

# NOAA Technical Memorandum NMFS



**AUGUST 1987**

## **REPORT OF A MARINE MAMMAL SURVEY OF THE EASTERN TROPICAL PACIFIC ABOARD THE RESEARCH VESSEL *McARTHUR* JULY 29 - DECEMBER 6, 1986**

Rennie S. Holt  
Alan Jackson



**NOAA-TM-NMFS-SWFC-77**

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Southwest Fisheries Center

## NOAA Technical Memorandum NMFS

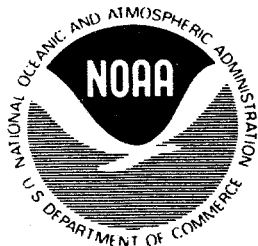
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**NOAA Technical Memorandum NMFS**

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THE RESEARCH VESSEL *McARTHUR*  
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La Jolla, California

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**U.S. DEPARTMENT OF COMMERCE**  
Malcolm Baldrige, Secretary  
**National Oceanic and Atmospheric Administration**  
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**National Marine Fisheries Service**  
William E. Evans, Assistant Administrator for Fisheries

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REPORT OF A MARINE MAMMAL SURVEY OF THE EASTERN TROPICAL PACIFIC  
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Alan Jackson

In 1984, as a result of an amendment to the Marine Mammal Protection Act of 1972, the National Marine Fisheries Service (NMFS) was mandated to conduct a research program to monitor trends in the abundance of stocks of dolphins in the eastern tropical Pacific (ETP). These dolphins are killed incidentally during fishing operations by the U. S. purse seine fishery for yellowfin tuna (Thunnus albacares). In 1986, the Southwest Fisheries Center (SWFC) of the NMFS initiated a five-year program to monitor these stocks of dolphins. In this first year of the program, two surveys of marine mammal populations in the ETP were conducted concurrently aboard the National Oceanic and Atmospheric Administration ships the David Starr Jordan and the McArthur. The surveys lasted 120 days each.

In this report, we describe the experimental procedures used during the surveys and we present summaries of the distance searched and marine mammals encountered from aboard the McArthur (Cruise AR 8608-12; SWFC Observer Cruise 990). A separate report of the David Starr Jordan cruise has been published by Holt and Sexton (1987). A report of environmental data collected during the surveys is reported by McDonald et al. (In prep.).

#### SURVEY OBJECTIVES

The primary objective of the cruise was to collect information to calculate relative abundance of dolphin species in the ETP that are taken incidentally by the purse seine fishery for yellowfin tuna. Specific objectives were to collect information to:

1. estimate school density, school size, and species composition of each species taken by the fishery;
2. investigate the physical and biological environment of the affected species; and
3. contribute to on-going U.S. and international programs investigating oceanography and ocean-atmosphere interactions in the ETP.

## MATERIALS AND METHODS

## Study Area and Itinerary

The McArthur traversed predetermined tracklines in the ETP from July 29 through December 6, 1986 (Figure 1), with scheduled port calls in Callao, Peru; Panama City, Panama; and Hilo, HI. Instead of stopping at Callao, however, the ship was diverted to Guayaquil, Ecuador and then made an additional stop at Panama City to obtain additional fuel. The itinerary of the ship included four segments or effort legs:

|          |             |                    |
|----------|-------------|--------------------|
| Leg 1.   |             |                    |
| Departed | San Diego   | July 29, 1986      |
| Arrived  | Guayaquil   | August 27, 1986    |
| Leg 2.   |             |                    |
| Departed | Guayaquil   | September 4, 1986  |
| Arrived  | Panama City | September 21, 1986 |
| Departed | Panama City | September 22, 1986 |
| Arrived  | Panama City | September 30, 1986 |
| Leg 3.   |             |                    |
| Departed | Panama City | October 4, 1986    |
| Arrived  | Hilo        | November 2, 1986   |
| Leg 4.   |             |                    |
| Departed | Hilo        | November 7, 1986   |
| Arrived  | San Diego   | December 6, 1986   |

