  |             | 1183            | 15 Aug 03 | 0714 | N21:49.52 | W107:41.32 | 2   | 126     | 3           | On     |
| 018  |             | 1186            | 15 Aug 03 | 0927 | N21:40.09 | W107:54.33 | 2   | 73      | 18          | Off    |
| 018  | 002         | 1187            | 15 Aug 03 | 1021 | N21:42.28 | W107:57.14 | 2   | 73      | 179         | On     |
| 018  |             | 1234            | 22 Aug 03 | 0958 | N17:01.57 | W107:39.36 | 2   | 126     | 7           | On     |
| 018  | 015         | 1241            | 22 Aug 03 | 1846 | N16:42.07 | W108:45.91 | 2   | 233     | 10          | On     |
| 018  |             | 1252            | 23 Aug 03 | 1648 | N15:55.81 | W111:32.59 | 3   | 224     | 11          | On     |
| 018  |             | 1265            | 27 Aug 03 | 1522 | N12:38.43 | W123:20.09 | 4   | 224     | 49          | On     |
| 018  |             | 1285            | 30 Aug 03 | 1832 | N11:35.53 | W118:58.74 | 2   | 224     | 18          | On     |
| 018  |             | 1293            | 31 Aug 03 | 1643 | N12:23.26 | W116:38.11 | 5   | 73      | 78          | On     |
| 018  | 015         | 1336            | 22 Sep 03 | 1642 | N13:27.67 | W095:44.85 | 4   | 199     | 24          | On     |
| 018  |             | 1337            | 22 Sep 03 | 1730 | N13:27.69 | W095:39.22 | 4   | 224     | 15          | On     |
| 018  |             | 1341            | 23 Sep 03 | 0752 | N13:29.43 | W094:02.23 | 2   | 126     | 16          | On     |
| 018  |             | 1344            | 23 Sep 03 | 1003 | N13:32.45 | W093:43.09 | 3   | 4       | 4           | Off    |
| 018  |             | 1345            | 23 Sep 03 | 1016 | N13:32.52 | W093:40.90 | 3   | 199     | 31          | On     |
| 018  |             | 1352            | 24 Sep 03 | 1034 | N13:42.91 | W090:46.28 | 4   | 199     | 6           | On     |
| 018  |             | 1353            | 24 Sep 03 | 1056 | N13:38.13 | W090:46.96 | 3   | 126     | 31          | On     |
| 018  |             | 1355            | 24 Sep 03 | 1151 | N13:36.26 | W090:41.33 | 3   | 73      | 23          | On     |
| 018  |             | 1356            | 24 Sep 03 | 1239 | N13:31.11 | W090:39.86 | 4   | 73      | 10          | On     |
| 018  |             | 1357            | 24 Sep 03 | 1246 | N13:28.13 | W090:39.90 | 4   | 73      | 23          | On     |
| 018  |             | 1359            | 24 Sep 03 | 1326 | N13:25.74 | W090:37.37 | 4   | 200     | 29          | On     |
| 018  |             | 1360            | 24 Sep 03 | 1356 | N13:21.86 | W090:35.22 | 4   | 200     | 17          | On     |
| 018  |             | 1361            | 24 Sep 03 | 1413 | N13:20.69 | W090:32.94 | 4   | 224     | 36          | On     |
| 018  | 021         | 1366            | 25 Sep 03 | 1204 | N12:04.96 | W089:43.14 | 4   | 73      | 42          | On     |
| 018  |             | 1368            | 25 Sep 03 | 1514 | N11:37.95 | W089:43.80 | 4   | 73      | 25          | On     |
| 018  |             | 1370            | 25 Sep 03 | 1818 | N11:06.68 | W089:46.35 | 2   | 126     | 31          | On     |

Table 2. Marine mammal sightings (continued).

| Code                   | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 018                    |             | 1394            | 27 Sep 03 | 0911 | N12:33.26 | W088:52.72 | 3   | 233     | 12          | On    |
| 018                    |             | 1395            | 27 Sep 03 | 1025 | N12:36.10 | W088:45.97 | 2   | 233     | 17          | On    |
| 018                    | 006         | 1400            | 27 Sep 03 | 1245 | N12:40.16 | W088:33.88 | 2   | 126     | 144         | On    |
| 018                    |             | 1402            | 27 Sep 03 | 1416 | N12:39.06 | W088:31.58 | 1   | 200     | 7           | On    |
| 018                    |             | 1404            | 27 Sep 03 | 1510 | N12:38.99 | W088:26.59 | 1   | 199     | 15          | On    |
| 018                    |             | 1405            | 27 Sep 03 | 1531 | N12:39.25 | W088:22.59 | 1   | 200     | 8           | On    |
| 018                    |             | 1410            | 28 Sep 03 | 0746 | N11:51.51 | W087:44.17 | 4   | 199     | 25          | On    |
| 018                    |             | 1411            | 28 Sep 03 | 0822 | N11:51.55 | W087:38.43 | 4   | 233     | 20          | On    |
| 018                    |             | 1413            | 28 Sep 03 | 1134 | N11:46.23 | W087:13.88 | 3   | 224     | 1           | On    |
| 018                    | 090         | 1414            | 28 Sep 03 | 1202 | N11:43.78 | W087:09.33 | 3   | 126     | 42          | On    |
| 018                    |             | 1415            | 28 Sep 03 | 1336 | N11:40.04 | W086:58.73 | 3   | 73      | 12          | On    |
| 018                    | 277         | 1421            | 28 Sep 03 | 1825 | N11:29.10 | W086:22.79 | 3   | 199     | 2           | On    |
| 018                    | 006         | 1427            | 29 Sep 03 | 0847 | N10:17.14 | W085:58.79 | 2   | 233     | 30          | On    |
| 018                    |             | 1434            | 29 Sep 03 | 1451 | N09:42.55 | W085:27.78 | 4   | 199     | 83          | On    |
| 018                    | 036         | 1444            | 11 Oct 03 | 0616 | N06:11.61 | W092:07.36 | 4   | 125     | 26          | On    |
| 018                    |             | 1455            | 12 Oct 03 | 1143 | N06:21.71 | W095:05.77 | 4   | 230     | 5           | On    |
| 018                    | 015         | 1488            | 21 Oct 03 | 1113 | N11:39.90 | W098:23.96 | 3   | 208     | 10          | On    |
| 018                    |             | 1490            | 21 Oct 03 | 1805 | N11:35.57 | W097:39.09 | 4   | 228     | 20          | On    |
| 018                    |             | 1496            | 23 Oct 03 | 1159 | N12:49.45 | W093:16.06 | 3   | 208     | 27          | On    |
| 018                    |             | 1497            | 23 Oct 03 | 1238 | N12:53.04 | W093:11.43 | 3   | 1       | 22          | On    |
| 018                    | 006         | 1504            | 28 Oct 03 | 0912 | N13:48.53 | W090:56.27 | 1   | 230     | 53          | On    |
| 018                    |             | 1505            | 28 Oct 03 | 1028 | N13:48.53 | W091:10.22 | 1   | 228     | 10          | On    |
| 018                    |             | 1507            | 28 Oct 03 | 1202 | N13:46.81 | W091:21.12 | 0   | 125     | 5           | On    |
| 018                    |             | 1508            | 28 Oct 03 | 1203 | N13:47.38 | W091:21.32 | 0   | 208     | 2           | On    |
| 018                    |             | 1527            | 29 Oct 03 | 0843 | N15:05.90 | W093:12.80 | 1   | 125     | 6           | Off   |
| 018                    | 090         | 1529            | 29 Oct 03 | 1005 | N15:05.49 | W093:29.22 | 1   | 208     | 6           | On    |
| 018                    |             | 1530            | 29 Oct 03 | 1102 | N15:06.10 | W093:34.04 | 3   | 1       | 8           | On    |
| 018                    | 021         | 1532            | 29 Oct 03 | 1454 | N15:09.27 | W094:04.16 | 1   | 1       | 131         | On    |
| 018                    | 021         | 1534            | 29 Oct 03 | 1632 | N15:11.40 | W094:13.44 | 0   | 1       | 84          | On    |
| 018                    |             | 1536            | 30 Oct 03 | 0623 | N16:04.37 | W094:35.83 | 1   | 1       | 5           | On    |
| 018                    | 021         | 1543            | 30 Oct 03 | 1225 | N15:40.96 | W095:25.42 | 1   | 7       | 7           | On    |
| 018                    | 021         | 1545            | 30 Oct 03 | 1341 | N15:41.02 | W095:29.31 | 1   | 1       | 20          | Off   |
| 018                    | 015         | 1562            | 31 Oct 03 | 1412 | N14:47.29 | W097:51.75 | 2   | 208     | 7           | On    |
| 018                    | 021         | 1566            | 1 Nov 03  | 1401 | N15:15.87 | W100:47.66 | 1   | 125     | 111         | On    |
| 018                    |             | 1578            | 2 Nov 03  | 1650 | N13:30.69 | W103:59.58 | 2   | 208     | 5           | On    |
| 018                    | 015         | 1579            | 2 Nov 03  | 1659 | N13:29.80 | W104:02.94 | 2   | 228     | 12          | On    |
| 018                    |             | 1589            | 4 Nov 03  | 1134 | N10:22.64 | W109:07.86 | 5   | 208     | 42          | On    |
| 018                    |             | 1689            | 24 Nov 03 | 1005 | N17:54.11 | W110:29.76 | 4   | 208     | 46          | On    |
| 018                    | 002         | 1690            | 24 Nov 03 | 1205 | N17:51.81 | W110:42.44 | 4   | 230     | 41          | On    |
| 018                    |             | 1711            | 1 Dec 03  | 0847 | N19:33.72 | W113:40.42 | 4   | 208     | 32          | On    |
| 018                    | 021         | 1723            | 5 Dec 03  | 0842 | N21:58.90 | W116:52.03 | 4   | 228     | 81          | On    |
| 018                    |             | 1726            | 6 Dec 03  | 1352 | N24:57.08 | W115:46.40 | 2   | 4       | 21          | Off   |
| <i>Grampus griseus</i> |             |                 |           |      |           |            |     |         |             |       |
| 021                    |             | 16              | 30 Jul 03 | 1851 | N29:46.91 | W118:40.66 | 3   | 1       | 9           | On    |
| 021                    |             | 100             | 15 Aug 03 | 0803 | N10:34.54 | W136:52.05 | 2   | 125     | 19          | On    |
| 021                    | 032         | 112             | 15 Aug 03 | 1847 | N09:21.94 | W136:56.94 | 2   | 125     | 42          | On    |
| 021                    | 377         | 160             | 20 Aug 03 | 1904 | N08:16.05 | W146:10.10 | 1   | 1       | 10          | Off   |
| 021                    |             | 164             | 21 Aug 03 | 0920 | N07:23.36 | W147:41.51 | 3   | 208     | 10          | On    |
| 021                    |             | 238             | 16 Sep 03 | 0731 | N00:29.83 | W123:25.30 | 4   | 125     | 12          | On    |
| 021                    |             | 249             | 19 Sep 03 | 1755 | N02:56.50 | W116:49.06 | 4   | 1       | 7           | On    |
| 021                    | 277         | 334             | 9 Oct 03  | 0627 | N04:07.33 | W085:55.42 | 5   | 224     | 5           | On    |
| 021                    |             | 335             | 9 Oct 03  | 1032 | N03:44.67 | W086:27.79 | 4   | 73      | 3           | On    |
| 021                    |             | 343             | 10 Oct 03 | 0655 | N02:18.53 | W088:21.22 | 5   | 73      | 4           | On    |
| 021                    |             | 396             | 15 Oct 03 | 1247 | S07:07.22 | W100:46.01 | 6   | 126     | 8           | On    |
| 021                    |             | 399             | 17 Oct 03 | 0759 | S09:43.91 | W101:20.88 | 5   | 200     | 9           | On    |

Table 2. Marine mammal sightings (continued).

| Code                              | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Effort |
|-----------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|--------|
| 021                               | 034         | 409             | 20 Oct 03 | 1027 | S08:34.77 | W091:14.43 | 4   | 199     | 26          | On     |
| 021                               | 036 018     | 418             | 21 Oct 03 | 1818 | S09:57.82 | W088:45.69 | 4   | 73      | 48          | On     |
| 021                               | 034 018     | 423             | 22 Oct 03 | 1134 | S11:56.33 | W088:10.51 | 4   | 199     | 108         | On     |
| 021                               |             | 434             | 25 Oct 03 | 1317 | S13:39.15 | W081:39.02 | 5   | 126     | 22          | On     |
| 021                               |             | 463             | 3 Nov 03  | 0727 | S09:19.08 | W079:34.92 | 3   | 199     | 75          | On     |
| 021                               |             | 464             | 3 Nov 03  | 0902 | S09:09.53 | W079:29.11 | 3   | 73      | 7           | On     |
| 021                               |             | 474             | 4 Nov 03  | 1021 | S07:41.96 | W080:06.40 | 4   | 126     | 5           | On     |
| 021                               |             | 527             | 13 Nov 03 | 0616 | N06:31.53 | W080:58.77 | 2   | 200     | 33          | On     |
| 021                               | 018         | 531             | 13 Nov 03 | 0846 | N06:23.43 | W080:43.23 | 2   | 233     | 43          | Off    |
| 021                               |             | 533             | 13 Nov 03 | 0919 | N06:19.19 | W080:42.76 | 2   | 73      | 1           | Off    |
| 021                               |             | 611             | 22 Nov 03 | 0847 | N08:38.05 | W085:52.86 | 3   | 126     | 20          | On     |
| 021                               | 018         | 621             | 22 Nov 03 | 1649 | N08:26.20 | W086:22.05 | 1   | 126     | 22          | On     |
| 021                               |             | 624             | 23 Nov 03 | 0654 | N08:41.43 | W087:44.51 | 3   | 233     | 12          | On     |
| 021                               |             | 639             | 23 Nov 03 | 1327 | N08:58.01 | W088:13.04 | 1   | 224     | 9           | Off    |
| 021                               |             | 659             | 24 Nov 03 | 1007 | N09:40.10 | W090:27.56 | 0   | 200     | 53          | On     |
| 021                               |             | 662             | 24 Nov 03 | 1054 | N09:45.75 | W090:29.11 | 0   | 73      | 15          | On     |
| 021                               |             | 780             | 6 Dec 03  | 0942 | N23:17.51 | W119:39.21 | 2   | 233     | 22          | On     |
| 021                               |             | 796             | 8 Dec 03  | 0846 | N28:35.29 | W118:36.21 | 5   | 233     | 3           | On     |
| 021                               |             | 1008            | 31 Jul 03 | 1920 | N31:55.52 | W116:53.29 | 2   | 200     | 15          | On     |
| 021                               | 018         | 1124            | 10 Aug 03 | 1739 | N24:12.05 | W109:23.70 | 2   | 73      | 29          | On     |
| 021                               | 018         | 1129            | 11 Aug 03 | 0824 | N25:34.90 | W110:22.77 | 2   | 233     | 52          | On     |
| 021                               |             | 1130            | 11 Aug 03 | 0905 | N25:37.56 | W110:28.21 | 2   | 199     | 23          | On     |
| 021                               |             | 1132            | 11 Aug 03 | 0957 | N25:47.58 | W110:28.92 | 2   | 200     | 28          | On     |
| 021                               |             | 1133            | 11 Aug 03 | 1108 | N25:55.58 | W110:36.62 | 2   | 233     | 9           | On     |
| 021                               |             | 1136            | 11 Aug 03 | 1313 | N26:07.96 | W110:47.03 | 2   | 199     | 14          | On     |
| 021                               | 018         | 1137            | 11 Aug 03 | 1333 | N26:13.34 | W110:48.55 | 2   | 126     | 71          | On     |
| 021                               |             | 1138            | 11 Aug 03 | 1340 | N26:13.05 | W110:47.75 | 2   | 200     | 10          | On     |
| 021                               |             | 1141            | 11 Aug 03 | 1459 | N26:18.73 | W110:52.56 | 2   | 233     | 79          | On     |
| 021                               |             | 1180            | 14 Aug 03 | 1708 | N21:38.03 | W106:21.96 | 3   | 126     | 17          | On     |
| 021                               |             | 1212            | 20 Aug 03 | 1850 | N18:08.98 | W103:31.76 | 2   | 126     | 11          | On     |
| 021                               | 033         | 1213            | 21 Aug 03 | 0656 | N17:47.44 | W104:50.73 | 2   | 73      | 12          | On     |
| 021                               |             | 1249            | 23 Aug 03 | 1351 | N16:02.89 | W111:09.30 | 3   | 233     | 21          | On     |
| 021                               |             | 1309            | 6 Sep 03  | 1246 | N17:06.90 | W100:57.64 | 1   | 224     | 28          | On     |
| 021                               | 018         | 1366            | 25 Sep 03 | 1204 | N12:04.96 | W089:43.14 | 4   | 73      | 42          | On     |
| 021                               |             | 1451            | 11 Oct 03 | 1713 | N06:17.21 | W093:14.29 | 4   | 208     | 6           | On     |
| 021                               |             | 1479            | 19 Oct 03 | 1454 | N11:18.52 | W102:56.86 | 1   | 7       | 13          | Off    |
| 021                               |             | 1480            | 19 Oct 03 | 1522 | N11:18.38 | W102:56.77 | 1   | 7       | 11          | On     |
| 021                               | 018         | 1532            | 29 Oct 03 | 1454 | N15:09.27 | W094:04.16 | 1   | 1       | 131         | On     |
| 021                               |             | 1533            | 29 Oct 03 | 1459 | N15:09.34 | W094:03.43 | 1   | 1       | 16          | Off    |
| 021                               | 018         | 1534            | 29 Oct 03 | 1632 | N15:11.40 | W094:13.44 | 0   | 1       | 84          | On     |
| 021                               | 018         | 1543            | 30 Oct 03 | 1225 | N15:40.96 | W095:25.42 | 1   | 7       | 7           | On     |
| 021                               | 018         | 1545            | 30 Oct 03 | 1341 | N15:41.02 | W095:29.31 | 1   | 1       | 20          | Off    |
| 021                               |             | 1550            | 30 Oct 03 | 1624 | N15:38.57 | W095:45.54 | 2   | 125     | 7           | On     |
| 021                               |             | 1551            | 30 Oct 03 | 1721 | N15:35.07 | W095:52.00 | 2   | 228     | 7           | On     |
| 021                               |             | 1554            | 31 Oct 03 | 0734 | N14:41.39 | W097:06.97 | 2   | 125     | 15          | Off    |
| 021                               |             | 1560            | 31 Oct 03 | 1259 | N14:39.72 | W097:41.61 | 2   | 208     | 2           | Off    |
| 021                               | 018         | 1566            | 1 Nov 03  | 1401 | N15:15.87 | W100:47.66 | 1   | 125     | 111         | On     |
| 021                               | 077         | 1576            | 2 Nov 03  | 1513 | N13:35.90 | W103:51.80 | 2   | 7       | 5           | On     |
| 021                               |             | 1635            | 14 Nov 03 | 1816 | N14:39.78 | W106:05.10 | 2   | 125     | 13          | On     |
| 021                               | 018         | 1723            | 5 Dec 03  | 0842 | N21:58.90 | W116:52.03 | 4   | 228     | 81          | On     |
| <i>Lagenorhynchus obliquidens</i> |             |                 |           |      |           |            |     |         |             |        |
| 022                               |             | 1010            | 1 Aug 03  | 0940 | N29:49.31 | W115:49.58 | 3   | 73      | 16          | On     |
| 022                               |             | 1012            | 1 Aug 03  | 1639 | N28:58.73 | W115:18.87 | 4   | 227     | 3           | Off    |
| 022                               |             | 1737            | 9 Dec 03  | 0902 | N31:21.85 | W116:58.86 | 2   | 125     | 6           | On     |
| 022                               |             | 1739            | 9 Dec 03  | 1041 | N31:33.99 | W116:50.99 | 2   | 208     | 29          | On     |

Table 2. Marine mammal sightings (continued).

| Code                              | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|-----------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| <i>Lagenorhynchus obscurus</i>    |             |                 |           |      |           |            |     |         |             |       |
| 025                               |             | 438             | 27 Oct 03 | 0610 | S12:08.17 | W077:24.23 | 2   | 199     | 135         | Off   |
| 025                               |             | 440             | 31 Oct 03 | 1254 | S11:55.38 | W077:18.76 | 2   | 126     | 90          | On    |
| 025                               | 016         | 441             | 31 Oct 03 | 1331 | S11:52.73 | W077:25.33 | 2   | 73      | 68          | On    |
| 025                               | 016         | 442             | 31 Oct 03 | 1523 | S11:46.18 | W077:37.22 | 3   | 126     | 168         | On    |
| 025                               |             | 444             | 1 Nov 03  | 0931 | S10:37.72 | W078:08.44 | 2   | 34      | 138         | On    |
| 025                               | 076         | 445             | 1 Nov 03  | 1157 | S10:28.15 | W078:08.42 | 2   | 126     | 364         | On    |
| 025                               | 016         | 452             | 2 Nov 03  | 1013 | S09:50.21 | W078:39.52 | 3   | 34      | 219         | On    |
| 025                               |             | 453             | 2 Nov 03  | 1131 | S09:47.29 | W078:36.70 | 2   | 73      | 340         | On    |
| 025                               | 016         | 456             | 2 Nov 03  | 1723 | S09:25.07 | W078:43.29 | 3   | 200     | 136         | On    |
| 025                               | 016         | 468             | 3 Nov 03  | 1306 | S08:55.03 | W079:20.74 | 4   | 224     | 360         | On    |
| 025                               | 016         | 480             | 4 Nov 03  | 1453 | S07:27.66 | W079:57.56 | 4   | 73      | 145         | On    |
| 025                               | 018         | 493             | 6 Nov 03  | 0931 | S03:40.94 | W081:16.10 | 4   | 199     | 47          | On    |
| <i>Lagenodelphis hosei</i>        |             |                 |           |      |           |            |     |         |             |       |
| 026                               |             | 401             | 17 Oct 03 | 1747 | S09:32.69 | W099:45.22 | 5   | 73      | 60          | On    |
| <i>Peponocephala electra</i>      |             |                 |           |      |           |            |     |         |             |       |
| 031                               |             | 1481            | 19 Oct 03 | 1549 | N11:20.04 | W102:56.16 | 3   | 1       | 73          | On    |
| <i>Feresa attenuata</i>           |             |                 |           |      |           |            |     |         |             |       |
| 032                               | 021         | 112             | 15 Aug 03 | 1847 | N09:21.94 | W136:56.94 | 2   | 125     | 42          | On    |
| 032                               |             | 320             | 29 Sep 03 | 0915 | N09:20.09 | W087:01.12 | 4   | 228     | 29          | On    |
| <i>Pseudorca crassidens</i>       |             |                 |           |      |           |            |     |         |             |       |
| 033                               |             | 282             | 25 Sep 03 | 1159 | N04:44.37 | W097:00.05 | 4   | 230     | 15          | On    |
| 033                               |             | 283             | 25 Sep 03 | 1250 | N04:48.51 | W096:56.14 | 4   | 1       | 6           | On    |
| 033                               |             | 285             | 25 Sep 03 | 1318 | N04:47.50 | W096:54.46 | 4   | 228     | 7           | On    |
| 033                               |             | 286             | 25 Sep 03 | 1339 | N04:48.36 | W096:52.36 | 4   | 125     | 5           | On    |
| 033                               |             | 287             | 25 Sep 03 | 1410 | N04:46.20 | W096:47.18 | 4   | 230     | 4           | On    |
| 033                               |             | 288             | 25 Sep 03 | 1450 | N04:46.48 | W096:41.09 | 4   | 125     | 6           | On    |
| 033                               |             | 776             | 4 Dec 03  | 1024 | N18:35.06 | W117:54.79 | 4   | 233     | 30          | On    |
| 033                               | 021         | 1213            | 21 Aug 03 | 0656 | N17:47.44 | W104:50.73 | 2   | 73      | 12          | On    |
| <i>Globicephala sp.</i>           |             |                 |           |      |           |            |     |         |             |       |
| 034                               | 018         | 242             | 17 Sep 03 | 0725 | S00:42.03 | W120:26.90 | 4   | 208     | 48          | On    |
| 034                               |             | 368             | 12 Oct 03 | 0742 | S01:26.19 | W092:07.30 | 4   | 126     | 5           | On    |
| 034                               |             | 405             | 18 Oct 03 | 1837 | S09:12.46 | W096:31.95 | 5   | 84      | 9           | Off   |
| 034                               |             | 408             | 19 Oct 03 | 1745 | S08:52.51 | W093:17.71 | 4   | 224     | 19          | On    |
| 034                               | 021         | 409             | 20 Oct 03 | 1027 | S08:34.77 | W091:14.43 | 4   | 199     | 26          | On    |
| 034                               | 018         | 421             | 22 Oct 03 | 0955 | S11:48.82 | W088:14.37 | 4   | 98      | 18          | Off   |
| 034                               |             | 422             | 22 Oct 03 | 1106 | S11:53.88 | W088:11.39 | 4   | 126     | 7           | On    |
| 034                               | 018 021     | 423             | 22 Oct 03 | 1134 | S11:56.33 | W088:10.51 | 4   | 199     | 108         | On    |
| 034                               |             | 426             | 22 Oct 03 | 1425 | S12:14.10 | W088:06.96 | 4   | 200     | 6           | On    |
| <i>Globicephala macrorhynchus</i> |             |                 |           |      |           |            |     |         |             |       |
| 036                               |             | 31              | 1 Aug 03  | 1319 | N25:55.35 | W123:40.78 | 3   | 208     | 19          | On    |
| 036                               |             | 70              | 11 Aug 03 | 1721 | N10:59.19 | W131:36.49 | 5   | 125     | 45          | On    |
| 036                               |             | 81              | 13 Aug 03 | 1122 | N14:32.19 | W135:11.80 | 3   | 208     | 12          | Off   |
| 036                               |             | 96              | 14 Aug 03 | 1612 | N12:13.35 | W136:32.03 | 3   | 230     | 20          | On    |
| 036                               | 018         | 104             | 15 Aug 03 | 1053 | N10:15.60 | W136:55.38 | 1   | 125     | 20          | On    |
| 036                               |             | 105             | 15 Aug 03 | 1232 | N10:14.84 | W136:50.43 | 2   | 7       | 28          | On    |
| 036                               |             | 106             | 15 Aug 03 | 1256 | N10:11.98 | W136:51.35 | 4   | 228     | 12          | On    |
| 036                               |             | 107             | 15 Aug 03 | 1312 | N10:10.88 | W136:52.46 | 4   | 230     | 20          | On    |
| 036                               |             | 108             | 15 Aug 03 | 1336 | N10:08.11 | W136:54.72 | 4   | 7       | 7           | On    |
| 036                               |             | 115             | 16 Aug 03 | 1551 | N06:34.06 | W137:36.43 | 5   | 230     | 11          | On    |

Table 2. Marine mammal sightings (continued).

| Code                        | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|-----------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 036                         |             | 178             | 26 Aug 03 | 1507 | N20:27.49 | W157:05.72 | 5   | 1       | 13          | Off   |
| 036 077                     |             | 189             | 9 Sep 03  | 1346 | N12:13.88 | W142:34.27 | 5   | 230     | 14          | On    |
| 036 077                     |             | 197             | 10 Sep 03 | 1413 | N10:34.82 | W140:01.11 | 4   | 208     | 19          | On    |
| 036 018                     |             | 208             | 11 Sep 03 | 1228 | N09:20.42 | W137:56.20 | 2   | 7       | 33          | On    |
| 036 018                     |             | 209             | 11 Sep 03 | 1350 | N09:22.03 | W137:49.91 | 1   | 208     | 32          | On    |
| 036                         |             | 217             | 11 Sep 03 | 1726 | N09:05.34 | W137:32.68 | 2   | 99      | 1           | Off   |
| 036                         |             | 239             | 16 Sep 03 | 1205 | N00:04.15 | W122:51.47 | 5   | 228     | 25          | On    |
| 036                         |             | 284             | 25 Sep 03 | 1311 | N04:48.28 | W096:54.03 | 4   | 1       | 18          | Off   |
| 036                         |             | 291             | 26 Sep 03 | 0854 | N05:10.19 | W094:40.95 | 4   | 125     | 9           | On    |
| 036 018                     |             | 292             | 26 Sep 03 | 1137 | N05:13.17 | W094:33.44 | 4   | 125     | 21          | On    |
| 036                         |             | 302             | 27 Sep 03 | 1412 | N06:45.13 | W091:17.09 | 4   | 7       | 14          | Off   |
| 036                         |             | 314             | 28 Sep 03 | 1124 | N08:12.45 | W089:20.05 | 5   | 125     | 13          | On    |
| 036 018                     |             | 316             | 28 Sep 03 | 1231 | N08:20.65 | W089:20.60 | 5   | 230     | 19          | On    |
| 036 018                     |             | 322             | 29 Sep 03 | 1342 | N09:20.07 | W086:32.17 | 3   | 208     | 26          | On    |
| 036                         |             | 353             | 10 Oct 03 | 1556 | N01:34.60 | W089:17.97 | 5   | 200     | 19          | On    |
| 036                         |             | 384             | 13 Oct 03 | 1711 | S03:19.23 | W095:48.81 | 4   | 73      | 20          | On    |
| 036 021 018                 |             | 418             | 21 Oct 03 | 1818 | S09:57.82 | W088:45.69 | 4   | 73      | 48          | On    |
| 036 018                     |             | 430             | 24 Oct 03 | 1019 | S14:46.74 | W084:39.34 | 4   | 199     | 42          | On    |
| 036 018                     |             | 432             | 24 Oct 03 | 1436 | S14:40.75 | W084:23.26 | 4   | 199     | 45          | On    |
| 036                         |             | 530             | 13 Nov 03 | 0824 | N06:23.72 | W080:46.30 | 2   | 99      | 8           | Off   |
| 036 018                     |             | 596             | 21 Nov 03 | 0710 | N08:19.78 | W083:35.18 | 2   | 126     | 32          | Off   |
| 036 018                     |             | 612             | 22 Nov 03 | 0918 | N08:35.00 | W085:55.36 | 2   | 126     | 64          | On    |
| 036 018                     |             | 632             | 23 Nov 03 | 1103 | N08:50.69 | W088:00.25 | 1   | 200     | 101         | On    |
| 036 018                     |             | 721             | 26 Nov 03 | 1446 | N08:05.58 | W095:55.90 | 2   | 233     | 57          | On    |
| 036                         |             | 786             | 7 Dec 03  | 0734 | N25:38.01 | W119:13.17 | 1   | 200     | 56          | On    |
| 036 018                     |             | 1031            | 2 Aug 03  | 1841 | N27:37.77 | W115:08.22 | 5   | 126     | 44          | On    |
| 036 018                     |             | 1444            | 11 Oct 03 | 0616 | N06:11.61 | W092:07.36 | 4   | 125     | 26          | On    |
| 036                         |             | 1458            | 12 Oct 03 | 1659 | N06:26.46 | W095:32.39 | 3   | 230     | 10          | On    |
| 036                         |             | 1465            | 16 Oct 03 | 1245 | N05:59.20 | W106:13.32 | 4   | 208     | 21          | On    |
| 036                         |             | 1469            | 17 Oct 03 | 0709 | N06:00.97 | W108:13.60 | 4   | 125     | 31          | On    |
| 036                         |             | 1470            | 17 Oct 03 | 0956 | N06:20.91 | W107:57.50 | 4   | 1       | 38          | On    |
| 036                         |             | 1471            | 18 Oct 03 | 1334 | N09:20.41 | W105:14.61 | 4   | 230     | 22          | On    |
| 036 077                     |             | 1601            | 7 Nov 03  | 1058 | N05:46.46 | W115:58.69 | 3   | 230     | 17          | On    |
| 036                         |             | 1602            | 7 Nov 03  | 1200 | N05:44.76 | W116:00.43 | 4   | 230     | 5           | On    |
| 036                         |             | 1724            | 5 Dec 03  | 1357 | N22:45.69 | W116:37.03 | 4   | 208     | 12          | On    |
| 036                         |             | 1725            | 5 Dec 03  | 1637 | N23:01.25 | W116:29.56 | 3   | 7       | 30          | On    |
| <i>Orcinus orca</i>         |             |                 |           |      |           |            |     |         |             |       |
| 037                         |             | 136             | 19 Aug 03 | 1259 | N09:15.84 | W142:43.55 | 4   | 125     | 2           | On    |
| 037                         |             | 138             | 19 Aug 03 | 1531 | N09:28.54 | W143:03.15 | 3   | 125     | 3           | On    |
| 037                         |             | 163             | 21 Aug 03 | 0738 | N07:32.90 | W147:31.48 | 2   | 7       | 1           | Off   |
| 037                         |             | 202             | 11 Sep 03 | 0728 | N09:28.45 | W138:20.08 | 2   | 1       | 5           | Off   |
| 037                         |             | 243             | 17 Sep 03 | 1036 | S00:20.89 | W120:14.12 | 4   | 208     | 13          | On    |
| 037                         |             | 543             | 13 Nov 03 | 1719 | N06:28.84 | W079:33.76 | 2   | 126     | 5           | On    |
| 037                         |             | 781             | 6 Dec 03  | 0943 | N23:14.07 | W119:37.66 | 2   | 98      | 1           | Off   |
| 037                         |             | 1054            | 7 Aug 03  | 0716 | N23:47.99 | W112:52.81 | 3   | 199     | 1           | Off   |
| 037 018                     |             | 1056            | 7 Aug 03  | 1236 | N23:58.67 | W112:18.35 | 2   | 199     | 13          | On    |
| 037 072                     |             | 1085            | 9 Aug 03  | 0702 | N21:47.44 | W110:19.44 | 2   | 200     | 24          | On    |
| 037                         |             | 1181            | 14 Aug 03 | 1839 | N21:43.97 | W106:33.74 | 3   | 200     | 12          | On    |
| 037                         |             | 1297            | 4 Sep 03  | 1358 | N16:20.27 | W105:19.75 | 4   | 73      | 5           | Off   |
| 037                         |             | 1382            | 26 Sep 03 | 1126 | N10:56.17 | W088:39.28 | 3   | 199     | 22          | On    |
| 037                         |             | 1447            | 11 Oct 03 | 1149 | N06:12.38 | W092:41.37 | 4   | 208     | 4           | On    |
| 037                         |             | 1617            | 12 Nov 03 | 0835 | N11:25.13 | W112:42.52 | 4   | 125     | 5           | On    |
| <i>Phocoena spinipinnis</i> |             |                 |           |      |           |            |     |         |             |       |
| 042                         |             | 439             | 31 Oct 03 | 1208 | S11:58.67 | W077:16.84 | 2   | 224     | 6           | On    |



Table 2. Marine mammal sightings (continued).

| Code                          | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|-------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| <i>Physeter macrocephalus</i> |             |                 |           |      |           |            |     |         |             |       |
| 046                           |             | 32              | 1 Aug 03  | 1707 | N25:48.39 | W123:47.79 | 4   | 208     | 24          | On    |
| 046                           |             | 38              | 5 Aug 03  | 1536 | N17:21.41 | W127:28.70 | 4   | 125     | 2           | On    |
| 046                           |             | 72              | 12 Aug 03 | 1416 | N12:55.96 | W133:33.29 | 4   | 98      | 11          | Off   |
| 046                           |             | 90              | 14 Aug 03 | 1030 | N12:51.16 | W136:18.76 | 1   | 1       | 1           | Off   |
| 046                           |             | 113             | 16 Aug 03 | 1104 | N07:16.06 | W137:24.77 | 4   | 230     | 6           | On    |
| 046                           |             | 174             | 26 Aug 03 | 0836 | N19:24.79 | W156:52.66 | 4   | 228     | 5           | On    |
| 046                           |             | 175             | 26 Aug 03 | 1126 | N19:50.94 | W156:58.67 | 6   | 125     | 2           | On    |
| 046                           |             | 181             | 5 Sep 03  | 0824 | N19:23.77 | W156:29.65 | 2   | 125     | 6           | On    |
| 046                           |             | 183             | 5 Sep 03  | 0951 | N19:11.92 | W156:16.80 | 3   | 208     | 11          | On    |
| 046                           |             | 270             | 22 Sep 03 | 1450 | N03:55.39 | W107:06.99 | 4   | 1       | 1           | On    |
| 046                           |             | 328             | 7 Oct 03  | 1432 | N07:33.88 | W084:50.21 | 4   | 200     | 25          | On    |
| 046                           |             | 385             | 14 Oct 03 | 0745 | S04:43.72 | W097:42.31 | 3   | 199     | 1           | On    |
| 046                           |             | 386             | 14 Oct 03 | 0818 | S04:52.61 | W097:42.91 | 3   | 200     | 8           | On    |
| 046                           |             | 388             | 14 Oct 03 | 1120 | S05:02.57 | W097:52.03 | 3   | 199     | 1           | On    |
| 046                           |             | 397             | 16 Oct 03 | 0734 | S08:50.70 | W103:12.17 | 5   | 73      | 1           | On    |
| 046                           |             | 404             | 18 Oct 03 | 1825 | S09:12.27 | W096:31.70 | 5   | 126     | 2           | On    |
| 046                           |             | 410             | 20 Oct 03 | 1437 | S08:32.48 | W090:53.43 | 4   | 29      | 1           | On    |
| 046                           |             | 412             | 20 Oct 03 | 1743 | S08:32.16 | W090:37.33 | 4   | 199     | 3           | On    |
| 046                           |             | 505             | 8 Nov 03  | 0611 | S00:00.75 | W080:44.22 | 4   | 200     | 1           | On    |
| 046                           |             | 785             | 6 Dec 03  | 1514 | N23:50.68 | W119:31.75 | 2   | 233     | 3           | Off   |
| 046                           |             | 1033            | 3 Aug 03  | 1009 | N26:44.93 | W115:01.73 | 6   | 200     | 1           | On    |
| 046                           |             | 1610            | 10 Nov 03 | 0957 | N08:47.52 | W118:23.59 | 3   | 7       | 3           | On    |
| 046                           |             | 1705            | 29 Nov 03 | 1133 | N18:21.08 | W119:33.39 | 4   | 230     | 1           | On    |
| <i>Kogia sima</i>             |             |                 |           |      |           |            |     |         |             |       |
| 048                           |             | 15              | 30 Jul 03 | 1514 | N30:13.81 | W118:13.42 | 2   | 1       | 1           | On    |
| 048                           |             | 28              | 1 Aug 03  | 0846 | N26:23.89 | W123:04.86 | 2   | 208     | 1           | On    |
| 048                           |             | 142             | 20 Aug 03 | 0850 | N09:00.52 | W144:58.01 | 1   | 228     | 1           | On    |
| 048                           |             | 154             | 20 Aug 03 | 1605 | N08:36.07 | W145:48.45 | 1   | 7       | 1           | On    |
| 048                           |             | 155             | 20 Aug 03 | 1608 | N08:35.33 | W145:48.82 | 1   | 7       | 1           | On    |
| 048                           |             | 203             | 11 Sep 03 | 0842 | N09:26.94 | W138:22.74 | 2   | 1       | 2           | Off   |
| 048                           |             | 619             | 22 Nov 03 | 1623 | N08:28.96 | W086:16.50 | 2   | 73      | 2           | On    |
| 048                           |             | 642             | 23 Nov 03 | 1417 | N08:58.86 | W088:17.93 | 2   | 73      | 1           | Off   |
| 048                           |             | 655             | 24 Nov 03 | 0939 | N09:36.97 | W090:23.45 | 0   | 73      | 1           | On    |
| 048                           |             | 1073            | 8 Aug 03  | 1516 | N22:37.67 | W111:11.02 | 1   | 73      | 1           | On    |
| 048                           |             | 1081            | 8 Aug 03  | 1807 | N22:29.52 | W111:19.86 | 2   | 233     | 1           | On    |
| 048                           |             | 1101            | 9 Aug 03  | 1415 | N21:45.69 | W110:00.07 | 1   | 73      | 1           | On    |
| 048                           |             | 1103            | 9 Aug 03  | 1504 | N21:49.64 | W109:59.27 | 1   | 126     | 1           | On    |
| 048                           |             | 1143            | 11 Aug 03 | 1541 | N26:25.97 | W110:58.95 | 2   | 73      | 1           | On    |
| 048                           |             | 1145            | 11 Aug 03 | 1610 | N26:30.82 | W111:00.15 | 2   | 200     | 1           | On    |
| 048                           |             | 1220            | 21 Aug 03 | 1241 | N17:37.01 | W105:26.54 | 1   | 199     | 1           | On    |
| 048                           |             | 1223            | 21 Aug 03 | 1456 | N17:31.73 | W105:42.53 | 1   | 73      | 1           | On    |
| 048                           |             | 1310            | 6 Sep 03  | 1320 | N17:07.50 | W100:56.52 | 1   | 73      | 1           | Off   |
| 048                           |             | 1495            | 23 Oct 03 | 1026 | N12:40.67 | W093:31.31 | 3   | 7       | 2           | On    |
| 048                           |             | 1565            | 1 Nov 03  | 0915 | N15:28.47 | W100:04.81 | 1   | 7       | 1           | On    |
| 048                           |             | 1568            | 1 Nov 03  | 1524 | N15:14.09 | W100:54.75 | 1   | 125     | 1           | On    |
| 048                           |             | 1570            | 1 Nov 03  | 1536 | N15:13.71 | W100:55.86 | 1   | 125     | 1           | On    |
| 048                           |             | 1640            | 16 Nov 03 | 0746 | N16:41.13 | W101:44.58 | 2   | 228     | 1           | On    |
| ziphiid whale                 |             |                 |           |      |           |            |     |         |             |       |
| 049                           |             | 55              | 9 Aug 03  | 0851 | N06:32.10 | W127:00.32 | 4   | 1       | 2           | On    |
| 049                           |             | 383             | 13 Oct 03 | 1539 | S03:10.81 | W095:38.76 | 4   | 199     | 1           | On    |
| 049                           |             | 400             | 17 Oct 03 | 1010 | S09:41.72 | W101:01.24 | 5   | 99      | 1           | Off   |
| 049                           |             | 540             | 13 Nov 03 | 1422 | N06:23.37 | W079:55.93 | 2   | 233     | 2           | On    |
| 049                           |             | 735             | 27 Nov 03 | 1449 | N09:11.62 | W098:42.79 | 2   | 126     | 1           | Off   |

Table 2. Marine mammal sightings (continued).

| Code                       | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Effort |
|----------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|--------|
| 049                        |             | 1040            | 3 Aug 03  | 1800 | N27:01.28 | W114:23.89 | 5   | 199     | 7           | Off    |
| 049                        |             | 1066            | 8 Aug 03  | 1306 | N22:48.50 | W110:60.00 | 2   | 126     | 1           | On     |
| 049                        |             | 1125            | 10 Aug 03 | 1837 | N24:13.19 | W109:26.38 | 2   | 126     | 4           | On     |
| 049                        |             | 1216            | 21 Aug 03 | 1142 | N17:36.99 | W105:20.99 | 1   | 200     | 1           | On     |
| 049                        |             | 1343            | 23 Sep 03 | 0959 | N13:29.70 | W093:42.49 | 4   | 73      | 1           | On     |
| 049                        |             | 1564            | 1 Nov 03  | 0637 | N15:24.82 | W099:37.68 | 2   | 1       | 1           | On     |
| 049                        |             | 1604            | 7 Nov 03  | 1711 | N05:19.09 | W116:37.41 | 4   | 208     | 2           | On     |
| 049                        |             | 1613            | 10 Nov 03 | 1727 | N09:14.50 | W117:31.39 | 2   | 231     | 1           | Off    |
| 049                        |             | 1637            | 15 Nov 03 | 1314 | N15:42.12 | W103:56.98 | 3   | 4       | 1           | Off    |
| <i>Mesoplodon</i> sp.      |             |                 |           |      |           |            |     |         |             |        |
| 051                        |             | 11              | 30 Jul 03 | 0928 | N30:42.41 | W117:30.89 | 2   | 125     | 2           | On     |
| 051                        |             | 29              | 1 Aug 03  | 0950 | N26:19.44 | W123:16.01 | 1   | 125     | 4           | On     |
| 051                        |             | 61              | 10 Aug 03 | 1123 | N08:15.35 | W128:46.25 | 5   | 1       | 2           | On     |
| 051                        |             | 74              | 12 Aug 03 | 1651 | N13:05.00 | W133:36.62 | 3   | 125     | 3           | On     |
| 051                        |             | 95              | 14 Aug 03 | 1542 | N12:18.28 | W136:30.26 | 3   | 125     | 1           | On     |
| 051                        |             | 176             | 26 Aug 03 | 1433 | N20:21.33 | W157:05.26 | 5   | 1       | 2           | On     |
| 051                        |             | 177             | 26 Aug 03 | 1505 | N20:27.20 | W157:05.49 | 5   | 1       | 2           | On     |
| 051                        |             | 190             | 9 Sep 03  | 1459 | N12:09.39 | W142:27.12 | 5   | 7       | 1           | On     |
| 051                        |             | 391             | 14 Oct 03 | 1646 | S05:25.66 | W098:31.06 | 4   | 224     | 1           | On     |
| 051                        |             | 436             | 26 Oct 03 | 1156 | S12:33.41 | W078:36.97 | 5   | 224     | 1           | On     |
| 051                        |             | 528             | 13 Nov 03 | 0647 | N06:26.73 | W080:56.83 | 2   | 73      | 3           | On     |
| 051                        |             | 1120            | 10 Aug 03 | 1317 | N23:45.19 | W109:05.14 | 3   | 73      | 3           | Off    |
| 051                        |             | 1123            | 10 Aug 03 | 1731 | N24:09.39 | W109:23.40 | 2   | 126     | 2           | On     |
| 051                        |             | 1131            | 11 Aug 03 | 0948 | N25:44.44 | W110:29.06 | 2   | 200     | 2           | On     |
| 051                        |             | 1193            | 15 Aug 03 | 1747 | N20:55.57 | W108:14.73 | 1   | 200     | 2           | On     |
| 051                        |             | 1195            | 15 Aug 03 | 1906 | N20:43.26 | W108:11.78 | 0   | 200     | 3           | On     |
| 051                        |             | 1286            | 30 Aug 03 | 1919 | N11:34.52 | W118:56.39 | 2   | 199     | 2           | Off    |
| 051                        |             | 1298            | 4 Sep 03  | 1756 | N16:27.86 | W105:04.17 | 4   | 233     | 2           | On     |
| 051                        |             | 1307            | 6 Sep 03  | 1153 | N17:06.11 | W101:00.02 | 2   | 199     | 2           | On     |
| 051                        |             | 1330            | 21 Sep 03 | 1047 | N13:10.09 | W099:24.54 | 3   | 73      | 1           | On     |
| 051                        |             | 1558            | 31 Oct 03 | 1103 | N14:30.97 | W097:27.74 | 2   | 208     | 2           | On     |
| 051                        |             | 1567            | 1 Nov 03  | 1453 | N15:14.50 | W100:50.04 | 1   | 230     | 3           | On     |
| 051                        |             | 1569            | 1 Nov 03  | 1535 | N15:14.34 | W100:56.77 | 1   | 125     | 2           | On     |
| 051                        |             | 1573            | 1 Nov 03  | 1740 | N15:07.75 | W101:11.86 | 1   | 1       | 2           | On     |
| 051                        |             | 1600            | 7 Nov 03  | 1040 | N05:47.65 | W115:57.33 | 3   | 125     | 3           | On     |
| 051                        |             | 1632            | 14 Nov 03 | 1410 | N14:25.16 | W106:33.21 | 2   | 125     | 3           | On     |
| 051                        |             | 1701            | 26 Nov 03 | 1642 | N16:19.17 | W117:43.37 | 4   | 1       | 3           | On     |
| <i>Ziphius cavirostris</i> |             |                 |           |      |           |            |     |         |             |        |
| 061                        |             | 207             | 11 Sep 03 | 1208 | N09:23.42 | W138:02.17 | 2   | 125     | 2           | On     |
| 061                        |             | 227             | 13 Sep 03 | 1512 | N05:05.37 | W131:29.76 | 4   | 1       | 3           | On     |
| 061                        |             | 341             | 9 Oct 03  | 1550 | N03:24.22 | W086:55.23 | 4   | 199     | 2           | On     |
| 061                        |             | 610             | 22 Nov 03 | 0805 | N08:44.82 | W085:48.73 | 2   | 73      | 2           | On     |
| 061                        |             | 651             | 24 Nov 03 | 0823 | N09:37.22 | W090:11.47 | 2   | 224     | 1           | On     |
| 061                        |             | 669             | 24 Nov 03 | 1401 | N09:51.21 | W090:47.45 | 1   | 233     | 1           | On     |
| 061                        |             | 717             | 26 Nov 03 | 1249 | N08:15.39 | W095:41.15 | 2   | 73      | 4           | On     |
| 061                        |             | 760             | 1 Dec 03  | 1318 | N14:32.45 | W110:04.69 | 4   | 233     | 1           | On     |
| 061                        |             | 1086            | 9 Aug 03  | 0846 | N21:49.97 | W110:23.69 | 2   | 227     | 1           | Off    |
| 061                        |             | 1122            | 10 Aug 03 | 1443 | N23:52.57 | W109:10.55 | 2   | 200     | 2           | Off    |
| 061                        |             | 1218            | 21 Aug 03 | 1231 | N17:38.68 | W105:26.06 | 1   | 73      | 1           | On     |
| 061                        |             | 1221            | 21 Aug 03 | 1311 | N17:34.96 | W105:30.80 | 1   | 126     | 1           | On     |
| 061                        |             | 1248            | 23 Aug 03 | 1312 | N16:05.98 | W111:02.38 | 3   | 199     | 1           | On     |
| 061                        |             | 1277            | 30 Aug 03 | 0807 | N11:08.02 | W120:05.39 | 2   | 200     | 2           | On     |
| 061                        |             | 1318            | 18 Sep 03 | 0701 | N16:02.45 | W098:22.07 | 3   | 126     | 1           | Off    |
| 061                        |             | 1323            | 19 Sep 03 | 0812 | N14:52.36 | W098:58.54 | 4   | 73      | 1           | Off    |

Table 2. Marine mammal sightings (continued).

| Code                              | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|-----------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 061                               |             | 1328            | 20 Sep 03 | 1410 | N12:56.26 | W101:48.29 | 3   | 224     | 3           | On    |
| 061                               |             | 1462            | 15 Oct 03 | 1009 | N06:05.85 | W102:46.85 | 4   | 1       | 3           | On    |
| 061                               |             | 1464            | 16 Oct 03 | 1028 | N06:02.27 | W105:50.89 | 4   | 208     | 1           | On    |
| 061                               |             | 1559            | 31 Oct 03 | 1120 | N14:32.06 | W097:29.63 | 2   | 7       | 2           | On    |
| 061                               |             | 1575            | 2 Nov 03  | 1308 | N13:46.40 | W103:35.19 | 4   | 1       | 2           | On    |
| 061                               |             | 1607            | 9 Nov 03  | 1648 | N07:42.71 | W120:28.66 | 4   | 1       | 2           | Off   |
| <i>Berardius bairdii</i>          |             |                 |           |      |           |            |     |         |             |       |
| 063                               |             | 12              | 30 Jul 03 | 1130 | N30:35.31 | W117:45.96 | 2   | 1       | 4           | On    |
| 063                               |             | 1057            | 7 Aug 03  | 1342 | N24:03.46 | W112:21.05 | 2   | 73      | 4           | Off   |
| <i>Balaenoptera sp.</i>           |             |                 |           |      |           |            |     |         |             |       |
| 070                               |             | 1               | 29 Jul 03 | 1826 | N32:18.10 | W117:16.57 | 0   | 230     | 2           | Off   |
| 070                               |             | 8               | 30 Jul 03 | 0747 | N30:54.60 | W117:18.91 | 4   | 1       | 1           | Off   |
| 070                               |             | 60              | 10 Aug 03 | 1039 | N08:14.74 | W128:44.24 | 4   | 208     | 1           | On    |
| 070                               |             | 68              | 11 Aug 03 | 1136 | N10:21.41 | W130:53.08 | 4   | 98      | 1           | Off   |
| 070                               |             | 116             | 17 Aug 03 | 0620 | N04:49.32 | W137:55.45 | 5   | 7       | 1           | On    |
| 070                               |             | 134             | 19 Aug 03 | 1137 | N09:09.52 | W142:33.26 | 4   | 208     | 1           | On    |
| 070                               |             | 139             | 19 Aug 03 | 1533 | N09:30.86 | W143:03.07 | 3   | 208     | 1           | Off   |
| 070                               |             | 192             | 10 Sep 03 | 0627 | N11:07.83 | W140:47.97 | 5   | 208     | 5           | On    |
| 070                               | 077         | 220             | 12 Sep 03 | 1221 | N07:23.91 | W135:01.51 | 5   | 228     | 20          | On    |
| 070                               |             | 222             | 13 Sep 03 | 0750 | N05:44.30 | W132:17.27 | 4   | 7       | 1           | On    |
| 070                               |             | 224             | 13 Sep 03 | 0903 | N05:33.17 | W132:10.60 | 5   | 208     | 1           | Off   |
| 070                               |             | 233             | 14 Sep 03 | 0704 | N03:58.46 | W129:30.47 | 4   | 7       | 1           | On    |
| 070                               |             | 257             | 20 Sep 03 | 1553 | N03:09.33 | W114:15.08 | 4   | 7       | 1           | Off   |
| 070                               |             | 262             | 21 Sep 03 | 0931 | N03:31.38 | W111:45.30 | 4   | 7       | 1           | On    |
| 070                               |             | 336             | 9 Oct 03  | 1057 | N03:41.32 | W086:26.53 | 4   | 126     | 1           | On    |
| 070                               |             | 377             | 13 Oct 03 | 0836 | S02:44.62 | W095:05.39 | 3   | 29      | 1           | On    |
| 070                               |             | 379             | 13 Oct 03 | 0959 | S02:53.31 | W095:15.82 | 3   | 200     | 2           | On    |
| 070                               |             | 415             | 21 Oct 03 | 1014 | S09:02.07 | W089:05.07 | 5   | 199     | 1           | Off   |
| 070                               |             | 419             | 22 Oct 03 | 0727 | S11:27.43 | W088:16.30 | 4   | 199     | 1           | On    |
| 070                               |             | 471             | 3 Nov 03  | 1747 | S08:34.20 | W079:15.88 | 4   | 224     | 2           | On    |
| 070                               |             | 594             | 20 Nov 03 | 1807 | N07:33.28 | W082:09.31 | 3   | 224     | 1           | Off   |
| 070                               | 075 072     | 647             | 23 Nov 03 | 1624 | N09:06.49 | W088:28.62 | 3   | 126     | 5           | Off   |
| 070                               |             | 738             | 28 Nov 03 | 0846 | N09:43.43 | W101:03.99 | 4   | 126     | 1           | On    |
| 070                               |             | 773             | 3 Dec 03  | 1116 | N16:48.78 | W114:48.51 | 4   | 126     | 1           | On    |
| 070                               |             | 1015            | 2 Aug 03  | 0633 | N28:39.24 | W115:41.86 | 4   | 4       | 1           | Off   |
| 070                               |             | 1016            | 2 Aug 03  | 0645 | N28:36.02 | W115:38.82 | 4   | 126     | 4           | On    |
| 070                               |             | 1023            | 2 Aug 03  | 1337 | N27:54.57 | W115:32.23 | 4   | 233     | 1           | On    |
| 070                               |             | 1028            | 2 Aug 03  | 1734 | N27:44.03 | W115:16.29 | 5   | 200     | 1           | On    |
| 070                               |             | 1035            | 3 Aug 03  | 1444 | N26:54.55 | W114:38.58 | 5   | 224     | 1           | On    |
| 070                               | 074         | 1036            | 3 Aug 03  | 1449 | N26:53.85 | W114:36.81 | 5   | 126     | 6           | On    |
| 070                               |             | 1037            | 3 Aug 03  | 1510 | N26:54.38 | W114:31.84 | 5   | 199     | 1           | On    |
| 070                               | 074         | 1039            | 3 Aug 03  | 1727 | N26:59.71 | W114:23.40 | 5   | 199     | 7           | On    |
| 070                               |             | 1041            | 3 Aug 03  | 1909 | N27:01.49 | W114:19.70 | 5   | 126     | 2           | On    |
| 070                               |             | 1051            | 5 Aug 03  | 1816 | N24:30.11 | W115:08.86 | 4   | 126     | 1           | On    |
| 070                               |             | 1096            | 9 Aug 03  | 1240 | N21:44.41 | W110:04.29 | 1   | 224     | 1           | Off   |
| 070                               |             | 1149            | 11 Aug 03 | 1737 | N26:39.72 | W111:07.58 | 3   | 126     | 1           | On    |
| 070                               |             | 1516            | 28 Oct 03 | 1603 | N13:50.51 | W091:55.88 | 2   | 208     | 1           | Off   |
| 070                               |             | 1519            | 28 Oct 03 | 1625 | N13:51.43 | W091:56.48 | 2   | 208     | 1           | On    |
| 070                               |             | 1605            | 9 Nov 03  | 1300 | N07:25.37 | W121:01.87 | 4   | 1       | 1           | Off   |
| 070                               |             | 1702            | 27 Nov 03 | 0759 | N15:49.97 | W119:43.94 | 5   | 1       | 1           | On    |
| 070                               |             | 1709            | 30 Nov 03 | 0820 | N18:50.00 | W117:04.04 | 4   | 7       | 1           | On    |
| <i>Balaenoptera acutorostrata</i> |             |                 |           |      |           |            |     |         |             |       |
| 071                               |             | 1009            | 1 Aug 03  | 0621 | N30:20.63 | W116:04.23 | 2   | 73      | 1           | On    |

Table 2. Marine mammal sightings (continued).

| Code                         | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Effort |
|------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|--------|
| <i>Balaenoptera edeni</i>    |             |                 |           |      |           |            |     |         |             |        |
| 072                          |             | 59              | 10 Aug 03 | 0902 | N08:03.88 | W128:36.57 | 4   | 125     | 1           | Off    |
| 072                          | 002 011     | 98              | 14 Aug 03 | 1846 | N11:52.75 | W136:28.68 | 4   | 1       | 525         | On     |
| 072                          |             | 225             | 13 Sep 03 | 0909 | N05:32.16 | W132:10.45 | 5   | 208     | 1           | On     |
| 072                          |             | 226             | 13 Sep 03 | 1248 | N05:11.24 | W131:47.95 | 4   | 228     | 1           | On     |
| 072                          |             | 236             | 14 Sep 03 | 1604 | N03:12.38 | W128:21.26 | 5   | 208     | 8           | On     |
| 072                          |             | 237             | 14 Sep 03 | 1731 | N03:07.21 | W128:17.15 | 4   | 208     | 1           | On     |
| 072                          |             | 245             | 17 Sep 03 | 1416 | S00:03.44 | W120:00.97 | 4   | 208     | 2           | On     |
| 072                          |             | 251             | 20 Sep 03 | 0830 | N03:03.39 | W115:11.00 | 4   | 208     | 1           | On     |
| 072                          |             | 339             | 9 Oct 03  | 1352 | N03:29.93 | W086:51.54 | 4   | 200     | 7           | On     |
| 072                          |             | 342             | 9 Oct 03  | 1614 | N03:20.58 | W087:00.57 | 4   | 126     | 3           | On     |
| 072                          |             | 352             | 10 Oct 03 | 1337 | N01:46.82 | W089:04.03 | 5   | 233     | 2           | On     |
| 072                          |             | 382             | 13 Oct 03 | 1154 | S02:58.51 | W095:20.16 | 4   | 224     | 2           | On     |
| 072                          |             | 481             | 4 Nov 03  | 1530 | S07:23.91 | W079:54.40 | 4   | 233     | 1           | On     |
| 072                          |             | 498             | 6 Nov 03  | 1528 | S03:19.60 | W080:38.37 | 4   | 73      | 1           | On     |
| 072                          |             | 507             | 8 Nov 03  | 0757 | N00:01.64 | W080:36.21 | 4   | 126     | 1           | On     |
| 072                          | 075 070     | 647             | 23 Nov 03 | 1624 | N09:06.49 | W088:28.62 | 3   | 126     | 5           | Off    |
| 072                          |             | 734             | 27 Nov 03 | 1437 | N09:10.85 | W098:42.96 | 2   | 199     | 2           | On     |
| 072                          |             | 767             | 2 Dec 03  | 1044 | N15:24.74 | W112:30.59 | 4   | 126     | 1           | On     |
| 072                          |             | 1034            | 3 Aug 03  | 1246 | N26:52.82 | W114:39.83 | 5   | 233     | 1           | On     |
| 072                          |             | 1038            | 3 Aug 03  | 1539 | N26:57.33 | W114:28.85 | 5   | 224     | 1           | Off    |
| 072                          |             | 1067            | 8 Aug 03  | 1325 | N22:46.61 | W111:03.24 | 2   | 224     | 5           | On     |
| 072                          |             | 1071            | 8 Aug 03  | 1513 | N22:38.39 | W111:10.32 | 1   | 200     | 2           | On     |
| 072                          |             | 1072            | 8 Aug 03  | 1516 | N22:37.27 | W111:11.29 | 1   | 199     | 1           | On     |
| 072                          |             | 1075            | 8 Aug 03  | 1625 | N22:36.95 | W111:11.94 | 1   | 224     | 1           | Off    |
| 072                          |             | 1076            | 8 Aug 03  | 1648 | N22:35.85 | W111:14.24 | 1   | 224     | 1           | On     |
| 072                          |             | 1078            | 8 Aug 03  | 1702 | N22:32.66 | W111:15.92 | 1   | 92      | 1           | Off    |
| 072                          |             | 1080            | 8 Aug 03  | 1803 | N22:29.80 | W111:20.44 | 2   | 233     | 1           | On     |
| 072                          | 075         | 1084            | 8 Aug 03  | 1928 | N22:20.41 | W111:19.71 | 2   | 200     | 3           | On     |
| 072                          | 037         | 1085            | 9 Aug 03  | 0702 | N21:47.44 | W110:19.44 | 2   | 200     | 24          | On     |
| 072                          |             | 1089            | 9 Aug 03  | 1020 | N21:48.78 | W110:20.30 | 1   | 73      | 2           | On     |
| 072                          |             | 1128            | 11 Aug 03 | 0755 | N25:33.31 | W110:22.32 | 2   | 73      | 2           | On     |
| 072                          |             | 1153            | 12 Aug 03 | 1018 | N25:51.92 | W109:39.87 | 3   | 233     | 1           | On     |
| 072                          |             | 1154            | 12 Aug 03 | 1119 | N25:46.82 | W109:36.06 | 3   | 233     | 1           | On     |
| 072                          |             | 1155            | 12 Aug 03 | 1158 | N25:41.57 | W109:36.46 | 3   | 233     | 1           | On     |
| 072                          |             | 1159            | 12 Aug 03 | 1741 | N25:18.85 | W109:13.30 | 4   | 199     | 1           | On     |
| 072                          |             | 1161            | 13 Aug 03 | 0655 | N24:23.50 | W108:09.07 | 2   | 200     | 1           | On     |
| 072                          |             | 1169            | 13 Aug 03 | 1452 | N23:45.68 | W107:37.28 | 3   | 4       | 1           | Off    |
| 072                          |             | 1260            | 25 Aug 03 | 1920 | N14:07.39 | W117:53.81 | 4   | 199     | 1           | On     |
| 072                          |             | 1295            | 1 Sep 03  | 1654 | N13:30.80 | W113:18.69 | 5   | 233     | 1           | On     |
| 072                          |             | 1362            | 24 Sep 03 | 1540 | N13:08.66 | W090:28.75 | 4   | 224     | 3           | On     |
| 072                          |             | 1399            | 27 Sep 03 | 1209 | N12:40.33 | W088:37.31 | 2   | 227     | 1           | Off    |
| 072                          |             | 1454            | 12 Oct 03 | 1021 | N06:18.31 | W095:02.13 | 4   | 228     | 2           | On     |
| 072                          |             | 1486            | 21 Oct 03 | 1001 | N11:45.71 | W098:29.82 | 4   | 208     | 1           | On     |
| 072                          |             | 1675            | 22 Nov 03 | 1741 | N19:04.60 | W105:31.59 | 5   | 125     | 1           | On     |
| 072                          |             | 1700            | 26 Nov 03 | 0954 | N16:31.86 | W116:46.53 | 4   | 125     | 1           | On     |
| 072                          |             | 1708            | 29 Nov 03 | 1725 | N18:28.36 | W118:53.47 | 3   | 125     | 1           | On     |
| 072                          |             | 1715            | 1 Dec 03  | 1522 | N19:46.37 | W112:40.45 | 4   | 208     | 1           | Off    |
| <i>Balaenoptera physalus</i> |             |                 |           |      |           |            |     |         |             |        |
| 074                          |             | 431             | 24 Oct 03 | 1128 | S14:46.74 | W084:41.91 | 4   | 227     | 1           | Off    |
| 074                          |             | 778             | 5 Dec 03  | 1023 | N20:55.28 | W119:38.12 | 4   | 199     | 1           | On     |
| 074                          |             | 1013            | 1 Aug 03  | 1729 | N28:48.84 | W115:18.03 | 5   | 73      | 6           | On     |
| 074                          | 070         | 1036            | 3 Aug 03  | 1449 | N26:53.85 | W114:36.81 | 5   | 126     | 6           | On     |
| 074                          | 070         | 1039            | 3 Aug 03  | 1727 | N26:59.71 | W114:23.40 | 5   | 199     | 7           | On     |
| 074                          |             | 1139            | 11 Aug 03 | 1340 | N26:12.24 | W110:47.74 | 2   | 126     | 2           | On     |

Table 2. Marine mammal sightings (continued).

| Code                          | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Effort |
|-------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|--------|
| <i>Balaenoptera musculus</i>  |             |                 |           |      |           |            |     |         |             |        |
| 075                           |             | 371             | 12 Oct 03 | 0937 | S01:31.23 | W092:23.13 | 4   | 73      | 2           | On     |
| 075                           |             | 414             | 21 Oct 03 | 0731 | S08:49.86 | W089:10.70 | 5   | 224     | 2           | On     |
| 075                           |             | 416             | 21 Oct 03 | 1123 | S09:05.69 | W089:01.64 | 4   | 233     | 2           | On     |
| 075                           |             | 420             | 22 Oct 03 | 0917 | S11:47.61 | W088:15.95 | 4   | 233     | 2           | On     |
| 075                           |             | 428             | 23 Oct 03 | 0813 | S14:26.54 | W087:25.00 | 5   | 233     | 2           | On     |
| 075                           |             | 433             | 25 Oct 03 | 0931 | S13:45.04 | W081:56.74 | 4   | 199     | 1           | On     |
| 075                           | 072 070     | 647             | 23 Nov 03 | 1624 | N09:06.49 | W088:28.62 | 3   | 126     | 5           | Off    |
| 075                           |             | 660             | 24 Nov 03 | 1011 | N09:42.67 | W090:29.08 | 0   | 233     | 1           | Off    |
| 075                           |             | 668             | 24 Nov 03 | 1229 | N09:49.26 | W090:41.13 | 0   | 73      | 1           | Off    |
| 075                           |             | 674             | 24 Nov 03 | 1432 | N09:53.36 | W090:53.15 | 1   | 233     | 1           | On     |
| 075                           |             | 683             | 24 Nov 03 | 1744 | N09:53.29 | W091:13.76 | 2   | 233     | 1           | Off    |
| 075                           |             | 689             | 25 Nov 03 | 0825 | N09:18.91 | W092:52.66 | 1   | 199     | 1           | Off    |
| 075                           |             | 691             | 25 Nov 03 | 0937 | N09:17.87 | W092:56.43 | 2   | 199     | 1           | On     |
| 075                           |             | 695             | 25 Nov 03 | 1157 | N09:08.04 | W093:03.85 | 2   | 126     | 1           | On     |
| 075                           |             | 697             | 25 Nov 03 | 1254 | N09:09.13 | W093:08.79 | 2   | 99      | 2           | Off    |
| 075                           |             | 732             | 27 Nov 03 | 1328 | N09:08.84 | W098:36.28 | 3   | 126     | 1           | On     |
| 075                           |             | 779             | 5 Dec 03  | 1515 | N21:07.32 | W120:11.18 | 4   | 233     | 2           | On     |
| 075                           |             | 795             | 8 Dec 03  | 0741 | N28:31.47 | W118:41.00 | 5   | 233     | 1           | On     |
| 075                           |             | 1014            | 1 Aug 03  | 1906 | N28:46.36 | W115:18.09 | 4   | 199     | 5           | On     |
| 075                           |             | 1017            | 2 Aug 03  | 0741 | N28:29.98 | W115:34.52 | 4   | 126     | 4           | On     |
| 075                           |             | 1018            | 2 Aug 03  | 0804 | N28:26.95 | W115:32.11 | 4   | 126     | 2           | On     |
| 075                           |             | 1019            | 2 Aug 03  | 0847 | N28:23.91 | W115:31.14 | 3   | 233     | 2           | On     |
| 075                           |             | 1020            | 2 Aug 03  | 1051 | N28:15.51 | W115:28.13 | 4   | 4       | 1           | Off    |
| 075                           |             | 1021            | 2 Aug 03  | 1145 | N28:14.16 | W115:29.73 | 4   | 73      | 1           | Off    |
| 075                           |             | 1022            | 2 Aug 03  | 1232 | N28:04.12 | W115:31.62 | 4   | 126     | 1           | On     |
| 075                           |             | 1024            | 2 Aug 03  | 1509 | N27:50.69 | W115:26.95 | 5   | 200     | 9           | On     |
| 075                           |             | 1025            | 2 Aug 03  | 1657 | N27:47.93 | W115:23.25 | 5   | 233     | 2           | On     |
| 075                           |             | 1026            | 2 Aug 03  | 1715 | N27:47.06 | W115:20.72 | 5   | 233     | 3           | On     |
| 075                           |             | 1027            | 2 Aug 03  | 1728 | N27:45.34 | W115:18.48 | 5   | 200     | 1           | On     |
| 075                           |             | 1029            | 2 Aug 03  | 1809 | N27:41.22 | W115:11.95 | 5   | 199     | 2           | On     |
| 075                           |             | 1030            | 2 Aug 03  | 1831 | N27:40.64 | W115:09.05 | 5   | 199     | 2           | On     |
| 075                           |             | 1047            | 5 Aug 03  | 1024 | N24:45.53 | W114:20.44 | 4   | 233     | 1           | On     |
| 075                           |             | 1079            | 8 Aug 03  | 1710 | N22:29.82 | W111:18.51 | 1   | 199     | 1           | Off    |
| 075                           |             | 1082            | 8 Aug 03  | 1833 | N22:24.24 | W111:24.68 | 2   | 200     | 1           | On     |
| 075                           | 072         | 1084            | 8 Aug 03  | 1928 | N22:20.41 | W111:19.71 | 2   | 200     | 3           | On     |
| 075                           |             | 1087            | 9 Aug 03  | 0926 | N21:51.36 | W110:26.36 | 2   | 126     | 1           | Off    |
| 075                           |             | 1088            | 9 Aug 03  | 0936 | N21:49.13 | W110:22.91 | 2   | 199     | 1           | Off    |
| 075                           |             | 1332            | 21 Sep 03 | 1318 | N13:11.75 | W099:04.32 | 4   | 233     | 1           | On     |
| 075                           |             | 1389            | 26 Sep 03 | 1717 | N11:19.78 | W088:31.03 | 1   | 199     | 1           | Off    |
| 075                           |             | 1721            | 3 Dec 03  | 1648 | N21:50.75 | W112:24.45 | 4   | 229     | 1           | Off    |
| 075                           |             | 1722            | 3 Dec 03  | 1650 | N21:52.51 | W112:24.41 | 4   | 125     | 1           | On     |
| 075                           |             | 1727            | 6 Dec 03  | 1606 | N25:22.52 | W116:08.08 | 3   | 228     | 1           | On     |
| 075                           |             | 1735            | 8 Dec 03  | 1315 | N29:20.66 | W118:07.63 | 5   | 1       | 1           | On     |
| <i>Megaptera novaeangliae</i> |             |                 |           |      |           |            |     |         |             |        |
| 076                           |             | 443             | 1 Nov 03  | 0716 | S10:54.48 | W078:19.31 | 3   | 199     | 2           | On     |
| 076                           | 025         | 445             | 1 Nov 03  | 1157 | S10:28.15 | W078:08.42 | 2   | 126     | 364         | On     |
| 076                           |             | 447             | 1 Nov 03  | 1525 | S10:26.95 | W078:32.11 | 3   | 233     | 4           | On     |
| 076                           |             | 448             | 2 Nov 03  | 0602 | S10:10.71 | W079:03.38 | 4   | 73      | 2           | Off    |
| 076                           |             | 477             | 4 Nov 03  | 1211 | S07:27.65 | W079:58.39 | 3   | 199     | 1           | Off    |
| 076                           |             | 478             | 4 Nov 03  | 1230 | S07:28.82 | W079:57.61 | 3   | 73      | 3           | On     |
| 076                           |             | 479             | 4 Nov 03  | 1435 | S07:32.70 | W079:55.18 | 3   | 233     | 2           | Off    |
| 076                           |             | 483             | 5 Nov 03  | 0604 | S06:24.75 | W081:10.62 | 3   | 73      | 6           | On     |
| 076                           |             | 484             | 5 Nov 03  | 0616 | S06:24.51 | W081:10.38 | 3   | 73      | 2           | On     |
| 076                           |             | 485             | 5 Nov 03  | 0741 | S06:22.21 | W081:07.38 | 2   | 73      | 4           | On     |

Table 2. Marine mammal sightings (continued).

| Code            | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|-----------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 076             |             | 486             | 5 Nov 03  | 0911 | S06:13.95 | W081:10.89 | 2   | 224     | 4           | On    |
| 076             |             | 488             | 5 Nov 03  | 1335 | S05:41.60 | W081:17.38 | 5   | 199     | 2           | On    |
| 076             |             | 491             | 6 Nov 03  | 0653 | S03:50.60 | W081:19.71 | 5   | 73      | 2           | On    |
| 076             |             | 492             | 6 Nov 03  | 0824 | S03:43.39 | W081:17.66 | 5   | 199     | 1           | On    |
| 076             |             | 501             | 7 Nov 03  | 1010 | S01:45.90 | W080:58.70 | 4   | 200     | 2           | On    |
| 076             |             | 503             | 7 Nov 03  | 1336 | S01:16.42 | W081:02.46 | 4   | 73      | 1           | Off   |
| 076             |             | 504             | 7 Nov 03  | 1731 | S01:06.87 | W081:03.51 | 4   | 73      | 2           | On    |
| 076             |             | 509             | 8 Nov 03  | 1146 | N00:09.98 | W080:18.32 | 4   | 233     | 2           | On    |
| 076 099         |             | 510             | 8 Nov 03  | 1359 | N00:24.03 | W080:13.69 | 4   | 73      | 3           | On    |
| unid. dolphin   |             |                 |           |      |           |            |     |         |             |       |
| 077             |             | 3               | 29 Jul 03 | 1852 | N32:15.36 | W117:16.98 | 0   | 228     | 1           | Off   |
| 077             |             | 5               | 30 Jul 03 | 0707 | N30:57.86 | W117:14.71 | 4   | 228     | 1           | Off   |
| 077             |             | 9               | 30 Jul 03 | 0830 | N30:49.23 | W117:24.55 | 4   | 228     | 1           | On    |
| 077             |             | 10              | 30 Jul 03 | 0838 | N30:47.69 | W117:23.91 | 4   | 230     | 3           | On    |
| 077             |             | 14              | 30 Jul 03 | 1500 | N30:14.19 | W118:13.01 | 2   | 125     | 2           | On    |
| 077             |             | 19              | 31 Jul 03 | 0850 | N28:39.09 | W120:10.68 | 1   | 125     | 25          | On    |
| 077 018         |             | 26              | 31 Jul 03 | 1717 | N27:46.02 | W121:17.35 | 1   | 125     | 30          | Off   |
| 077             |             | 35              | 5 Aug 03  | 0738 | N18:35.50 | W127:19.99 | 4   | 1       | 20          | On    |
| 077             |             | 36              | 5 Aug 03  | 1050 | N18:07.19 | W127:32.60 | 5   | 7       | 60          | On    |
| 077             |             | 44              | 8 Aug 03  | 0735 | N08:55.46 | W126:48.96 | 4   | 125     | 24          | On    |
| 077             |             | 53              | 9 Aug 03  | 0657 | N06:22.12 | W126:47.85 | 4   | 125     | 5           | On    |
| 077             |             | 54              | 9 Aug 03  | 0827 | N06:25.97 | W126:58.90 | 4   | 1       | 30          | On    |
| 077             |             | 63              | 10 Aug 03 | 1550 | N08:48.89 | W129:14.65 | 4   | 125     | 4           | On    |
| 077             |             | 65              | 11 Aug 03 | 0837 | N10:05.61 | W130:35.44 | 4   | 7       | 20          | On    |
| 077             |             | 67              | 11 Aug 03 | 1014 | N10:14.68 | W130:44.40 | 5   | 1       | 3           | On    |
| 077             |             | 84              | 13 Aug 03 | 1629 | N15:04.16 | W135:52.00 | 3   | 208     | 15          | Off   |
| 077             |             | 87              | 14 Aug 03 | 0740 | N13:15.72 | W136:18.75 | 2   | 208     | 5           | Off   |
| 077 011 013 002 |             | 91              | 14 Aug 03 | 1128 | N12:40.65 | W136:23.62 | 2   | 208     | 304         | On    |
| 077             |             | 93              | 14 Aug 03 | 1345 | N12:33.05 | W136:29.21 | 3   | 228     | 1           | On    |
| 077             |             | 109             | 15 Aug 03 | 1358 | N10:05.75 | W137:00.20 | 4   | 7       | 12          | On    |
| 077             |             | 114             | 16 Aug 03 | 1416 | N06:46.05 | W137:33.44 | 5   | 1       | 15          | On    |
| 077             |             | 119             | 17 Aug 03 | 1818 | N05:33.66 | W138:56.19 | 4   | 125     | 3           | On    |
| 077 011 002     |             | 120             | 18 Aug 03 | 0649 | N06:34.55 | W140:07.65 | 4   | 7       | 117         | On    |
| 077             |             | 121             | 18 Aug 03 | 0821 | N06:45.21 | W140:14.65 | 4   | 208     | 11          | On    |
| 077             |             | 126             | 18 Aug 03 | 1519 | N07:27.48 | W140:55.30 | 3   | 208     | 20          | On    |
| 077             |             | 128             | 18 Aug 03 | 1803 | N07:37.89 | W141:14.25 | 3   | 228     | 1           | On    |
| 077             |             | 135             | 19 Aug 03 | 1142 | N09:10.71 | W142:36.14 | 3   | 1       | 40          | Off   |
| 077 011         |             | 137             | 19 Aug 03 | 1449 | N09:22.57 | W142:57.97 | 2   | 1       | 35          | On    |
| 077 003         |             | 158             | 20 Aug 03 | 1833 | N08:18.55 | W146:06.18 | 1   | 1       | 93          | On    |
| 077             |             | 162             | 21 Aug 03 | 0736 | N07:30.98 | W147:30.61 | 2   | 7       | 35          | On    |
| 077             |             | 165             | 21 Aug 03 | 1200 | N07:14.66 | W147:58.42 | 4   | 125     | 3           | On    |
| 077             |             | 170             | 23 Aug 03 | 1654 | N11:00.39 | W151:55.13 | 5   | 208     | 1           | On    |
| 077             |             | 172             | 25 Aug 03 | 1812 | N17:27.41 | W155:39.39 | 5   | 208     | 3           | On    |
| 077             |             | 180             | 5 Sep 03  | 0809 | N19:27.83 | W156:29.02 | 2   | 7       | 28          | On    |
| 077             |             | 182             | 5 Sep 03  | 0905 | N19:20.96 | W156:25.11 | 3   | 228     | 28          | On    |
| 077             |             | 184             | 5 Sep 03  | 1009 | N19:12.80 | W156:15.65 | 3   | 1       | 18          | On    |
| 077             |             | 186             | 8 Sep 03  | 0838 | N14:12.66 | W146:24.59 | 4   | 98      | 1           | Off   |
| 077 036         |             | 189             | 9 Sep 03  | 1346 | N12:13.88 | W142:34.27 | 5   | 230     | 14          | On    |
| 077 036         |             | 197             | 10 Sep 03 | 1413 | N10:34.82 | W140:01.11 | 4   | 208     | 19          | On    |
| 077             |             | 198             | 10 Sep 03 | 1516 | N10:30.98 | W139:56.40 | 4   | 208     | 15          | On    |
| 077             |             | 211             | 11 Sep 03 | 1359 | N09:19.75 | W137:49.61 | 1   | 208     | 70          | Off   |
| 077             |             | 214             | 11 Sep 03 | 1513 | N09:17.90 | W137:42.59 | 3   | 125     | 80          | On    |
| 077             |             | 215             | 11 Sep 03 | 1523 | N09:11.82 | W137:48.24 | 3   | 1       | 20          | Off   |
| 077             |             | 218             | 11 Sep 03 | 1750 | N09:01.24 | W137:30.13 | 5   | 99      | 4           | Off   |
| 077 070         |             | 220             | 12 Sep 03 | 1221 | N07:23.91 | W135:01.51 | 5   | 228     | 20          | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 077  |             | 223             | 13 Sep 03 | 0846 | N05:33.26 | W132:12.04 | 5   | 7       | 20          | On    |
| 077  |             | 228             | 13 Sep 03 | 1537 | N05:06.86 | W131:23.53 | 4   | 7       | 20          | On    |
| 077  |             | 230             | 13 Sep 03 | 1657 | N05:00.38 | W131:18.75 | 4   | 228     | 8           | On    |
| 077  |             | 234             | 14 Sep 03 | 1131 | N03:28.35 | W128:59.54 | 4   | 228     | 1           | On    |
| 077  |             | 240             | 16 Sep 03 | 1430 | N00:00.30 | W122:34.05 | 4   | 231     | 40          | Off   |
| 077  |             | 241             | 16 Sep 03 | 1438 | N00:04.52 | W122:30.77 | 4   | 208     | 2           | On    |
| 077  |             | 246             | 17 Sep 03 | 1845 | N00:29.46 | W119:45.19 | 4   | 1       | 21          | On    |
| 077  |             | 256             | 20 Sep 03 | 1535 | N03:08.86 | W114:14.41 | 4   | 228     | 1           | On    |
| 077  |             | 259             | 20 Sep 03 | 1654 | N03:07.40 | W114:06.30 | 4   | 1       | 20          | On    |
| 077  |             | 263             | 21 Sep 03 | 0953 | N03:29.24 | W111:43.69 | 4   | 125     | 4           | On    |
| 077  |             | 264             | 21 Sep 03 | 1011 | N03:29.32 | W111:40.42 | 5   | 230     | 15          | On    |
| 077  |             | 265             | 22 Sep 03 | 0858 | N03:48.93 | W108:02.65 | 4   | 7       | 120         | On    |
| 077  |             | 267             | 22 Sep 03 | 1036 | N03:52.97 | W107:42.29 | 4   | 208     | 17          | On    |
| 077  |             | 268             | 22 Sep 03 | 1040 | N03:51.69 | W107:45.93 | 4   | 208     | 3           | Off   |
| 077  |             | 269             | 22 Sep 03 | 1102 | N03:52.05 | W107:42.25 | 4   | 1       | 5           | Off   |
| 077  |             | 275             | 24 Sep 03 | 1057 | N04:38.47 | W100:18.77 | 5   | 125     | 5           | On    |
| 077  |             | 294             | 26 Sep 03 | 1435 | N05:22.06 | W094:22.20 | 4   | 7       | 65          | On    |
| 077  |             | 295             | 26 Sep 03 | 1555 | N05:25.90 | W094:06.19 | 4   | 208     | 60          | On    |
| 077  |             | 307             | 28 Sep 03 | 0826 | N07:53.53 | W089:29.50 | 5   | 1       | 5           | On    |
| 077  |             | 311             | 28 Sep 03 | 1018 | N08:08.22 | W089:25.82 | 5   | 230     | 39          | Off   |
| 077  |             | 315             | 28 Sep 03 | 1219 | N08:19.29 | W089:13.85 | 5   | 7       | 1           | On    |
| 077  |             | 317             | 28 Sep 03 | 1402 | N08:31.18 | W089:20.60 | 4   | 208     | 2           | On    |
| 077  |             | 324             | 29 Sep 03 | 1713 | N09:20.43 | W086:15.20 | 4   | 228     | 2           | On    |
| 077  |             | 349             | 10 Oct 03 | 1021 | N01:55.24 | W088:37.77 | 4   | 200     | 5           | On    |
| 077  |             | 358             | 11 Oct 03 | 0828 | N00:23.86 | W090:35.97 | 4   | 233     | 1           | On    |
| 077  |             | 360             | 11 Oct 03 | 0937 | N00:18.29 | W090:42.07 | 4   | 200     | 10          | On    |
| 077  |             | 365             | 11 Oct 03 | 1622 | S00:25.56 | W090:43.80 | 4   | 233     | 20          | On    |
| 077  |             | 407             | 19 Oct 03 | 1458 | S08:55.95 | W093:46.36 | 4   | 98      | 12          | Off   |
| 077  |             | 497             | 6 Nov 03  | 1512 | S03:25.97 | W080:38.41 | 4   | 73      | 5           | On    |
| 077  |             | 514             | 9 Nov 03  | 0832 | N00:52.91 | W080:04.91 | 5   | 233     | 3           | On    |
| 077  |             | 609             | 22 Nov 03 | 0731 | N08:44.67 | W085:45.72 | 3   | 233     | 2           | On    |
| 077  |             | 618             | 22 Nov 03 | 1612 | N08:33.55 | W086:13.56 | 2   | 73      | 1           | On    |
| 077  |             | 625             | 23 Nov 03 | 0714 | N08:39.28 | W087:48.77 | 3   | 233     | 4           | Off   |
| 077  |             | 641             | 23 Nov 03 | 1414 | N08:57.99 | W088:21.24 | 2   | 73      | 2           | On    |
| 077  |             | 649             | 24 Nov 03 | 0717 | N09:38.33 | W089:59.14 | 2   | 73      | 1           | On    |
| 077  |             | 677             | 24 Nov 03 | 1557 | N09:53.57 | W091:00.06 | 1   | 126     | 4           | On    |
| 077  |             | 746             | 29 Nov 03 | 1015 | N11:01.23 | W104:31.81 | 4   | 73      | 1           | On    |
| 077  |             | 748             | 29 Nov 03 | 1104 | N11:13.85 | W104:31.84 | 4   | 233     | 10          | On    |
| 077  |             | 754             | 30 Nov 03 | 1334 | N13:55.15 | W107:44.25 | 4   | 126     | 1           | On    |
| 077  |             | 766             | 2 Dec 03  | 1011 | N15:27.00 | W112:29.64 | 4   | 224     | 6           | On    |
| 077  |             | 771             | 3 Dec 03  | 0802 | N16:30.02 | W114:22.58 | 4   | 233     | 6           | On    |
| 077  |             | 775             | 3 Dec 03  | 1608 | N17:10.08 | W115:32.58 | 4   | 233     | 5           | On    |
| 077  |             | 790             | 7 Dec 03  | 1203 | N26:04.03 | W119:08.77 | 3   | 233     | 25          | Off   |
| 077  |             | 797             | 8 Dec 03  | 1056 | N28:44.26 | W118:17.98 | 5   | 224     | 8           | Off   |
| 077  |             | 1003            | 31 Jul 03 | 1650 | N32:11.14 | W117:08.04 | 3   | 199     | 3           | On    |
| 077  |             | 1007            | 31 Jul 03 | 1917 | N31:56.33 | W116:57.25 | 2   | 233     | 70          | On    |
| 077  |             | 1042            | 4 Aug 03  | 0619 | N25:58.76 | W113:24.01 | 4   | 224     | 8           | On    |
| 077  |             | 1231            | 22 Aug 03 | 0726 | N17:04.54 | W107:25.22 | 3   | 73      | 1           | On    |
| 077  |             | 1253            | 23 Aug 03 | 1741 | N15:52.67 | W111:35.80 | 3   | 233     | 6           | On    |
| 077  |             | 1256            | 24 Aug 03 | 1232 | N15:15.93 | W113:57.07 | 4   | 224     | 4           | On    |
| 077  |             | 1275            | 29 Aug 03 | 1307 | N10:22.86 | W122:19.79 | 4   | 126     | 2           | On    |
| 077  |             | 1311            | 6 Sep 03  | 1428 | N17:01.42 | W100:48.46 | 3   | 73      | 1           | On    |
| 077  |             | 1312            | 6 Sep 03  | 1803 | N16:47.43 | W100:19.38 | 2   | 73      | 1           | On    |
| 077  |             | 1313            | 6 Sep 03  | 1831 | N16:47.72 | W100:10.94 | 2   | 73      | 5           | On    |
| 077  |             | 1321            | 18 Sep 03 | 1105 | N15:52.12 | W098:01.67 | 5   | 99      | 1           | Off   |
| 077  |             | 1340            | 23 Sep 03 | 0745 | N13:26.54 | W094:04.69 | 2   | 126     | 1           | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 077  |             | 1383            | 26 Sep 03 | 1142 | N10:54.94 | W088:38.64 | 3   | 224     | 3           | Off   |
| 077  |             | 1397            | 27 Sep 03 | 1058 | N12:35.16 | W088:40.67 | 2   | 73      | 2           | On    |
| 077  |             | 1403            | 27 Sep 03 | 1436 | N12:38.82 | W088:29.66 | 1   | 233     | 2           | On    |
| 077  |             | 1409            | 27 Sep 03 | 1728 | N12:39.79 | W088:10.08 | 2   | 224     | 5           | On    |
| 077  |             | 1437            | 8 Oct 03  | 1624 | N07:50.93 | W086:30.96 | 5   | 230     | 1           | Off   |
| 077  |             | 1440            | 10 Oct 03 | 1023 | N06:01.97 | W090:10.41 | 4   | 230     | 5           | On    |
| 077  | 002         | 1442            | 10 Oct 03 | 1302 | N06:05.14 | W090:27.68 | 5   | 228     | 32          | On    |
| 077  |             | 1449            | 11 Oct 03 | 1311 | N06:17.20 | W092:41.58 | 4   | 1       | 25          | Off   |
| 077  |             | 1457            | 12 Oct 03 | 1516 | N06:32.22 | W095:30.73 | 4   | 4       | 2           | On    |
| 077  |             | 1459            | 13 Oct 03 | 0654 | N06:22.73 | W096:50.68 | 4   | 1       | 33          | On    |
| 077  |             | 1467            | 16 Oct 03 | 1656 | N05:58.13 | W106:47.35 | 4   | 208     | 1           | On    |
| 077  |             | 1468            | 16 Oct 03 | 1756 | N06:02.20 | W106:56.92 | 4   | 1       | 15          | On    |
| 077  |             | 1472            | 18 Oct 03 | 1557 | N09:29.72 | W105:00.35 | 4   | 7       | 1           | On    |
| 077  |             | 1475            | 19 Oct 03 | 0941 | N11:15.92 | W103:29.05 | 3   | 7       | 53          | Off   |
| 077  |             | 1476            | 19 Oct 03 | 1046 | N11:20.15 | W103:24.67 | 3   | 4       | 8           | Off   |
| 077  |             | 1478            | 19 Oct 03 | 1345 | N11:25.17 | W102:59.00 | 1   | 7       | 70          | On    |
| 077  |             | 1482            | 21 Oct 03 | 0734 | N11:52.01 | W098:40.61 | 3   | 1       | 25          | On    |
| 077  |             | 1498            | 23 Oct 03 | 1247 | N12:49.26 | W093:10.23 | 3   | 228     | 35          | Off   |
| 077  |             | 1499            | 23 Oct 03 | 1549 | N13:02.46 | W092:46.82 | 2   | 208     | 1           | On    |
| 077  |             | 1501            | 23 Oct 03 | 1704 | N13:05.87 | W092:36.13 | 2   | 208     | 15          | Off   |
| 077  |             | 1512            | 28 Oct 03 | 1500 | N13:54.58 | W091:47.96 | 2   | 7       | 1           | On    |
| 077  |             | 1514            | 28 Oct 03 | 1528 | N13:51.49 | W091:52.87 | 1   | 228     | 1           | Off   |
| 077  |             | 1521            | 28 Oct 03 | 1723 | N13:53.01 | W092:01.95 | 1   | 1       | 6           | On    |
| 077  |             | 1522            | 28 Oct 03 | 1735 | N13:52.39 | W092:05.46 | 1   | 208     | 5           | Off   |
| 077  |             | 1538            | 30 Oct 03 | 0636 | N16:04.41 | W094:40.07 | 1   | 208     | 5           | Off   |
| 077  |             | 1547            | 30 Oct 03 | 1425 | N15:42.28 | W095:35.24 | 1   | 228     | 3           | On    |
| 077  |             | 1555            | 31 Oct 03 | 0758 | N14:43.32 | W097:10.49 | 2   | 125     | 10          | On    |
| 077  |             | 1556            | 31 Oct 03 | 0759 | N14:35.77 | W097:08.03 | 2   | 7       | 40          | On    |
| 077  |             | 1561            | 31 Oct 03 | 1330 | N14:42.46 | W097:47.10 | 2   | 1       | 4           | On    |
| 077  |             | 1574            | 2 Nov 03  | 1004 | N14:05.06 | W103:13.36 | 3   | 1       | 25          | On    |
| 077  | 021         | 1576            | 2 Nov 03  | 1513 | N13:35.90 | W103:51.80 | 2   | 7       | 5           | On    |
| 077  |             | 1598            | 7 Nov 03  | 0812 | N06:00.95 | W115:40.02 | 3   | 7       | 140         | Off   |
| 077  | 036         | 1601            | 7 Nov 03  | 1058 | N05:46.46 | W115:58.69 | 3   | 230     | 17          | On    |
| 077  |             | 1611            | 10 Nov 03 | 1545 | N09:09.12 | W117:49.29 | 2   | 4       | 12          | Off   |
| 077  |             | 1612            | 10 Nov 03 | 1613 | N09:06.02 | W117:42.22 | 2   | 208     | 1           | On    |
| 077  |             | 1618            | 12 Nov 03 | 0844 | N11:26.43 | W112:41.73 | 4   | 125     | 35          | Off   |
| 077  |             | 1627            | 13 Nov 03 | 1652 | N13:11.09 | W109:08.18 | 4   | 230     | 15          | On    |
| 077  |             | 1630            | 14 Nov 03 | 1104 | N14:09.57 | W106:56.54 | 3   | 1       | 5           | On    |
| 077  |             | 1633            | 14 Nov 03 | 1436 | N14:25.71 | W106:27.60 | 2   | 208     | 6           | Off   |
| 077  |             | 1638            | 15 Nov 03 | 1332 | N15:44.27 | W103:54.06 | 2   | 125     | 5           | On    |
| 077  |             | 1645            | 16 Nov 03 | 1232 | N16:57.64 | W101:00.91 | 1   | 208     | 1           | Off   |
| 077  |             | 1659            | 17 Nov 03 | 1408 | N17:54.02 | W102:44.79 | 4   | 208     | 6           | On    |
| 077  |             | 1676            | 22 Nov 03 | 1808 | N19:05.19 | W105:33.27 | 5   | 4       | 2           | Off   |
| 077  |             | 1679            | 23 Nov 03 | 0932 | N18:38.14 | W107:25.84 | 4   | 7       | 3           | On    |
| 077  |             | 1683            | 23 Nov 03 | 1215 | N18:33.05 | W107:44.37 | 4   | 1       | 25          | Off   |
| 077  |             | 1684            | 23 Nov 03 | 1659 | N18:26.87 | W108:22.67 | 4   | 228     | 6           | On    |
| 077  |             | 1685            | 23 Nov 03 | 1721 | N18:23.05 | W108:22.80 | 4   | 208     | 1           | On    |
| 077  |             | 1686            | 23 Nov 03 | 1755 | N18:27.44 | W108:33.17 | 4   | 7       | 1           | On    |
| 077  |             | 1692            | 24 Nov 03 | 1809 | N17:47.10 | W111:37.44 | 3   | 208     | 1           | On    |
| 077  |             | 1693            | 25 Nov 03 | 0734 | N17:14.21 | W113:28.69 | 2   | 7       | 1           | On    |
| 077  |             | 1694            | 25 Nov 03 | 1123 | N17:05.75 | W113:59.91 | 4   | 208     | 3           | On    |
| 077  |             | 1696            | 25 Nov 03 | 1154 | N17:07.20 | W114:05.93 | 4   | 208     | 1           | Off   |
| 077  |             | 1698            | 25 Nov 03 | 1531 | N16:59.78 | W114:30.96 | 4   | 7       | 1           | Off   |
| 077  |             | 1699            | 25 Nov 03 | 1659 | N16:56.54 | W114:38.38 | 4   | 208     | 48          | On    |
| 077  |             | 1703            | 27 Nov 03 | 1053 | N15:44.76 | W120:08.28 | 5   | 208     | 2           | On    |
| 077  |             | 1719            | 3 Dec 03  | 1309 | N21:49.55 | W111:54.33 | 4   | 125     | 5           | On    |