## Scientific Personnel

| <u>Cruise Leaders</u>             | <u>Legs</u> |
|-----------------------------------|-------------|
| Steve Reilly, SWFC                | 1           |
| Rennie Holt, SWFC                 | 2           |
| Alan Jackson, SWFC                | 3-4         |
| <u>Identification Specialists</u> |             |
| Michael Newcomer, SWFC            | 1-4         |
| Scott Sinclair, SWFC              | 1-4         |
| <u>Observers</u>                  |             |
| Scott Benson, SWFC                | 1-4         |
| Carla Bisbee, SWFC                | 1-4         |
| Larry Robertson, SWFC             | 1-4         |
| David Scordal, SWFC               | 1-4         |

Other Scientists

|  |   |
|--|---|
| Alan Jackson, SWFC   | 2 |
| Oscar Vallarino, Smithsonian Tropical<br>Research Institute and Scripps Institution<br>of Oceanography | 3 |

## Marine Mammal Species Surveyed

During the survey, the observers recorded information on all species of whales and dolphins sighted throughout the cruise. However, rates of encountering sightings are presented only for dolphin species. Of these, only large schools with a mean minimum or mean best estimate of >14 animals were used.

## Equipment

The McArthur, commissioned in 1966, is 53.3 m in length and 11.6 m in breadth, and has a 3.7 m draft. During the surveys, the vessel maintained a cruising speed of approximately 18.5 km/hr.

Several pieces of equipment were used to gather data. The geographic position of the vessel was recorded periodically and at the time of a marine mammal sighting using the ship's Satellite Navigation System (SAT NAV). Marine mammals were detected using port and starboard pedestal mounted 25X Fuginon<sup>1</sup> binoculars and a variety of hand-held 7-15X binoculars. The glasses were mounted on the upper deck approximately 10.7 m above the sea surface. Surface temperature and salinity, fluorescence (chlorophyll), and temperature-depth profiles were obtained using a thermosalinograph, fluorometer, and expendable bathythermograph (XBT), respectively. Discrete conductivity and temperature-depth profiles were also obtained using conductivity-temperature-depth (CTD) probes.

The bearing and radial distances of marine mammals from the ship were calculated using two methods. First, the Computer Assisted Sighting Technology (CAST) system used information from several sensors to measure sighting angles and then to calculate radial distances. A CAMAC<sup>1</sup> computer collected data from various sources: the ship's course from the gyroscope; the electronically encoded train angles of the 25X binoculars; a measurement of the relative motion of the ship from a pitch-roll sensor; speed from the speed log; and information concerning survey status, such as identification of observers occupying survey positions from data pads located on the flying bridge. An IBM-compatible computer, which was interfaced with the CAMAC, was then used to process information to determine the sighting angle to the cue. Successive sighting angles, recorded as the ship traveled along the trackline, were used to calculate radial distances. Analyses of CAST data will be presented in a separate report.

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<sup>1</sup>Reference to trade names does not imply endorsement by the NMFS.

The second method was the use of estimates of the bearing and radial distance of a school from the ship, which were recorded by the observers using a 360° graduated washer attached to the base of the 25X binoculars and graduated reticles enclosed in the right eye piece of the binoculars.

A 35 mm F-1 Canon<sup>1</sup> camera with motor drive was used to photograph animals to aid in stock and species identification. The system included 400 mm, 75-210 mm zoom, and 28 mm lens. Some observers also used film supplied by the SWFC in personal camera equipment to photograph sightings. Animals were also recorded on 1.27 cm video tape using a Panasonic<sup>1</sup> VHS recorder and a Panasonic<sup>1</sup> camera equipped with telephoto lens.

#### Duty Stations

Three duty stations were used during the survey, with observers rotating through each station.

1. Left Binocular - The port-side observer used a 25X binocular, mounted on the port side of the ship to scan the ocean for marine mammal sighting cues. The major area of responsibility for this observer was from the midpoint of the trackline to abeam the port-side of the vessel and outward to the horizon or to the extent possible with prevailing environmental conditions.
2. Right Binocular - The starboard observer used a 25X binocular, mounted on the starboard side of the ship, to search from the midpoint of the trackline to abeam the right side of the ship; and outward to the horizon or to the extent possible with prevailing environmental conditions. Observers in the left and right positions frequently searched areas on the opposite side of the tracklines.
3. Recorder - The recorder's duties were to transcribe effort data at regular intervals, to make notes of information pertaining to each sighting, and, when possible, to search the trackline adjacent to the ship with hand held binoculars for schools not detected by the observers on the 25X glasses.

#### Observer Teams and Rotation

Two teams of three observers each alternately occupied the three duty stations. Each team was on duty for 2-hour shifts. During each shift members spent approximately equal time occupying each duty station. Two of the six observers had completed several marine mammal cruises in the ETP and were experts in identifying marine mammals. These two identification specialists were assigned to separate teams so that one would always be on duty. The other four observers were systematically assigned to a different team every three days. Team members



rotated among the duty stations and teams rotated on and off duty without interrupting searching effort. Teams alternated completing the first watch of the day.

#### Data Collection Procedures

A typical day's searching activity began at sunrise, approximately 0630 hours local time, and ended at sunset, approximately 1830 hours local time. The searching procedure was initiated when observers were occupying the duty stations and a recorder was in place to record information on the Research Vessel Effort Form (Figure 2). The ship traversed a predetermined trackline at a constant speed of approximately 18.5 km/hr. Except for approximately 2 to 3 hours per night when oceanographic data were collected, the ship maintained its speed and course between sunset and sunrise to provide wider spatial distribution of searching effort.

When a sighting cue (marine mammals, birds, splashes, etc.) was detected, it was determined if the cue was a marine mammal and if the cue was appropriate for tracking using the CAST system. Schools that were not tracked included whales, dolphins detected close to the vessel or at distances greater than 5.6 km lateral to the vessel, small schools of dolphins (<15 animals), and schools detected during poor sighting conditions. If tracking was appropriate, the searching effort was terminated and the observer began tracking by turning on a switch attached to the binocular stand. With the ship still on course and with the school in the field of view of the binoculars, the CAST system recorded successive bearings of the animals to the ship. After approximately 8 minutes the ship was directed towards the cue and the tracking continued for another 8 minutes. When the target was not in the field of view, the switch was deactivated until the target was again sighted. At the end of the tracking sequence, if the target was lost from view and not resighted, or if the cue was not a marine mammal, the tracking procedure was terminated. All marine mammal schools were approached to obtain estimates of school size and species composition. The searching mode was resumed when the vessel returned to course and speed and the observers resumed searching for other sighting cues.

During each marine mammal sighting, the recorder collected data to complete Research Vessel Effort and Research Vessel Sighting (Figure 3) forms. Definition of each data element is given by Ralston (1983)<sup>2</sup>. Criteria for assigning sun position and sea state conditions are given in Figure 4 and Table 1, respectively. Observers recorded bearing and range for schools using the 360° washer and reticle increments. The reticle measurements were converted to km using

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<sup>2</sup>Ralston, F. Ms. Usage procedures and coding notes for "Research Vessel sighting and effort records. Southwest Fisheries Center, P.O. Box 271, La Jolla, CA 92038.

$$a = 0.003942 \tan (\arctan (45242.52) - 0.001088 r),$$

where  $a$  equals radial distance in km and  $r$  denotes the number of reticles below the topmost reticle. Values in this equation were calculated by Barlow (per. comm.) using an equation presented by Smith (1982) and data collected during a previous research vessel cruise and the present ETP cruise.

Each observer who had a good view of the school independently recorded in his/her logbook an estimate of school size and a determination of species composition. All available observers determined species identification and animal behavior, and a consensus was entered on the Research Vessel Sighting and Research Vessel Continuation (Figure 5) Forms at the time of a sighting. Species identifications were validated when possible by photographing the school at close range using 35 mm and video cameras.

#### Data Analyses

Data were recorded for each Beaufort sea state and then grouped into (1) "calm" sea state conditions without whitecaps (Beaufort numbers 0-2) or (2) "rough" sea state conditions with whitecaps (Beaufort numbers 3-5). The presence of whitecaps was important in searching for sighting cues. Animal splashes could not be used as a sighting cue during rough seas because whitecaps were easily confused with the animal splashes.

Sun location was recorded by noting its horizontal and vertical position relative to the ship (Figure 4). Visibility effects were investigated by classifying sun positions into "good" and "poor" categories defined by the effect of the glare from the sun on the trackline. Criteria used were those described in Holt (In press). Poor sun conditions were recorded only when horizontal sun position was 12 and vertical position was 1, 2, or 3 or when there were clouds together with fog or rain. All other conditions were good conditions.