Table 2. Marine mammal sightings (continued).

| Code   | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|--|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 077  |             | 1733            | 7 Dec 03  | 1637 | N28:09.17 | W117:47.76 | 2   | 1       | 12          | On    |
| 077  |             | 1736            | 9 Dec 03  | 0814 | N31:18.68 | W117:02.30 | 2   | 1       | 4           | On    |
| unid. small whale                            |             |                 |           |      |           |            |     |         |             |       |
| 078  |             | 13              | 30 Jul 03 | 1216 | N30:29.33 | W117:52.03 | 2   | 230     | 4           | On    |
| 078  |             | 25              | 31 Jul 03 | 1652 | N27:50.02 | W121:13.33 | 1   | 230     | 2           | On    |
| 078  |             | 30              | 1 Aug 03  | 1018 | N26:17.94 | W123:17.11 | 1   | 228     | 1           | On    |
| 078  |             | 37              | 5 Aug 03  | 1210 | N17:54.90 | W127:29.75 | 5   | 208     | 2           | On    |
| 078  |             | 149             | 20 Aug 03 | 1224 | N08:50.35 | W145:17.95 | 1   | 7       | 1           | On    |
| 078  |             | 153             | 20 Aug 03 | 1441 | N08:40.14 | W145:34.44 | 2   | 1       | 1           | On    |
| 078  |             | 161             | 21 Aug 03 | 0731 | N07:34.80 | W147:28.44 | 2   | 98      | 1           | Off   |
| 078  |             | 204             | 11 Sep 03 | 1021 | N09:23.41 | W138:18.75 | 2   | 228     | 1           | On    |
| 078  |             | 250             | 20 Sep 03 | 0709 | N03:05.77 | W115:19.93 | 4   | 230     | 1           | On    |
| 078  |             | 281             | 25 Sep 03 | 0938 | N04:42.51 | W097:26.69 | 4   | 231     | 1           | Off   |
| 078  |             | 1257            | 24 Aug 03 | 1846 | N14:59.77 | W114:50.84 | 4   | 73      | 1           | On    |
| unid. large whale                            |             |                 |           |      |           |            |     |         |             |       |
| 079  |             | 2               | 29 Jul 03 | 1844 | N32:16.10 | W117:18.46 | 0   | 125     | 2           | Off   |
| 079  |             | 39              | 5 Aug 03  | 1616 | N17:18.70 | W127:27.37 | 4   | 1       | 1           | Off   |
| 079  |             | 43              | 6 Aug 03  | 1519 | N14:21.19 | W127:20.13 | 5   | 230     | 1           | Off   |
| 079  |             | 193             | 10 Sep 03 | 0753 | N11:04.72 | W140:42.92 | 5   | 125     | 1           | On    |
| 079  |             | 248             | 19 Sep 03 | 0805 | N02:46.53 | W118:06.77 | 5   | 230     | 1           | On    |
| 079  |             | 273             | 23 Sep 03 | 1820 | N04:17.27 | W103:04.48 | 5   | 208     | 2           | On    |
| 079  |             | 344             | 10 Oct 03 | 0755 | N02:07.63 | W088:28.81 | 5   | 126     | 1           | On    |
| 079  |             | 347             | 10 Oct 03 | 0902 | N02:04.40 | W088:34.79 | 5   | 233     | 1           | Off   |
| 079  |             | 369             | 12 Oct 03 | 0838 | S01:28.85 | W092:17.25 | 4   | 199     | 3           | On    |
| 079  |             | 394             | 15 Oct 03 | 0813 | S06:37.00 | W100:13.44 | 5   | 73      | 1           | On    |
| 079  |             | 437             | 26 Oct 03 | 1530 | S12:23.08 | W078:01.59 | 5   | 73      | 1           | On    |
| 079  |             | 589             | 20 Nov 03 | 1513 | N07:21.38 | W081:58.52 | 4   | 199     | 1           | Off   |
| 079  |             | 592             | 20 Nov 03 | 1719 | N07:29.61 | W082:05.06 | 3   | 224     | 1           | On    |
| 079  |             | 1005            | 31 Jul 03 | 1719 | N32:08.15 | W117:01.57 | 2   | 224     | 1           | Off   |
| 079  |             | 1032            | 3 Aug 03  | 0924 | N26:44.31 | W115:06.58 | 5   | 73      | 1           | On    |
| 079  |             | 1050            | 5 Aug 03  | 1714 | N24:30.98 | W115:03.35 | 4   | 126     | 1           | On    |
| 079  |             | 1280            | 30 Aug 03 | 1327 | N11:25.14 | W119:24.28 | 3   | 233     | 1           | On    |
| 079  |             | 1688            | 24 Nov 03 | 0824 | N17:55.55 | W110:18.52 | 4   | 7       | 1           | Off   |
| 079  |             | 1717            | 3 Dec 03  | 0747 | N21:06.90 | W111:40.02 | 5   | 1       | 1           | On    |
| <i>Kogia</i> sp.                             |             |                 |           |      |           |            |     |         |             |       |
| 080  |             | 1305            | 6 Sep 03  | 1139 | N17:07.87 | W101:02.59 | 2   | 199     | 3           | On    |
| 080  |             | 1642            | 16 Nov 03 | 1047 | N16:52.82 | W101:19.40 | 2   | 4       | 1           | Off   |
| <i>Mesoplodon</i> sp. A                      |             |                 |           |      |           |            |     |         |             |       |
| 083  |             | 1192            | 15 Aug 03 | 1724 | N20:59.16 | W108:13.77 | 1   | 200     | 3           | On    |
| 083  |             | 1237            | 22 Aug 03 | 1444 | N16:50.42 | W108:12.98 | 2   | 200     | 3           | On    |
| 083  |             | 1347            | 23 Sep 03 | 1312 | N13:31.08 | W093:13.74 | 3   | 233     | 3           | On    |
| 083  |             | 1577            | 2 Nov 03  | 1613 | N13:30.97 | W103:58.02 | 2   | 7       | 2           | On    |
| <i>Stenella longirostris centroamericana</i> |             |                 |           |      |           |            |     |         |             |       |
| 088  |             | 1365            | 24 Sep 03 | 1736 | N13:08.84 | W090:21.62 | 3   | 126     | 1617        | On    |
| 088  |             | 1401            | 27 Sep 03 | 1322 | N12:35.35 | W088:31.89 | 2   | 224     | 357         | On    |
| <i>Stenella attenuata</i> (unid. subsp.)     |             |                 |           |      |           |            |     |         |             |       |
| 090  |             | 578             | 20 Nov 03 | 0810 | N07:18.88 | W081:10.45 | 3   | 233     | 1           | On    |
| 090  |             | 1202            | 16 Aug 03 | 1511 | N19:58.39 | W105:41.61 | 4   | 224     | 140         | On    |
| 090  |             | 1203            | 16 Aug 03 | 1627 | N19:51.87 | W105:37.63 | 4   | 224     | 448         | On    |
| 090 003                                      |             | 1215            | 21 Aug 03 | 0955 | N17:39.32 | W105:13.37 | 1   | 224     | 201         | On    |

Table 2. Marine mammal sightings (continued).

| Code                               | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 090                                |             | 1319            | 18 Sep 03 | 0756 | N16:05.19 | W098:13.94 | 3   | 200     | 19          | On    |
| 090                                |             | 1393            | 27 Sep 03 | 0652 | N12:39.24 | W089:09.92 | 2   | 199     | 37          | On    |
| 090                                | 018         | 1414            | 28 Sep 03 | 1202 | N11:43.78 | W087:09.33 | 3   | 126     | 42          | On    |
| 090                                | 010         | 1487            | 21 Oct 03 | 1045 | N11:43.58 | W098:23.18 | 4   | 1       | 35          | Off   |
| 090                                |             | 1502            | 28 Oct 03 | 0817 | N13:48.47 | W090:48.33 | 1   | 125     | 4           | On    |
| 090                                | 018         | 1529            | 29 Oct 03 | 1005 | N15:05.49 | W093:29.22 | 1   | 208     | 6           | On    |
| 090                                | 006         | 1531            | 29 Oct 03 | 1226 | N15:06.96 | W093:43.12 | 3   | 230     | 81          | On    |
| 090                                |             | 1655            | 17 Nov 03 | 0943 | N17:39.33 | W102:15.81 | 2   | 228     | 47          | On    |
| 090                                |             | 1656            | 17 Nov 03 | 1008 | N17:40.44 | W102:17.35 | 2   | 7       | 55          | On    |
| 090                                |             | 1657            | 17 Nov 03 | 1020 | N17:40.94 | W102:20.31 | 4   | 208     | 127         | On    |
| 090                                |             | 1660            | 22 Nov 03 | 0947 | N19:03.85 | W104:23.34 | 4   | 231     | 11          | Off   |
| 090                                |             | 1661            | 22 Nov 03 | 1012 | N19:03.78 | W104:27.77 | 4   | 231     | 20          | Off   |
| 090                                |             | 1662            | 22 Nov 03 | 1020 | N19:03.92 | W104:28.99 | 2   | 228     | 5           | On    |
| 090                                |             | 1663            | 22 Nov 03 | 1023 | N19:03.50 | W104:31.92 | 2   | 1       | 24          | On    |
| 090                                |             | 1664            | 22 Nov 03 | 1052 | N19:03.14 | W104:33.89 | 2   | 125     | 9           | On    |
| 090                                |             | 1665            | 22 Nov 03 | 1104 | N19:03.73 | W104:37.61 | 2   | 125     | 32          | On    |
| 090                                |             | 1666            | 22 Nov 03 | 1105 | N19:05.31 | W104:37.94 | 2   | 208     | 5           | Off   |
| 090                                |             | 1667            | 22 Nov 03 | 1123 | N19:04.23 | W104:39.04 | 2   | 230     | 5           | On    |
| 090                                |             | 1668            | 22 Nov 03 | 1129 | N19:04.32 | W104:40.66 | 2   | 230     | 5           | On    |
| 090                                |             | 1669            | 22 Nov 03 | 1131 | N19:05.44 | W104:40.17 | 2   | 1       | 4           | On    |
| 090                                |             | 1670            | 22 Nov 03 | 1136 | N19:05.51 | W104:40.75 | 2   | 125     | 12          | On    |
| 090                                |             | 1671            | 22 Nov 03 | 1137 | N19:05.20 | W104:40.84 | 2   | 230     | 2           | On    |
| 090                                |             | 1672            | 22 Nov 03 | 1143 | N19:06.37 | W104:43.88 | 2   | 230     | 8           | On    |
| 090                                |             | 1673            | 22 Nov 03 | 1204 | N19:08.02 | W104:46.20 | 2   | 7       | 15          | On    |
| unid. cetacean                     |             |                 |           |      |           |            |     |         |             |       |
| 096                                |             | 260             | 21 Sep 03 | 0659 | N03:18.01 | W112:07.72 | 4   | 7       | 3           | On    |
| 096                                |             | 309             | 28 Sep 03 | 0957 | N08:05.60 | W089:26.99 | 5   | 230     | 7           | On    |
| 096                                |             | 523             | 12 Nov 03 | 1519 | N06:15.30 | W082:40.00 | 3   | 233     | 2           | On    |
| 096                                |             | 675             | 24 Nov 03 | 1503 | N09:52.03 | W090:51.75 | 1   | 233     | 2           | Off   |
| 096                                |             | 1093            | 9 Aug 03  | 1202 | N21:41.22 | W110:08.85 | 1   | 92      | 1           | On    |
| 096                                |             | 1229            | 21 Aug 03 | 1823 | N17:25.99 | W106:00.61 | 1   | 126     | 1           | Off   |
| 096                                |             | 1273            | 28 Aug 03 | 1957 | N09:47.49 | W124:18.55 | 4   | 224     | 1           | On    |
| 096                                |             | 1304            | 6 Sep 03  | 1108 | N17:09.65 | W101:04.13 | 2   | 200     | 3           | On    |
| 096                                | 002 010     | 1326            | 20 Sep 03 | 0732 | N13:23.10 | W101:25.95 | 2   | 73      | 133         | On    |
| 096                                |             | 1546            | 30 Oct 03 | 1347 | N15:40.64 | W095:33.77 | 1   | 208     | 1           | Off   |
| 096                                |             | 1650            | 16 Nov 03 | 1637 | N17:10.31 | W101:15.09 | 3   | 125     | 3           | On    |
| unid. whale                        |             |                 |           |      |           |            |     |         |             |       |
| 098                                |             | 167             | 21 Aug 03 | 1534 | N06:57.15 | W148:25.00 | 4   | 7       | 1           | On    |
| 098                                |             | 232             | 13 Sep 03 | 1811 | N04:55.08 | W131:04.85 | 4   | 125     | 3           | On    |
| 098                                |             | 411             | 20 Oct 03 | 1659 | S08:34.82 | W090:45.25 | 4   | 233     | 1           | On    |
| 098                                |             | 413             | 21 Oct 03 | 0702 | S08:46.64 | W089:15.37 | 4   | 233     | 1           | On    |
| 098                                |             | 462             | 3 Nov 03  | 0706 | S09:24.79 | W079:37.36 | 3   | 184     | 1           | Off   |
| 098                                |             | 1621            | 12 Nov 03 | 1525 | N11:51.81 | W111:51.62 | 4   | 125     | 1           | On    |
| <i>Balaenoptera borealis/edeni</i> |             |                 |           |      |           |            |     |         |             |       |
| 099                                |             | 48              | 8 Aug 03  | 1508 | N07:53.41 | W126:45.37 | 4   | 230     | 2           | On    |
| 099                                |             | 102             | 15 Aug 03 | 0948 | N10:22.23 | W136:53.83 | 2   | 7       | 1           | On    |
| 099                                |             | 117             | 17 Aug 03 | 0742 | N04:38.16 | W138:05.41 | 5   | 7       | 1           | On    |
| 099                                |             | 118             | 17 Aug 03 | 0851 | N04:33.50 | W138:05.33 | 5   | 125     | 1           | On    |
| 099                                |             | 252             | 20 Sep 03 | 0936 | N03:01.45 | W115:04.60 | 5   | 208     | 1           | On    |
| 099                                |             | 261             | 21 Sep 03 | 0732 | N03:20.14 | W112:01.61 | 4   | 208     | 3           | On    |
| 099                                |             | 337             | 9 Oct 03  | 1243 | N03:32.99 | W086:43.02 | 4   | 233     | 1           | On    |
| 099                                |             | 348             | 10 Oct 03 | 0907 | N02:05.25 | W088:30.18 | 5   | 73      | 1           | Off   |
| 099                                |             | 380             | 13 Oct 03 | 1014 | S02:54.71 | W095:15.89 | 3   | 224     | 2           | On    |

Table 2. Marine mammal sightings (continued).

| Code  | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|---|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 099   |             | 427             | 22 Oct 03 | 1612 | S12:28.94 | W088:02.98 | 4   | 199     | 1           | Off   |
| 099   |             | 451             | 2 Nov 03  | 0819 | S09:56.13 | W078:49.88 | 4   | 233     | 1           | On    |
| 099   |             | 455             | 2 Nov 03  | 1350 | S09:36.74 | W078:32.87 | 2   | 126     | 1           | On    |
| 099   |             | 457             | 2 Nov 03  | 1807 | S09:24.88 | W078:44.40 | 3   | 126     | 1           | Off   |
| 099   |             | 458             | 3 Nov 03  | 0605 | S09:30.02 | W079:40.87 | 3   | 126     | 1           | On    |
| 099   |             | 466             | 3 Nov 03  | 1025 | S09:01.36 | W079:20.22 | 3   | 126     | 1           | On    |
| 099   |             | 467             | 3 Nov 03  | 1145 | S09:00.73 | W079:18.55 | 3   | 73      | 2           | Off   |
| 099   | 076         | 510             | 8 Nov 03  | 1359 | N00:24.03 | W080:13.69 | 4   | 73      | 3           | On    |
| 099   |             | 590             | 20 Nov 03 | 1531 | N07:19.20 | W081:58.92 | 4   | 84      | 1           | Off   |
| 099   |             | 701             | 25 Nov 03 | 1418 | N09:06.24 | W093:09.66 | 2   | 233     | 1           | Off   |
| 099   |             | 1090            | 9 Aug 03  | 1035 | N21:49.85 | W110:15.27 | 1   | 199     | 1           | On    |
| 099   |             | 1091            | 9 Aug 03  | 1048 | N21:46.57 | W110:15.58 | 1   | 126     | 1           | On    |
| 099   |             | 1098            | 9 Aug 03  | 1301 | N21:39.82 | W110:04.76 | 1   | 73      | 1           | On    |
| 099   |             | 1160            | 12 Aug 03 | 1932 | N25:15.74 | W109:07.51 | 4   | 200     | 2           | On    |
| 099   |             | 1270            | 28 Aug 03 | 1107 | N10:42.63 | W124:08.16 | 4   | 126     | 2           | On    |
| 099   |             | 1272            | 28 Aug 03 | 1716 | N09:58.02 | W124:16.11 | 4   | 73      | 3           | On    |
| 099   |             | 1445            | 11 Oct 03 | 0808 | N06:11.53 | W092:22.61 | 4   | 1       | 1           | On    |
| 099   |             | 1500            | 23 Oct 03 | 1649 | N13:03.99 | W092:38.38 | 2   | 208     | 2           | On    |
| 099   |             | 1517            | 28 Oct 03 | 1618 | N13:50.94 | W091:55.65 | 2   | 1       | 1           | On    |
| 099   |             | 1535            | 29 Oct 03 | 1703 | N15:10.75 | W094:15.70 | 0   | 7       | 2           | On    |
| 099   |             | 1606            | 9 Nov 03  | 1323 | N07:26.95 | W120:59.67 | 4   | 229     | 1           | Off   |
| 099   |             | 1674            | 22 Nov 03 | 1638 | N19:01.67 | W105:28.07 | 5   | 7       | 2           | On    |
| 099   |             | 1687            | 24 Nov 03 | 0823 | N17:56.13 | W110:16.18 | 4   | 228     | 1           | On    |
| 099   |             | 1704            | 28 Nov 03 | 1720 | N17:49.84 | W121:46.49 | 5   | 208     | 1           | On    |
| <i>Stenella longirostris</i> (Tres Marias)  |             |                 |           |      |           |            |     |         |             |       |
| 100   |             | 1170            | 13 Aug 03 | 1609 | N23:37.98 | W107:23.88 | 3   | 126     | 310         | On    |
| 100   |             | 1172            | 14 Aug 03 | 0643 | N22:13.97 | W106:21.63 | 3   | 199     | 790         | Off   |
| 100   |             | 1178            | 14 Aug 03 | 1302 | N21:29.95 | W106:01.93 | 2   | 233     | 344         | On    |
| <i>Stenella longirostris</i> (southwestern) |             |                 |           |      |           |            |     |         |             |       |
| 101   |             | 152             | 20 Aug 03 | 1339 | N08:49.56 | W145:29.35 | 1   | 7       | 63          | On    |
| 101   |             | 157             | 20 Aug 03 | 1757 | N08:22.80 | W146:02.98 | 1   | 208     | 25          | On    |
| 101   |             | 191             | 9 Sep 03  | 1715 | N11:55.89 | W142:07.46 | 4   | 125     | 167         | On    |
| 101   |             | 194             | 10 Sep 03 | 1022 | N10:48.38 | W140:25.86 | 5   | 7       | 97          | On    |
| 101   |             | 195             | 10 Sep 03 | 1058 | N10:47.40 | W140:26.65 | 5   | 228     | 29          | On    |
| 101   | 002         | 196             | 10 Sep 03 | 1253 | N10:40.23 | W140:11.59 | 5   | 7       | 257         | On    |
| 101   | 002         | 213             | 11 Sep 03 | 1423 | N09:19.52 | W137:49.20 | 1   | 228     | 268         | On    |
| 101   | 002         | 390             | 14 Oct 03 | 1232 | S05:05.02 | W097:58.41 | 4   | 73      | 422         | On    |
| 101   | 002         | 1443            | 10 Oct 03 | 1644 | N06:06.43 | W090:49.44 | 4   | 228     | 56          | On    |
| 101   | 002         | 1609            | 10 Nov 03 | 0811 | N08:41.87 | W118:34.98 | 3   | 208     | 210         | On    |
| unid. small delphinid                       |             |                 |           |      |           |            |     |         |             |       |
| 177   |             | 361             | 11 Oct 03 | 1018 | N00:11.94 | W090:45.46 | 4   | 224     | 10          | On    |
| 177   |             | 398             | 16 Oct 03 | 1139 | S09:19.56 | W103:42.71 | 5   | 224     | 12          | On    |
| 177   |             | 469             | 3 Nov 03  | 1717 | S08:35.89 | W079:12.36 | 4   | 224     | 40          | On    |
| 177   |             | 499             | 6 Nov 03  | 1631 | S03:21.72 | W080:30.74 | 4   | 224     | 20          | On    |
| 177   |             | 522             | 12 Nov 03 | 1052 | N05:39.88 | W082:56.28 | 4   | 34      | 1           | On    |
| 177   |             | 538             | 13 Nov 03 | 1245 | N06:19.85 | W080:12.08 | 2   | 126     | 3           | On    |
| 177   |             | 539             | 13 Nov 03 | 1338 | N06:29.05 | W080:07.65 | 2   | 73      | 50          | On    |
| 177   |             | 547             | 14 Nov 03 | 1105 | N07:23.48 | W078:27.39 | 3   | 126     | 4           | On    |
| 177   |             | 558             | 19 Nov 03 | 1217 | N08:39.78 | W079:31.16 | 1   | 199     | 8           | On    |
| 177   |             | 560             | 19 Nov 03 | 1248 | N08:36.53 | W079:28.72 | 0   | 233     | 1           | On    |
| 177   |             | 571             | 20 Nov 03 | 0708 | N07:10.58 | W081:02.65 | 2   | 233     | 6           | On    |
| 177   |             | 573             | 20 Nov 03 | 0712 | N07:18.05 | W081:03.44 | 2   | 126     | 1           | On    |
| 177   |             | 591             | 20 Nov 03 | 1642 | N07:20.81 | W082:05.21 | 3   | 233     | 4           | On    |

Table 2. Marine mammal sightings (continued).

| Code | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 177  |             | 603             | 21 Nov 03 | 1442 | N08:51.16 | W084:04.21 | 3   | 233     | 2           | On    |
| 177  |             | 608             | 22 Nov 03 | 0643 | N08:46.93 | W085:39.32 | 2   | 199     | 3           | On    |
| 177  |             | 615             | 22 Nov 03 | 1403 | N08:31.28 | W086:11.34 | 3   | 126     | 4           | On    |
| 177  |             | 629             | 23 Nov 03 | 0947 | N08:43.35 | W088:04.63 | 3   | 233     | 150         | On    |
| 177  |             | 635             | 23 Nov 03 | 1252 | N09:00.33 | W088:11.03 | 1   | 224     | 16          | On    |
| 177  |             | 637             | 23 Nov 03 | 1317 | N09:02.67 | W088:09.86 | 1   | 224     | 85          | On    |
| 177  |             | 643             | 23 Nov 03 | 1423 | N09:02.73 | W088:19.76 | 2   | 73      | 10          | Off   |
| 177  |             | 645             | 23 Nov 03 | 1524 | N09:01.65 | W088:22.15 | 2   | 224     | 75          | Off   |
| 177  |             | 654             | 24 Nov 03 | 0939 | N09:39.44 | W090:23.53 | 0   | 199     | 2           | On    |
| 177  |             | 667             | 24 Nov 03 | 1221 | N09:51.92 | W090:39.63 | 0   | 224     | 80          | On    |
| 177  |             | 671             | 24 Nov 03 | 1413 | N09:55.60 | W090:48.55 | 1   | 233     | 40          | On    |
| 177  |             | 672             | 24 Nov 03 | 1430 | N09:49.61 | W090:55.02 | 1   | 199     | 15          | On    |
| 177  |             | 673             | 24 Nov 03 | 1430 | N09:53.47 | W090:54.27 | 1   | 233     | 6           | On    |
| 177  |             | 680             | 24 Nov 03 | 1647 | N09:59.26 | W091:06.05 | 1   | 126     | 1           | On    |
| 177  |             | 684             | 24 Nov 03 | 1824 | N09:52.62 | W091:19.15 | 2   | 73      | 3           | Off   |
| 177  |             | 698             | 25 Nov 03 | 1325 | N09:06.25 | W093:07.83 | 2   | 73      | 12          | On    |
| 177  |             | 703             | 25 Nov 03 | 1506 | N09:09.29 | W093:15.55 | 2   | 73      | 15          | On    |
| 177  |             | 707             | 25 Nov 03 | 1647 | N09:08.94 | W093:27.06 | 3   | 126     | 2           | On    |
| 177  | 002         | 710             | 26 Nov 03 | 0629 | N08:27.45 | W095:01.92 | 2   | 199     | 183         | On    |
| 177  |             | 711             | 26 Nov 03 | 0630 | N08:28.35 | W095:06.09 | 2   | 224     | 7           | On    |
| 177  |             | 733             | 27 Nov 03 | 1430 | N09:12.66 | W098:36.42 | 2   | 224     | 45          | On    |
| 177  | 010         | 745             | 29 Nov 03 | 0949 | N11:01.91 | W104:25.80 | 4   | 126     | 60          | On    |
| 177  |             | 749             | 29 Nov 03 | 1114 | N11:11.30 | W104:38.75 | 4   | 200     | 15          | On    |
| 177  |             | 750             | 29 Nov 03 | 1141 | N11:20.48 | W104:35.62 | 4   | 73      | 30          | On    |
| 177  |             | 751             | 29 Nov 03 | 1222 | N11:19.58 | W104:44.11 | 4   | 126     | 4           | On    |
| 177  | 010         | 763             | 1 Dec 03  | 1740 | N14:19.16 | W110:37.50 | 4   | 73      | 40          | On    |
| 177  |             | 770             | 2 Dec 03  | 1655 | N15:40.44 | W112:54.24 | 4   | 73      | 5           | On    |
| 177  |             | 783             | 6 Dec 03  | 1321 | N23:37.30 | W119:34.29 | 2   | 233     | 6           | On    |
| 177  |             | 787             | 7 Dec 03  | 0800 | N25:36.28 | W119:14.84 | 1   | 73      | 15          | Off   |
| 177  |             | 794             | 7 Dec 03  | 1740 | N26:42.67 | W118:59.92 | 3   | 199     | 13          | On    |
| 177  |             | 798             | 8 Dec 03  | 1440 | N29:12.67 | W118:12.40 | 5   | 84      | 14          | Off   |
| 177  |             | 1053            | 7 Aug 03  | 0659 | N23:46.48 | W112:52.75 | 3   | 199     | 10          | On    |
| 177  |             | 1058            | 7 Aug 03  | 1456 | N24:03.43 | W112:16.10 | 4   | 199     | 5           | On    |
| 177  |             | 1068            | 8 Aug 03  | 1327 | N22:44.95 | W110:57.68 | 2   | 73      | 40          | On    |
| 177  |             | 1069            | 8 Aug 03  | 1431 | N22:38.79 | W111:08.46 | 1   | 73      | 85          | Off   |
| 177  |             | 1083            | 8 Aug 03  | 1915 | N22:21.66 | W111:20.58 | 2   | 73      | 1           | On    |
| 177  |             | 1094            | 9 Aug 03  | 1212 | N21:37.85 | W110:07.27 | 1   | 126     | 4           | On    |
| 177  |             | 1110            | 9 Aug 03  | 1940 | N22:09.98 | W109:41.83 | 2   | 199     | 10          | On    |
| 177  |             | 1118            | 10 Aug 03 | 1228 | N23:41.81 | W109:02.03 | 3   | 224     | 4           | On    |
| 177  |             | 1179            | 14 Aug 03 | 1652 | N21:35.26 | W106:22.18 | 3   | 126     | 2           | On    |
| 177  |             | 1191            | 15 Aug 03 | 1528 | N21:13.29 | W108:09.11 | 2   | 99      | 2           | Off   |
| 177  |             | 1214            | 21 Aug 03 | 0900 | N17:43.26 | W105:03.06 | 1   | 99      | 1           | Off   |
| 177  |             | 1219            | 21 Aug 03 | 1235 | N17:40.41 | W105:29.44 | 1   | 73      | 1           | On    |
| 177  |             | 1227            | 21 Aug 03 | 1709 | N17:31.90 | W106:00.88 | 0   | 73      | 10          | Off   |
| 177  |             | 1233            | 22 Aug 03 | 0826 | N17:06.63 | W107:28.68 | 3   | 200     | 8           | On    |
| 177  |             | 1245            | 23 Aug 03 | 1155 | N16:09.85 | W110:54.94 | 3   | 73      | 400         | On    |
| 177  |             | 1247            | 23 Aug 03 | 1301 | N15:59.75 | W111:01.01 | 3   | 224     | 8           | On    |
| 177  |             | 1251            | 23 Aug 03 | 1633 | N15:52.96 | W111:32.02 | 3   | 126     | 1           | On    |
| 177  |             | 1296            | 4 Sep 03  | 0715 | N16:05.50 | W106:10.24 | 4   | 200     | 18          | On    |
| 177  |             | 1367            | 25 Sep 03 | 1305 | N11:55.45 | W089:41.66 | 3   | 126     | 5           | On    |
| 177  |             | 1372            | 26 Sep 03 | 0646 | N10:17.16 | W088:41.88 | 3   | 233     | 80          | Off   |
| 177  |             | 1373            | 26 Sep 03 | 0724 | N10:21.19 | W088:34.80 | 3   | 73      | 30          | On    |
| 177  |             | 1380            | 26 Sep 03 | 1048 | N10:50.19 | W088:32.59 | 3   | 233     | 2           | On    |
| 177  |             | 1381            | 26 Sep 03 | 1053 | N10:51.36 | W088:37.50 | 3   | 200     | 2           | On    |
| 177  |             | 1387            | 26 Sep 03 | 1632 | N11:15.76 | W088:39.14 | 1   | 126     | 11          | On    |
| 177  |             | 1390            | 26 Sep 03 | 1732 | N11:17.97 | W088:30.14 | 1   | 126     | 12          | On    |

Table 2. Marine mammal sightings (continued).

| Code                           | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Efort |
|--------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|-------|
| 177                            |             | 1398            | 27 Sep 03 | 1127 | N12:38.78 | W088:38.90 | 2   | 126     | 9           | On    |
| 177                            |             | 1406            | 27 Sep 03 | 1536 | N12:41.91 | W088:20.92 | 1   | 126     | 6           | Off   |
| unid. medium delphinid         |             |                 |           |      |           |            |     |         |             |       |
| 277                            | 021         | 334             | 9 Oct 03  | 0627 | N04:07.33 | W085:55.42 | 5   | 224     | 5           | On    |
| 277                            |             | 389             | 14 Oct 03 | 1206 | S05:02.73 | W097:54.56 | 4   | 200     | 7           | On    |
| 277                            | 018         | 417             | 21 Oct 03 | 1318 | S09:12.77 | W088:57.77 | 4   | 99      | 6           | Off   |
| 277                            |             | 425             | 22 Oct 03 | 1315 | S12:03.77 | W088:04.65 | 5   | 73      | 7           | On    |
| 277                            |             | 435             | 25 Oct 03 | 1638 | S13:29.17 | W081:08.31 | 5   | 73      | 5           | On    |
| 277                            |             | 460             | 3 Nov 03  | 0648 | S09:30.04 | W079:35.82 | 3   | 126     | 1           | On    |
| 277                            |             | 472             | 4 Nov 03  | 0852 | S07:52.56 | W080:12.76 | 4   | 200     | 1           | On    |
| 277                            |             | 487             | 5 Nov 03  | 1149 | S05:59.81 | W081:12.14 | 4   | 73      | 5           | On    |
| 277                            |             | 490             | 6 Nov 03  | 0631 | S03:49.98 | W081:21.88 | 5   | 233     | 3           | On    |
| 277                            |             | 665             | 24 Nov 03 | 1131 | N09:46.44 | W090:33.92 | 0   | 200     | 5           | On    |
| 277                            |             | 1117            | 10 Aug 03 | 1215 | N23:38.57 | W109:01.90 | 3   | 227     | 6           | Off   |
| 277                            |             | 1144            | 11 Aug 03 | 1545 | N26:27.79 | W111:00.69 | 2   | 73      | 19          | On    |
| 277                            |             | 1147            | 11 Aug 03 | 1720 | N26:34.25 | W111:11.54 | 2   | 199     | 20          | On    |
| 277                            |             | 1177            | 14 Aug 03 | 1100 | N21:47.63 | W106:06.04 | 3   | 199     | 10          | On    |
| 277                            |             | 1184            | 15 Aug 03 | 0839 | N21:45.52 | W107:49.80 | 2   | 73      | 3           | Off   |
| 277                            |             | 1201            | 16 Aug 03 | 1458 | N19:55.34 | W105:46.63 | 4   | 199     | 5           | On    |
| 277                            |             | 1209            | 20 Aug 03 | 1649 | N18:19.88 | W103:40.49 | 4   | 199     | 8           | On    |
| 277                            |             | 1264            | 26 Aug 03 | 1928 | N13:18.48 | W120:56.16 | 2   | 233     | 2           | On    |
| 277                            |             | 1334            | 22 Sep 03 | 1109 | N13:27.99 | W096:33.88 | 4   | 199     | 15          | On    |
| 277                            |             | 1350            | 24 Sep 03 | 0829 | N13:42.93 | W090:51.24 | 4   | 233     | 15          | On    |
| 277                            |             | 1354            | 24 Sep 03 | 1136 | N13:32.28 | W090:44.51 | 3   | 224     | 1           | On    |
| 277                            |             | 1358            | 24 Sep 03 | 1305 | N13:23.55 | W090:39.31 | 4   | 73      | 1           | On    |
| 277                            |             | 1369            | 25 Sep 03 | 1659 | N11:23.28 | W089:44.42 | 3   | 200     | 3           | Off   |
| 277                            |             | 1416            | 28 Sep 03 | 1339 | N11:41.29 | W086:58.46 | 3   | 200     | 7           | On    |
| 277                            | 018         | 1421            | 28 Sep 03 | 1825 | N11:29.10 | W086:22.79 | 3   | 199     | 2           | On    |
| 277                            |             | 1432            | 29 Sep 03 | 1334 | N09:46.79 | W085:37.69 | 4   | 199     | 1           | On    |
| 277                            |             | 1433            | 29 Sep 03 | 1442 | N09:43.04 | W085:29.38 | 4   | 199     | 2           | Off   |
| unid. large delphinid          |             |                 |           |      |           |            |     |         |             |       |
| 377                            |             | 33              | 4 Aug 03  | 1704 | N19:18.95 | W125:48.20 | 5   | 208     | 2           | On    |
| 377                            | 021         | 160             | 20 Aug 03 | 1904 | N08:16.05 | W146:10.10 | 1   | 1       | 10          | Off   |
| 377                            |             | 1258            | 25 Aug 03 | 1651 | N14:13.50 | W117:35.96 | 4   | 73      | 1           | On    |
| 377                            |             | 1460            | 13 Oct 03 | 0707 | N06:23.15 | W096:51.01 | 4   | 208     | 1           | Off   |
| 377                            |             | 1591            | 5 Nov 03  | 1630 | N08:49.13 | W111:25.59 | 4   | 208     | 3           | On    |
| <i>Arctocephalus townsendi</i> |             |                 |           |      |           |            |     |         |             |       |
| AT                             |             | 1805            | 3 Aug 03  | 1229 | N26:51.13 | W114:44.50 | 5   | 199     | 1           | Off   |
| AT                             |             | 1808            | 7 Aug 03  | 1148 | N23:57.36 | W112:27.68 | 2   | 126     | 1           | On    |
| AT                             |             | 1809            | 7 Aug 03  | 1221 | N23:58.31 | W112:21.75 | 2   | 199     | 4           | On    |
| AT                             |             | 1810            | 7 Aug 03  | 1222 | N23:59.80 | W112:20.62 | 2   | 199     | 2           | On    |
| AT                             |             | 1811            | 7 Aug 03  | 1223 | N24:00.47 | W112:22.38 | 2   | 224     | 2           | On    |
| AT                             |             | 1812            | 7 Aug 03  | 1228 | N23:59.68 | W112:21.28 | 2   | 224     | 4           | On    |
| AT                             |             | 1813            | 8 Aug 03  | 1536 | N22:36.29 | W111:13.90 | 1   | 200     | 1           | On    |
| AT                             |             | 1814            | 8 Aug 03  | 1833 | N22:27.18 | W111:24.69 | 2   | 233     | 1           | On    |
| <i>Mirounga angustirostris</i> |             |                 |           |      |           |            |     |         |             |       |
| MA                             |             | 901             | 30 Jul 03 | 1014 | N30:38.56 | W117:38.33 | 2   | 7       | 1           | On    |
| <i>Otaria byronia</i>          |             |                 |           |      |           |            |     |         |             |       |
| OB                             |             | 902             | 26 Oct 03 | 1518 | S12:22.48 | W078:05.45 | 5   | 227     | 1           | On    |
| OB                             |             | 903             | 26 Oct 03 | 1705 | S12:16.87 | W077:50.33 | 4   | 98      | 1           | Off   |
| OB                             |             | 904             | 31 Oct 03 | 1413 | S11:51.47 | W077:26.87 | 2   | 200     | 1           | On    |

Table 2. Marine mammal sightings (continued).

| Code                          | Other Codes | Sighting Number | Date      | Time | Latitude  | Longitude  | Bft | Obs No. | School Size | Effort |
|-------------------------------|-------------|-----------------|-----------|------|-----------|------------|-----|---------|-------------|--------|
| OB                            |             | 905             | 31 Oct 03 | 1431 | S11:49.30 | W077:28.49 | 3   | 73      | 1           | On     |
| OB                            |             | 906             | 31 Oct 03 | 1443 | S11:47.93 | W077:30.23 | 3   | 73      | 1           | On     |
| OB                            |             | 907             | 31 Oct 03 | 1446 | S11:48.26 | W077:31.06 | 3   | 224     | 1           | On     |
| OB                            |             | 908             | 31 Oct 03 | 1450 | S11:46.98 | W077:31.48 | 3   | 73      | 3           | On     |
| OB                            |             | 909             | 31 Oct 03 | 1452 | S11:47.52 | W077:31.47 | 3   | 200     | 1           | On     |
| OB                            |             | 910             | 31 Oct 03 | 1511 | S11:45.65 | W077:34.17 | 3   | 73      | 1           | On     |
| OB                            |             | 911             | 1 Nov 03  | 0554 | S11:09.01 | W078:26.15 | 2   | 73      | 1           | On     |
| OB                            |             | 912             | 1 Nov 03  | 0832 | S10:47.61 | W078:13.68 | 3   | 73      | 1           | On     |
| OB                            |             | 913             | 1 Nov 03  | 0834 | S10:47.14 | W078:12.93 | 3   | 73      | 1           | On     |
| OB                            |             | 914             | 1 Nov 03  | 0855 | S10:44.33 | W078:10.37 | 2   | 233     | 1           | On     |
| OB                            |             | 915             | 1 Nov 03  | 0927 | S10:40.03 | W078:07.17 | 2   | 34      | 1           | On     |
| OB                            |             | 916             | 1 Nov 03  | 1420 | S10:28.47 | W078:18.79 | 2   | 126     | 1           | On     |
| OB                            |             | 917             | 1 Nov 03  | 1448 | S10:26.24 | W078:22.71 | 2   | 34      | 1           | On     |
| OB                            |             | 918             | 1 Nov 03  | 1503 | S10:26.48 | W078:24.91 | 3   | 126     | 1           | On     |
| OB                            |             | 919             | 1 Nov 03  | 1515 | S10:26.14 | W078:27.27 | 3   | 199     | 3           | On     |
| OB                            |             | 920             | 3 Nov 03  | 0933 | S09:06.59 | W079:25.81 | 4   | 126     | 1           | On     |
| OB                            |             | 921             | 3 Nov 03  | 1007 | S09:04.41 | W079:21.17 | 4   | 73      | 1           | Off    |
| OB                            |             | 922             | 4 Nov 03  | 1126 | S07:37.21 | W080:03.08 | 3   | 233     | 1           | On     |
| OB                            |             | 923             | 4 Nov 03  | 1302 | S07:28.27 | W079:57.09 | 3   | 73      | 1           | Off    |
| OB                            |             | 924             | 5 Nov 03  | 0756 | S06:21.80 | W081:07.74 | 2   | 73      | 1           | Off    |
| OB                            |             | 925             | 5 Nov 03  | 0829 | S06:20.57 | W081:08.34 | 2   | 200     | 2           | Off    |
| OB                            |             | 926             | 5 Nov 03  | 0851 | S06:17.59 | W081:10.56 | 2   | 126     | 1           | On     |
| OB                            |             | 927             | 5 Nov 03  | 0857 | S06:16.67 | W081:11.03 | 2   | 126     | 1           | On     |
| OB                            |             | 928             | 5 Nov 03  | 0858 | S06:16.30 | W081:10.79 | 2   | 224     | 1           | On     |
| OB                            |             | 929             | 5 Nov 03  | 0901 | S06:15.76 | W081:11.23 | 2   | 224     | 1           | On     |
| OB                            |             | 930             | 5 Nov 03  | 0903 | S06:15.66 | W081:12.49 | 2   | 199     | 3           | On     |
| OB                            |             | 931             | 5 Nov 03  | 0914 | S06:14.21 | W081:11.97 | 2   | 126     | 2           | Off    |
| OB                            |             | 932             | 5 Nov 03  | 1020 | S06:13.71 | W081:12.84 | 3   | 199     | 1           | On     |
| unid. pinniped                |             |                 |           |      |           |            |     |         |             |        |
| PU                            |             | 648             | 20 Nov 03 | 1043 | N07:07.95 | W081:28.61 | 2   | 233     | 1           | On     |
| PU                            |             | 933             | 30 Jul 03 | 1148 | N30:34.63 | W117:48.24 | 2   | 208     | 1           | On     |
| PU                            |             | 934             | 31 Jul 03 | 0933 | N28:37.91 | W120:13.58 | 1   | 98      | 1           | On     |
| PU                            |             | 1817            | 5 Aug 03  | 1258 | N24:42.09 | W114:23.63 | 4   | 126     | 1           | On     |
| PU                            |             | 1818            | 8 Aug 03  | 1203 | N22:56.43 | W110:50.04 | 2   | 224     | 1           | On     |
| PU                            |             | 1819            | 8 Aug 03  | 1924 | N22:24.50 | W111:18.78 | 2   | 126     | 1           | On     |
| <i>Zalophus californianus</i> |             |                 |           |      |           |            |     |         |             |        |
| ZC                            |             | 1801            | 1 Aug 03  | 1427 | N29:18.39 | W115:26.32 | 5   | 233     | 1           | On     |
| ZC                            |             | 1802            | 1 Aug 03  | 1503 | N29:13.35 | W115:22.84 | 4   | 7       | 1           | Off    |
| ZC                            |             | 1803            | 1 Aug 03  | 1552 | N29:05.95 | W115:17.96 | 4   | 200     | 1           | On     |
| ZC                            |             | 1804            | 2 Aug 03  | 1829 | N27:38.20 | W115:11.84 | 5   | 73      | 5           | On     |
| ZC                            |             | 1806            | 4 Aug 03  | 0812 | N25:46.33 | W113:12.82 | 4   | 200     | 1           | On     |
| ZC                            |             | 1807            | 7 Aug 03  | 0956 | N23:55.84 | W112:33.03 | 4   | 73      | 1           | On     |
| ZC                            |             | 1815            | 12 Aug 03 | 1930 | N25:16.11 | W109:08.09 | 4   | 200     | 1           | On     |
| ZC                            |             | 1816            | 12 Aug 03 | 1930 | N25:15.92 | W109:08.12 | 4   | 73      | 6           | On     |

Table 3. Summary of STAR03 marine mammal sightings. Mixed schools are counted once for each sighting category that occurs in them. School size is the mean of the best estimates of total school size for pure schools, and subgroup size of the sighting category in the case of mixed schools.

| Code | Sighting Category                           | Pure Schools | Mixed Schools | Total Sightings | School Size |
|------|---|--------------|---------------|-----------------|-------------|
| 013  | <i>Stenella coeruleoalba</i>                | 178          | 5             | 183             | 50.8        |
| 002  | <i>Stenella attenuata</i> (offshore)        | 70           | 108           | 178             | 86.8        |
| 018  | <i>Tursiops truncatus</i>                   | 110          | 50            | 160             | 43.4        |
| 077  | unid. dolphin                               | 148          | 11            | 159             | 13.8        |
| 006  | <i>Stenella attenuata graffmani</i>         | 87           | 5             | 92              | 56.6        |
| 017  | <i>Delphinus delphis</i>                    | 87           | 4             | 91              | 125.0       |
| 010  | <i>Stenella longirostris orientalis</i>     | 14           | 66            | 80              | 114.6       |
| 177  | unid. small delphinid                       | 68           | 3             | 71              | 23.5        |
| 021  | <i>Grampus griseus</i>                      | 42           | 20            | 62              | 18.8        |
| 072  | <i>Balaenoptera edeni</i>                   | 43           | 4             | 47              | 1.9         |
| 015  | <i>Steno bredanensis</i>                    | 39           | 8             | 47              | 8.2         |
| 036  | <i>Globicephala macrorhynchus</i>           | 28           | 18            | 46              | 19.3        |
| 075  | <i>Balaenoptera musculus</i>                | 41           | 2             | 43              | 1.7         |
| 070  | <i>Balaenoptera</i> sp.                     | 37           | 4             | 41              | 1.5         |
| 011  | <i>Stenella longirostris</i> (whitebelly)   | 9            | 30            | 39              | 83.6        |
| 099  | <i>Balaenoptera borealis/edeni</i>          | 32           | 1             | 33              | 1.3         |
| OB   | <i>Otaria byronia</i>                       | 31           | 0             | 31              | 1.3         |
| 090  | <i>Stenella attenuata</i> (unid. subsp.)    | 23           | 5             | 28              | 44.9        |
| 051  | <i>Mesoplodon</i> sp.                       | 27           | 0             | 27              | 2.1         |
| 277  | unid. medium delphinid                      | 24           | 3             | 27              | 5.8         |
| 046  | <i>Physeter macrocephalus</i>               | 23           | 0             | 23              | 5.1         |
| 048  | <i>Kogia sima</i>                           | 23           | 0             | 23              | 1.1         |
| 061  | <i>Ziphius cavirostris</i>                  | 22           | 0             | 22              | 1.8         |
| 016  | <i>Delphinus capensis</i>                   | 13           | 6             | 19              | 194.8       |
| 076  | <i>Megaptera novaeangliae</i>               | 17           | 2             | 19              | 2.5         |
| 079  | unid. large whale                           | 19           | 0             | 19              | 1.2         |
| 037  | <i>Orcinus orca</i>                         | 13           | 2             | 15              | 7.0         |
| 049  | ziphiid whale                               | 14           | 0             | 14              | 1.8         |
| 025  | <i>Lagenorhynchus obscurus</i>              | 4            | 8             | 12              | 151.0       |
| 003  | <i>Stenella longirostris</i> (unid. subsp.) | 6            | 6             | 12              | 448.6       |
| 078  | unid. small whale                           | 11           | 0             | 11              | 1.5         |
| 096  | unid. cetacean                              | 10           | 1             | 11              | 2.3         |
| 101  | <i>Stenella longirostris</i> (southwestern) | 5            | 5             | 10              | 140.2       |
| 034  | <i>Globicephala</i> sp.                     | 5            | 4             | 9               | 16.0        |
| 033  | <i>Pseudorca crassidens</i>                 | 7            | 1             | 8               | 10.2        |
| ZC   | <i>Zalophus californianus</i>               | 8            | 0             | 8               | 2.1         |
| AT   | <i>Arctocephalus townsendi</i>              | 8            | 0             | 8               | 2.0         |
| PU   | unid. pinniped                              | 6            | 0             | 6               | 1.0         |
| 074  | <i>Balaenoptera physalus</i>                | 4            | 2             | 6               | 2.2         |
| 098  | unid. whale                                 | 6            | 0             | 6               | 1.3         |
| 001  | <i>Mesoplodon peruvianus</i>                | 5            | 0             | 5               | 1.2         |
| 377  | unid. large delphinid                       | 4            | 1             | 5               | 1.8         |
| 083  | <i>Mesoplodon</i> sp. A                     | 4            | 0             | 4               | 2.6         |
| 005  | <i>Delphinus</i> sp.                        | 4            | 0             | 4               | 31.3        |
| 022  | <i>Lagenorhynchus obliquidens</i>           | 4            | 0             | 4               | 13.6        |
| 100  | <i>Stenella longirostris</i> (Tres Marias)  | 3            | 0             | 3               | 481.3       |
| 032  | <i>Feresa attenuata</i>                     | 1            | 1             | 2               | 21.7        |

Table 3. Summary of STAR03 marine mammal sightings (continued).

| Code | Sighting Category                            | Pure<br>Schools | Mixed<br>Schools | Total<br>Sightings | School<br>Size |
|------|--|-----------------|------------------|--------------------|----------------|
| 080  | <i>Kogia</i> sp.                             | 2               | 0                | 2                  | 2.0            |
| 088  | <i>Stenella longirostris centroamericana</i> | 2               | 0                | 2                  | 986.7          |
| 063  | <i>Berardius bairdii</i>                     | 2               | 0                | 2                  | 3.8            |
| 071  | <i>Balaenoptera acutorostrata</i>            | 1               | 0                | 1                  | 1.0            |
| 042  | <i>Phocoena spinipinnis</i>                  | 1               | 0                | 1                  | 5.7            |
| 026  | <i>Lagenodelphis hosei</i>                   | 1               | 0                | 1                  | 60.0           |
| MA   | <i>Mirounga angustirostris</i>               | 1               | 0                | 1                  | 1.0            |
| 031  | <i>Peponocephala electra</i>                 | 1               | 0                | 1                  | 73.2           |



Table 4. Marine mammals schools of mixed species composition during STAR03. Scientific names for each sighting code are listed in Appendix C.

| Species 1<br>code name | Species 2<br>code name | Species 3<br>code name | Species 4<br>code name | Number of<br>schools |            |     |            |   |
|------------------------|------------------------|------------------------|------------------------|----------------------|------------|-----|------------|---|
| 002                    | OFFSH_SPOT             | 010                    | EAST_SPINR             | 60                   |            |     |            |   |
| 011                    | WBEL_SPINR             | 002                    | OFFSH_SPOT             | 25                   |            |     |            |   |
| 036                    | SHRT_PILOT             | 018                    | TURSIOPS               | 14                   |            |     |            |   |
| 018                    | TURSIOPS               | 021                    | GRAMPUS                | 12                   |            |     |            |   |
| 018                    | TURSIOPS               | 015                    | STENO                  | 7                    |            |     |            |   |
| 025                    | DUSKY                  | 016                    | LONGB_COMM             | 6                    |            |     |            |   |
| 101                    | SW_SPINNER             | 002                    | OFFSH_SPOT             | 5                    |            |     |            |   |
| 003                    | UNID_SPINR             | 002                    | OFFSH_SPOT             | 4                    |            |     |            |   |
| 036                    | SHRT_PILOT             | 077                    | UNID_DOLPH             | 3                    |            |     |            |   |
| 018                    | TURSIOPS               | 002                    | OFFSH_SPOT             | 3                    |            |     |            |   |
| 006                    | COAST_SPOT             | 018                    | TURSIOPS               | 3                    |            |     |            |   |
| 013                    | STRIPED                | 002                    | OFFSH_SPOT             | 2                    |            |     |            |   |
| 034                    | GLOBI_SP               | 018                    | TURSIOPS               | 2                    |            |     |            |   |
| 018                    | TURSIOPS               | 277                    | UNID_M_DEL             | 2                    |            |     |            |   |
| 017                    | SHRTB_COMM             | 013                    | STRIPED                | 2                    |            |     |            |   |
| 177                    | UNID_S_DEL             | 010                    | EAST_SPINR             | 2                    |            |     |            |   |
| 070                    | UNID_RORQL             | 074                    | FIN_WHALE              | 2                    |            |     |            |   |
| 018                    | TURSIOPS               | 090                    | UNID_SPOT              | 2                    |            |     |            |   |
| 076                    | HUMPBACK_W             | 099                    | SEI/BRYDES             | 1                    |            |     |            |   |
| 034                    | GLOBI_SP               | 018                    | TURSIOPS               | 021                  | GRAMPUS    | 1   |            |   |
| 002                    | OFFSH_SPOT             | 010                    | EAST_SPINR             | 096                  | UNID_CETAC | 1   |            |   |
| 010                    | EAST_SPINR             | 090                    | UNID_SPOT              | 1                    |            | 1   |            |   |
| 018                    | TURSIOPS               | 077                    | UNID_DOLPH             | 1                    |            | 1   |            |   |
| 037                    | KILLER_WHA             | 072                    | BRYDES_WHL             | 1                    |            | 1   |            |   |
| 011                    | WBEL_SPINR             | 013                    | STRIPED                | 002                  | OFFSH_SPOT | 077 | UNID_DOLPH | 1 |
| 033                    | FALSE_KLLR             | 021                    | GRAMPUS                | 1                    |            | 1   |            |   |
| 032                    | PYGMY_KLLR             | 021                    | GRAMPUS                | 1                    |            | 1   |            |   |
| 011                    | WBEL_SPINR             | 077                    | UNID_DOLPH             | 1                    |            | 1   |            |   |
| 011                    | WBEL_SPINR             | 002                    | OFFSH_SPOT             | 077                  | UNID_DOLPH | 1   |            |   |
| 377                    | UNID_L_DEL             | 021                    | GRAMPUS                | 1                    |            | 1   |            |   |
| 070                    | UNID_RORQL             | 077                    | UNID_DOLPH             | 1                    |            | 1   |            |   |
| 034                    | GLOBI_SP               | 021                    | GRAMPUS                | 1                    |            | 1   |            |   |
| 021                    | GRAMPUS                | 036                    | SHRT_PILOT             | 018                  | TURSIOPS   | 1   |            |   |
| 025                    | DUSKY                  | 076                    | HUMPBACK_W             | 1                    |            | 1   |            |   |
| 018                    | TURSIOPS               | 025                    | DUSKY                  | 1                    |            | 1   |            |   |
| 006                    | COAST_SPOT             | 017                    | SHRTB_COMM             | 1                    |            | 1   |            |   |
| 002                    | OFFSH_SPOT             | 010                    | EAST_SPINR             | 015                  | STENO      | 1   |            |   |
| 075                    | BLUE_WHALE             | 072                    | BRYDES_WHL             | 070                  | UNID_RORQL | 1   |            |   |
| 017                    | SHRTB_COMM             | 002                    | OFFSH_SPOT             | 1                    |            | 1   |            |   |
| 037                    | KILLER_WHA             | 018                    | TURSIOPS               | 1                    |            | 1   |            |   |
| 075                    | BLUE_WHALE             | 072                    | BRYDES_WHL             | 1                    |            | 1   |            |   |
| 002                    | OFFSH_SPOT             | 010                    | EAST_SPINR             | 011                  | WBEL_SPINR | 1   |            |   |
| 003                    | UNID_SPINR             | 090                    | UNID_SPOT              | 1                    |            | 1   |            |   |
| 090                    | UNID_SPOT              | 006                    | COAST_SPOT             | 1                    |            | 1   |            |   |
| 002                    | OFFSH_SPOT             | 177                    | UNID_S_DEL             | 1                    |            | 1   |            |   |
| 002                    | OFFSH_SPOT             | 011                    | WBEL_SPINR             | 072                  | BRYDES_WHL | 1   |            |   |
| 003                    | UNID_SPINR             | 077                    | UNID_DOLPH             | 1                    |            | 1   |            |   |
| 002                    | OFFSH_SPOT             | 077                    | UNID_DOLPH             | 1                    |            | 1   |            |   |
| 021                    | GRAMPUS                | 077                    | UNID_DOLPH             | 1                    |            | 1   |            |   |
| 021                    | GRAMPUS                | 277                    | UNID_M_DEL             | 1                    |            | 1   |            |   |

Table 5. Effort and sighting rates during STAR03, by sea state and swell height.

|                         | Kilometers<br>of effort | No. of<br>sightings | Sightings<br>per 1000 km |
|-------------------------|-------------------------|---------------------|--------------------------|
| Total                   | 26200.2                 | 1358                | 51.83                    |
| By sea state (Beaufort) |                         |                     |                          |
| 0                       | 116.7                   | 23                  | 197.13                   |
| 1                       | 1032.7                  | 155                 | 150.09                   |
| 2                       | 3104.5                  | 341                 | 109.84                   |
| 3                       | 3994.8                  | 247                 | 61.83                    |
| 4                       | 12392.5                 | 448                 | 36.15                    |
| 5                       | 5468.9                  | 141                 | 25.78                    |
| 6                       | 90.0                    | 3                   | 33.33                    |
| By swell height (ft)    |                         |                     |                          |
| 1                       | 264.9                   | 16                  | 60.40                    |
| 2                       | 1272.0                  | 143                 | 112.42                   |
| 3                       | 5059.5                  | 425                 | 84.00                    |
| 4                       | 7409.3                  | 395                 | 53.31                    |
| 5                       | 5017.7                  | 169                 | 33.68                    |
| 6                       | 5132.1                  | 145                 | 28.25                    |
| 7                       | 718.0                   | 18                  | 25.07                    |
| 8                       | 884.9                   | 32                  | 36.16                    |
| 9                       | 185.2                   | 10                  | 54.00                    |
| 10                      | 183.4                   | 5                   | 27.26                    |
| 12                      | 73.2                    | 0                   | 0.00                     |

Table 6. Acoustic recordings of cetaceans obtained using the towed hydrophone array on the *McArthur II* during STAR03 (including non-sighted unidentified dolphins, sperm whales, and minke whales).

| Species  | Leg<br>3 | Leg<br>4 | Leg<br>5 | Total |
|--|----------|----------|----------|-------|
| Unidentified Dolphins (sighted)                          | 5        | 2        | 11       | 18    |
| Unidentified Dolphins (non-sighted)                      | 21       | 14       | 13       | 48    |
| <i>Stenella coeruleoalba</i>                             | 14       | 8        | 26       | 48    |
| <i>Stenella attenuata</i>                                | 3        | 11       | 21       | 35    |
| <i>Delphinus delphis</i>                                 | 6        | 6        | 13       | 25    |
| <i>Tursiops truncatus</i>                                | 2        | 12       | 8        | 22    |
| <i>Grampus griseus</i>                                   | 2        | 4        | 3        | 9     |
| <i>Globicephala</i> sp.                                  | 5        | 1        | 2        | 8     |
| <i>Delphinus capensis</i>                                | 0        | 3        | 1        | 4     |
| <i>Stenella longirostris</i>                             | 0        | 1        | 3        | 4     |
| <i>Lagenorhynchus obscurus</i>                           | 0        | 3        | 0        | 3     |
| <i>Pseudorca crassidens</i>                              | 0        | 0        | 1        | 1     |
| <i>Stenella attenuata, Stenella longirostris</i>         | 2        | 1        | 10       | 13    |
| <i>Globicephala, Tursiops truncatus</i>                  | 2        | 0        | 3        | 5     |
| <i>Lagenorhynchus obscurus, Delphinus</i> sp.            | 0        | 5        | 0        | 5     |
| <i>Globicephala, Grampus griseus, Tursiops truncatus</i> | 2        | 0        | 0        | 2     |
| <i>Stenella attenuata, Delphinus</i> sp.                 | 0        | 1        | 1        | 2     |
| <i>Globicephala, Grampus griseus</i>                     | 1        | 0        | 0        | 1     |
| <i>Lagenorhynchus obscurus, Tursiops truncatus</i>       | 0        | 1        | 0        | 1     |
| <i>Grampus griseus, Tursiops truncatus</i>               | 0        | 1        | 0        | 1     |
| <i>Steno bredanensis, Tursiops truncatus</i>             | 0        | 0        | 1        | 1     |
| <i>Stenella coeruleoalba, Delphinus</i> sp.              | 0        | 0        | 1        | 1     |
| <i>Physeter macrocephalus</i> (sighted)                  | 5        | 1        | 1        | 7     |
| <i>Physeter macrocephalus</i> (non-sighted)              | 14       | 2        | 0        | 16    |
| <i>Balaenoptera acutorostrata</i> (non-sighted)          | 0        | 0        | 17       | 17    |
| Total  | 84       | 77       | 136      | 297   |

Table 7. Acoustic recordings of cetaceans obtained from the bow hydrophone on the *Jordan* during STAR03, listed in decreasing order of recordings obtained. Not all recordings contain vocalizations from the target species.

| Species  | Recordings |
|--|------------|
| <i>Stenella attenuata, Stenella longirostris</i> | 12         |
| <i>Tursiops truncatus</i>                        | 11         |
| <i>Stenella attenuata</i>                        | 11         |
| <i>Delphinus delphis</i>                         | 8          |
| <i>Stenella longirostris</i>                     | 7          |
| <i>Steno bredanensis</i>                         | 5          |
| <i>Orcinus orca</i>                              | 5          |
| <i>Stenella attenuata, Tursiops truncatus</i>    | 2          |
| <i>Pseudorca crassidens</i>                      | 1          |
| <i>Lagenorhynchus obliquidens</i>                | 1          |
| <i>Globicephala</i> sp.                          | 1          |
| <i>Grampus griseus, Tursiops truncatus</i>       | 1          |
| <i>Grampus griseus</i>                           | 1          |
| <i>Berardius bairdii</i>                         | 1          |
| Total  | 67         |

Table 8. Acoustic recordings of cetaceans obtained using sonobuoys on the *McArthur II* during STAR03, listed in decreasing order of recordings obtained. Not all recordings contain vocalizations from the target species.

| Species                            | Recordings |
|------------------------------------|------------|
| <i>Balaenoptera musculus</i>       | 15         |
| <i>Balaenoptera edeni</i>          | 8          |
| <i>Balaenoptera edeni/borealis</i> | 3          |
| <i>Balaenoptera physalus</i>       | 3          |
| <i>Orcinus orca</i>                | 2          |
| <i>Balaenoptera borealis</i>       | 2          |
| <i>Lagenodelphis hosei</i>         | 1          |
| <i>Physeter macrocephalus</i>      | 1          |
| <i>Globicephala</i> sp.            | 1          |
| <i>Megaptera novaeangliae</i>      | 1          |
| Total                              | 37         |

Table 9. Acoustic recordings of cetaceans obtained using sonobuoys on the *Jordan* during STAR03, listed in decreasing order of recordings obtained. Not all recordings contain vocalizations from the target species.

| Species                            | Recordings |
|------------------------------------|------------|
| <i>Balaenoptera musculus</i>       | 3          |
| <i>Orcinus orca</i>                | 2          |
| <i>Balaenoptera edeni/borealis</i> | 1          |
| <i>Balaenoptera edeni</i>          | 1          |
| Total                              | 7          |

Table 10. Cetacean schools photographed by handheld digital and 35 mm cameras and total number of images taken during STAR03, listed by number of schools photographed.

| Sighting Category   | Schools | Images |
|---|---------|--------|
| <i>Stenella coeruleoalba</i>  | 67      | 1056   |
| <i>Delphinus delphis</i>  | 57      | 1338   |
| <i>Tursiops truncatus</i>   | 51      | 612    |
| <i>Stenella attenuata graffmani</i>   | 43      | 744    |
| <i>Globicephala macrorhynchus</i>   | 32      | 1120   |
| <i>Stenella attenuata</i> (offshore)  | 28      | 304    |
| <i>Balaenoptera edeni</i>   | 26      | 467    |
| <i>Balaenoptera musculus</i>  | 23      | 784    |
| <i>Stenella attenuata</i> (offshore)/ <i>S. longirostris orientalis</i>                           | 23      | 454    |
| <i>Grampus griseus</i>  | 12      | 153    |
| <i>Megaptera novaeangliae</i>   | 11      | 533    |
| <i>Delphinus capensis</i>   | 10      | 403    |
| <i>Stenella attenuata</i> (unid. subsp.)  | 10      | 219    |
| <i>Steno bredanensis</i>  | 10      | 94     |
| <i>Globicephala macrorhynchus/Tursiops truncatus</i>  | 9       | 397    |
| <i>Orcinus orca</i>   | 9       | 565    |
| <i>Physeter macrocephalus</i>   | 9       | 265    |
| <i>Stenella longirostris orientalis</i>   | 7       | 73     |
| <i>Delphinus capensis/Lagenorhynchus obscurus</i>   | 6       | 359    |
| <i>Lagenorhynchus obscurus</i>  | 6       | 76     |
| <i>Balaenoptera physalus</i>  | 5       | 122    |
| <i>Balaenoptera borealis</i>  | 4       | 56     |
| <i>Balaenoptera edeni/borealis</i>  | 4       | 30     |
| <i>Grampus griseus/Tursiops truncatus</i>   | 4       | 132    |
| <i>Stenella attenuata</i> (offshore)/ <i>S. longirostris</i> (whitebelly)                         | 3       | 71     |
| <i>Stenella longirostris</i> (southwestern)   | 3       | 34     |
| <i>Pseudorca crassidens</i>   | 2       | 40     |
| <i>Stenella attenuata</i> (offshore)/ <i>S. longirostris</i> (southwestern)                       | 2       | 91     |
| <i>S. attenuata</i> (offshore)/ <i>S. longirostris orientalis</i> /(whitebelly/southwestern)      | 2       | 154    |
| <i>Stenella longirostris centroamericana</i>  | 2       | 138    |
| <i>Balaenoptera musculus/B. edeni</i>   | 1       | 10     |
| <i>Berardius bairdii</i>  | 1       | 19     |
| <i>Feresa attenuata</i>   | 1       | 25     |
| <i>Globicephala macrorhynchus/Tursiops truncatus/Grampus griseus</i>                              | 1       | 111    |
| <i>Lagenodelphis hosei</i>  | 1       | 61     |
| <i>Megaptera novaeangliae/Balaenoptera edeni/borealis</i>   | 1       | 25     |
| <i>Megaptera novaeangliae/Lagenorhynchus obscurus</i>   | 1       | 55     |
| <i>Mesoplodon peruvianus</i>  | 1       | 53     |
| <i>Mesoplodon</i> sp.   | 1       | 14     |
| <i>Peponocephala electra</i>  | 1       | 17     |
| <i>Stenella attenuata</i> (offshore)/ <i>S. longirostris</i> (whitebelly)/ <i>S. coeruleoalba</i> | 1       | 16     |
| <i>Stenella attenuata graffmani/Delphinus delphis</i>   | 1       | 72     |
| <i>Stenella attenuata graffmani/S. attenuata</i> (unid. subsp.)                                   | 1       | 14     |
| <i>Stenella attenuata graffmani/Tursiops truncatus</i>  | 1       | 5      |
| <i>Stenella longirostris</i> (whitebelly)   | 1       | 24     |
| <i>Steno bredanensis/Tursiops truncatus</i>   | 1       | 6      |
| <i>Ziphius cavirostris</i>  | 1       | 5      |
| Totals  | 497     | 11,416 |

Table 11. Digital and 35mm photographs of whales from STAR03 that are potentially identifiable as unique individuals.

| Sighting No. | Date     | Position             | Species                      | Skin Sample | Photo Subject           | No. of Whales Photographed | Film Roll | Digital Image Labels or Film Frames |
|--------------|----------|----------------------|------------------------------|-------------|-------------------------|----------------------------|-----------|-------------------------------------|
| 371          | 10/12/03 | S01:31.23 W092:23.13 | <i>Balaenoptera musculus</i> | Y           | L dorsal                | 1                          | ABD03-14  | 2                                   |
| 414          | 10/21/03 | S08:49.86 W089:10.70 | <i>Balaenoptera musculus</i> | Y           | L & R dorsals           | 2                          |           | HOF031021-001 to 070                |
| "            | "        | "                    | "                            | "           | L & R dorsals           | 2                          |           | EAL031021-001 to 016                |
| "            | "        | "                    | "                            | "           | L & R dorsals           | 1-2                        | ABD03-15  | 18-34                               |
| 416          | 10/21/03 | S09:05.69 W089:01.64 | <i>Balaenoptera musculus</i> | N           | R side                  | 1                          | ABD03-16  | 1-9                                 |
| 420          | 10/22/03 | S11:47.61 W088:15.95 | <i>Balaenoptera musculus</i> | Y           | R dorsal                | 1                          |           | HOF031022-001 to 003                |
| "            | "        | "                    | "                            | "           | R dorsal                | 1                          | ABD03-16  | 10-15                               |
| 428          | 10/23/03 | S14:26.54 W087:25.00 | <i>Balaenoptera musculus</i> | N           | L dorsal                | 1                          |           | ABD031023-001 to 016                |
| "            | "        | "                    | "                            | "           | R dorsals               | 2                          |           | MFR031023-001 to 049                |
| "            | "        | "                    | "                            | "           | L side                  | 1                          | ABD03-17  | 16-36                               |
| "            | "        | "                    | "                            | "           | L dorsal, R side        | 1-2                        | ABD03-18  | 1-36                                |
| 433          | 10/25/03 | S13:45.04 W081:56.74 | <i>Balaenoptera musculus</i> | N           | R side                  | 1                          |           | HOF031025-001 to 027                |
| "            | "        | "                    | "                            | "           | R side & L dorsal       | 1                          |           | MFR031025-001 to 018                |
| 647          | 11/23/03 | N09:06.49 W088:28.62 | <i>Balaenoptera musculus</i> | N           | L side                  | 1                          | ABD03-34  | 25-34                               |
| 689          | 11/25/03 | N09:18.91 W092:52.66 | <i>Balaenoptera musculus</i> | Y           | R dorsal                | 1                          |           | HOF031125-016 to 034                |
| "            | "        | "                    | "                            | "           | L side, fluke           | 1                          | ABD03-36  | 4-10                                |
| 695          | 11/25/03 | N09:08.04 W093:03.85 | <i>Balaenoptera musculus</i> | N           | L side                  | 1                          |           | HOF031125-045 to 053                |
| "            | "        | "                    | "                            | "           | R side                  | 1                          |           | MFR031125-021 to 022                |
| "            | "        | "                    | "                            | "           | R side                  | 1                          | ABD03-36  | 11-13                               |
| 732          | 11/27/03 | N09:08.84 W098:36.28 | <i>Balaenoptera musculus</i> | N           | L side & L dorsal       | 1                          |           | HOF031127-001 to 011                |
| "            | "        | "                    | "                            | "           | L side                  | 1                          | ABD03-36  | 26-30                               |
| 1014         | 08/01/03 | N28:46.36 W115:18.09 | <i>Balaenoptera musculus</i> | N           | R side                  | 1                          |           | ABD030801-005                       |
| "            | "        | "                    | "                            | "           | L side                  | 1                          |           | ABD030801-006                       |
| "            | "        | "                    | "                            | "           | L side                  | 1                          | ABD03-01  | 1-5                                 |
| "            | "        | "                    | "                            | "           | L side                  | 1                          | PAO03-13  | 1-5                                 |
| 1019         | 08/02/03 | N28:23.91 W115:31.14 | <i>Balaenoptera musculus</i> | N           | L side                  | 1                          |           | ABD030802-001 to 002                |
| "            | "        | "                    | "                            | "           | L side                  | 1                          | HOF03-02  | 1-13                                |
| 1024         | 08/02/03 | N27:50.69 W115:26.95 | <i>Balaenoptera musculus</i> | N           | L side                  | 1                          |           | HOF030802-001 to 003                |
| 1047         | 08/05/03 | N24:45.53 W114:20.44 | <i>Balaenoptera musculus</i> | Y           | L side                  | 1                          | ABD03-01  | 11-16                               |
| 1079         | 08/08/03 | N22:29.82 W111:18.51 | <i>Balaenoptera musculus</i> | Y           | L dorsal, R side, fluke | 1                          | ABD03-03  | 10-15                               |
| 1082         | 08/08/03 | N22:24.24 W111:24.68 | <i>Balaenoptera musculus</i> | Y           | R side                  | 1                          |           | HOF030807-001 to 004                |
| "            | "        | "                    | "                            | "           | L & R dorsal            | 1                          | ABD03-03  | 16-36                               |
| "            | "        | "                    | "                            | "           | L dorsal                | 1                          | HOF03-10  | 1-10                                |
| 1087         | 08/09/03 | N21:51.36 W110:26.36 | <i>Balaenoptera musculus</i> | Y           | R side                  | 1                          |           | HOF030809-061 to 097                |
| 1088         | 08/09/03 | N21:49.13 W110:22.91 | <i>Balaenoptera musculus</i> | Y           | R dorsal                | 1                          |           | HOF030809-098 to 113                |
| "            | "        | "                    | "                            | "           | L dorsal                | 1                          | ABD03-04  | 1-18                                |
| 1332         | 09/21/03 | N13:11.75 W099:04.32 | <i>Balaenoptera musculus</i> | Y           | R side                  | 1                          | ABD03-08  | 29-34                               |
| "            | "        | "                    | "                            | "           | L side                  | 1                          | ABD03-09  | 1-2                                 |
| 1727         | 12/06/03 | N25:22.52 W116:08.08 | <i>Balaenoptera musculus</i> | N           | L dorsal                | 1                          |           | DEG031206-001 to 027                |
| "            | "        | "                    | "                            | "           | R dorsal                | 1                          |           | EME031206-001 to 022                |

Table 11. Digital and 35mm photographs of whales from STAR (continued).

| Sighting No. | Date     | Position             | Species                       | Skin Sample | Photo Subject             | No. of Whales Photographed | Film Roll | Digital Image Labels or Film Frames |
|--------------|----------|----------------------|-------------------------------|-------------|---------------------------|----------------------------|-----------|-------------------------------------|
| 1735         | 12/08/03 | N29:20.66 W118:07.63 | <i>Balaenoptera musculus</i>  | Y           | L & R dorsal              | 1                          |           | DEG031208-001 to 091                |
| 443          | 11/01/03 | S10:54.48 W078:19.31 | <i>Megaptera novaeangliae</i> | N           | L dorsal                  | 1                          |           | ABD031101-001 to 003                |
| "            | "        | "                    | "                             | "           | L dorsals                 | 2                          |           | MFR031101-001 to 006                |
| 445          | 11/01/03 | S10:28.15 W078:08.42 | <i>Megaptera novaeangliae</i> | N           | 1 fluke, 2 R dorsals      | 2                          |           | ABD032202-007 to 015                |
| "            | "        | "                    | "                             | "           | L & R dorsals             | 2                          |           | MFR031101-013 to 058                |
| 447          | 11/01/03 | S10:26.95 W078:32.11 | <i>Megaptera novaeangliae</i> | N           | fluke, R dorsal           | 1                          |           | ABD031101-021 to 026                |
| "            | "        | "                    | "                             | "           | R dorsal                  | 1                          |           | MFR031101-093 to 096                |
| 478          | 11/04/03 | S07:28.82 W079:57.61 | <i>Megaptera novaeangliae</i> | Y           | L & R dorsals, fluke tip  | 2                          |           | HOF031104-022 to 051                |
| "            | "        | "                    | "                             | "           | fluke, R dorsal           | 1                          | ABD03-24  | 16-24                               |
| 483          | 11/05/03 | S06:24.75 W081:10.62 | <i>Megaptera novaeangliae</i> | N           | flukes & dorsals          | 8                          |           | ABD031105-001 to 042                |
| "            | "        | "                    | "                             | "           | flukes & dorsals          | 8                          |           | MFR031105-062 to 100                |
| 484          | 11/05/03 | S06:24.51 W081:10.38 | <i>Megaptera novaeangliae</i> | N           | L & R dorsals, fluke tips | 2                          |           | ABD031105-043 to 077                |
| "            | "        | "                    | "                             | "           | L & R dorsals, fluke tips | 2                          |           | MFR031105-101 to 143                |
| 485          | 11/05/03 | S06:22.21 W081:07.38 | <i>Megaptera novaeangliae</i> | N           | L & R dorsals, fluke tip  | 2                          |           | HOF031105-001 to 039                |
| "            | "        | "                    | "                             | "           | L dorsal, fluke tip       | 1-2                        | ABD03-25  | 14-24                               |
| 486          | 11/05/03 | S06:13.95 W081:10.89 | <i>Megaptera novaeangliae</i> | N           | flukes, L & R dorsals     | 4                          |           | HOF031105-040 to 123                |
| "            | "        | "                    | "                             | "           | flukes, L & R dorsals     | 4                          |           | MFR031105-144 to 150                |
| "            | "        | "                    | "                             | "           | flukes, L dorsals         | 2-4                        | ABD03-25  | 25-36                               |
| "            | "        | "                    | "                             | "           | flukes, L & R dorsals     | 2-4                        | ABD03-26  | 1-16                                |
| 488          | 11/05/03 | S05:41.60 W081:17.38 | <i>Megaptera novaeangliae</i> | N           | L & R dorsals             | 2                          |           | HOF031105-124 to 160                |
| "            | "        | "                    | "                             | "           | L & R dorsals             | 2                          | ABD03-26  | 17-29                               |
| 492          | 11/06/03 | S03:43.39 W081:17.66 | <i>Megaptera novaeangliae</i> | N           | fluke, R dorsal           | 1                          |           | HOF031106-001 to 047                |
| "            | "        | "                    | "                             | "           | R dorsal                  | 1                          | ABD03-27  | 3-19                                |
| 509          | 11/08/03 | N00:09.98 W080:18.32 | <i>Megaptera novaeangliae</i> | N           | L dorsals                 | 2                          |           | HOF031108-024 to 033                |
| "            | "        | "                    | "                             | "           | L dorsal                  | 1                          | ABD03-28  | 1-2                                 |
| 510          | 11/08/03 | N00:24.03 W080:13.69 | <i>Megaptera novaeangliae</i> | N           | L dorsals                 | 2                          |           | HOF031108-034 to 058                |
| "            | "        | "                    | "                             | "           | L dorsals                 | 2                          | ABD03-28  | 3-16                                |
| 543          | 11/13/03 | N06:28.84 W079:33.76 | <i>Orcinus orca</i>           | N           | L dorsal                  | 1                          |           | HOF031113-072                       |
| 1056         | 08/07/03 | N23:58.67 W112:18.35 | <i>Orcinus orca</i>           | Y           | L & R dorsals             | 17                         |           | HOF030807-001 to 070                |
| "            | "        | "                    | "                             | "           | L & R dorsals             | 8                          | ABD03-01  | 18-36                               |
| "            | "        | "                    | "                             | "           | L & R dorsals             | 8                          | ABD03-02  | 1-27                                |
| 1085         | 08/09/03 | N21:47.44 W110:19.44 | <i>Orcinus orca</i>           | Y           | L & R dorsals             | 15                         |           | HOF030809-001 to 060                |
| 1181         | 08/14/03 | N21:43.97 W106:33.74 | <i>Orcinus orca</i>           | Y           | L & R dorsals             | 6-7                        |           | ABD030814-001 to 014                |
| 1382         | 09/26/03 | N10:56.17 W088:39.28 | <i>Orcinus orca</i>           | Y           | L & R dorsals             | 20-25                      |           | HOF030926-021 to 185                |
| "            | "        | "                    | "                             | "           | L & R dorsals             | 5                          | ABD03-10  | 12-31                               |
| 1447         | 10/11/03 | N06:12.38 W092:41.37 | <i>Orcinus orca</i>           | N           | R dorsal                  | 1                          |           | DEG031011-006                       |
| 1617         | 11/12/03 | N11:25.13 W112:42.52 | <i>Orcinus orca</i>           | N           | L & R dorsals             | 2                          |           | CES031112-001 to 012                |
| "            | "        | "                    | "                             | "           | L & R dorsals             | 2                          |           | DEG031112-009 to 015                |
| 32           | 08/01/03 | N25:48.39 W123:47.79 | <i>Physeter macrocephalus</i> | N           | fluke                     | 1                          |           | CSO030801-012 to 013                |
| 72           | 08/12/03 | N12:55.96 W133:33.29 | <i>Physeter macrocephalus</i> | N           | L & R dorsals             | 3                          |           | DEG030812-001 to 022                |