The rate of encountering marine mammal schools was determined as the simple ratio of sightings detected per 1000 km searched. The standard error of the encounter rate was calculated as

$$\hat{V}ar(n/L) = [\sum l_i [(n_i/l_i) - (n/L)]^2] / L(R - 1)$$

where  $n$  equals the number of dolphin schools detected in the survey,  $L$  equals the km searched,  $l_i$  equals km searched during the  $i$ th day,  $n_i$  equals schools detected during the  $i$ th day, and  $R$  equals number of days searched.

Encounter rates were calculated only for large dolphin schools (> 14 animals) detected during Beaufort states 0 through 5 (elimination of Beaufort 6 data discussed below). Rates were calculated for these schools detected in the entire study area and for schools stratified by area, species, individual Beaufort

numbers, calm and rough sea conditions, good and poor sun conditions, individual observers, and observer teams.

## RESULTS

Data describing each leg of searching effort during the entire survey are summarized in Table 2. Information summarized for each marine mammal sighting encountered during the survey is presented in Table 3. The geographic positions of all schools detected during the survey are presented for each species category (code) in Figures 6 through 19. Observer estimates of school size are presented by species codes in Table 4.

During the entire survey, observers searched 13,928 km and detected 381 marine mammal sightings (Table 5). Dolphins were detected in 250 schools and whales were detected in 148 schools (17 schools contained both dolphins and whales). This included 8 species of dolphins and 12 species of whales.

While operating in the searching mode in the study area (Figure 1), observers searched 13,157 km and detected 226 dolphin schools (Table 6). Searching effort was conducted during Beauforts 0 through 6 conditions, although since Beaufort 6 seas were very rough, data collected during these conditions were omitted from further analysis. During Beauforts 0 through 5, 12,172 km were searched and 219 dolphin schools were detected. Of the 219 dolphin schools, 147 were large schools (i.e., average school size greater than 14 animals)

The rate of detecting large schools in the study area was 12.07 schools/1000 km searched (Table 6). The McArthur conducted almost 58% of its effort in the west and south areas and only 21% of its effort in the inshore and northern areas. Detection rates were much higher in the inshore and northern areas than in the west and south areas (Table 6).

Sea conditions in the study area were very rough; only 10% of the searching effort was completed in calm seas (Table 6). However, 21% of all schools were detected during calm seas and the rate of detecting schools during calm seas was more than twice the rate detected during rough seas. Most of the rough sea effort occurred during Beaufort 5 conditions (44% of total effort-Figure 20). With the exception of Beaufort 0 data, which only represented 1% of the searching effort, the rates of detecting dolphins decreased as sea conditions became rougher (i.e., with increasing Beaufort number).

Poor visibility conditions occurred only during 8% of the surveying effort during which only 5% of the schools were detected (Table 6). The rate of detecting schools during good conditions was almost twice the rate during poor conditions.

All observers spent approximately equal time searching

(Table 6), although the percent of schools detected by individual observers ranged from 8 to 27%. Consequently, rates of detecting target schools also varied greatly (range of 1.98 to 6.68 schools/1000 km). Observer experience did not appear to be related to ability to detect dolphin schools. Observers 5 and 38 had completed several research vessel trips during which they searched through 25X binoculars. Observers 55 and 61 had completed several trips on tuna vessels, although observers on tuna vessels do not search through the 25X glasses. Observers 63 and 64 had no experience in the ETP. Although one of the two observers with research vessel experience had the highest detection rate and one of the two observers with no experience had the lowest rate, the second observer with no experience had a higher rate than the second observer with research vessel experience. In addition, one of the observers with tuna vessel experience had the second highest rate while the other had the second lowest rate.

Both teams spent approximately equal time searching (Table 6). Of the 147 large schools detected, 61% were detected by team 2 (when observer 38, the observer with the highest detection rate, was on duty). The rates of detecting schools by teams 1 and 2 were 9.30 and 15.12 schools/1000 km searched, respectively (Table 6). The larger rate by team 2 was due, in part, to the high detection rate of observer 38.

#### CONCLUSIONS

In this report, we have presented data on dolphin encounter rates, school size, and species composition which meet the primary objectives of the cruise aboard the McArthur. Data on effort and sightings have been summarized. We found that the rate of encountering dolphin schools was higher during calm seas than during rough seas, and the rate during good visibility conditions was higher than the rate during poor visibility conditions. Rates were higher in the inshore and northern areas than in the south and west areas. Encounter rates among observers were variable and there was no apparent correlation with observer experience.