Table 11. Digital and 35mm photographs of whales from STAR03 (continued).

| Sighting Date<br>No. mm/dd/yy | Position  | Species                                  | Skin<br>Sample | Photo<br>Subject | No. of Whales<br>Photographed | Film<br>Roll | Digital Image Labels or<br>Film Frames |
|-------------------------------|-----------|--|----------------|------------------|-------------------------------|--------------|--|
| "                             | "         | "  | "              | L & R dorsal     | 1                             | DEG03-01     | 22-31                                  |
| 174 08/26/03                  | N19:24.79 | W156:52.66 <i>Physeter macrocephalus</i> | N              | L & R dorsals    | 3                             |              | CSO030826-001 to 018                   |
| 328 10/07/03                  | N07:33.88 | W084:50.21 <i>Physeter macrocephalus</i> | N              | L & R dorsals    | 4-6                           |              | HOF031007-009 to 086                   |
| 386 10/14/03                  | S04:52.61 | W097:42.91 <i>Physeter macrocephalus</i> | Y              | L dorsals        | 2                             |              | HOF031014-001 to 014                   |
| 388 10/14/03                  | S05:02.57 | W097:52.03 <i>Physeter macrocephalus</i> | N              | R dorsal         | 1                             |              | HOF031014-015 to 029                   |
| 410 10/20/03                  | S08:32.48 | W090:53.43 <i>Physeter macrocephalus</i> | N              | fluke            | 1                             |              | HOF031020-064 to 066                   |
| 785 12/06/03                  | N23:50.68 | W119:31.75 <i>Physeter macrocephalus</i> | Y              | fluke & R dorsal | 1                             |              | ABD031206-021 to 026                   |
| 1610 11/10/03                 | N08:47.52 | W118:23.59 <i>Physeter macrocephalus</i> | N              | fluke            | 1                             |              | DEG031110-014 to 015                   |

Table 12. Aerial photogrammetry effort, total number of schools, and number of calibration schools, obtained per leg during STAR03 by the helicopter on the *Jordan*.

| Leg #                             | 1    | 2    | 3    | 4    | 5    | 6    | Totals |
|-----------------------------------|------|------|------|------|------|------|--------|
| Days Flown                        | 11   | 7    | 4    | 3    | 10   | 9    | 44     |
| Days Lost                         | 5    | 11   | 9    | 14   | 11   | 9    | 59     |
| % Days Flown                      | 69%  | 39%  | 31%  | 18%  | 48%  | 50%  | 43%    |
| Flight Hours                      | 28.6 | 19.7 | 16.4 | 15.2 | 24.7 | 22.3 | 126.9  |
| Avg. Flight Hrs./Days Flown       | 2.60 | 2.81 | 4.10 | 5.07 | 2.47 | 2.48 | 2.88   |
| Number of Schools Photographed    | 43   | 24   | 15   | 12   | 13   | 15   | 122    |
| Number of Schools for Calibration | 10   | 7    | 4    | 3    | 8    | 5    | 37     |
| % Calibration                     | 23%  | 29%  | 27%  | 25%  | 62%  | 33%  | 30%    |

Table 13. Numbers of aerially photographed cetacean schools per leg during STAR03 by the helicopter on the *Jordan*.

| Leg #  | 1  | 2  | 3  | 4  | 5  | 6  | Totals |
|--|----|----|----|----|----|----|--------|
| <i>Stenella attenuata</i>                          | 5  | 7  | 4  | 0  | 3  | 1  | 20     |
| <i>Stenella longirostris</i>                       | 2  | 0  | 1  | 1  | 0  | 0  | 4      |
| Mixed <i>S. attenuata</i> & <i>S. longirostris</i> | 4  | 2  | 0  | 3  | 2  | 0  | 11     |
| <i>Stenella coeruleoalba</i>                       | 4  | 6  | 4  | 0  | 1  | 4  | 19     |
| <i>Delphinus</i> sp.                               | 3  | 1  | 0  | 0  | 3  | 6  | 13     |
| Other Small Cetaceans                              | 7  | 6  | 5  | 6  | 3  | 4  | 31     |
| Unid. Small Cetaceans                              | 3  | 1  | 0  | 0  | 0  | 0  | 4      |
| <i>Balaenoptera physalus</i>                       | 2  | 0  | 0  | 0  | 0  | 0  | 2      |
| <i>Balaenoptera musculus</i>                       | 4  | 0  | 1  | 0  | 0  | 0  | 5      |
| <i>Balaenoptera edeni</i>                          | 8  | 0  | 0  | 0  | 0  | 0  | 8      |
| Beaked Whales                                      | 1  | 1  | 0  | 2  | 1  | 0  | 5      |
| Totals   | 43 | 24 | 15 | 12 | 13 | 15 | 122    |

Table 14. Identity and location of cetacean skin biopsy samples obtained during STAR03.

| Species/Stock                | Sighting<br>Number | Date       | Ship | Position |          |
|------------------------------|--------------------|------------|------|----------|----------|
| <i>Balaenoptera edeni</i>    | 1067               | 8/08/2003  | DSJ  | 22°48'N  | 111° 0'W |
| <i>Balaenoptera edeni</i>    | 1445               | 10/11/2003 | DSJ  | 6°12'N   | 92°22'W  |
| <i>Balaenoptera edeni</i>    | 1486               | 10/21/2003 | DSJ  | 11°46'N  | 98°30'W  |
| <i>Balaenoptera edeni</i>    | 1161               | 8/13/2003  | DSJ  | 24°22'N  | 107°36'W |
| <i>Balaenoptera edeni</i>    | 1038               | 8/03/2003  | DSJ  | 26°55'N  | 114°31'W |
| <i>Balaenoptera edeni</i>    | 1362               | 9/24/2003  | DSJ  | 13° 8'N  | 90°26'W  |
| <i>Balaenoptera edeni</i>    | 1700               | 11/26/2003 | DSJ  | 16°32'N  | 116°48'W |
| <i>Balaenoptera edeni</i>    | 1067               | 8/08/2003  | DSJ  | 22°48'N  | 111° 0'W |
| <i>Balaenoptera edeni</i>    | 1169               | 8/13/2003  | DSJ  | 23°46'N  | 107°37'W |
| <i>Balaenoptera edeni</i>    | 1085               | 8/09/2003  | DSJ  | 21°49'N  | 110°26'W |
| <i>Balaenoptera edeni</i>    | 1034               | 8/03/2003  | DSJ  | 26°53'N  | 114°41'W |
| <i>Balaenoptera musculus</i> | 1079               | 8/08/2003  | DSJ  | 22°33'N  | 111°15'W |
| <i>Balaenoptera musculus</i> | 1088               | 8/09/2003  | DSJ  | 21°49'N  | 110°23'W |
| <i>Balaenoptera musculus</i> | 1082               | 8/08/2003  | DSJ  | 22°27'N  | 111°24'W |
| <i>Balaenoptera musculus</i> | 1082               | 8/08/2003  | DSJ  | 22°27'N  | 111°24'W |
| <i>Balaenoptera musculus</i> | 1087               | 8/09/2003  | DSJ  | 21°49'N  | 110°24'W |
| <i>Balaenoptera musculus</i> | 1735               | 12/08/2003 | DSJ  | 29°21'N  | 118° 8'W |
| <i>Balaenoptera musculus</i> | 1047               | 8/05/2003  | DSJ  | 24°45'N  | 114°19'W |
| <i>Balaenoptera musculus</i> | 1332               | 9/21/2003  | DSJ  | 13°10'N  | 99° 3'W  |
| <i>Balaenoptera musculus</i> | 1382               | 9/26/2003  | DSJ  | 10°57'N  | 88°39'W  |
| <i>Balaenoptera musculus</i> | 1722               | 12/03/2003 | DSJ  | 22° 7'N  | 112°26'W |
| <i>Balaenoptera musculus</i> | 371                | 10/12/2003 | MAC  | 1°33'S   | 92°25'W  |
| <i>Balaenoptera musculus</i> | 414                | 10/21/2003 | MAC  | 9°19'S   | 89° 4'W  |
| <i>Balaenoptera musculus</i> | 414                | 10/21/2003 | MAC  | 9°19'S   | 89° 4'W  |
| <i>Balaenoptera musculus</i> | 420                | 10/22/2003 | MAC  | 11°50'S  | 88°13'W  |
| <i>Balaenoptera musculus</i> | 668                | 11/24/2003 | MAC  | 9°49'N   | 90°41'W  |
| <i>Balaenoptera musculus</i> | 689                | 11/25/2003 | MAC  | 9°18'N   | 92°50'W  |
| <i>Balaenoptera physalus</i> | 431                | 10/24/2003 | MAC  | 14°48'S  | 84°46'W  |
| <i>Berardius bairdii</i>     | 1057               | 8/07/2003  | DSJ  | 24° 3'N  | 112°21'W |
| <i>Delphinus capensis</i>    | 1156               | 8/12/2003  | DSJ  | 24°34'N  | 109°24'W |
| <i>Delphinus capensis</i>    | 1006               | 7/31/2003  | DSJ  | 32° 0'N  | 116°57'W |
| <i>Delphinus capensis</i>    | 1006               | 7/31/2003  | DSJ  | 32° 0'N  | 116°57'W |
| <i>Delphinus capensis</i>    | 1043               | 8/04/2003  | DSJ  | 25°45'N  | 113°12'W |
| <i>Delphinus capensis</i>    | 1004               | 7/31/2003  | DSJ  | 32° 8'N  | 117° 3'W |
| <i>Delphinus capensis</i>    | 1156               | 8/12/2003  | DSJ  | 24°34'N  | 109°24'W |
| <i>Delphinus capensis</i>    | 1044               | 8/04/2003  | DSJ  | 24°49'N  | 112°19'W |
| <i>Delphinus capensis</i>    | 1006               | 7/31/2003  | DSJ  | 32° 0'N  | 116°57'W |
| <i>Delphinus capensis</i>    | 1044               | 8/04/2003  | DSJ  | 24°49'N  | 112°19'W |
| <i>Delphinus capensis</i>    | 1044               | 8/04/2003  | DSJ  | 24°49'N  | 112°19'W |
| <i>Delphinus capensis</i>    | 1156               | 8/12/2003  | DSJ  | 24°34'N  | 109°24'W |
| <i>Delphinus capensis</i>    | 1156               | 8/12/2003  | DSJ  | 24°34'N  | 109°24'W |
| <i>Delphinus capensis</i>    | 1004               | 7/31/2003  | DSJ  | 32° 8'N  | 117° 3'W |
| <i>Delphinus capensis</i>    | 1004               | 7/31/2003  | DSJ  | 32° 8'N  | 117° 3'W |
| <i>Delphinus capensis</i>    | 1046               | 8/04/2003  | DSJ  | 24°49'N  | 112°31'W |
| <i>Delphinus capensis</i>    | 1046               | 8/04/2003  | DSJ  | 24°49'N  | 112°31'W |
| <i>Delphinus capensis</i>    | 1046               | 8/04/2003  | DSJ  | 24°49'N  | 112°31'W |
| <i>Delphinus capensis</i>    | 1046               | 8/04/2003  | DSJ  | 24°49'N  | 112°31'W |
| <i>Delphinus capensis</i>    | 1156               | 8/12/2003  | DSJ  | 24°34'N  | 109°24'W |
| <i>Delphinus capensis</i>    | 1059               | 8/07/2003  | DSJ  | 24° 9'N  | 111°54'W |
| <i>Delphinus capensis</i>    | 1044               | 8/04/2003  | DSJ  | 24°49'N  | 112°19'W |
| <i>Delphinus capensis</i>    | 1156               | 8/12/2003  | DSJ  | 24°34'N  | 109°24'W |
| <i>Delphinus capensis</i>    | 1044               | 8/04/2003  | DSJ  | 24°49'N  | 112°19'W |
| <i>Delphinus capensis</i>    | 1043               | 8/04/2003  | DSJ  | 25°45'N  | 113°12'W |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock                     | Sighting<br>Number | Date       | Ship | Position |           |
|-----------------------------------|--------------------|------------|------|----------|-----------|
| <i>Delphinus capensis</i>         | 1043               | 8/04/2003  | DSJ  | 25°45'N  | 113° 12'W |
| <i>Delphinus capensis</i>         | 1046               | 8/04/2003  | DSJ  | 24°49'N  | 112° 31'W |
| <i>Delphinus capensis</i>         | 454                | 11/02/2003 | MAC  | 9°44'S   | 78° 34'W  |
| <i>Delphinus capensis</i>         | 454                | 11/02/2003 | MAC  | 9°44'S   | 78° 34'W  |
| <i>Delphinus capensis</i>         | 454                | 11/02/2003 | MAC  | 9°44'S   | 78° 34'W  |
| <i>Delphinus capensis</i>         | 456                | 11/02/2003 | MAC  | 9°25'S   | 78° 43'W  |
| <i>Delphinus capensis</i>         | 456                | 11/02/2003 | MAC  | 9°25'S   | 78° 43'W  |
| <i>Delphinus delphis</i>          | 1549               | 10/30/2003 | DSJ  | 15°38'N  | 95° 48'W  |
| <i>Delphinus delphis</i>          | 1544               | 10/30/2003 | DSJ  | 15°42'N  | 95° 26'W  |
| <i>Delphinus delphis</i>          | 1548               | 10/30/2003 | DSJ  | 15°39'N  | 95° 39'W  |
| <i>Delphinus delphis</i>          | 1544               | 10/30/2003 | DSJ  | 15°42'N  | 95° 26'W  |
| <i>Delphinus delphis</i>          | 1374               | 9/26/2003  | DSJ  | 10°24'N  | 88° 36'W  |
| <i>Delphinus delphis</i>          | 1549               | 10/30/2003 | DSJ  | 15°38'N  | 95° 48'W  |
| <i>Delphinus delphis</i>          | 1055               | 8/07/2003  | DSJ  | 23°57'N  | 112° 30'W |
| <i>Delphinus delphis</i>          | 1544               | 10/30/2003 | DSJ  | 15°42'N  | 95° 26'W  |
| <i>Delphinus delphis</i>          | 541                | 11/13/2003 | MAC  | 6°22'N   | 79° 43'W  |
| <i>Delphinus delphis</i>          | 620                | 11/22/2003 | MAC  | 8°28'N   | 86° 18'W  |
| <i>Delphinus sp.</i>              | 1004               | 7/31/2003  | DSJ  | 32° 8'N  | 117° 3'W  |
| <i>Globicephala macrorhynchus</i> | 1724               | 12/05/2003 | DSJ  | 22°48'N  | 116° 37'W |
| <i>Globicephala macrorhynchus</i> | 1724               | 12/05/2003 | DSJ  | 22°48'N  | 116° 37'W |
| <i>Globicephala macrorhynchus</i> | 1031               | 8/02/2003  | DSJ  | 27°37'N  | 115° 10'W |
| <i>Globicephala macrorhynchus</i> | 1724               | 12/05/2003 | DSJ  | 22°48'N  | 116° 37'W |
| <i>Globicephala macrorhynchus</i> | 1031               | 8/02/2003  | DSJ  | 27°37'N  | 115° 10'W |
| <i>Globicephala macrorhynchus</i> | 1725               | 12/05/2003 | DSJ  | 23° 1'N  | 116° 30'W |
| <i>Globicephala macrorhynchus</i> | 291                | 9/26/2003  | MAC  | 5°10'N   | 94° 40'W  |
| <i>Globicephala macrorhynchus</i> | 292                | 9/26/2003  | MAC  | 5°11'N   | 94° 36'W  |
| <i>Globicephala macrorhynchus</i> | 292                | 9/26/2003  | MAC  | 5°11'N   | 94° 36'W  |
| <i>Globicephala macrorhynchus</i> | 292                | 9/26/2003  | MAC  | 5°11'N   | 94° 36'W  |
| <i>Globicephala macrorhynchus</i> | 292                | 9/26/2003  | MAC  | 5°11'N   | 94° 36'W  |
| <i>Globicephala macrorhynchus</i> | 302                | 9/27/2003  | MAC  | 6°44'N   | 91° 17'W  |
| <i>Globicephala macrorhynchus</i> | 353                | 10/10/2003 | MAC  | 1°33'N   | 89° 18'W  |
| <i>Globicephala macrorhynchus</i> | 408                | 10/19/2003 | MAC  | 8°52'S   | 93° 18'W  |
| <i>Globicephala macrorhynchus</i> | 408                | 10/19/2003 | MAC  | 8°52'S   | 93° 18'W  |
| <i>Globicephala macrorhynchus</i> | 408                | 10/19/2003 | MAC  | 8°52'S   | 93° 18'W  |
| <i>Globicephala macrorhynchus</i> | 409                | 10/20/2003 | MAC  | 8°31'S   | 91° 16'W  |
| <i>Globicephala macrorhynchus</i> | 409                | 10/20/2003 | MAC  | 8°31'S   | 91° 16'W  |
| <i>Globicephala macrorhynchus</i> | 409                | 10/20/2003 | MAC  | 8°31'S   | 91° 16'W  |
| <i>Globicephala macrorhynchus</i> | 409                | 10/20/2003 | MAC  | 8°31'S   | 91° 16'W  |
| <i>Globicephala macrorhynchus</i> | 409                | 10/20/2003 | MAC  | 8°31'S   | 91° 16'W  |
| <i>Globicephala macrorhynchus</i> | 409                | 10/20/2003 | MAC  | 8°31'S   | 91° 16'W  |
| <i>Globicephala macrorhynchus</i> | 409                | 10/20/2003 | MAC  | 8°31'S   | 91° 16'W  |
| <i>Globicephala macrorhynchus</i> | 409                | 10/20/2003 | MAC  | 8°31'S   | 91° 16'W  |
| <i>Globicephala macrorhynchus</i> | 423                | 10/22/2003 | MAC  | 11°57'S  | 88° 11'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 430                | 10/24/2003 | MAC  | 14°44'S  | 84° 47'W  |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N   | 85° 55'W  |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N   | 85° 55'W  |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock                     | Sighting<br>Number | Date       | Ship | Position         |
|-----------------------------------|--------------------|------------|------|------------------|
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N 85°55'W   |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N 85°55'W   |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N 85°55'W   |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N 85°55'W   |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N 85°55'W   |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N 85°55'W   |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N 85°55'W   |
| <i>Globicephala macrorhynchus</i> | 612                | 11/22/2003 | MAC  | 8°34'N 85°55'W   |
| <i>Globicephala macrorhynchus</i> | 786                | 12/07/2003 | MAC  | 25°35'N 119°16'W |
| <i>Globicephala macrorhynchus</i> | 786                | 12/07/2003 | MAC  | 25°35'N 119°16'W |
| <i>Globicephala macrorhynchus</i> | 302                | 9/27/2003  | MAC  | 6°44'N 91°17'W   |
| <i>Grampus griseus</i>            | 1124               | 8/10/2003  | DSJ  | 24°11'N 109°22'W |
| <i>Grampus griseus</i>            | 1137               | 8/11/2003  | DSJ  | 26°13'N 119°49'W |
| <i>Grampus griseus</i>            | 1137               | 8/11/2003  | DSJ  | 26°13'N 119°49'W |
| <i>Grampus griseus</i>            | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Grampus griseus</i>            | 1551               | 10/30/2003 | DSJ  | 15°35'N 95°53'W  |
| <i>Grampus griseus</i>            | 1309               | 9/06/2003  | DSJ  | 17° 6'N 100°58'W |
| <i>Grampus griseus</i>            | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Grampus griseus</i>            | 1566               | 11/01/2003 | DSJ  | 15°16'N 100°48'W |
| <i>Grampus griseus</i>            | 1534               | 10/29/2003 | DSJ  | 15°11'N 94°13'W  |
| <i>Grampus griseus</i>            | 1309               | 9/06/2003  | DSJ  | 17° 6'N 100°58'W |
| <i>Grampus griseus</i>            | 1534               | 10/29/2003 | DSJ  | 15°11'N 94°13'W  |
| <i>Grampus griseus</i>            | 1566               | 11/01/2003 | DSJ  | 15°16'N 100°48'W |
| <i>Grampus griseus</i>            | 1534               | 10/29/2003 | DSJ  | 15°11'N 94°13'W  |
| <i>Grampus griseus</i>            | 1566               | 11/01/2003 | DSJ  | 15°16'N 100°48'W |
| <i>Grampus griseus</i>            | 1534               | 10/29/2003 | DSJ  | 15°11'N 94°13'W  |
| <i>Grampus griseus</i>            | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Grampus griseus</i>            | 1534               | 10/29/2003 | DSJ  | 15°11'N 94°13'W  |
| <i>Lagenorhynchus obscurus</i>    | 444                | 11/01/2003 | MAC  | 10°35'S 78° 7'W  |
| <i>Lagenorhynchus obscurus</i>    | 454                | 11/02/2003 | MAC  | 9°44'S 78°34'W   |
| <i>Lagenorhynchus obscurus</i>    | 454                | 11/02/2003 | MAC  | 9°44'S 78°34'W   |
| <i>Lagenorhynchus obscurus</i>    | 454                | 11/02/2003 | MAC  | 9°44'S 78°34'W   |
| <i>Lagenorhynchus obliquidens</i> | 1010               | 8/01/2003  | DSJ  | 29°49'N 115°49'W |
| <i>Lagenorhynchus obliquidens</i> | 1010               | 8/01/2003  | DSJ  | 29°49'N 115°49'W |
| <i>Megaptera novaeangliae</i>     | 477                | 11/04/2003 | MAC  | 7°32'S 79°57'W   |
| <i>Megaptera novaeangliae</i>     | 478                | 11/04/2003 | MAC  | 7°32'S 79°56'W   |
| <i>Mesoplodon peruvianus</i>      | 616                | 11/22/2003 | MAC  | 8°30'N 86°11'W   |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>               | 1085               | 8/09/2003  | DSJ  | 21°49'N 110°26'W |
| <i>Orcinus orca</i>               | 1056               | 8/07/2003  | DSJ  | 23°59'N 112°18'W |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>               | 1181               | 8/14/2003  | DSJ  | 21°46'N 106°32'W |
| <i>Orcinus orca</i>               | 1056               | 8/07/2003  | DSJ  | 23°59'N 112°18'W |
| <i>Orcinus orca</i>               | 1085               | 8/09/2003  | DSJ  | 21°49'N 110°26'W |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>               | 1085               | 8/09/2003  | DSJ  | 21°49'N 110°26'W |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>               | 1181               | 8/14/2003  | DSJ  | 21°46'N 106°32'W |
| <i>Orcinus orca</i>               | 1181               | 8/14/2003  | DSJ  | 21°46'N 106°32'W |
| <i>Orcinus orca</i>               | 1181               | 8/14/2003  | DSJ  | 21°46'N 106°32'W |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>               | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock                 | Sighting<br>Number | Date       | Ship | Position         |
|-------------------------------|--------------------|------------|------|------------------|
| <i>Orcinus orca</i>           | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>           | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>           | 1085               | 8/09/2003  | DSJ  | 21°49'N 110°26'W |
| <i>Orcinus orca</i>           | 1382               | 9/26/2003  | DSJ  | 10°57'N 88°39'W  |
| <i>Orcinus orca</i>           | 1085               | 8/09/2003  | DSJ  | 21°49'N 110°26'W |
| <i>Orcinus orca</i>           | 1085               | 8/09/2003  | DSJ  | 21°49'N 110°26'W |
| <i>Orcinus orca</i>           | 1056               | 8/07/2003  | DSJ  | 23°59'N 112°18'W |
| <i>Orcinus orca</i>           | 1056               | 8/07/2003  | DSJ  | 23°59'N 112°18'W |
| <i>Orcinus orca</i>           | 202                | 9/11/2003  | MAC  | 9°27'N 138°24'W  |
| <i>Orcinus orca</i>           | 202                | 9/11/2003  | MAC  | 9°27'N 138°24'W  |
| <i>Orcinus orca</i>           | 543                | 11/13/2003 | MAC  | 6°29'N 79°35'W   |
| <i>Physeter macrocephalus</i> | 386                | 10/14/2003 | MAC  | 4°58'S 97°41'W   |
| <i>Physeter macrocephalus</i> | 386                | 10/14/2003 | MAC  | 4°58'S 97°41'W   |
| <i>Physeter macrocephalus</i> | 785                | 12/06/2003 | MAC  | 23°45'N 119°30'W |
| <i>Physeter macrocephalus</i> | 785                | 12/06/2003 | MAC  | 23°45'N 119°30'W |
| <i>Pseudorca crassidens</i>   | 1213               | 8/21/2003  | DSJ  | 17°45'N 104°56'W |
| <i>Pseudorca crassidens</i>   | 1213               | 8/21/2003  | DSJ  | 17°45'N 104°56'W |
| <i>Pseudorca crassidens</i>   | 1213               | 8/21/2003  | DSJ  | 17°45'N 104°56'W |
| <i>Pseudorca crassidens</i>   | 1213               | 8/21/2003  | DSJ  | 17°45'N 104°56'W |
| <i>Pseudorca crassidens</i>   | 1213               | 8/21/2003  | DSJ  | 17°45'N 104°56'W |
| <i>Pseudorca crassidens</i>   | 1213               | 8/21/2003  | DSJ  | 17°45'N 104°56'W |
| <i>Pseudorca crassidens</i>   | 1213               | 8/21/2003  | DSJ  | 17°45'N 104°56'W |
| <i>Stenella attenuata</i>     | 1494               | 10/23/2003 | DSJ  | 12°31'N 93°47'W  |
| <i>Stenella attenuata</i>     | 1187               | 8/15/2003  | DSJ  | 21°45'N 108° 0'W |
| <i>Stenella attenuata</i>     | 1187               | 8/15/2003  | DSJ  | 21°45'N 108° 0'W |
| <i>Stenella attenuata</i>     | 1187               | 8/15/2003  | DSJ  | 21°45'N 108° 0'W |
| <i>Stenella attenuata</i>     | 1571               | 11/01/2003 | DSJ  | 15°11'N 101° 6'W |
| <i>Stenella attenuata</i>     | 1571               | 11/01/2003 | DSJ  | 15°11'N 101° 6'W |
| <i>Stenella attenuata</i>     | 1187               | 8/15/2003  | DSJ  | 21°45'N 108° 0'W |
| <i>Stenella attenuata</i>     | 1189               | 8/15/2003  | DSJ  | 21°16'N 108° 6'W |
| <i>Stenella attenuata</i>     | 1190               | 8/15/2003  | DSJ  | 21°12'N 108° 9'W |
| <i>Stenella attenuata</i>     | 1200               | 8/16/2003  | DSJ  | 20° 7'N 106° 9'W |
| <i>Stenella attenuata</i>     | 1203               | 8/16/2003  | DSJ  | 19°52'N 105°37'W |
| <i>Stenella attenuata</i>     | 1557               | 10/31/2003 | DSJ  | 14°30'N 97°17'W  |
| <i>Stenella attenuata</i>     | 1557               | 10/31/2003 | DSJ  | 14°30'N 97°17'W  |
| <i>Stenella attenuata</i>     | 1557               | 10/31/2003 | DSJ  | 14°30'N 97°17'W  |
| <i>Stenella attenuata</i>     | 1168               | 8/13/2003  | DSJ  | 25°59'N 107°45'W |
| <i>Stenella attenuata</i>     | 1329               | 9/20/2003  | DSJ  | 12°55'N 101°18'W |
| <i>Stenella attenuata</i>     | 1494               | 10/23/2003 | DSJ  | 12°31'N 93°47'W  |
| <i>Stenella attenuata</i>     | 1494               | 10/23/2003 | DSJ  | 12°31'N 93°47'W  |
| <i>Stenella attenuata</i>     | 1492               | 10/22/2003 | DSJ  | 11°54'N 95°21'W  |
| <i>Stenella attenuata</i>     | 1492               | 10/22/2003 | DSJ  | 11°54'N 95°21'W  |
| <i>Stenella attenuata</i>     | 1492               | 10/22/2003 | DSJ  | 11°54'N 95°21'W  |
| <i>Stenella attenuata</i>     | 1203               | 8/16/2003  | DSJ  | 19°52'N 105°37'W |
| <i>Stenella attenuata</i>     | 1329               | 9/20/2003  | DSJ  | 12°55'N 101°18'W |
| <i>Stenella attenuata</i>     | 1203               | 8/16/2003  | DSJ  | 19°52'N 105°37'W |
| <i>Stenella attenuata</i>     | 1329               | 9/20/2003  | DSJ  | 12°55'N 101°18'W |
| <i>Stenella attenuata</i>     | 1326               | 9/20/2003  | DSJ  | 13°23'N 101°26'W |
| <i>Stenella attenuata</i>     | 1300               | 9/05/2003  | DSJ  | 17°16'N 102°46'W |
| <i>Stenella attenuata</i>     | 1278               | 8/30/2003  | DSJ  | 11°14'N 119°45'W |
| <i>Stenella attenuata</i>     | 1238               | 8/22/2003  | DSJ  | 16°51'N 108°25'W |
| <i>Stenella attenuata</i>     | 1203               | 8/16/2003  | DSJ  | 19°52'N 105°37'W |
| <i>Stenella attenuata</i>     | 1489               | 10/21/2003 | DSJ  | 11°40'N 93° 4'W  |
| <i>Stenella attenuata</i>     | 1119               | 8/10/2003  | DSJ  | 23°45'N 109° 5'W |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock                       | Sighting<br>Number | Date       | Ship | Position         |
|-------------------------------------|--------------------|------------|------|------------------|
| <i>Stenella attenuata</i>           | 1119               | 8/10/2003  | DSJ  | 23°45'N 109° 5'W |
| <i>Stenella attenuata</i>           | 1114               | 8/10/2003  | DSJ  | 23°18'N 108°50'W |
| <i>Stenella attenuata</i>           | 1106               | 8/09/2003  | DSJ  | 21°55'N 109°49'W |
| <i>Stenella attenuata</i>           | 1106               | 8/09/2003  | DSJ  | 21°55'N 109°49'W |
| <i>Stenella attenuata</i>           | 1203               | 8/16/2003  | DSJ  | 19°52'N 105°37'W |
| <i>Stenella attenuata</i>           | 1168               | 8/13/2003  | DSJ  | 25°59'N 107°45'W |
| <i>Stenella attenuata</i>           | 1106               | 8/09/2003  | DSJ  | 21°55'N 109°49'W |
| <i>Stenella attenuata</i>           | 1106               | 8/09/2003  | DSJ  | 21°55'N 109°49'W |
| <i>Stenella attenuata</i>           | 1106               | 8/09/2003  | DSJ  | 21°55'N 109°49'W |
| <i>Stenella attenuata</i>           | 1119               | 8/10/2003  | DSJ  | 23°45'N 109° 5'W |
| <i>Stenella attenuata</i>           | 1158               | 8/12/2003  | DSJ  | 25°31'N 109°26'W |
| <i>Stenella attenuata</i>           | 1158               | 8/12/2003  | DSJ  | 25°31'N 109°26'W |
| <i>Stenella attenuata</i>           | 1158               | 8/12/2003  | DSJ  | 25°31'N 109°26'W |
| <i>Stenella attenuata</i>           | 1106               | 8/09/2003  | DSJ  | 21°55'N 109°49'W |
| <i>Stenella attenuata</i>           | 1166               | 8/13/2003  | DSJ  | 24° 9'N 107°55'W |
| <i>Stenella attenuata</i>           | 1168               | 8/13/2003  | DSJ  | 25°59'N 107°45'W |
| <i>Stenella attenuata</i>           | 1106               | 8/09/2003  | DSJ  | 21°55'N 109°49'W |
| <i>Stenella attenuata</i>           | 1158               | 8/12/2003  | DSJ  | 25°31'N 109°26'W |
| <i>Stenella attenuata</i>           | 1634               | 11/14/2003 | DSJ  | 14°35'N 106°11'W |
| <i>Stenella attenuata</i>           | 1166               | 8/13/2003  | DSJ  | 24° 9'N 107°55'W |
| <i>Stenella attenuata</i>           | 1654               | 11/17/2003 | DSJ  | 17°41'N 102°13'W |
| <i>Stenella attenuata</i>           | 1634               | 11/14/2003 | DSJ  | 14°35'N 106°11'W |
| <i>Stenella attenuata</i>           | 1654               | 11/17/2003 | DSJ  | 17°41'N 102°13'W |
| <i>Stenella attenuata</i>           | 1634               | 11/14/2003 | DSJ  | 14°35'N 106°11'W |
| <i>Stenella attenuata</i>           | 1654               | 11/17/2003 | DSJ  | 17°41'N 102°13'W |
| <i>Stenella attenuata</i>           | 1654               | 11/17/2003 | DSJ  | 17°41'N 102°13'W |
| <i>Stenella attenuata</i>           | 1165               | 8/13/2003  | DSJ  | 24°11'N 108° 1'W |
| <i>Stenella attenuata</i>           | 1158               | 8/12/2003  | DSJ  | 25°31'N 109°26'W |
| <i>Stenella attenuata</i>           | 1634               | 11/14/2003 | DSJ  | 14°35'N 106°11'W |
| <i>Stenella attenuata</i>           | 758                | 12/01/2003 | MAC  | 14°38'N 109°48'W |
| <i>Stenella attenuata</i>           | 758                | 12/01/2003 | MAC  | 14°38'N 109°48'W |
| <i>Stenella attenuata graffmani</i> | 1412               | 9/28/2003  | DSJ  | 11°47'N 87°16'W  |
| <i>Stenella attenuata graffmani</i> | 1396               | 9/27/2003  | DSJ  | 12°39'N 88°43'W  |
| <i>Stenella attenuata graffmani</i> | 1396               | 9/27/2003  | DSJ  | 12°39'N 88°43'W  |
| <i>Stenella attenuata graffmani</i> | 1396               | 9/27/2003  | DSJ  | 12°39'N 88°43'W  |
| <i>Stenella attenuata graffmani</i> | 1396               | 9/27/2003  | DSJ  | 12°39'N 88°43'W  |
| <i>Stenella attenuata graffmani</i> | 1396               | 9/27/2003  | DSJ  | 12°39'N 88°43'W  |
| <i>Stenella attenuata graffmani</i> | 1400               | 9/27/2003  | DSJ  | 12°39'N 88°34'W  |
| <i>Stenella attenuata graffmani</i> | 1426               | 9/29/2003  | DSJ  | 10°22'N 85°57'W  |
| <i>Stenella attenuata graffmani</i> | 1426               | 9/29/2003  | DSJ  | 10°22'N 85°57'W  |
| <i>Stenella attenuata graffmani</i> | 1317               | 9/18/2003  | DSJ  | 16° 3'N 98°20'W  |
| <i>Stenella attenuata graffmani</i> | 1314               | 9/17/2003  | DSJ  | 16°40'N 99°45'W  |
| <i>Stenella attenuata graffmani</i> | 1400               | 9/27/2003  | DSJ  | 12°39'N 88°34'W  |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1167               | 8/13/2003  | DSJ  | 24° 6'N 107°52'W |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1315               | 9/17/2003  | DSJ  | 16°37'N 99°40'W  |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1317               | 9/18/2003  | DSJ  | 16° 3'N 98°20'W  |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock                       | Sighting<br>Number | Date       | Ship | Position         |
|-------------------------------------|--------------------|------------|------|------------------|
| <i>Stenella attenuata graffmani</i> | 1314               | 9/17/2003  | DSJ  | 16°40'N 99°45'W  |
| <i>Stenella attenuata graffmani</i> | 1316               | 9/17/2003  | DSJ  | 16°34'N 99°34'W  |
| <i>Stenella attenuata graffmani</i> | 1316               | 9/17/2003  | DSJ  | 16°34'N 99°34'W  |
| <i>Stenella attenuata graffmani</i> | 1316               | 9/17/2003  | DSJ  | 16°34'N 99°34'W  |
| <i>Stenella attenuata graffmani</i> | 1316               | 9/17/2003  | DSJ  | 16°34'N 99°34'W  |
| <i>Stenella attenuata graffmani</i> | 1317               | 9/18/2003  | DSJ  | 16° 3'N 98°20'W  |
| <i>Stenella attenuata graffmani</i> | 1317               | 9/18/2003  | DSJ  | 16° 3'N 98°20'W  |
| <i>Stenella attenuata graffmani</i> | 1317               | 9/18/2003  | DSJ  | 16° 3'N 98°20'W  |
| <i>Stenella attenuata graffmani</i> | 1306               | 9/06/2003  | DSJ  | 17°10'N 100°58'W |
| <i>Stenella attenuata graffmani</i> | 1531               | 10/29/2003 | DSJ  | 15° 6'N 93°44'W  |
| <i>Stenella attenuata graffmani</i> | 1514               | 10/28/2003 | DSJ  | 13°49'N 91°51'W  |
| <i>Stenella attenuata graffmani</i> | 1524               | 10/29/2003 | DSJ  | 15° 5'N 93° 7'W  |
| <i>Stenella attenuata graffmani</i> | 1524               | 10/29/2003 | DSJ  | 15° 5'N 93° 7'W  |
| <i>Stenella attenuata graffmani</i> | 1524               | 10/29/2003 | DSJ  | 15° 5'N 93° 7'W  |
| <i>Stenella attenuata graffmani</i> | 1525               | 10/29/2003 | DSJ  | 15° 6'N 93°12'W  |
| <i>Stenella attenuata graffmani</i> | 1509               | 10/28/2003 | DSJ  | 13°48'N 91°30'W  |
| <i>Stenella attenuata graffmani</i> | 1528               | 10/29/2003 | DSJ  | 15° 5'N 93°18'W  |
| <i>Stenella attenuata graffmani</i> | 1531               | 10/29/2003 | DSJ  | 15° 6'N 93°44'W  |
| <i>Stenella attenuata graffmani</i> | 1531               | 10/29/2003 | DSJ  | 15° 6'N 93°44'W  |
| <i>Stenella attenuata graffmani</i> | 1531               | 10/29/2003 | DSJ  | 15° 6'N 93°44'W  |
| <i>Stenella attenuata graffmani</i> | 1531               | 10/29/2003 | DSJ  | 15° 6'N 93°44'W  |
| <i>Stenella attenuata graffmani</i> | 1537               | 10/30/2003 | DSJ  | 16° 6'N 94°37'W  |
| <i>Stenella attenuata graffmani</i> | 1531               | 10/29/2003 | DSJ  | 15° 6'N 93°44'W  |
| <i>Stenella attenuata graffmani</i> | 1531               | 10/29/2003 | DSJ  | 15° 6'N 93°44'W  |
| <i>Stenella attenuata graffmani</i> | 1503               | 10/28/2003 | DSJ  | 13°50'N 90°53'W  |
| <i>Stenella attenuata graffmani</i> | 1652               | 11/17/2003 | DSJ  | 17°39'N 102° 4'W |
| <i>Stenella attenuata graffmani</i> | 1652               | 11/17/2003 | DSJ  | 17°39'N 102° 4'W |
| <i>Stenella attenuata graffmani</i> | 1653               | 11/17/2003 | DSJ  | 17°40'N 102°10'W |
| <i>Stenella attenuata graffmani</i> | 1658               | 11/17/2003 | DSJ  | 17°50'N 102°31'W |
| <i>Stenella attenuata graffmani</i> | 1661               | 11/22/2003 | DSJ  | 19° 4'N 104°28'W |
| <i>Stenella attenuata graffmani</i> | 1503               | 10/28/2003 | DSJ  | 13°50'N 90°53'W  |
| <i>Stenella attenuata graffmani</i> | 508                | 11/08/2003 | MAC  | 0° 1'N 80°30'W   |
| <i>Stenella attenuata graffmani</i> | 508                | 11/08/2003 | MAC  | 0° 1'N 80°30'W   |
| <i>Stenella attenuata graffmani</i> | 508                | 11/08/2003 | MAC  | 0° 1'N 80°30'W   |
| <i>Stenella attenuata graffmani</i> | 508                | 11/08/2003 | MAC  | 0° 1'N 80°30'W   |
| <i>Stenella attenuata graffmani</i> | 508                | 11/08/2003 | MAC  | 0° 1'N 80°30'W   |
| <i>Stenella attenuata graffmani</i> | 508                | 11/08/2003 | MAC  | 0° 1'N 80°30'W   |
| <i>Stenella attenuata graffmani</i> | 508                | 11/08/2003 | MAC  | 0° 1'N 80°30'W   |
| <i>Stenella attenuata graffmani</i> | 511                | 11/08/2003 | MAC  | 0°42'N 80°12'W   |
| <i>Stenella attenuata graffmani</i> | 513                | 11/09/2003 | MAC  | 0°58'N 80° 1'W   |
| <i>Stenella attenuata graffmani</i> | 515                | 11/09/2003 | MAC  | 0°57'N 80° 3'W   |
| <i>Stenella attenuata graffmani</i> | 515                | 11/09/2003 | MAC  | 0°57'N 80° 3'W   |
| <i>Stenella attenuata graffmani</i> | 515                | 11/09/2003 | MAC  | 0°57'N 80° 3'W   |
| <i>Stenella attenuata graffmani</i> | 515                | 11/09/2003 | MAC  | 0°57'N 80° 3'W   |
| <i>Stenella attenuata graffmani</i> | 517                | 11/09/2003 | MAC  | 1° 9'N 79°43'W   |
| <i>Stenella attenuata graffmani</i> | 517                | 11/09/2003 | MAC  | 1° 9'N 79°43'W   |
| <i>Stenella attenuata graffmani</i> | 517                | 11/09/2003 | MAC  | 1° 9'N 79°43'W   |
| <i>Stenella attenuata graffmani</i> | 517                | 11/09/2003 | MAC  | 1° 9'N 79°43'W   |
| <i>Stenella attenuata graffmani</i> | 517                | 11/09/2003 | MAC  | 1° 9'N 79°43'W   |
| <i>Stenella attenuata graffmani</i> | 517                | 11/09/2003 | MAC  | 1° 9'N 79°43'W   |
| <i>Stenella attenuata graffmani</i> | 517                | 11/09/2003 | MAC  | 1° 9'N 79°43'W   |
| <i>Stenella attenuata graffmani</i> | 517                | 11/09/2003 | MAC  | 1° 9'N 79°43'W   |
| <i>Stenella attenuata graffmani</i> | 545                | 11/14/2003 | MAC  | 7°25'N 78°20'W   |
| <i>Stenella attenuata graffmani</i> | 545                | 11/14/2003 | MAC  | 7°25'N 78°20'W   |
| <i>Stenella attenuata graffmani</i> | 550                | 11/14/2003 | MAC  | 7°43'N 78°36'W   |



Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock                                | Sighting<br>Number | Date       | Ship | Position         |
|--|--------------------|------------|------|------------------|
| <i>Stenella attenuata graffmani</i>          | 555                | 11/14/2003 | MAC  | 7°57'N 78°52'W   |
| <i>Stenella attenuata graffmani</i>          | 556                | 11/14/2003 | MAC  | 8° 0'N 78°55'W   |
| <i>Stenella attenuata graffmani</i>          | 567                | 11/20/2003 | MAC  | 7° 9'N 80°56'W   |
| <i>Stenella attenuata graffmani</i>          | 570                | 11/20/2003 | MAC  | 7°12'N 81° 1'W   |
| <i>Stenella attenuata graffmani</i>          | 570                | 11/20/2003 | MAC  | 7°12'N 81° 1'W   |
| <i>Stenella attenuata graffmani</i>          | 587                | 11/20/2003 | MAC  | 7° 6'N 81°40'W   |
| <i>Stenella attenuata graffmani</i>          | 587                | 11/20/2003 | MAC  | 7° 6'N 81°40'W   |
| <i>Stenella attenuata graffmani</i>          | 587                | 11/20/2003 | MAC  | 7° 6'N 81°40'W   |
| <i>Stenella attenuata graffmani</i>          | 587                | 11/20/2003 | MAC  | 7° 6'N 81°40'W   |
| <i>Stenella attenuata graffmani</i>          | 587                | 11/20/2003 | MAC  | 7° 6'N 81°40'W   |
| <i>Stenella attenuata graffmani</i>          | 587                | 11/20/2003 | MAC  | 7° 6'N 81°40'W   |
| <i>Stenella attenuata graffmani</i>          | 587                | 11/20/2003 | MAC  | 7° 6'N 81°40'W   |
| <i>Stenella attenuata graffmani</i>          | 588                | 11/20/2003 | MAC  | 7°18'N 81°59'W   |
| <i>Stenella attenuata graffmani</i>          | 588                | 11/20/2003 | MAC  | 7°18'N 81°59'W   |
| <i>Stenella attenuata graffmani</i>          | 597                | 11/21/2003 | MAC  | 8°24'N 83°37'W   |
| <i>Stenella attenuata graffmani</i>          | 597                | 11/21/2003 | MAC  | 8°24'N 83°37'W   |
| <i>Stenella attenuata graffmani</i>          | 597                | 11/21/2003 | MAC  | 8°24'N 83°37'W   |
| <i>Stenella attenuata graffmani</i>          | 601                | 11/21/2003 | MAC  | 8°32'N 83°52'W   |
| <i>Stenella attenuata graffmani</i>          | 602                | 11/21/2003 | MAC  | 8°40'N 83°58'W   |
| <i>Stenella attenuata graffmani</i>          | 604                | 11/21/2003 | MAC  | 8°55'N 84° 5'W   |
| <i>Stenella attenuata graffmani</i>          | 605                | 11/21/2003 | MAC  | 8°57'N 84° 8'W   |
| <i>Stenella attenuata graffmani</i>          | 605                | 11/21/2003 | MAC  | 8°57'N 84° 8'W   |
| <i>Stenella attenuata graffmani</i>          | 605                | 11/21/2003 | MAC  | 8°57'N 84° 8'W   |
| <i>Stenella attenuata</i> subsp.             | 1663               | 11/22/2003 | DSJ  | 19° 3'N 104°32'W |
| <i>Stenella attenuata</i> subsp.             | 1663               | 11/22/2003 | DSJ  | 19° 3'N 104°32'W |
| <i>Stenella attenuata</i> subsp.             | 1393               | 3/27/2003  | DSJ  | 12°40'N 89° 9'W  |
| <i>Stenella attenuata</i> subsp.             | 1665               | 11/22/2003 | DSJ  | 19° 4'N 104°38'W |
| <i>Stenella attenuata</i> subsp.             | 1393               | 3/27/2003  | DSJ  | 12°40'N 89° 9'W  |
| <i>Stenella attenuata</i> subsp.             | 1665               | 11/22/2003 | DSJ  | 19° 4'N 104°38'W |
| <i>Stenella attenuata</i> subsp.             | 1665               | 11/22/2003 | DSJ  | 19° 4'N 104°38'W |
| <i>Stenella attenuata</i> subsp.             | 1655               | 11/17/2003 | DSJ  | 17°40'N 102°16'W |
| <i>Stenella attenuata</i> subsp.             | 1202               | 8/16/2003  | DSJ  | 19°56'N 105°39'W |
| <i>Stenella attenuata</i> subsp.             | 1202               | 8/16/2003  | DSJ  | 19°56'N 105°39'W |
| <i>Stenella attenuata</i> subsp.             | 1665               | 11/22/2003 | DSJ  | 19° 4'N 104°38'W |
| <i>Stenella coeruleoalba</i>                 | 1230               | 8/21/2003  | DSJ  | 17°28'N 106° 0'W |
| <i>Stenella coeruleoalba</i>                 | 1070               | 8/08/2003  | DSJ  | 22°42'N 111° 8'W |
| <i>Stenella coeruleoalba</i>                 | 1230               | 8/21/2003  | DSJ  | 17°28'N 106° 0'W |
| <i>Stenella coeruleoalba</i>                 | 1070               | 8/08/2003  | DSJ  | 22°42'N 111° 8'W |
| <i>Stenella coeruleoalba</i>                 | 1070               | 8/08/2003  | DSJ  | 22°42'N 111° 8'W |
| <i>Stenella coeruleoalba</i>                 | 1225               | 8/21/2003  | DSJ  | 17°33'N 106°49'W |
| <i>Stenella longirostris centroamericana</i> | 1401               | 9/27/2003  | DSJ  | 12°35'N 88°32'W  |
| <i>Stenella longirostris centroamericana</i> | 1401               | 9/27/2003  | DSJ  | 12°35'N 88°32'W  |
| <i>Stenella longirostris centroamericana</i> | 1401               | 9/27/2003  | DSJ  | 12°35'N 88°32'W  |
| <i>Stenella longirostris centroamericana</i> | 1401               | 9/27/2003  | DSJ  | 12°35'N 88°32'W  |
| <i>Stenella longirostris centroamericana</i> | 1401               | 9/27/2003  | DSJ  | 12°35'N 88°32'W  |
| <i>Stenella longirostris centroamericana</i> | 1401               | 9/27/2003  | DSJ  | 12°35'N 88°32'W  |
| <i>Stenella longirostris centroamericana</i> | 1401               | 9/27/2003  | DSJ  | 12°35'N 88°32'W  |
| <i>Stenella longirostris orientalis</i>      | 1279               | 8/30/2003  | DSJ  | 11°20'N 119°35'W |
| <i>Stenella longirostris orientalis</i>      | 1324               | 9/19/2003  | DSJ  | 14°45'N 99° 6'W  |
| <i>Stenella longirostris orientalis</i>      | 1324               | 9/19/2003  | DSJ  | 14°45'N 99° 6'W  |
| <i>Stenella longirostris orientalis</i>      | 1324               | 9/19/2003  | DSJ  | 14°45'N 99° 6'W  |
| <i>Stenella longirostris orientalis</i>      | 1326               | 9/20/2003  | DSJ  | 13°23'N 101°26'W |
| <i>Stenella longirostris orientalis</i>      | 1339               | 9/22/2003  | DSJ  | 13°30'N 95°28'W  |
| <i>Stenella longirostris orientalis</i>      | 1557               | 10/31/2003 | DSJ  | 14°30'N 97°17'W  |
| <i>Stenella longirostris orientalis</i>      | 1571               | 11/01/2003 | DSJ  | 15°11'N 101° 6'W |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock                              | Sighting<br>Number | Date       | Ship | Position         |
|--|--------------------|------------|------|------------------|
| <i>Stenella longirostris orientalis</i>    | 1188               | 8/15/2003  | DSJ  | 21°27'N 106° 4'W |
| <i>Stenella longirostris orientalis</i>    | 1188               | 8/15/2003  | DSJ  | 21°27'N 106° 4'W |
| <i>Stenella longirostris orientalis</i>    | 1188               | 8/15/2003  | DSJ  | 21°27'N 106° 4'W |
| <i>Stenella longirostris orientalis</i>    | 1196               | 8/16/2003  | DSJ  | 20°14'N 106°29'W |
| <i>Stenella longirostris orientalis</i>    | 1196               | 8/16/2003  | DSJ  | 20°14'N 106°29'W |
| <i>Stenella longirostris orientalis</i>    | 1196               | 8/16/2003  | DSJ  | 20°14'N 106°29'W |
| <i>Stenella longirostris orientalis</i>    | 1279               | 8/30/2003  | DSJ  | 11°20'N 119°35'W |
| <i>Stenella longirostris orientalis</i>    | 1557               | 10/31/2003 | DSJ  | 14°30'N 97°17'W  |
| <i>Stenella longirostris orientalis</i>    | 1300               | 9/05/2003  | DSJ  | 17°16'N 102°46'W |
| <i>Stenella longirostris orientalis</i>    | 1553               | 10/31/2003 | DSJ  | 14°42'N 97° 5'W  |
| <i>Stenella longirostris orientalis</i>    | 1279               | 8/30/2003  | DSJ  | 11°20'N 119°35'W |
| <i>Stenella longirostris orientalis</i>    | 1279               | 8/30/2003  | DSJ  | 11°20'N 119°35'W |
| <i>Stenella longirostris orientalis</i>    | 1279               | 8/30/2003  | DSJ  | 11°20'N 119°35'W |
| <i>Stenella longirostris orientalis</i>    | 1196               | 8/16/2003  | DSJ  | 20°14'N 106°29'W |
| <i>Stenella longirostris orientalis</i>    | 1279               | 8/30/2003  | DSJ  | 11°20'N 119°35'W |
| <i>Stenella longirostris orientalis</i>    | 1339               | 9/22/2003  | DSJ  | 13°30'N 95°28'W  |
| <i>Stenella longirostris orientalis</i>    | 1279               | 8/30/2003  | DSJ  | 11°20'N 119°35'W |
| <i>Stenella longirostris orientalis</i>    | 1196               | 8/16/2003  | DSJ  | 20°14'N 106°29'W |
| <i>Stenella longirostris orientalis</i>    | 1492               | 10/22/2003 | DSJ  | 11°54'N 95°21'W  |
| <i>Stenella longirostris orientalis</i>    | 1492               | 10/22/2003 | DSJ  | 11°54'N 95°21'W  |
| <i>Stenella longirostris orientalis</i>    | 1492               | 10/22/2003 | DSJ  | 11°54'N 95°21'W  |
| <i>Stenella longirostris orientalis</i>    | 1494               | 10/23/2003 | DSJ  | 12°31'N 93°47'W  |
| <i>Stenella longirostris orientalis</i>    | 1196               | 8/16/2003  | DSJ  | 20°14'N 106°29'W |
| <i>Stenella longirostris orientalis</i>    | 1494               | 10/23/2003 | DSJ  | 12°31'N 93°47'W  |
| <i>Stenella longirostris orientalis</i>    | 1494               | 10/23/2003 | DSJ  | 12°31'N 93°47'W  |
| <i>Stenella longirostris orientalis</i>    | 1494               | 10/23/2003 | DSJ  | 12°31'N 93°47'W  |
| <i>Stenella longirostris orientalis</i>    | 1492               | 10/22/2003 | DSJ  | 11°54'N 95°21'W  |
| <i>Stenella longirostris</i> subsp.?       | 1178               | 8/14/2003  | DSJ  | 21°26'N 106° 6'W |
| <i>Stenella longirostris</i> subsp.?       | 1178               | 8/14/2003  | DSJ  | 21°26'N 106° 6'W |
| <i>Stenella longirostris</i> subsp.?       | 1178               | 8/14/2003  | DSJ  | 21°26'N 106° 6'W |
| <i>Stenella longirostris</i> subsp.?       | 1178               | 8/14/2003  | DSJ  | 21°26'N 106° 6'W |
| <i>Stenella longirostris</i> subsp.?       | 1178               | 8/14/2003  | DSJ  | 21°26'N 106° 6'W |
| <i>Stenella longirostris</i> subsp.?       | 1178               | 8/14/2003  | DSJ  | 21°26'N 106° 6'W |
| <i>Stenella longirostris</i> subsp.?       | 1170               | 8/13/2003  | DSJ  | 23°38'N 107°23'W |
| <i>Stenella longirostris</i> subsp.?       | 1172               | 8/14/2003  | DSJ  | 22°15'N 106°24'W |
| <i>Stenella longirostris</i> subsp.?       | 1172               | 8/14/2003  | DSJ  | 22°15'N 106°24'W |
| <i>Stenella longirostris</i> subsp.?       | 1172               | 8/14/2003  | DSJ  | 22°15'N 106°24'W |
| <i>Stenella longirostris</i> subsp.?       | 1170               | 8/13/2003  | DSJ  | 23°38'N 107°23'W |
| <i>Stenella longirostris</i> subsp.?       | 1178               | 8/14/2003  | DSJ  | 21°26'N 106° 6'W |
| <i>Stenella longirostris</i> subsp.?       | 1172               | 8/14/2003  | DSJ  | 22°15'N 106°24'W |
| <i>Stenella longirostris</i> subsp.?       | 1170               | 8/13/2003  | DSJ  | 23°38'N 107°23'W |
| <i>Stenella longirostris</i> subsp.?       | 1170               | 8/13/2003  | DSJ  | 23°38'N 107°23'W |
| <i>Stenella longirostris</i> subsp.?       | 1170               | 8/13/2003  | DSJ  | 23°38'N 107°23'W |
| <i>Stenella longirostris</i> subsp.?       | 1172               | 8/14/2003  | DSJ  | 22°15'N 106°24'W |
| <i>Stenella longirostris</i> subsp.?       | 1172               | 8/14/2003  | DSJ  | 22°15'N 106°24'W |
| <i>Stenella longirostris</i> subsp.?       | 1172               | 8/14/2003  | DSJ  | 22°15'N 106°24'W |
| <i>Stenella longirostris</i> subsp.?       | 1172               | 8/14/2003  | DSJ  | 22°15'N 106°24'W |
| <i>Stenella longirostris</i> subsp.?       | 1170               | 8/13/2003  | DSJ  | 23°38'N 107°23'W |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock                              | Sighting<br>Number | Date       | Ship | Position         |
|--|--------------------|------------|------|------------------|
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Stenella orientalis/centroamericana</i> | 1365               | 9/24/2003  | DSJ  | 13° 8'N 90°21'W  |
| <i>Steno bredanensis</i>                   | 1643               | 11/16/2003 | DSJ  | 16°56'N 101° 4'W |
| <i>Steno bredanensis</i>                   | 1331               | 9/21/2003  | DSJ  | 13° 9'N 99°11'W  |
| <i>Steno bredanensis</i>                   | 1236               | 8/22/2003  | DSJ  | 16°56'N 108° 4'W |
| <i>Steno bredanensis</i>                   | 1579               | 11/02/2003 | DSJ  | 13°30'N 104° 4'W |
| <i>Steno bredanensis</i>                   | 1331               | 9/21/2003  | DSJ  | 13° 9'N 99°11'W  |
| <i>Steno bredanensis</i>                   | 1441               | 10/10/2003 | DSJ  | 6° 4'N 90°18'W   |
| <i>Steno bredanensis</i>                   | 1388               | 9/26/2003  | DSJ  | 11°14'N 88°36'W  |
| <i>Steno bredanensis</i>                   | 1388               | 9/26/2003  | DSJ  | 11°14'N 88°36'W  |
| <i>Steno bredanensis</i>                   | 1204               | 8/16/2003  | DSJ  | 19°51'N 105°36'W |
| <i>Steno bredanensis</i>                   | 1205               | 8/16/2003  | DSJ  | 19°45'N 105°27'W |
| <i>Steno bredanensis</i>                   | 1579               | 11/02/2003 | DSJ  | 13°30'N 104° 4'W |
| <i>Steno bredanensis</i>                   | 1579               | 11/02/2003 | DSJ  | 13°30'N 104° 4'W |
| <i>Steno bredanensis</i>                   | 1331               | 9/21/2003  | DSJ  | 13° 9'N 99°11'W  |
| <i>Tursiops truncatus</i>                  | 1163               | 8/13/2003  | DSJ  | 24°18'N 108° 7'W |
| <i>Tursiops truncatus</i>                  | 1241               | 8/22/2003  | DSJ  | 16°42'N 108°46'W |
| <i>Tursiops truncatus</i>                  | 1163               | 8/13/2003  | DSJ  | 24°18'N 108° 7'W |
| <i>Tursiops truncatus</i>                  | 1241               | 8/22/2003  | DSJ  | 16°42'N 108°46'W |
| <i>Tursiops truncatus</i>                  | 1241               | 8/22/2003  | DSJ  | 16°42'N 108°46'W |
| <i>Tursiops truncatus</i>                  | 1163               | 8/13/2003  | DSJ  | 24°18'N 108° 7'W |
| <i>Tursiops truncatus</i>                  | 1490               | 10/21/2003 | DSJ  | 11°36'N 97°39'W  |
| <i>Tursiops truncatus</i>                  | 1176               | 8/14/2003  | DSJ  | 21°43'N 106°11'W |
| <i>Tursiops truncatus</i>                  | 1176               | 8/14/2003  | DSJ  | 21°43'N 106°11'W |
| <i>Tursiops truncatus</i>                  | 1176               | 8/14/2003  | DSJ  | 21°43'N 106°11'W |
| <i>Tursiops truncatus</i>                  | 1045               | 8/04/2003  | DSJ  | 24°48'N 112°30'W |
| <i>Tursiops truncatus</i>                  | 1186               | 8/15/2003  | DSJ  | 21°41'N 107°54'W |
| <i>Tursiops truncatus</i>                  | 1578               | 11/02/2003 | DSJ  | 13°31'N 104° 0'W |
| <i>Tursiops truncatus</i>                  | 1566               | 11/01/2003 | DSJ  | 15°16'N 100°48'W |
| <i>Tursiops truncatus</i>                  | 1490               | 10/21/2003 | DSJ  | 11°36'N 97°39'W  |
| <i>Tursiops truncatus</i>                  | 1163               | 8/13/2003  | DSJ  | 24°18'N 108° 7'W |
| <i>Tursiops truncatus</i>                  | 1490               | 10/21/2003 | DSJ  | 11°36'N 97°39'W  |
| <i>Tursiops truncatus</i>                  | 1293               | 8/31/2003  | DSJ  | 12°24'N 116°37'W |
| <i>Tursiops truncatus</i>                  | 1496               | 10/23/2003 | DSJ  | 12°49'N 93°16'W  |
| <i>Tursiops truncatus</i>                  | 1234               | 8/22/2003  | DSJ  | 17° 0'N 107°41'W |
| <i>Tursiops truncatus</i>                  | 1562               | 10/31/2003 | DSJ  | 14°47'N 97°52'W  |
| <i>Tursiops truncatus</i>                  | 1496               | 10/23/2003 | DSJ  | 12°49'N 93°16'W  |
| <i>Tursiops truncatus</i>                  | 1163               | 8/13/2003  | DSJ  | 24°18'N 108° 7'W |
| <i>Tursiops truncatus</i>                  | 1497               | 10/23/2003 | DSJ  | 12°53'N 93°11'W  |
| <i>Tursiops truncatus</i>                  | 1353               | 9/24/2003  | DSJ  | 13°37'N 90°46'W  |
| <i>Tursiops truncatus</i>                  | 1285               | 8/30/2003  | DSJ  | 11°36'N 118°59'W |
| <i>Tursiops truncatus</i>                  | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Tursiops truncatus</i>                  | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Tursiops truncatus</i>                  | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Tursiops truncatus</i>                  | 1129               | 8/11/2003  | DSJ  | 25°36'N 110°22'W |
| <i>Tursiops truncatus</i>                  | 1336               | 9/22/2003  | DSJ  | 13°28'N 95°45'W  |
| <i>Tursiops truncatus</i>                  | 1336               | 9/22/2003  | DSJ  | 13°28'N 95°45'W  |
| <i>Tursiops truncatus</i>                  | 1336               | 9/22/2003  | DSJ  | 13°28'N 95°45'W  |
| <i>Tursiops truncatus</i>                  | 1689               | 11/24/2003 | DSJ  | 17°53'N 110°33'W |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock             | Sighting<br>Number | Date       | Ship | Position         |
|---------------------------|--------------------|------------|------|------------------|
| <i>Tursiops truncatus</i> | 1345               | 9/23/2003  | DSJ  | 13°32'N 93°41'W  |
| <i>Tursiops truncatus</i> | 1345               | 9/23/2003  | DSJ  | 13°32'N 93°41'W  |
| <i>Tursiops truncatus</i> | 1140               | 8/11/2003  | DSJ  | 26°16'N 110°51'W |
| <i>Tursiops truncatus</i> | 1345               | 9/23/2003  | DSJ  | 13°32'N 93°41'W  |
| <i>Tursiops truncatus</i> | 1146               | 8/11/2003  | DSJ  | 26°33'N 111° 5'W |
| <i>Tursiops truncatus</i> | 1711               | 12/01/2003 | DSJ  | 19°34'N 113°40'W |
| <i>Tursiops truncatus</i> | 1711               | 12/01/2003 | DSJ  | 19°34'N 113°40'W |
| <i>Tursiops truncatus</i> | 1092               | 8/09/2003  | DSJ  | 21°41'N 110°11'W |
| <i>Tursiops truncatus</i> | 1065               | 8/08/2003  | DSJ  | 23° 5'N 110°38'W |
| <i>Tursiops truncatus</i> | 1063               | 8/08/2003  | DSJ  | 23°15'N 110°35'W |
| <i>Tursiops truncatus</i> | 1366               | 9/25/2003  | DSJ  | 12° 5'N 89°43'W  |
| <i>Tursiops truncatus</i> | 1368               | 9/25/2003  | DSJ  | 11°38'N 89°44'W  |
| <i>Tursiops truncatus</i> | 1368               | 9/25/2003  | DSJ  | 11°38'N 89°44'W  |
| <i>Tursiops truncatus</i> | 1063               | 8/08/2003  | DSJ  | 23°15'N 110°35'W |
| <i>Tursiops truncatus</i> | 1062               | 8/08/2003  | DSJ  | 23°16'N 110°42'W |
| <i>Tursiops truncatus</i> | 1061               | 8/08/2003  | DSJ  | 23°20'N 110°45'W |
| <i>Tursiops truncatus</i> | 1060               | 8/07/2003  | DSJ  | 24°11'N 111°52'W |
| <i>Tursiops truncatus</i> | 1345               | 9/23/2003  | DSJ  | 13°32'N 93°41'W  |
| <i>Tursiops truncatus</i> | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Tursiops truncatus</i> | 1265               | 8/27/2003  | DSJ  | 12°38'N 123°20'W |
| <i>Tursiops truncatus</i> | 1265               | 8/27/2003  | DSJ  | 12°38'N 123°20'W |
| <i>Tursiops truncatus</i> | 1265               | 8/27/2003  | DSJ  | 12°38'N 123°20'W |
| <i>Tursiops truncatus</i> | 1265               | 8/27/2003  | DSJ  | 12°38'N 123°20'W |
| <i>Tursiops truncatus</i> | 1505               | 10/28/2003 | DSJ  | 13°49'N 91°10'W  |
| <i>Tursiops truncatus</i> | 1505               | 10/28/2003 | DSJ  | 13°49'N 91°10'W  |
| <i>Tursiops truncatus</i> | 1163               | 8/13/2003  | DSJ  | 24°18'N 108° 7'W |
| <i>Tursiops truncatus</i> | 1162               | 8/13/2003  | DSJ  | 24°22'N 108° 9'W |
| <i>Tursiops truncatus</i> | 1176               | 8/14/2003  | DSJ  | 21°43'N 106°11'W |
| <i>Tursiops truncatus</i> | 1293               | 8/31/2003  | DSJ  | 12°24'N 116°37'W |
| <i>Tursiops truncatus</i> | 1152               | 8/12/2003  | DSJ  | 26° 4'N 109°54'W |
| <i>Tursiops truncatus</i> | 1152               | 8/12/2003  | DSJ  | 26° 4'N 109°54'W |
| <i>Tursiops truncatus</i> | 1137               | 8/11/2003  | DSJ  | 26°13'N 119°49'W |
| <i>Tursiops truncatus</i> | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Tursiops truncatus</i> | 1265               | 8/27/2003  | DSJ  | 12°38'N 123°20'W |
| <i>Tursiops truncatus</i> | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Tursiops truncatus</i> | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Tursiops truncatus</i> | 1152               | 8/12/2003  | DSJ  | 26° 4'N 109°54'W |
| <i>Tursiops truncatus</i> | 1146               | 8/11/2003  | DSJ  | 26°33'N 111° 5'W |
| <i>Tursiops truncatus</i> | 1129               | 8/11/2003  | DSJ  | 25°36'N 110°22'W |
| <i>Tursiops truncatus</i> | 1150               | 8/11/2003  | DSJ  | 26°42'N 111° 6'W |
| <i>Tursiops truncatus</i> | 1150               | 8/11/2003  | DSJ  | 26°42'N 111° 6'W |
| <i>Tursiops truncatus</i> | 1150               | 8/11/2003  | DSJ  | 26°42'N 111° 6'W |
| <i>Tursiops truncatus</i> | 1150               | 8/11/2003  | DSJ  | 26°42'N 111° 6'W |
| <i>Tursiops truncatus</i> | 1532               | 10/29/2003 | DSJ  | 15° 9'N 94° 3'W  |
| <i>Tursiops truncatus</i> | 366                | 10/11/2003 | MAC  | 0°42'S 90°42'W   |
| <i>Tursiops truncatus</i> | 366                | 10/11/2003 | MAC  | 0°42'S 90°42'W   |
| <i>Tursiops truncatus</i> | 366                | 10/11/2003 | MAC  | 0°42'S 90°42'W   |
| <i>Tursiops truncatus</i> | 366                | 10/11/2003 | MAC  | 0°42'S 90°42'W   |
| <i>Tursiops truncatus</i> | 366                | 10/11/2003 | MAC  | 0°42'S 90°42'W   |
| <i>Tursiops truncatus</i> | 366                | 10/11/2003 | MAC  | 0°42'S 90°42'W   |
| <i>Tursiops truncatus</i> | 366                | 10/11/2003 | MAC  | 0°42'S 90°42'W   |
| <i>Tursiops truncatus</i> | 423                | 10/22/2003 | MAC  | 11°57'S 88°11'W  |
| <i>Tursiops truncatus</i> | 423                | 10/22/2003 | MAC  | 11°57'S 88°11'W  |
| <i>Tursiops truncatus</i> | 423                | 10/22/2003 | MAC  | 11°57'S 88°11'W  |
| <i>Tursiops truncatus</i> | 446                | 11/01/2003 | MAC  | 10°27'S 78°29'W  |

Table 14. Identity and sample location of skin biopsy samples (continued).

| Species/Stock             | Sighting<br>Number | Date       | Ship | Position       |
|---------------------------|--------------------|------------|------|----------------|
| <i>Tursiops truncatus</i> | 449                | 11/02/2003 | MAC  | 9°59'S 78°56'W |
| <i>Tursiops truncatus</i> | 449                | 11/02/2003 | MAC  | 9°59'S 78°56'W |
| <i>Tursiops truncatus</i> | 449                | 11/02/2003 | MAC  | 9°59'S 78°56'W |
| <i>Tursiops truncatus</i> | 449                | 11/02/2003 | MAC  | 9°59'S 78°56'W |
| <i>Tursiops truncatus</i> | 449                | 11/02/2003 | MAC  | 9°59'S 78°56'W |
| <i>Tursiops truncatus</i> | 449                | 11/02/2003 | MAC  | 9°59'S 78°56'W |
| <i>Tursiops truncatus</i> | 449                | 11/02/2003 | MAC  | 9°59'S 78°56'W |
| <i>Tursiops truncatus</i> | 494                | 11/06/2003 | MAC  | 3°28'S 81° 8'W |
| <i>Tursiops truncatus</i> | 494                | 11/06/2003 | MAC  | 3°28'S 81° 8'W |
| <i>Tursiops truncatus</i> | 494                | 11/06/2003 | MAC  | 3°28'S 81° 8'W |
| <i>Tursiops truncatus</i> | 516                | 11/09/2003 | MAC  | 1°13'N 80° 1'W |
| <i>Tursiops truncatus</i> | 516                | 11/09/2003 | MAC  | 1°13'N 80° 1'W |
| <i>Tursiops truncatus</i> | 516                | 11/09/2003 | MAC  | 1°13'N 80° 1'W |
| <i>Tursiops truncatus</i> | 516                | 11/09/2003 | MAC  | 1°13'N 80° 1'W |
| <i>Tursiops truncatus</i> | 531                | 11/13/2003 | MAC  | 6°23'N 80°43'W |
| <i>Tursiops truncatus</i> | 531                | 11/13/2003 | MAC  | 6°23'N 80°43'W |
| <i>Tursiops truncatus</i> | 552                | 11/14/2003 | MAC  | 7°51'N 78°49'W |
| <i>Tursiops truncatus</i> | 580                | 11/20/2003 | MAC  | 7°20'N 81°18'W |
| <i>Tursiops truncatus</i> | 586                | 11/20/2003 | MAC  | 7° 6'N 81°29'W |
| <i>Tursiops truncatus</i> | 586                | 11/20/2003 | MAC  | 7° 6'N 81°29'W |
| <i>Tursiops truncatus</i> | 586                | 11/20/2003 | MAC  | 7° 6'N 81°29'W |
| <i>Tursiops truncatus</i> | 607                | 11/21/2003 | MAC  | 9° 8'N 84°15'W |
| <i>Tursiops truncatus</i> | 607                | 11/21/2003 | MAC  | 9° 8'N 84°15'W |
| <i>Tursiops truncatus</i> | 632                | 11/23/2003 | MAC  | 8°52'N 88° 2'W |
| <i>Tursiops truncatus</i> | 632                | 11/23/2003 | MAC  | 8°52'N 88° 2'W |

Table 15. Summary of skin biopsy samples of cetaceans obtained during STAR03, listed by number of samples.

| Species/stocks                               | Total |
|--|-------|
| <i>Tursiops truncatus</i>                    | 114   |
| <i>Stenella attenuata graffmani</i>          | 102   |
| <i>Stenella attenuata</i>                    | 63    |
| <i>Globicephala macrorhynchus</i>            | 48    |
| <i>Stenella longirostris orientalis</i>      | 35    |
| <i>Delphinus capensis</i>                    | 32    |
| <i>Orcinus orca</i>                          | 30    |
| <i>Stenella longirostris</i> subsp.?         | 24    |
| <i>Grampus griseus</i>                       | 17    |
| <i>Balaenoptera musculus</i>                 | 16    |
| <i>Steno bredanensis</i>                     | 13    |
| <i>Stenella orientalis/centroamericana</i>   | 12    |
| <i>Balaenoptera edeni</i>                    | 11    |
| <i>Stenella attenuata</i> subsp.             | 11    |
| <i>Delphinus delphis</i>                     | 10    |
| <i>Pseudorca crassidens</i>                  | 7     |
| <i>Stenella longirostris centroamericana</i> | 7     |
| <i>Lagenorhynchus obscurus</i>               | 6     |
| <i>Stenella coeruleoalba</i>                 | 6     |
| <i>Physeter macrocephalus</i>                | 4     |
| <i>Megaptera novaeangliae</i>                | 2     |
| <i>Balaenoptera physalus</i>                 | 1     |
| <i>Berardius bairdii</i>                     | 1     |
| <i>Delphinus</i> sp.                         | 1     |
| <i>Mesoplodon peruvianus</i>                 | 1     |
| TOTAL  | 574   |

Table 16. Number of cetacean schools for which behavior observations were recorded during STAR03.

| Sighting category                           | Total |
|---|-------|
| <i>Delphinus capensis</i>                   | 9     |
| <i>Delphinus delphis</i>                    | 85    |
| <i>Delphinus</i> sp.                        | 3     |
| <i>Globicephala macrorhynchus</i>           | 11    |
| <i>Globicephala</i> sp.                     | 7     |
| <i>Grampus griseus</i>                      | 11    |
| <i>Indopacetus pacificus</i>                | 1     |
| <i>Lagenorhynchus obscurus</i>              | 1     |
| <i>Megaptera novaeangliae</i>               | 1     |
| <i>Orcinus orca</i>                         | 2     |
| <i>Pseudorca crassidens</i>                 | 4     |
| <i>Stenella attenuata</i> (offshore)        | 143   |
| <i>Stenella attenuata</i> (unid. subsp.)    | 37    |
| <i>Stenella attenuata graffmani</i>         | 41    |
| <i>Stenella coeruleoalba</i>                | 160   |
| <i>Stenella longirostris</i> (southwestern) | 8     |
| <i>Stenella longirostris</i> (unid. subsp.) | 8     |
| <i>Stenella longirostris</i> (whitebelly)   | 23    |
| <i>Stenella longirostris orientalis</i>     | 68    |
| <i>Steno bredanensis</i>                    | 30    |
| <i>Tursiops truncatus</i>                   | 143   |
| Unidentified dolphin or porpoise            | 11    |
| Total                                       | 807   |

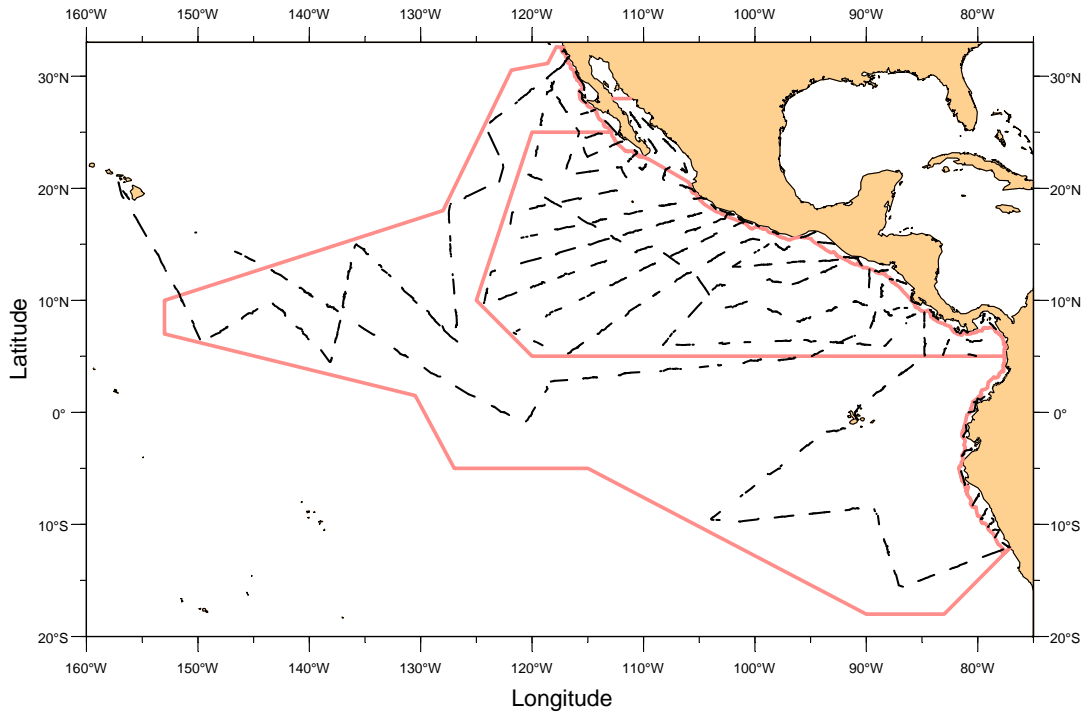


Figure 1. STAR03 survey tracklines and sampling strata boundaries for both NOAA ships *McArthur II* and *David Starr Jordan*.



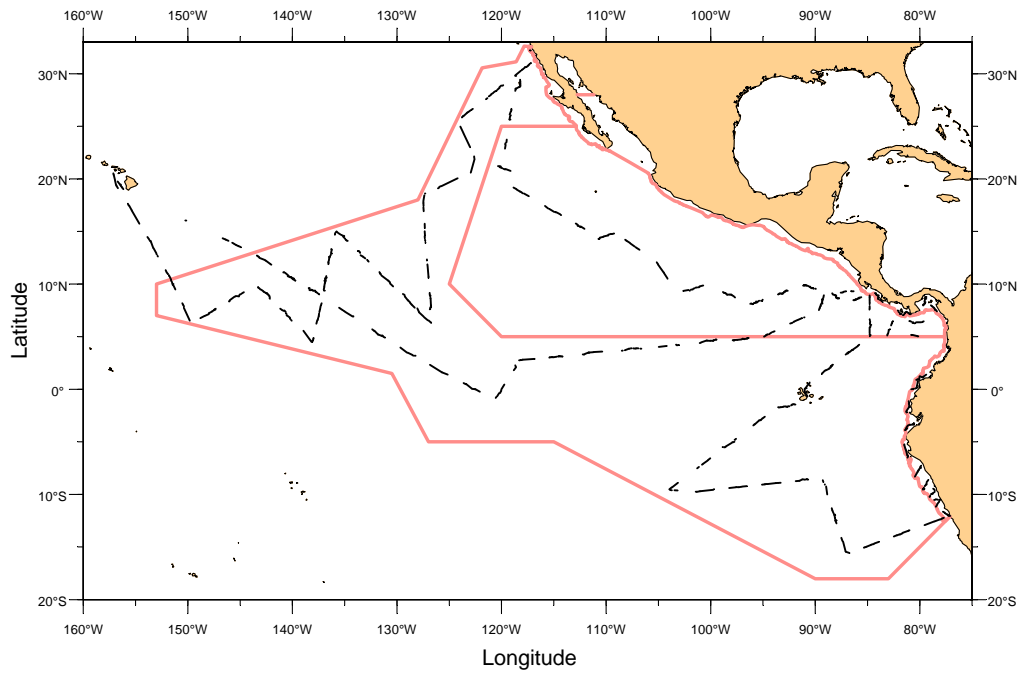


Figure 2. STAR03 survey tracklines for NOAA Ship *McArthur II*.

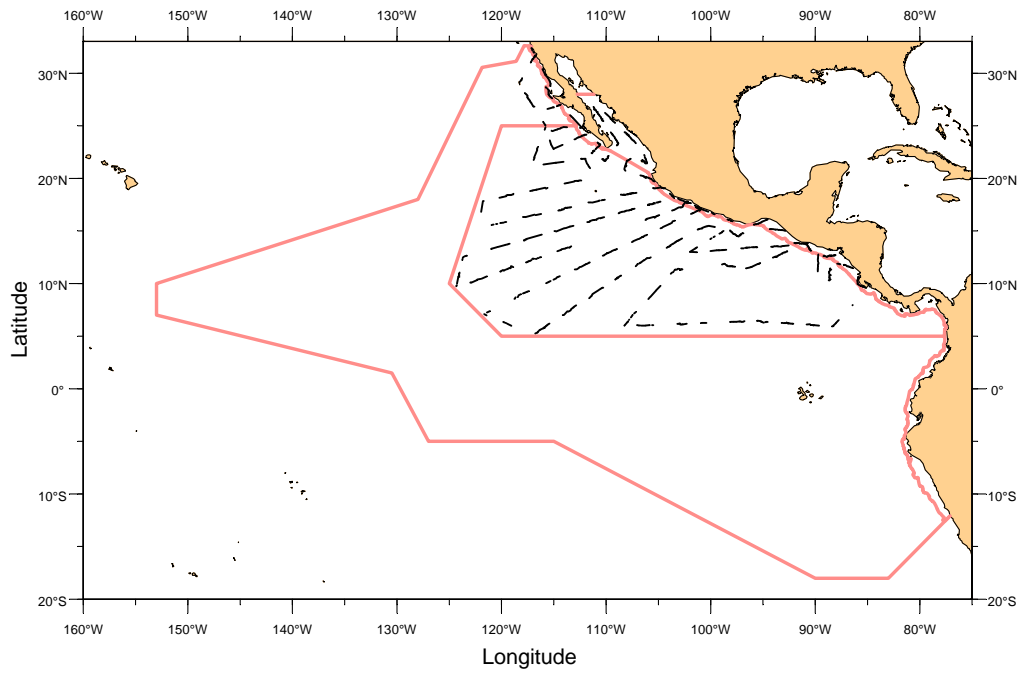


Figure 3. STAR03 survey tracklines for NOAA Ship *David Starr Jordan*.

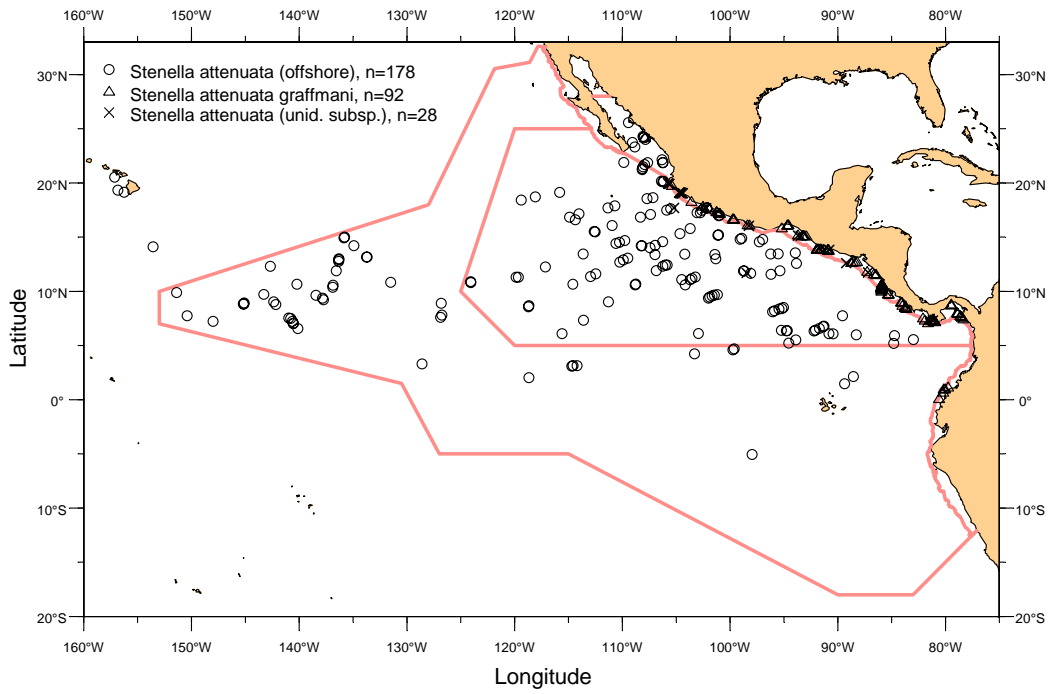


Figure 4. Spotted dolphin sightings, STAR03.

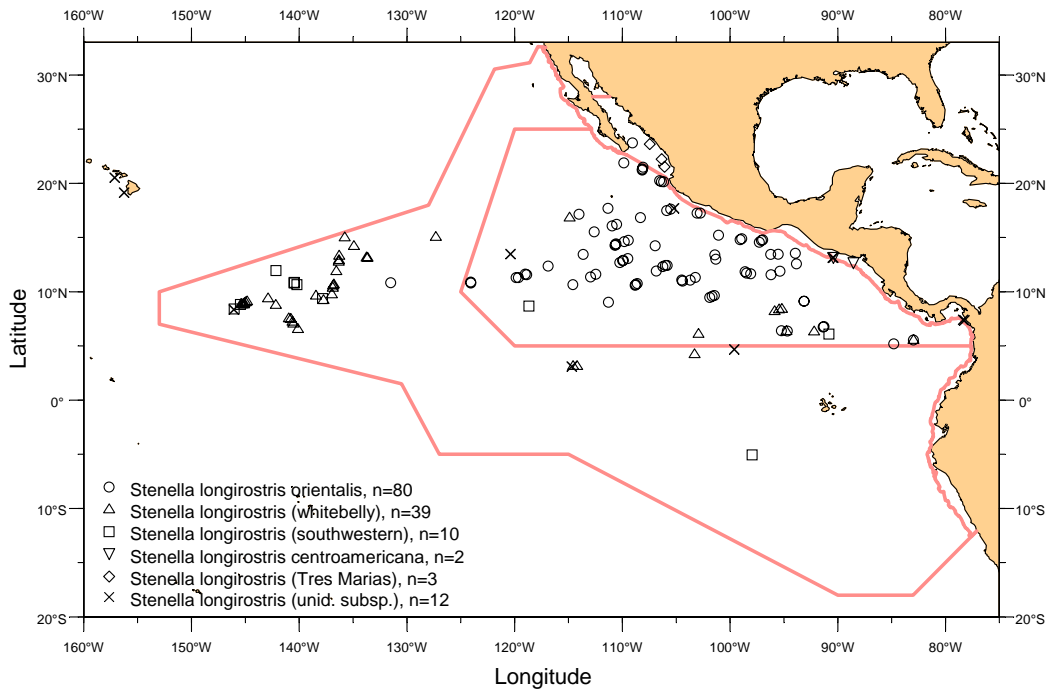


Figure 5. Spinner dolphin sightings, STAR03.

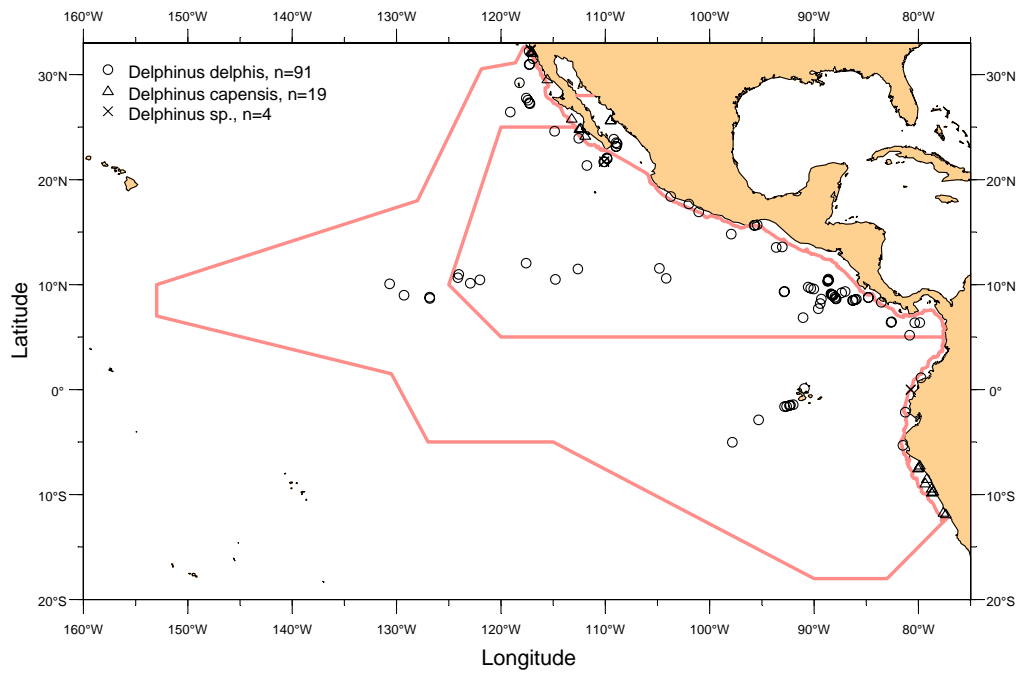


Figure 6. Common dolphin sightings, STAR03.

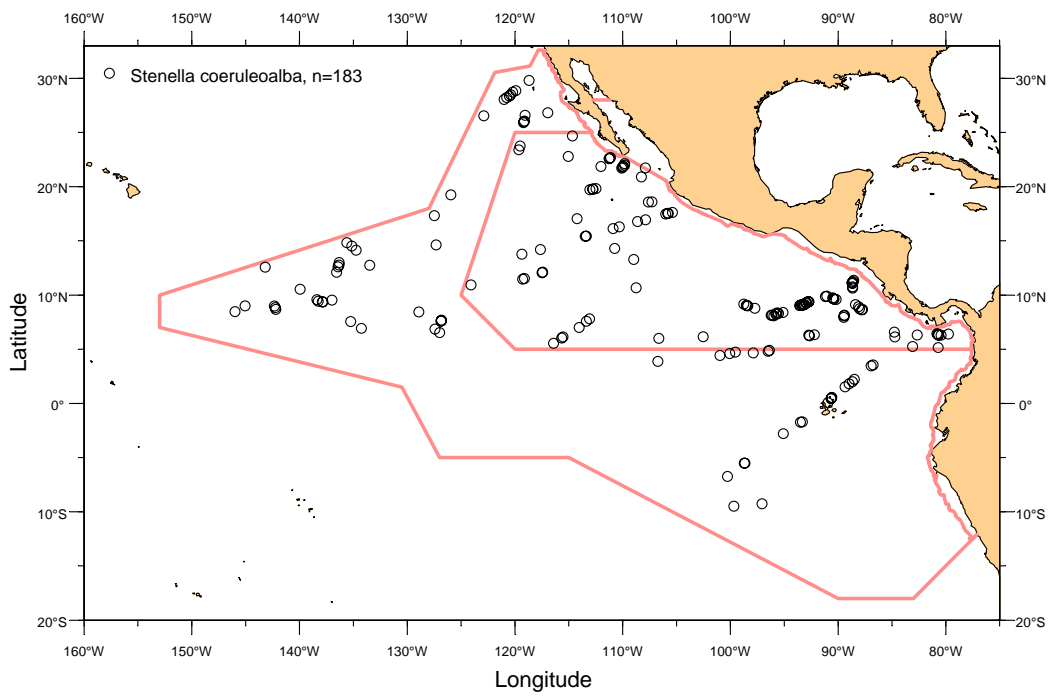


Figure 7. Striped dolphin sightings, STAR03.

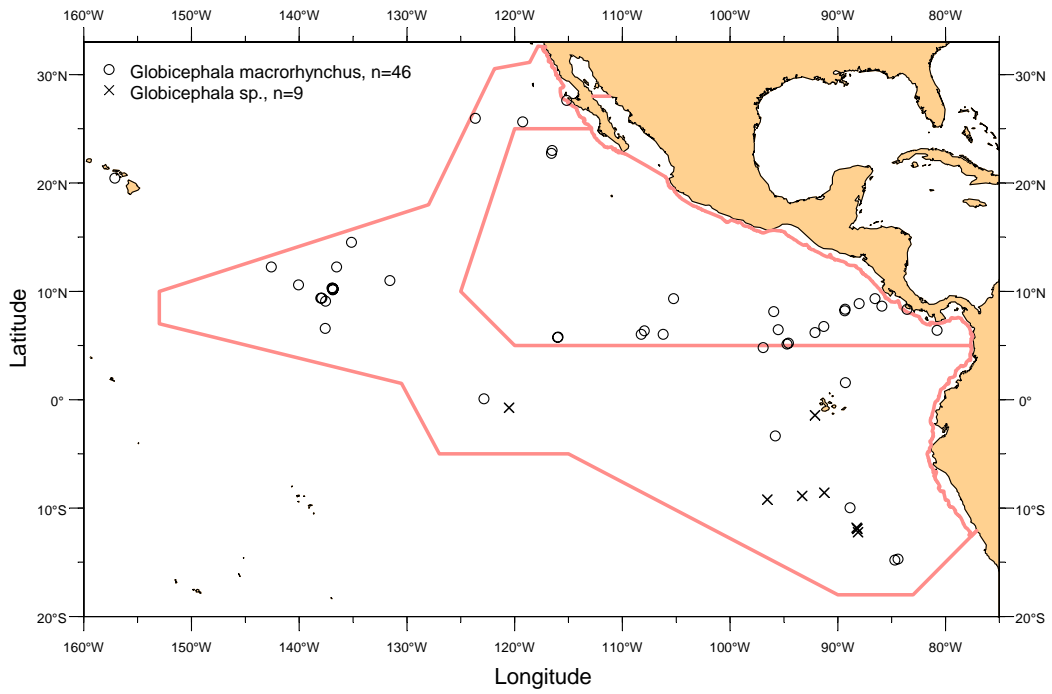


Figure 8. Pilot whale sightings, STAR03.

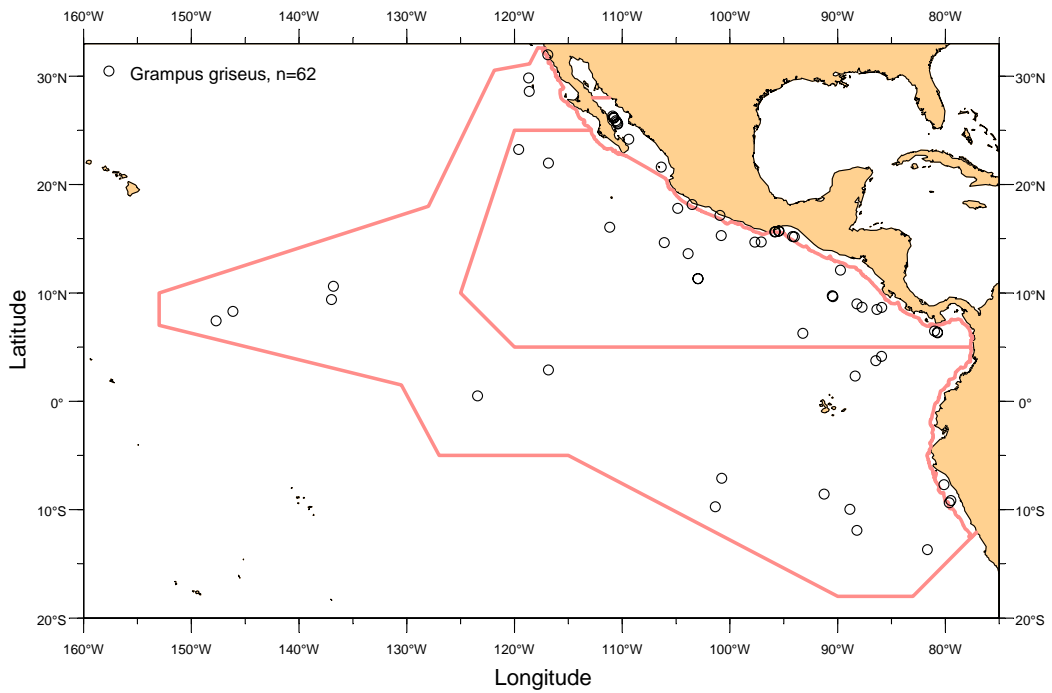


Figure 9. Risso's dolphin sightings, STAR03.

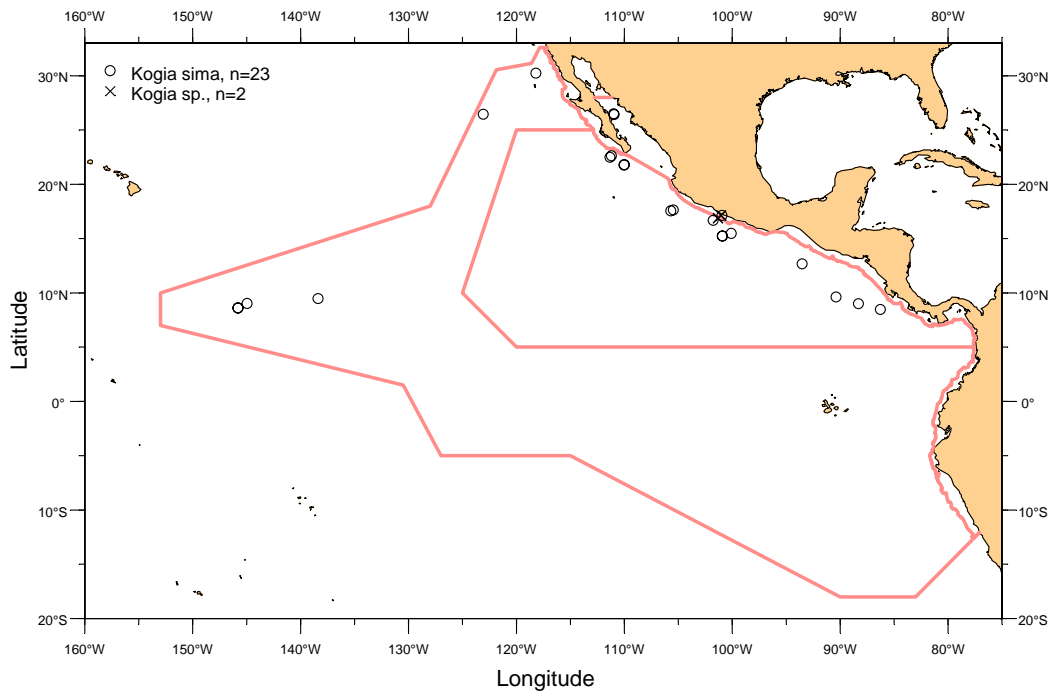


Figure 10. Dwarf sperm whale and unidentified *Kogia* sp. sightings, STAR03.

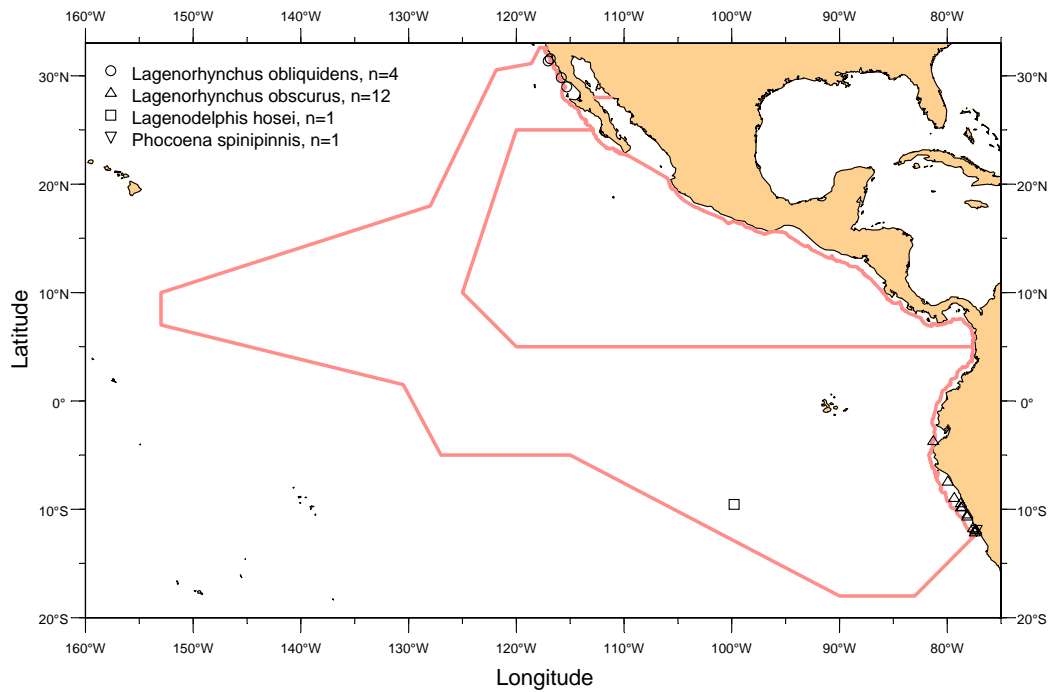


Figure 11. Pacific white-sided, dusky, Fraser's and Burmeister's sightings, STAR03.

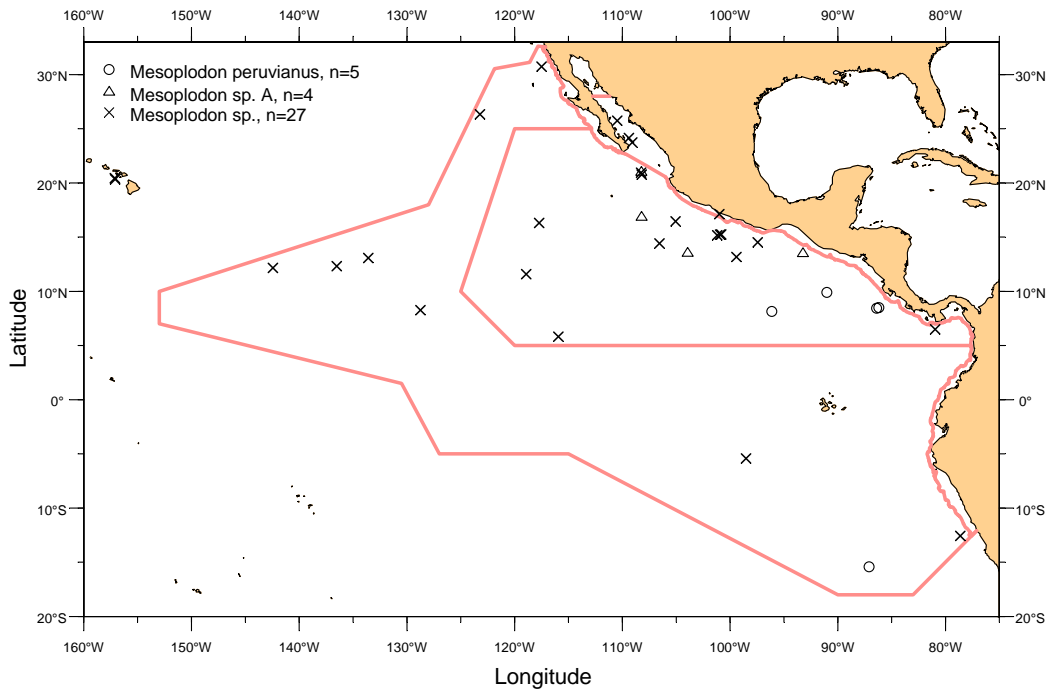


Figure 12. Beaked whale sightings of the genus *Mesoplodon* sightings, STAR03.

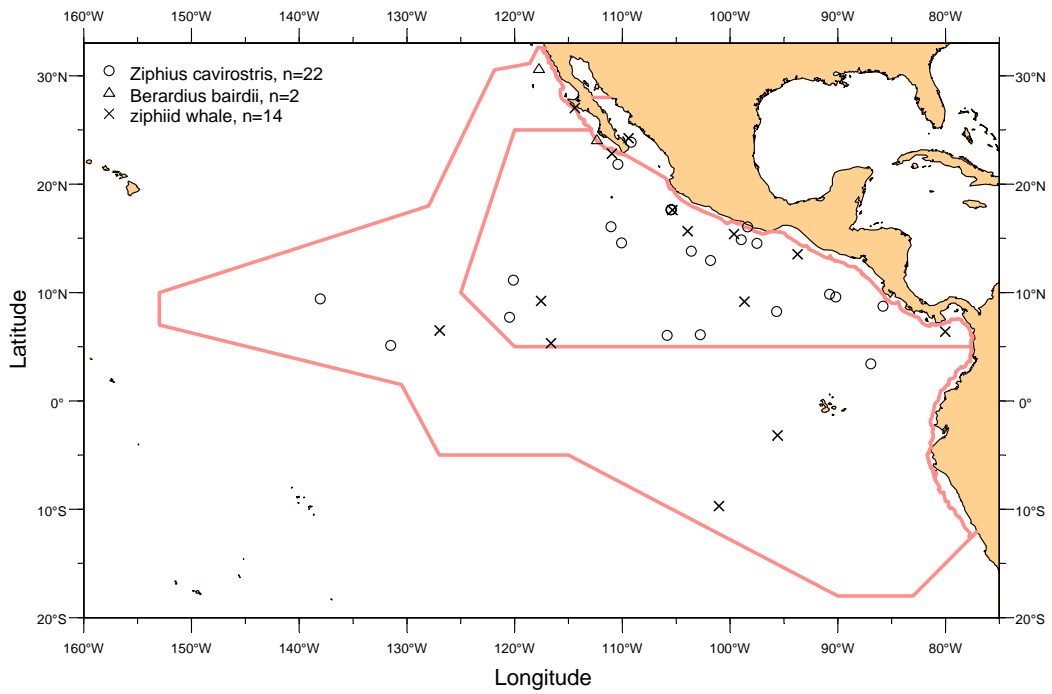


Figure 13. Cuvier's, Baird's and unident. Ziphiid beaked whale sightings, STAR03.

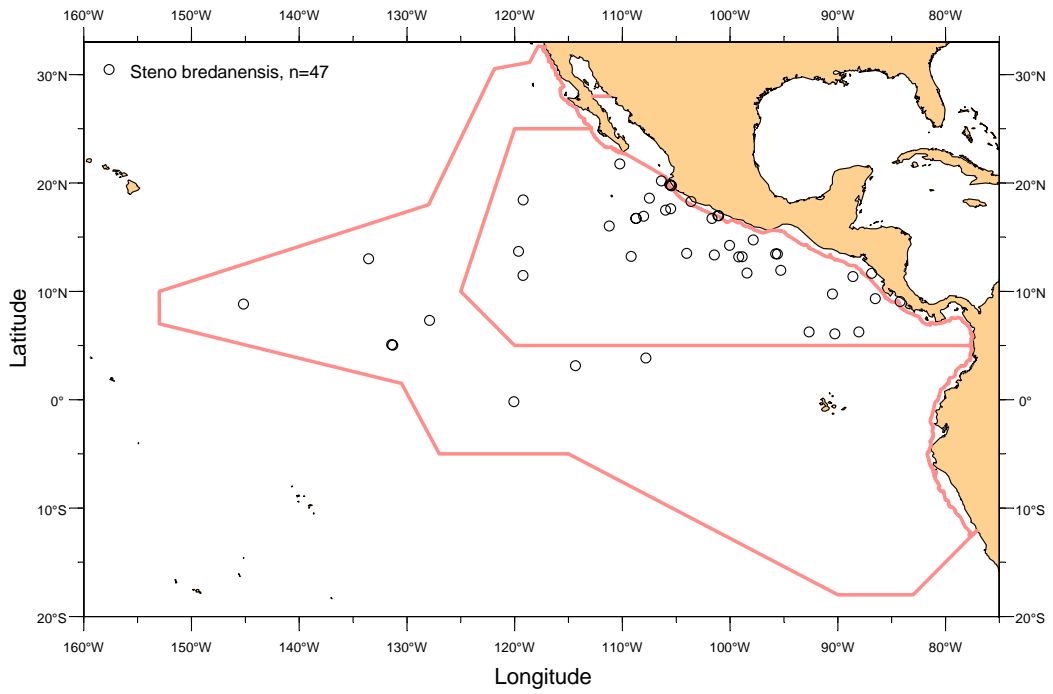


Figure 14. Rough-toothed dolphin sightings, STAR03.

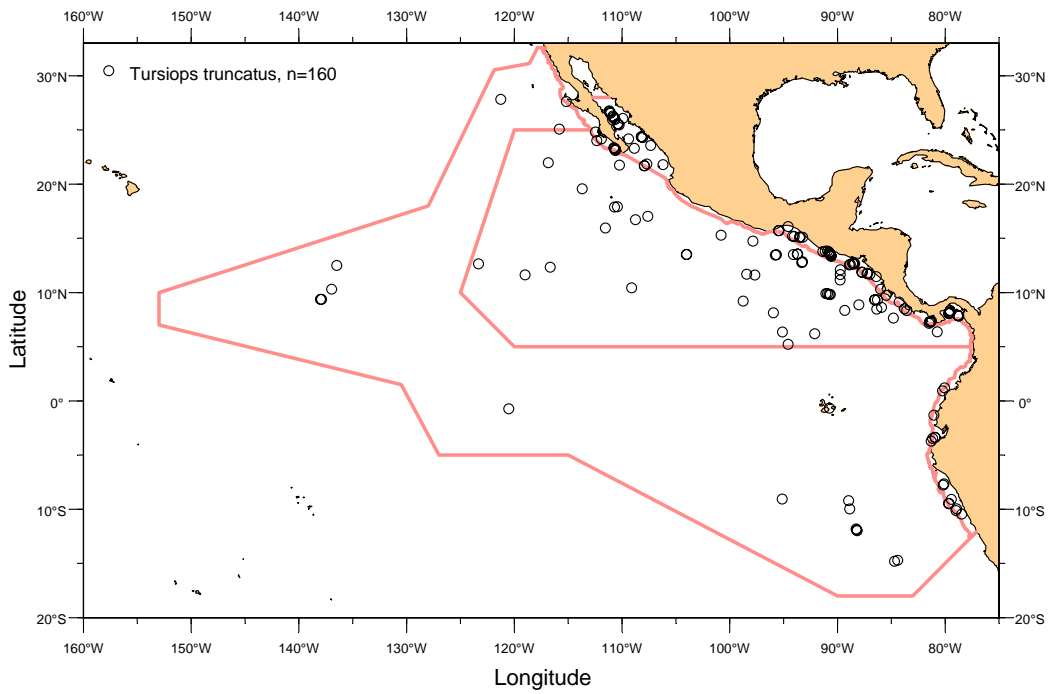


Figure 15. Bottlenose dolphin sightings, STAR03.

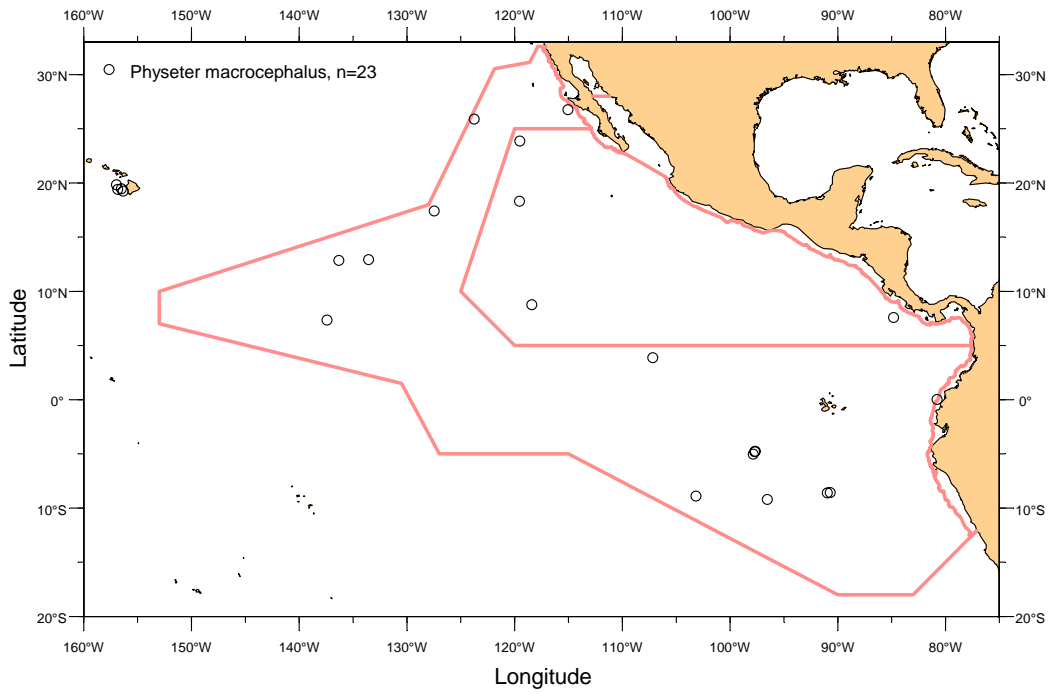


Figure 16. Sperm whale sightings, STAR03.

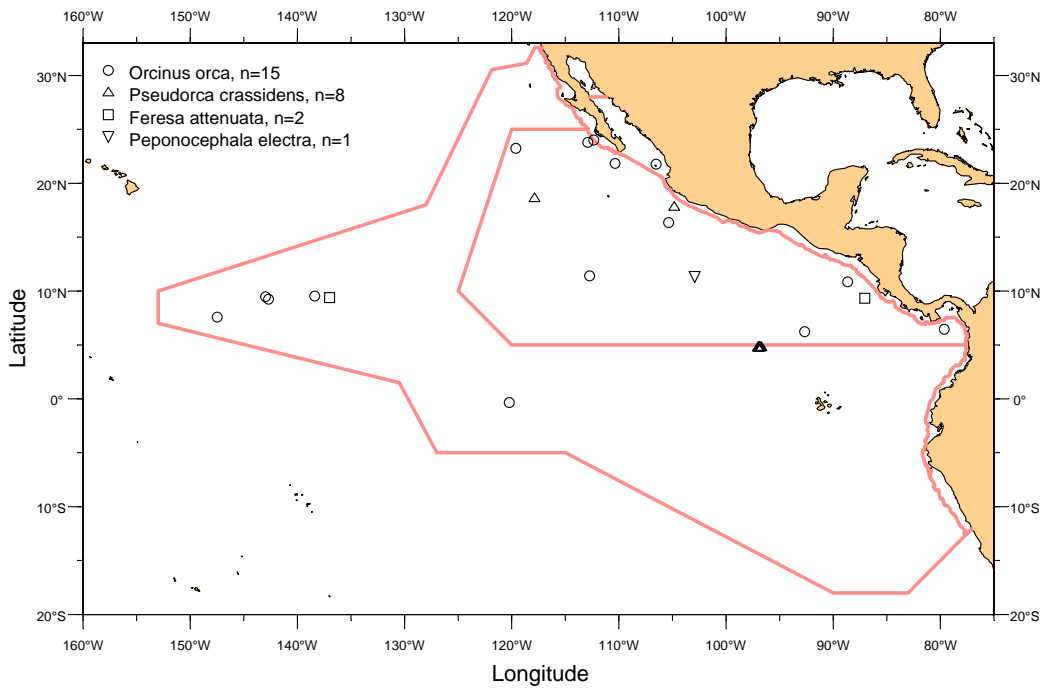


Figure 17. Killer, false killer, pygmy killer and melon-headed whales, STAR03.



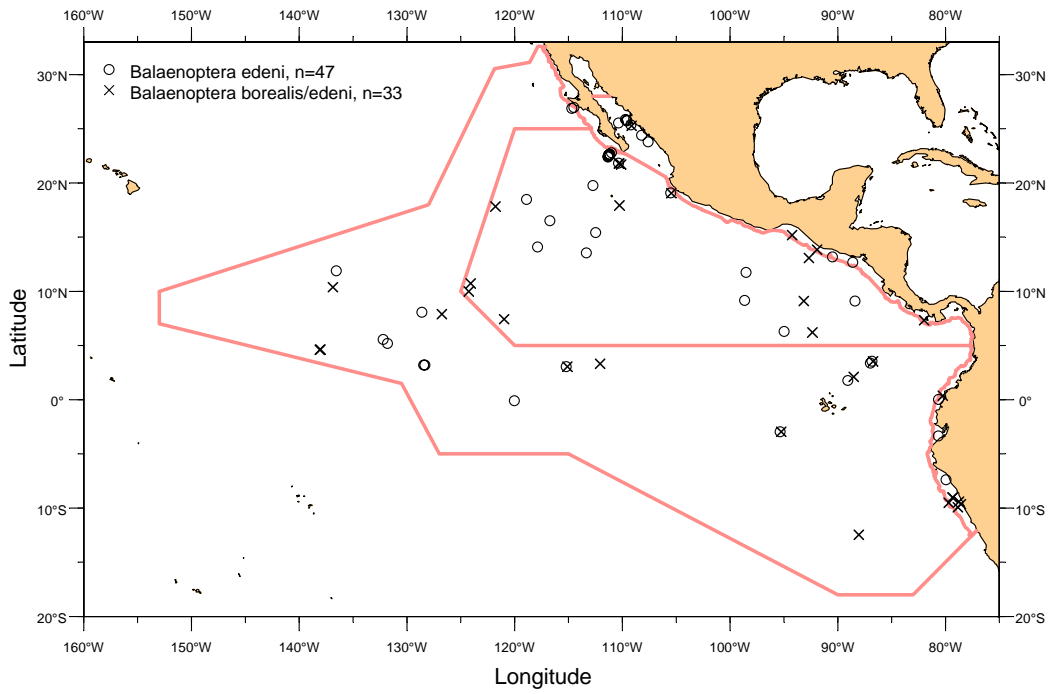


Figure 18. Bryde's and unidentified Sei/Bryde's whale sightings, STAR03.

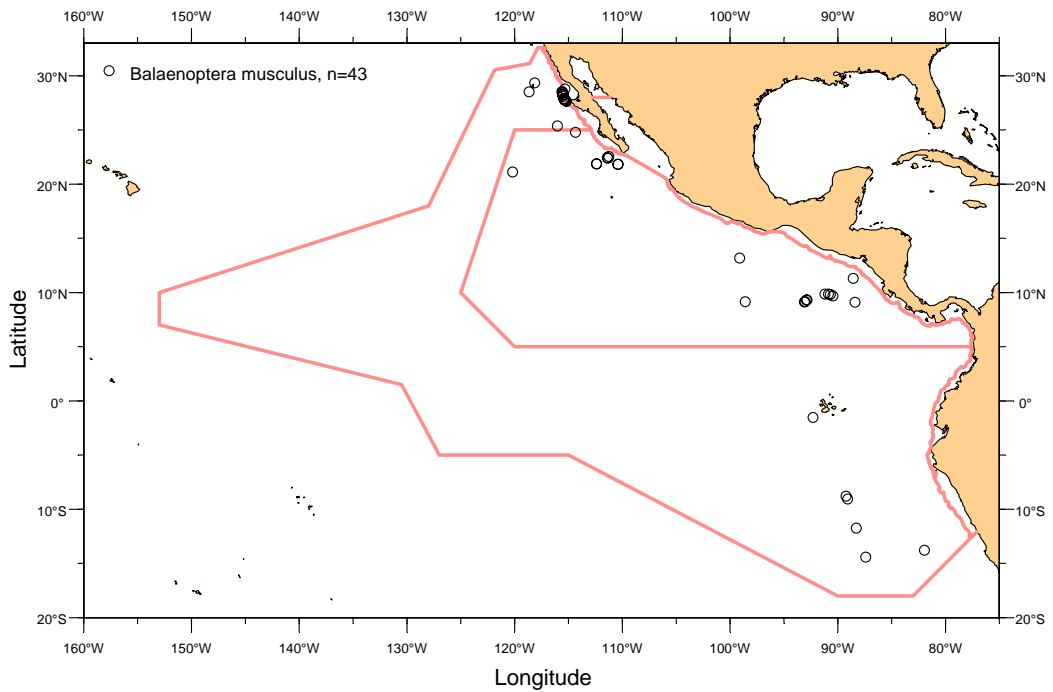


Figure 19. Blue whale sightings, STAR03.

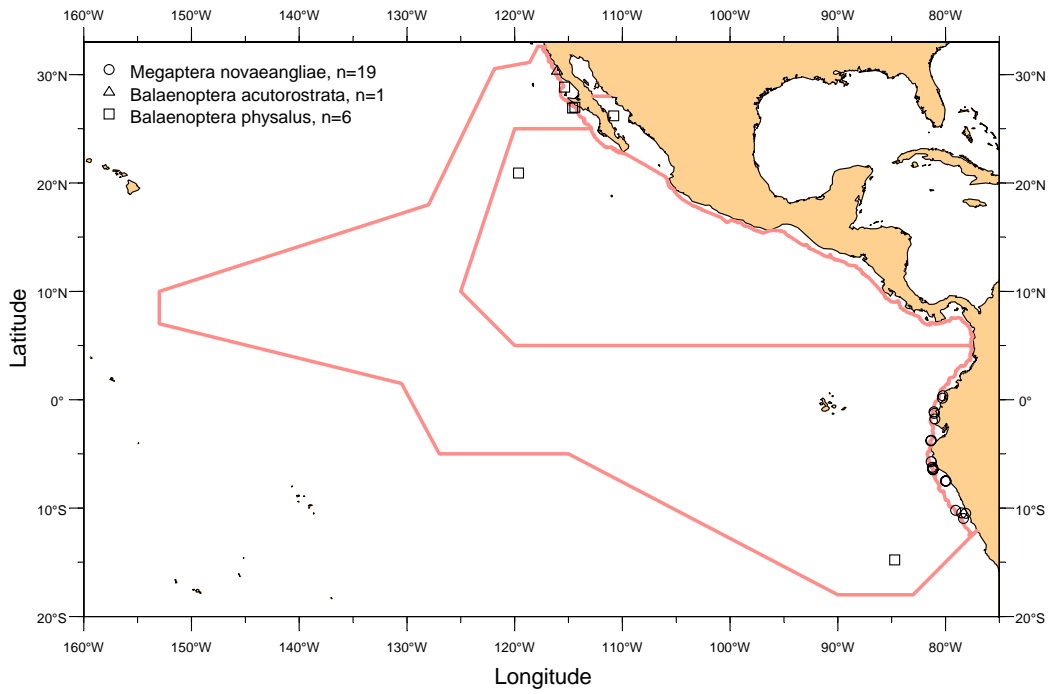


Figure 20. Humpback, minke and fin whale sightings, STAR03.

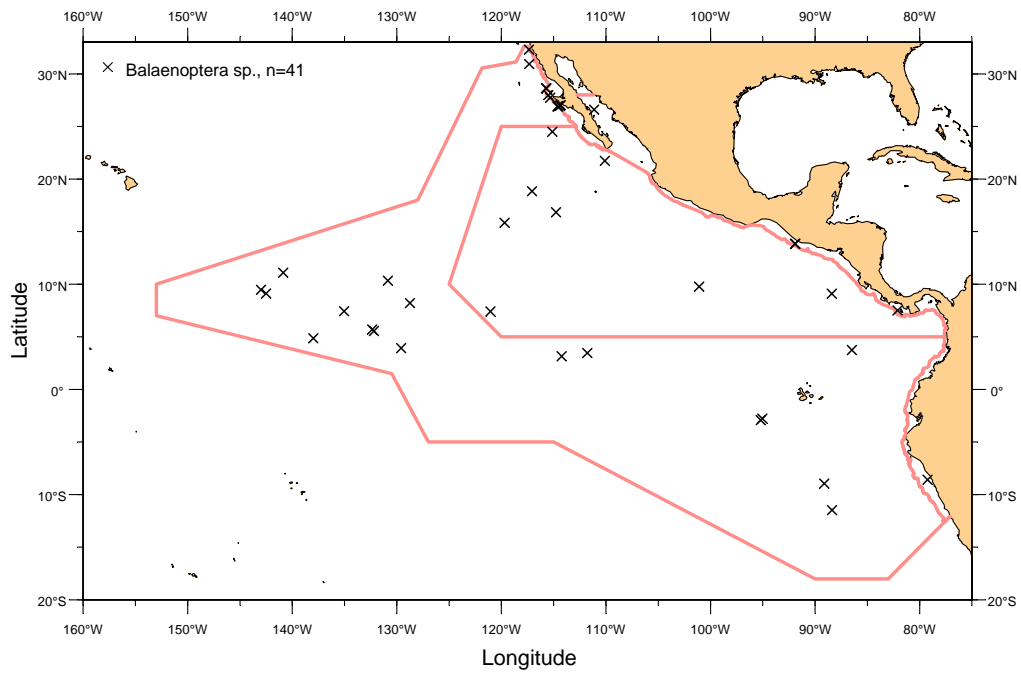


Figure 21. Baleen whale sightings not identified to species, STAR03.

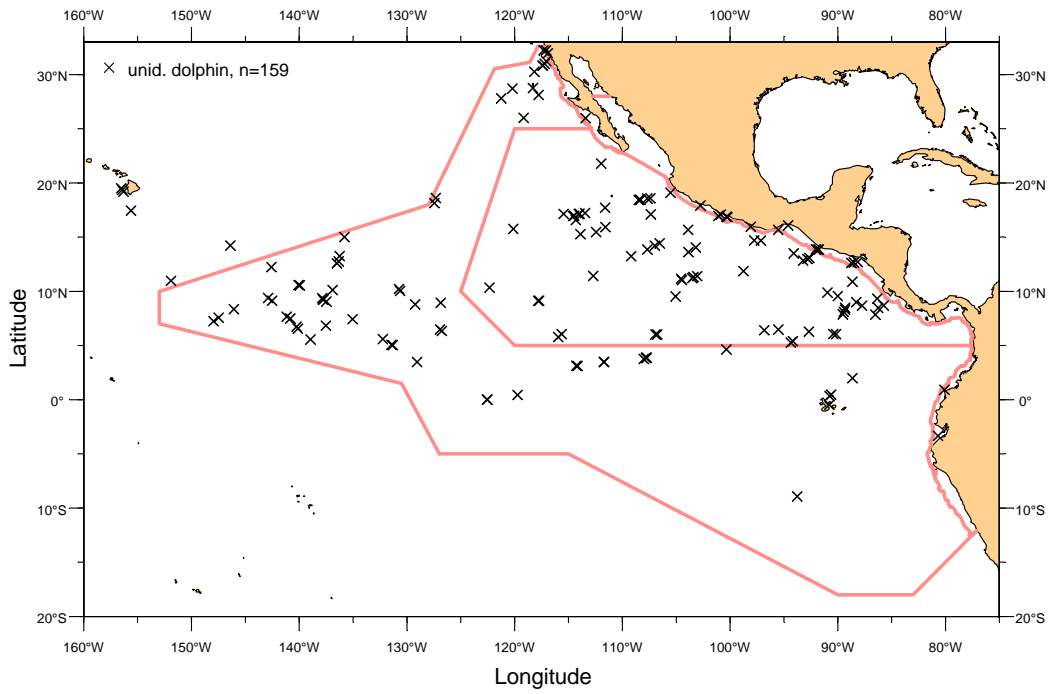


Figure 22. Unidentified dolphin sightings, STAR03.

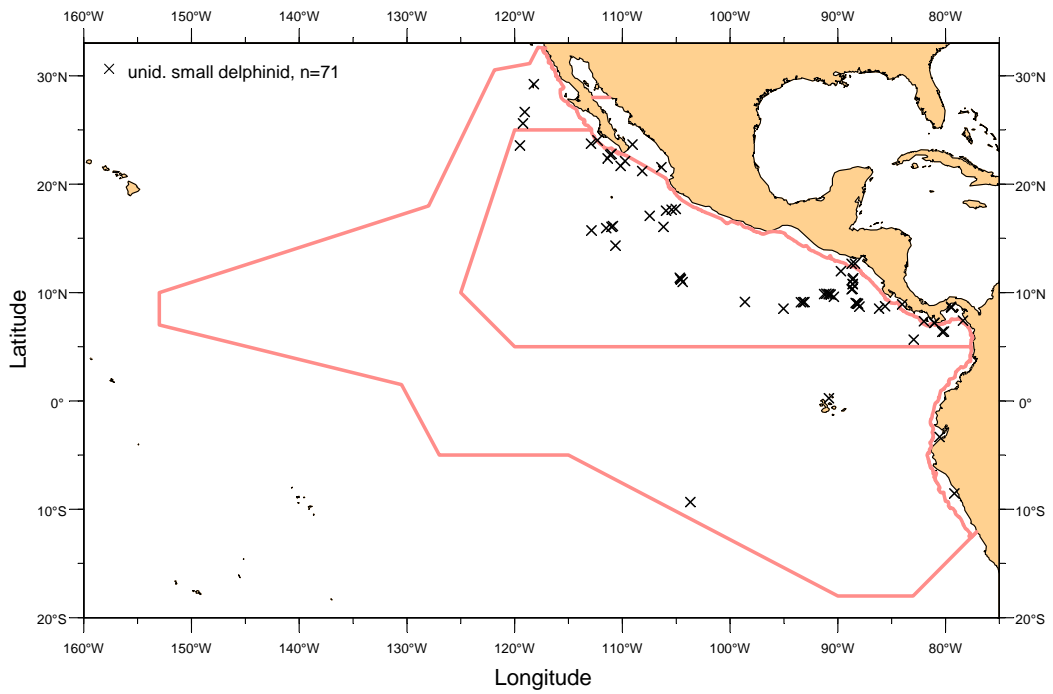


Figure 23. Unidentified small delphinids, STAR03.

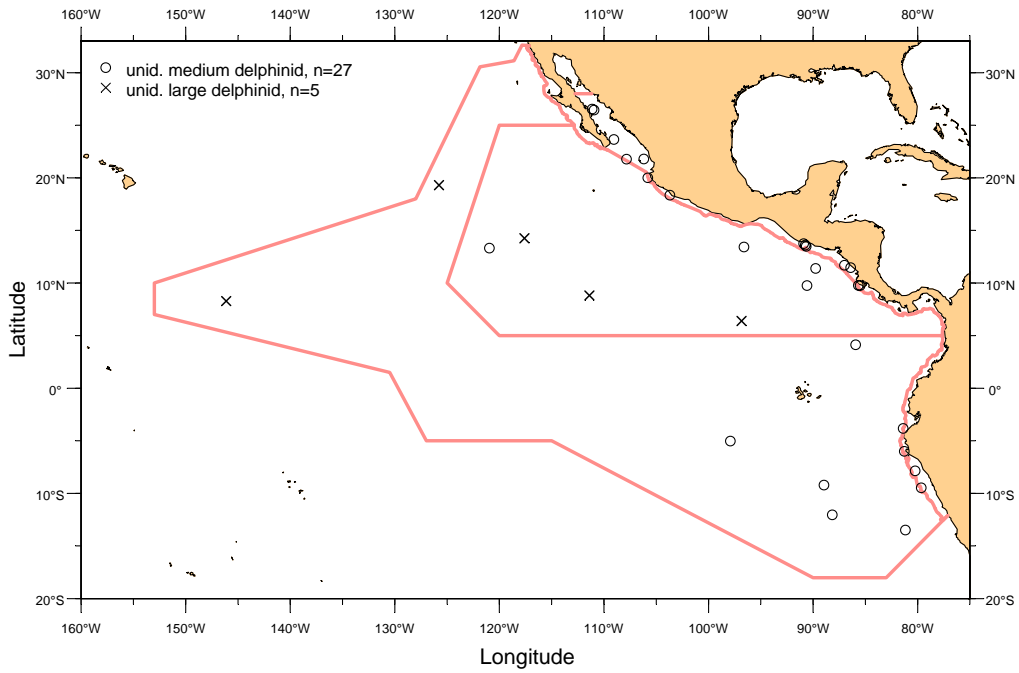


Figure 24. Unidentified medium- and large-sized delphinid sightings, STAR03.

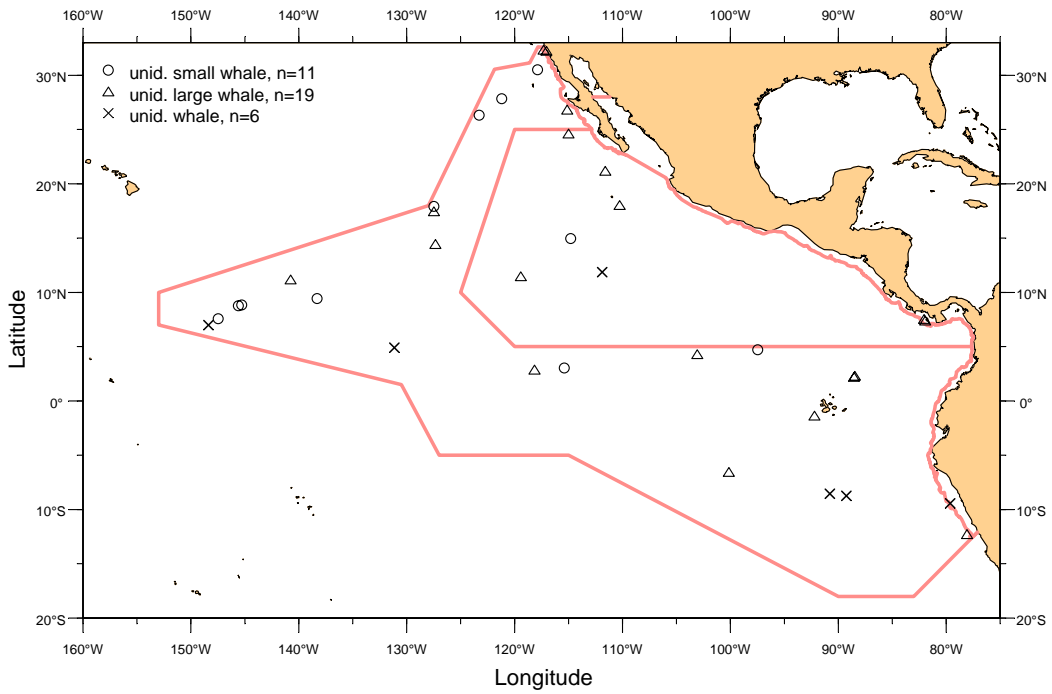


Figure 25. Unidentified small whale sightings, STAR03.

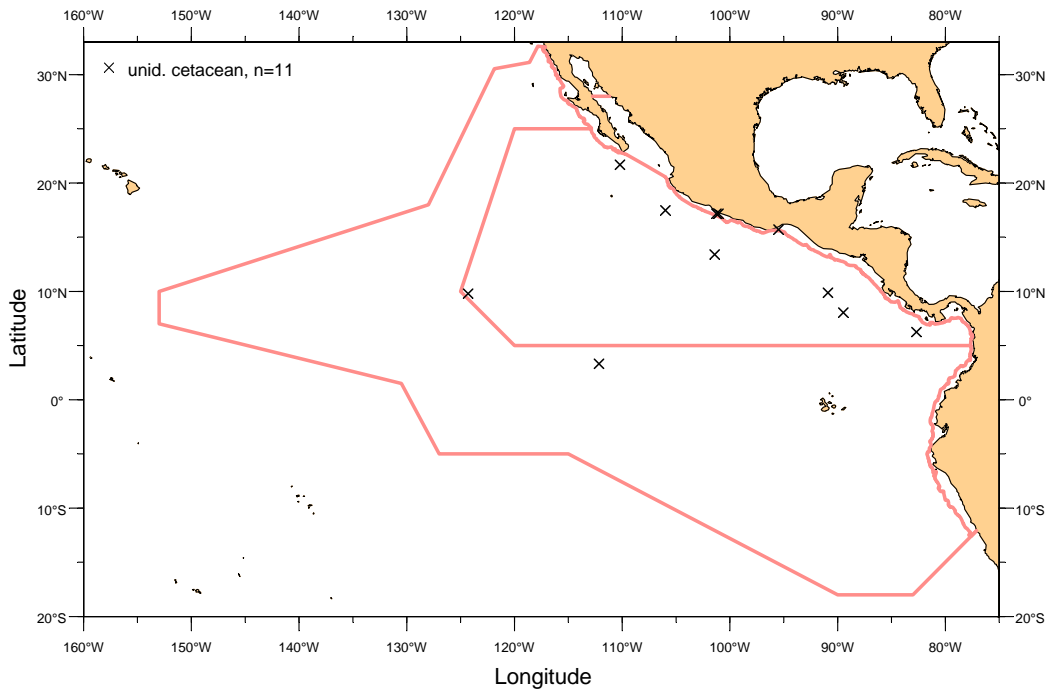


Figure 26. Unidentified cetacean sightings, STAR03.

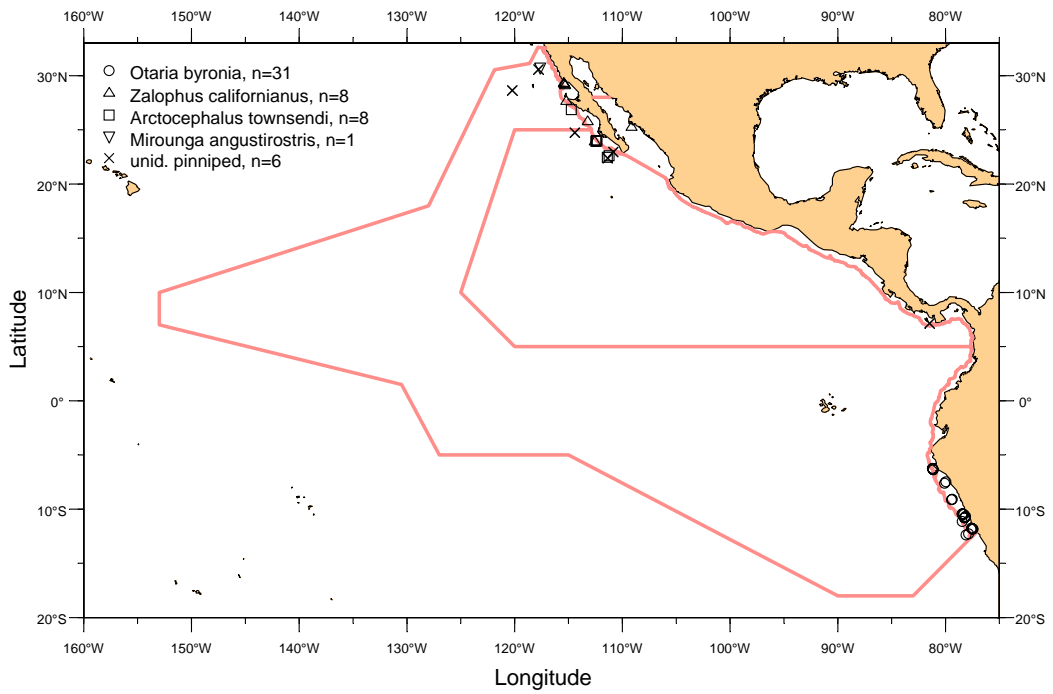


Figure 27. Sea lions, seals and unidentified pinniped sightings, STAR03.

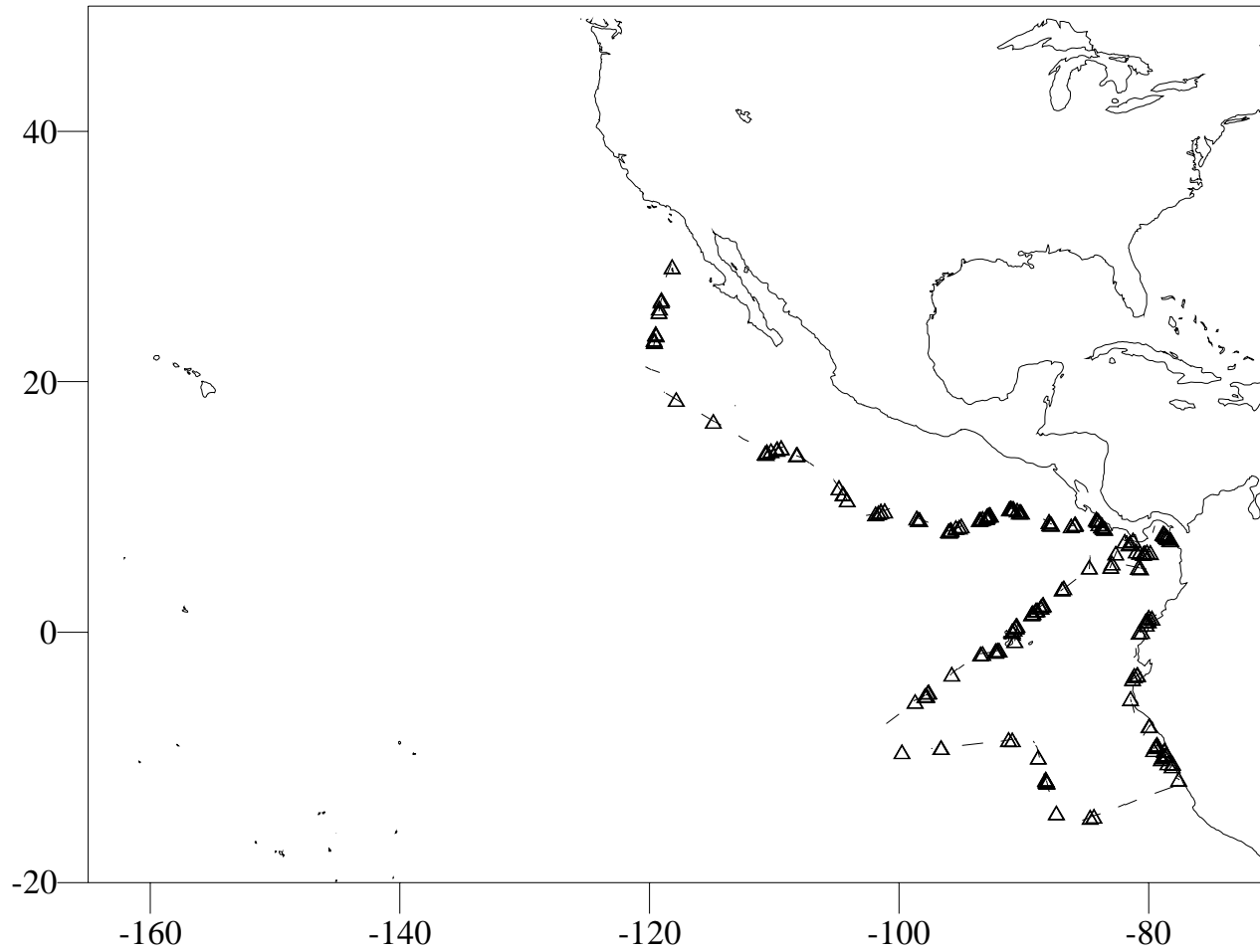


Figure 28. Acoustic survey effort using a towed hydrophone array (line segments), and locations where clear delphinid whistles of sighted animals were noted (triangles) during STAR03.

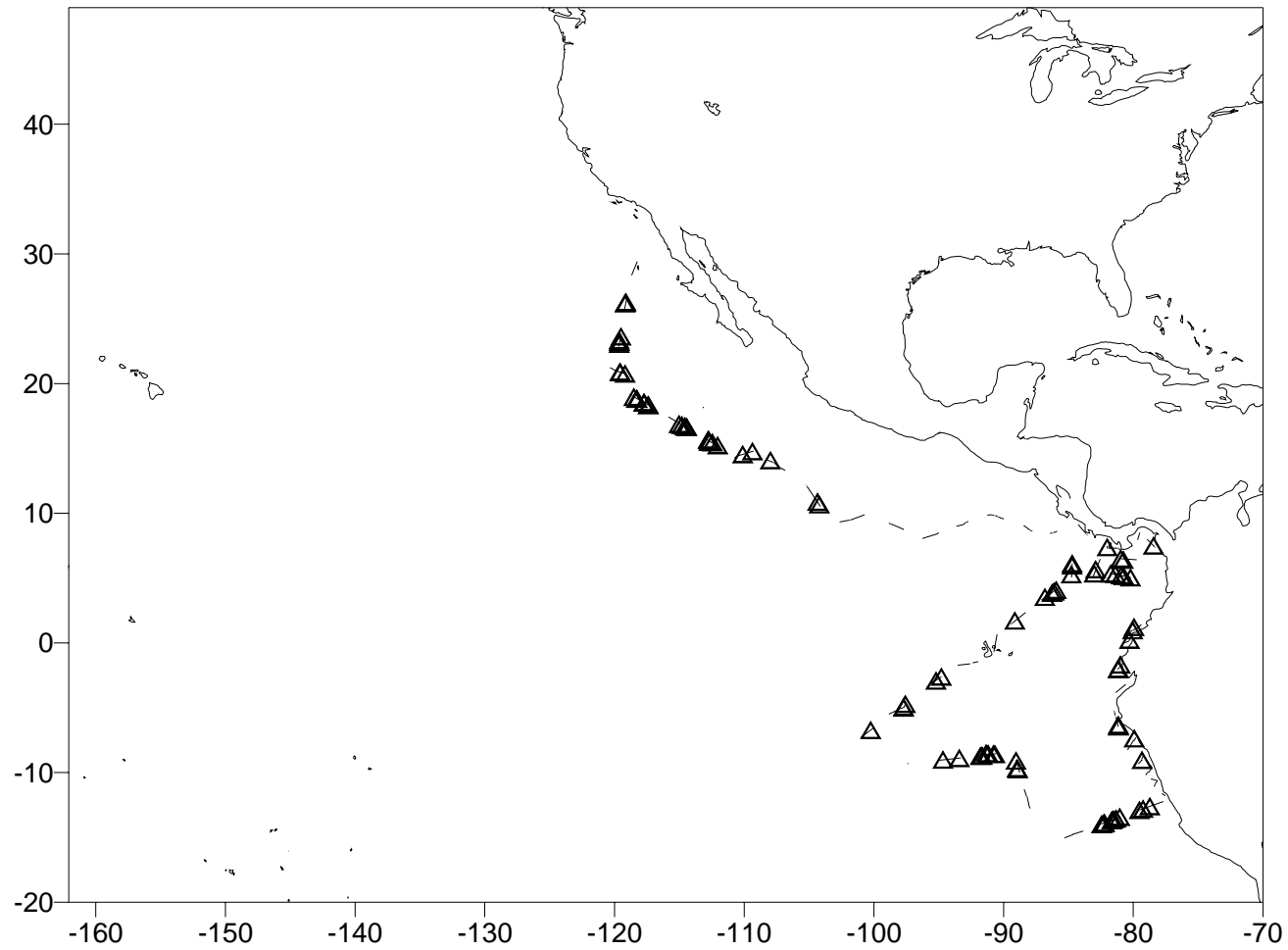


Figure 29. Acoustic survey effort using a towed hydrophone array (line segments), and locations where clear delphinid whistles of non-sighted animals were noted (triangles) during STAR03.

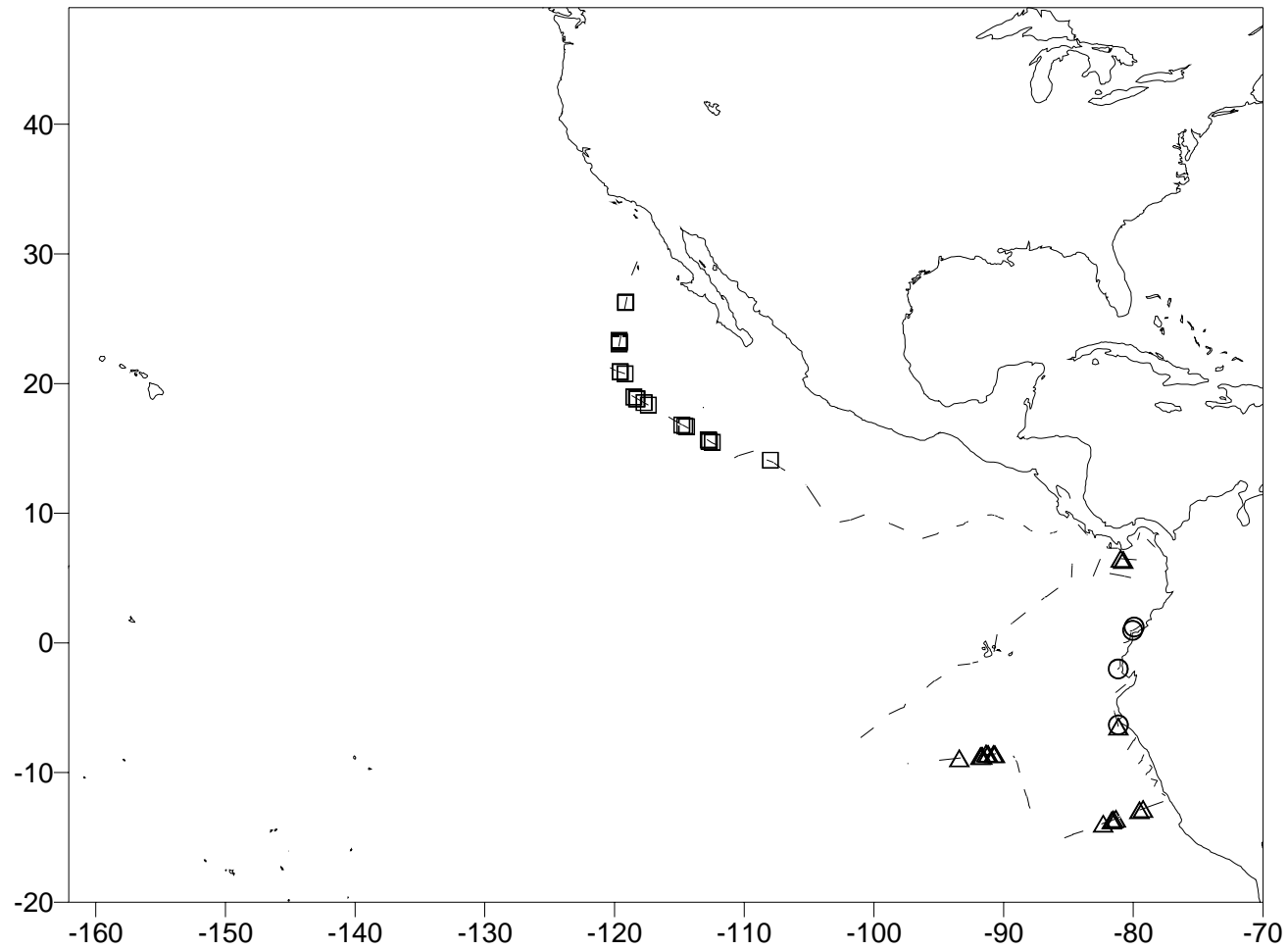


Figure 30. Acoustic survey effort using a towed hydrophone array (line segments), and locations where non-sighted sperm whale clicks (triangles), humpback whale calls (circles), and minke whale boings (squares) were detected during STAR03.



Appendix A. Study area boundary points for STAR03 survey. The eastern boundary is defined by the coastline of the Americas.

32° 32.12' N, 117° 7.34' W  
32° 35.37' N, 117° 27.82' W  
32° 37.61' N, 117° 49.52' W  
31° 7.97' N, 118° 36.30' W  
30° 32.52' N, 121° 52.00' W  
18° 0.00' N, 128° 0.00' W  
10° 0.00' N, 153° 0.00' W  
7° 0.00' N, 153° 0.00' W  
1° 30.00' N, 130° 30.00' W  
5° 0.00' S, 127° 0.00' W  
5° 0.00' S, 115° 0.00' W  
18° 0.00' S, 90° 0.00' W  
18° 0.00' S, 83° 0.00' W  
12° 0.00' S, 77° 0.00' W

**Strata Boundaries:** The coastal stratum is inshore of the 1000 meter depth contour. The core stratum is defined by the following points:

25° 0.00' N, 112° 51.60' W  
25° 0.00' N, 120° 0.00' W  
10° 0.00' N, 125° 0.00' W  
5° 0.00' N, 120° 0.00' W  
5° 0.00' N, 77° 38.04' W

Appendix B. Participating scientists and the ship legs on which they sailed during STAR03.

| Name                | Observer |                            | Affiliation <sup>1</sup> | <i>McArthur II</i> |   |   |   |   | <i>D.S. Jordan</i> |   |   |   |   |   |
|---------------------|----------|----------------------------|--------------------------|--------------------|---|---|---|---|--------------------|---|---|---|---|---|
|                     | Number   | Position                   |                          | Leg No.            | 1 | 2 | 3 | 4 | 5                  | 1 | 2 | 3 | 4 | 5 |
| Lisa Ballance       | 120      | Cruise Leader              | SWFSC                    | x                  |   |   |   |   |                    |   | x | x |   |   |
| Susan Chivers       | 029      | Cruise Leader              | SWFSC                    |                    |   | x |   |   |                    |   |   |   |   |   |
| Tim Gerrodette      | 084      | Cruise Leader              | SWFSC                    |                    |   |   |   | x |                    |   |   |   |   |   |
| Sarah Mesnick       | 159      | Cruise Leader              | SWFSC                    |                    | x |   |   |   |                    |   |   |   |   |   |
| Robert Pitman       | 004      | Cruise Leader/Visiting Sci | SWFSC                    |                    |   |   |   |   | x                  | x | x | x | x | x |
| Barb Taylor         | 034      | Cruise Leader              | SWFSC                    |                    |   |   | x |   |                    |   |   |   |   |   |
| Juan Carlos Salinas | 126      | Senior Mammal Observer     | SWFSC                    |                    |   | x | x | x | x                  | x | x |   |   |   |
| James Cotton        | 007      | Senior Mammal Observer     | SWFSC                    | x                  | x |   |   |   |                    |   |   | x | x | x |
| Gary Freidrichsen   | 001      | Senior Mammal Observer     | SWFSC                    | x                  | x |   |   |   |                    |   |   | x | x | x |
| Richard Rowlett     | 073      | Senior Mammal Observer     | SWFSC                    |                    |   | x | x | x | x                  | x | x |   |   |   |
| Chris Cutler        | 228      | Mammal Observer            | SWFSC                    | x                  | x |   |   |   |                    |   |   | x | x | x |
| Anne Douglas        | 199      | Mammal Observer            | SWFSC                    |                    |   | x | x | x | x                  | x | x |   |   |   |
| Holly Fearnbach     | 224      | Mammal Observer            | SWFSC                    |                    |   | x | x | x | x                  | x | x |   |   |   |
| Beth Goodwin        | 230      | Mammal Observer            | SWFSC                    | x                  | x |   |   |   |                    |   |   | x | x | x |
| Erin LaBrecque      | 200      | Mammal Observer            | SWFSC                    |                    |   | x | x | x | x                  | x | x |   |   |   |
| Cornelia Oedekoven  | 208      | Mammal Observer            | SWFSC                    | x                  | x |   |   |   |                    |   |   | x | x | x |
| Michael Richlen     | 233      | Mammal Observer            | SWFSC                    |                    |   | x | x | x | x                  | x | x |   |   |   |
| Ernesto Vazquez     | 125      | Mammal Observer            | SWFSC                    | x                  | x |   |   |   |                    |   |   | x | x | x |

<sup>1</sup> SIO--Scripps Institution of Oceanography, University of California, San Diego  
 STRI--Smithsonian Tropical Research Institute  
 IATTC--Inter-American Tropical Tuna Commission  
 CSULA--California State University, Los Angeles  
 BLM--Bureau of Land Management, U.S. Department of the Interior  
 UW--University of Washington  
 INOCAR--Instituto Oceanografico de la Armada  
 UP/CM--UNIPESCA, Ministry of Agriculture; and CEMA, San Carlos University  
 IMARPE--Instituto del Mar del Peru  
 AOC--Aircraft Operations Center, National Oceanic and Atmospheric Administration

Appendix B. Participating scientists (continued).

| Name               | Observer |                    | Affiliation | <i>McArthur II</i> |   |   |   |   | <i>D.S. Jordan</i> |   |   |   |   |   |
|--------------------|----------|--------------------|-------------|--------------------|---|---|---|---|--------------------|---|---|---|---|---|
|                    | Number   | Position           |             | 1                  | 2 | 3 | 4 | 5 | 1                  | 2 | 3 | 4 | 5 | 6 |
| Katie Cramer       |          | Photogrammetrist   | SWFSC       |                    |   |   |   |   |                    | x | x |   |   |   |
| Erik Eilers        |          | Photogrammetrist   | SWFSC       |                    |   |   |   |   |                    |   |   |   |   | x |
| Jim Gilpatrick     | 080      | Photogrammetrist   | SWFSC       |                    |   |   |   |   |                    | x | x |   | x |   |
| Morgan Lynn        | 057      | Photogrammetrist   | SWFSC       |                    |   |   |   |   | x                  |   |   | x |   | x |
| Paula Olson        | 092      | Photogrammetrist   | SWFSC       |                    |   |   |   |   | x                  |   |   |   |   |   |
| Wayne Perryman     | 110      | Photogrammetrist   | SWFSC       | x                  |   |   |   |   |                    |   |   |   |   |   |
| Charlie Stinchcomb | 145      | Photogrammetrist   | SWFSC       |                    |   |   |   |   |                    |   |   | x | x |   |
| Carolina Bonin     |          | Acoustician        | SWFSC       |                    |   |   |   | x |                    |   |   |   |   |   |
| Jenna Borberg      | 222      | Acoustician        | SWFSC       |                    |   |   | x |   |                    |   |   |   |   |   |
| Megan Ferguson     | 217      | Acoustician        | SIO         |                    |   | x |   |   |                    |   |   |   |   |   |
| Julie Oswald       | 190      | Acoustician        | SIO         |                    |   |   |   | x |                    |   |   |   |   |   |
| Shannon Rankin     | 184      | Acoustician        | SWFSC       |                    |   | x | x |   |                    |   |   |   |   |   |
| Dawn Breese        | 232      | Seabird Observer   | SWFSC       |                    |   |   | x | x |                    |   |   |   |   |   |
| Michael Force      | 098      | Seabird Observer   | SWFSC       | x                  | x | x | x | x |                    |   |   |   |   |   |
| Chris Hoefer       | 227      | Seabird Observer   | SWFSC       |                    |   | x |   |   | x                  | x | x |   |   |   |
| Richard Pagen      | 231      | Seabird Observer   | SWFSC       | x                  | x |   |   |   |                    |   |   | x | x | x |
| Sophie Webb        | 229      | Seabird Observer   | SWFSC       |                    |   |   |   |   | x                  | x | x | x | x | x |
| Noelle Bowlin      |          | Oceanographer      | SWFSC       |                    |   |   |   |   |                    |   |   |   |   | x |
| Ron Dotson         |          | Oceanographer      | SWFSC       |                    |   |   |   |   | x                  | x | x | x |   |   |
| Dave Griffith      |          | Oceanographer      | SWFSC       |                    |   |   |   |   |                    |   |   |   | x | x |
| Candice Hall       |          | Oceanographer      | SWFSC       | x                  |   |   |   |   |                    |   |   |   |   |   |
| Melinda Kelley     |          | Oceanographer      | SWFSC       |                    | x | x | x | x |                    |   |   |   |   |   |
| Kerry Kopitsky     |          | Oceanographer      | SWFSC       |                    |   |   |   |   | x                  | x | x | x | x |   |
| Richard Condit     |          | Visiting Scientist | STRI        |                    |   | x |   |   |                    |   |   |   |   |   |
| Paul Fiedler       | 081      | Visiting Scientist | SWFSC       |                    |   | x |   |   |                    |   |   |   |   |   |
| Josh Fluty         | 220      | Visiting Scientist | SWFSC       |                    |   |   | x |   |                    |   |   |   |   |   |
| Jason Larese       | 247      | Visiting Scientist | SWFSC       |                    |   |   | x |   |                    |   |   |   |   |   |
| Cleridy Lennert    |          | Visiting Scientist | IATTC       |                    |   |   |   | x |                    |   |   |   |   |   |
| Phil Morin         |          | Visiting Scientist | SWFSC       |                    |   |   | x |   |                    |   |   |   |   |   |

Appendix B. Participating scientists (continued).

| Name                | Observer |                     | Affiliation | <i>McArthur II</i> |         |   |   |   | <i>D.S. Jordan</i> |         |   |   |   |  |
|---------------------|----------|---------------------|-------------|--------------------|---------|---|---|---|--------------------|---------|---|---|---|--|
|                     | Number   | Position            |             | 1                  | Leg No. |   |   |   | 1                  | Leg No. |   |   |   |  |
|                     |          |                     |             | 2                  | 3       | 4 | 5 | 1 | 2                  | 3       | 4 | 5 | 6 |  |
| Jessica Redfern     | 240      | Visiting Scientist  | SWFSC       | x                  |         |   |   |   |                    |         |   |   |   |  |
| Mari Rosales        |          | Visiting Scientist  | CSULA       |                    | x       |   |   |   |                    |         |   |   |   |  |
| Hadoram Shirihai    |          | Visiting Scientist  |             |                    |         | x |   |   |                    |         |   |   |   |  |
| Larry Standley      |          | Visiting Scientist  | BLM         |                    | x       |   |   |   |                    |         |   |   |   |  |
| Eric Ward           |          | Visiting Scientist  | UW          | x                  |         |   |   |   |                    |         |   |   |   |  |
| Maria Elena Tapia   |          | Ecuadorian Observer | INOCAR      | x                  |         |   |   |   |                    |         |   |   |   |  |
| Ruben Lopez Bran    |          | Guatemalan Observer | UP/CM       |                    |         |   | x |   |                    |         |   |   |   |  |
| Jose Carlos Marquez |          | Peruvian Observer   | IMARPE      |                    |         |   | x |   |                    |         |   |   |   |  |
| David Demers        |          | Helicopter Pilot    | AOC         |                    |         |   |   | x | x                  |         |   | x | x |  |
| Julie Helmers       |          | Helicopter Pilot    | AOC         |                    |         |   |   |   |                    | x       | x |   |   |  |
| Glen Franke         |          | Helicopter Mechanic | AOC         |                    |         |   |   | x | x                  |         |   | x | x |  |
| Alvin Howard        |          | Helicopter Mechanic | AOC         |                    |         |   |   |   |                    | x       | x |   |   |  |

Appendix C. SWFSC species, stocks and other sighting-categories of marine mammals, 2003.

| Code | Genus/Taxa             | Species/Stock                      | Common Names  |
|------|------------------------|------------------------------------|---|
| 001  | <i>Mesoplodon</i>      | <i>peruvianus</i>                  | Pygmy beaked whale                                      |
| 002  | <i>Stenella</i>        | <i>attenuata</i> (offshore)        | Offshore pantropical spotted dolphin                    |
| 003  | <i>Stenella</i>        | <i>longirostris</i> (unid. subsp.) | Unidentified spinner dolphin                            |
| 004  | <i>Stenella</i>        | <i>clymene</i>                     | Clymene dolphin, short-snouted spinner dolphin          |
| 005  | <i>Delphinus</i>       | sp.                                | Unidentified common dolphin                             |
| 006  | <i>Stenella</i>        | <i>attenuata graffmani</i>         | Coastal spotted dolphin                                 |
| 007  | <i>Sotalia</i>         | <i>fluviatilis</i>                 | Tucuxi, Guiana dolphin                                  |
| 008  | <i>Orcaella</i>        | <i>brevirostris</i>                | Irrawaddy dolphin, Lumbalumba                           |
| 009  | <i>Phocoena</i>        | <i>dioptrica</i>                   | Spectacled porpoise                                     |
| 010  | <i>Stenella</i>        | <i>longirostris orientalis</i>     | Eastern spinner dolphin                                 |
| 011  | <i>Stenella</i>        | <i>longirostris</i> hybrid         | Whitebelly spinner dolphin                              |
| 012  | <i>Lagenorhynchus</i>  | <i>albirostris</i>                 | White-beaked dolphin                                    |
| 013  | <i>Stenella</i>        | <i>coeruleoalba</i>                | Striped dolphin, streaker porpoise, euphrosyne dolphin  |
| 014  | <i>Lagenorhynchus</i>  | <i>acutus</i>                      | Atlantic white-sided dolphin                            |
| 015  | <i>Steno</i>           | <i>bredanensis</i>                 | Rough-toothed dolphin, Steno                            |
| 016  | <i>Delphinus</i>       | <i>capensis</i>                    | Baja neritic common dolphin, long-beaked common dolphin |
| 017  | <i>Delphinus</i>       | <i>delphis</i>                     | Offshore common dolphin, short-beaked common dolphin    |
| 018  | <i>Tursiops</i>        | <i>truncatus</i>                   | Bottlenose dolphin                                      |
| 019  | <i>Cephalorhynchus</i> | <i>heavisidii</i>                  | Heaviside's dolphin                                     |
| 020  | <i>Cephalorhynchus</i> | <i>hectori</i>                     | Hector's dolphin, pied dolphin, white front dolphin     |
| 021  | <i>Grampus</i>         | <i>griseus</i>                     | Risso's dolphin, gray grampus                           |
| 022  | <i>Lagenorhynchus</i>  | <i>obliquidens</i>                 | Pacific white-sided dolphin                             |
| 023  | <i>Lagenorhynchus</i>  | <i>australis</i>                   | Peale's dolphin, blackchin dolphin                      |
| 024  | <i>Lagenorhynchus</i>  | <i>cruciger</i>                    | Hourglass dolphin                                       |
| 025  | <i>Lagenorhynchus</i>  | <i>obscurus</i>                    | Dusky dolphin   |
| 026  | <i>Lagenodelphis</i>   | <i>hosei</i>                       | Fraser's dolphin, Sarawak dolphin                       |
| 027  | <i>Lissodelphis</i>    | <i>borealis</i>                    | Northern right whale dolphin                            |
| 028  | <i>Lissodelphis</i>    | <i>peronii</i>                     | Southern right whale dolphin                            |
| 029  | <i>Cephalorhynchus</i> | <i>eutropia</i>                    | Black dolphin, Chilean dolphin                          |
| 030  | <i>Cephalorhynchus</i> | <i>commersonii</i>                 | Commerson's dolphin, piebald dolphin                    |
| 031  | <i>Peponocephala</i>   | <i>electra</i>                     | Melon-headed whale                                      |
| 032  | <i>Feresa</i>          | <i>attenuata</i>                   | Pygmy killer whale                                      |
| 033  | <i>Pseudorca</i>       | <i>crassidens</i>                  | False killer whale                                      |
| 034  | <i>Globicephala</i>    | sp.                                | Unidentified pilot whale                                |
| 035  | <i>Globicephala</i>    | <i>melas</i>                       | Long-finned pilot whale, Atlantic pilot whale           |

Appendix C. SWFSC species, stocks and other sighting-categories of marine mammals, 2003 (continued).

| Code | Genus/Taxa            | Species/Stock        | Common Names   |
|------|-----------------------|----------------------|--|
| 036  | <i>Globicephala</i>   | <i>macrorhynchus</i> | Short-finned pilot whale                               |
| 037  | <i>Orcinus</i>        | <i>orca</i>          | Killer whale   |
| 038  | <i>Sousa</i>          | <i>chinensis</i>     | Indo-Pacific hump-backed dolphin,                      |
| 039  | <i>Sousa</i>          | <i>teuszii</i>       | Atlantic hump-backed dolphin                           |
| 040  | <i>Phocoena</i>       | <i>Phocoena</i>      | Harbor porpoise  |
| 041  | <i>Phocoena</i>       | <i>sinus</i>         | Vaquita, Gulf of California harbor porpoise            |
| 042  | <i>Phocoena</i>       | <i>spinipinnis</i>   | Burmeister's porpoise, black porpoise                  |
| 043  | <i>Neophocaena</i>    | <i>phocaenoides</i>  | Black finless porpoise                                 |
| 044  | <i>Phocoenoides</i>   | <i>dalli</i>         | Dall's porpoise  |
| 045  | <i>Delphinapterus</i> | <i>leucas</i>        | White whale, beluga                                    |
| 046  | <i>Physeter</i>       | <i>macrocephalus</i> | Sperm whale  |
| 047  | <i>Kogia</i>          | <i>breviceps</i>     | Pygmy sperm whale                                      |
| 048  | <i>Kogia</i>          | <i>sima</i>          | Dwarf sperm whale                                      |
| 049  | Ziphiidae             |                      | Unidentified beaked whale                              |
| 050  | <i>Hyperoodon</i>     | <i>planifrons</i>    | Southern bottlenose whale                              |
| 051  | <i>Mesoplodon</i>     | sp.                  | Unidentified <i>Mesoplodon</i>                         |
| 052  | <i>Mesoplodon</i>     | <i>carlhubbsi</i>    | Hubb's beaked whale, archbeak whale                    |
| 053  | <i>Mesoplodon</i>     | <i>hectori</i>       | Hector's beaked whale                                  |
| 054  | <i>Mesoplodon</i>     | <i>bowdoini</i>      | Andrew's beaked whale, deepcrest whale                 |
| 055  | <i>Mesoplodon</i>     | <i>europaeus</i>     | Gervais' beaked whale, Antillean beaked whale          |
| 056  | <i>Mesoplodon</i>     | <i>bidens</i>        | Sowerby's beaked whale                                 |
| 057  | <i>Mesoplodon</i>     | <i>ginkgodens</i>    | Ginkgo-toothed beaked whale                            |
| 058  | <i>Mesoplodon</i>     | <i>grayi</i>         | Gray's beaked whale                                    |
| 059  | <i>Mesoplodon</i>     | <i>densirostris</i>  | Blaineville's beaked whale, dense-beaked beaked whale  |
| 060  | <i>Mesoplodon</i>     | <i>layardii</i>      | Strap-toothed whale                                    |
| 061  | <i>Ziphius</i>        | <i>cavirostris</i>   | Cuvier's beaked whale, goose-beaked whale              |
| 062  | <i>Berardius</i>      | <i>arnuxii</i>       | Arnoux's beaked whale, southern giant bottlenose whale |
| 063  | <i>Berardius</i>      | <i>bairdii</i>       | Baird's beaked whale, northern giant bottlenose whale  |
| 064  | <i>Tasmacetus</i>     | <i>shepherdi</i>     | Shepherd's beaked whale                                |
| 065  | <i>Indopacetus</i>    | <i>pacificus</i>     | Longman's beaked whale                                 |
| 066  | <i>Eubalaena</i>      | <i>japonica</i>      | North Pacific right whale                              |
| 067  | <i>Balaena</i>        | <i>mysticetus</i>    | Bowhead whale  |
| 068  | <i>Caperea</i>        | <i>marginata</i>     | Pygmy right whale                                      |
| 069  | <i>Eschrichtius</i>   | <i>robustus</i>      | Gray whale   |
| 070  | <i>Balaenoptera</i>   | sp.                  | Unidentified rorqual                                   |

Appendix C. SWFSC species, stocks and other sighting-categories of marine mammals, 2003 (continued).

| Code | Genus/Taxa          | Species/Stock                       | Common Names   |
|------|---------------------|-------------------------------------|--|
| 071  | <i>Balaenoptera</i> | <i>acutorostrata</i>                | Common minke whale   |
| 072  | <i>Balaenoptera</i> | <i>edeni</i>                        | Bryde's whale  |
| 073  | <i>Balaenoptera</i> | <i>borealis</i>                     | Sei whale  |
| 074  | <i>Balaenoptera</i> | <i>physalus</i>                     | Fin whale  |
| 075  | <i>Balaenoptera</i> | <i>musculus</i>                     | Blue whale   |
| 076  | <i>Megaptera</i>    | <i>novaeangliae</i>                 | Humpback whale   |
| 077  | unid. dolphin       |                                     | Unidentified dolphin or porpoise                                   |
| 078  | unid. small whale   |                                     | Unidentified small whale   |
| 079  | unid. large whale   |                                     | Unidentified large whale   |
| 080  | <i>Kogia</i>        | <i>sima/breviceps</i>               | Unidentified <i>Kogia</i> (dwarf or pygmy sperm whale)             |
| 081  | <i>Mesoplodon</i>   | <i>stejnegeri</i>                   | Steinger's beaked whale, sabertooth, Bering Sea beaked whale       |
| 082  | <i>Mesoplodon</i>   | <i>mirus</i>                        | True's Beaked Whale  |
| 083  | <i>Mesoplodon</i>   | sp. A                               | Unnamed beaked whale   |
| 084  | <i>Hyperoodon</i>   | <i>ampullatus</i>                   | Northern Bottlenose, North Atlantic bottlenose whale               |
| 085  | <i>Monodon</i>      | <i>monoceros</i>                    | Narwhal, sea unicorn   |
| 086  | <i>Eubalaena</i>    | <i>australis</i>                    | Southern right whale   |
| 087  | <i>Pontoporia</i>   | <i>blainvillei</i>                  | Franciscana, La Plata dolphin                                      |
| 088  | <i>Stenella</i>     | <i>longirostris centroamericana</i> | Central American spinner dolphin, Costa Rican spinner dolphin      |
| 089  | <i>Stenella</i>     | <i>attenuata/plagidon</i>           | Unidentified spotted dolphin in Atlantic                           |
| 090  | <i>Stenella</i>     | <i>attenuata</i> (unid. subsp.)     | Unidentified pantropical spotted dolphin                           |
| 091  | <i>Stenella</i>     | <i>frontalis</i>                    | Atlantic spotted dolphin   |
| 092  | <i>Platanista</i>   | <i>gangetica gangetica</i>          | Ganges river dolphin   |
| 093  | <i>Platanista</i>   | <i>gangetica minor</i>              | Indus river dolphin  |
| 094  | <i>Inia</i>         | <i>geoffrensis</i>                  | Boto, Amazon river dolphin   |
| 095  | <i>Lipotes</i>      | <i>vexillifer</i>                   | Baiji, Chinese river dolphin, whitefin dolphin                     |
| 096  | unid. cetacean      |                                     | Unidentified cetacean  |
| 097  | unid. object        |                                     | Unidentified object, possible marine mammal                        |
| 098  | unid. whale         |                                     | Unidentified whale   |
| 099  | <i>Balaenoptera</i> | <i>borealis/edeni</i>               | Rorqual identified as a Sei or Bryde's whale                       |
| 100  | <i>Stenella</i>     | <i>longirostris</i>                 | Tres Marias spinner dolphin  |
| 101  | <i>Stenella</i>     | <i>longirostris</i>                 | Southwestern spinner dolphin                                       |
| 102  | <i>Stenella</i>     | <i>longirostris</i>                 | Gray's spinner dolphin, pantropical spinner dolphin                |
| 103  | <i>Stenella</i>     | <i>longirostris</i>                 | Undetermined eastern or Central American spinner dolphin           |
| 177  | unid. small delph.  |                                     | Unidentified <i>Delphinus/Lagenorhynchus/Lissodelphis/Stenella</i> |
| 277  | unid. medium delph. |                                     | Unidentified <i>Feresa/Grampus/Steno/Tursiops</i>                  |

Appendix C. SWFSC species, stocks and other sighting-categories of marine mammals, 2003 (continued).

| Code | Genus/Taxa           | Species/Stock         | Common Names   |
|------|----------------------|-----------------------|--|
| 377  | unid. large delph.   |                       | Unidentified Pseudorca/Orca/ <i>Globicephala</i>                 |
| 477  |                      |                       | Unidentified porpoise ( <i>Phocoena</i> or <i>Phocoenoides</i> ) |
| AA   | <i>Arctocephalus</i> | <i>australis</i>      | South American fur seal  |
| AG   | <i>Arctocephalus</i> | <i>galapagoensis</i>  | Galapagos fur seal   |
| AT   | <i>Arctocephalus</i> | <i>townsendi</i>      | Guadalupe fur seal   |
| CU   | <i>Callorhinus</i>   | <i>ursinus</i>        | Northern fur seal  |
| EJ   | <i>Eumetopias</i>    | <i>jubatus</i>        | Stellar sea lion   |
| MA   | <i>Mirounga</i>      | <i>angustirostris</i> | Northern elephant seal   |
| OB   | <i>Otaria</i>        | <i>byronia</i>        | South American sea lion  |
| PU   | unid.                | pinniped              | Unidentified Pinniped  |
| PV   | <i>Phoca</i>         | <i>vitulina</i>       | Harbor seal  |
| UA   | unid. fur seal       |                       | Unidentified fur seal  |
| UO   | unid. sea lion       |                       | Unidentified sea lion  |
| US   | unid. seal           |                       | Unidentified seal  |
| ZC   | <i>Zalophus</i>      | <i>californianus</i>  | California sea lion  |