#### ACKNOWLEDGMENTS

Through the work of many dedicated professionals, the cruise aboard the McArthur was successfully executed. Among those contributing to the success of the cruise were the observers who spent many hours collecting the data, the officers and crew of the McArthur who gave their continuous support, and L. Farrar (Jordan Port Captain) who provided liaison with ship support personnel and the scientists. G. Smith and N. Mendes of the NMFS Southwest Regional Office provided, through an inter-agency loan agreement, the services of S. Benson and L. Robertson. We also thank E. Duffin, R. Hopkins, and R. Schipper for their contribution to the CAST system. Critical logistical arrangements were completed by W. Parks, S. Sexton and P. Stangl. Special efforts were provided in procurement by B. Engstrand and

B. Watkins. Many people contributed to training the observers, including A. Myrick, R. Pitman, S. Reilly, M. Scott, and P. Stangl all of whom provided valuable assistance. The manuscript benefited from critical reviews by D. DeMaster, J. Michalski, S. Reilly, and S. Sexton. Part of the manuscript was typed by C. Ratcliffe and H. Orr constructed some of the figures. Finally, we are grateful to I. Barrett, J. Carr, D. DeMaster, B. Remington and G. Sakagawa for their support during the entire cruise preparation and execution.

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Table 1. Sea state conditions measured by the Beaufort scale (from Bowditch, 1966).

| Wind force (Beaufort) | Knots | Descriptive     | Sea Conditions  | Probable wave height in ft. |
|-----------------------|-------|-----------------|---|-----------------------------|
| 0                     | 0- 1  | Calm            | Sea smooth and mirror-like  | -                           |
| 1                     | 1- 3  | Light air       | Scale-like ripple without foam crests   | 1/4                         |
| 2                     | 4- 6  | Light breeze    | Small short wavelets; crests have a glassy appearance and do not break                              | 1/2                         |
| 3                     | 7-10  | Gentle breeze   | Large wavelets; some crests begin to break; foam of glassy appearance. Occasional white foam crests | 2                           |
| 4                     | 11-16 | Moderate breeze | Small waves, becoming longer; fairly frequent white foam crests                                     | 4                           |
| 5                     | 17-21 | Fresh breeze    | Moderate waves, taking a more pronounced long form; many white foam crests; there may be some spray | 6                           |
| 6                     | 22-27 | Strong breeze   | Large waves begin to form; white foam crests are more extensive everywhere; there may be some spray | 10                          |

Table 2. Daily searching effort recorded in the eastern tropical Pacific aboard the McArthur during July 29 through December 6, 1986.

| Series | Leg | Date   | Speed |    | Observer Codes |       | Sun Position |       | Beauf. No. | Course (Deg.) | Position |          | KM In Leg |
|--------|-----|--------|-------|----|----------------|-------|--------------|-------|------------|---------------|----------|----------|-----------|
|        |     |        | Km/Hr |    | Left           | Right | Rec.         | Horz. |            |               | Vert.    | Latitude |           |
| 01     | 01  | 860801 | 18.52 | 64 | 55             | 05    | 08           | 02    | 4          | 206           | 26 22 N  | 117 46 W | 1.54      |
| 02     | 01  | 860801 | 18.52 | 64 | 55             | 05    | 08           | 02    | 4          | 206           | 26 21 N  | 117 46 W | 1.85      |
| 03     | 01  | 860801 | 18.52 | 64 | 55             | 05    | 08           | 02    | 4          | 206           | 26 19 N  | 117 47 W | 6.17      |
| 03     | 02  | 860801 | 18.52 | 55 | 05             | 64    | 08           | 02    | 4          | 206           |          |          | 6.17      |
| 03     | 03  | 860801 | 18.52 | 05 | 64             | 55    | 08           | 02    | 4          | 206           |          |          | 6.17      |
| 03     | 04  | 860801 | 18.52 | 64 | 55             | 05    | 08           | 02    | 3          | 206           |          |          | 6.79      |
| 03     | 05  | 860801 | 18.52 | 55 | 05             | 64    | 08           | 01    | 3          | 206           |          |          | 6.79      |
| 03     | 06  | 860801 | 18.52 | 61 | 63             | 38    | 09           | 01    | 3          | 206           |          |          | 6.17      |
| 03     | 07  | 860801 | 18.52 | 63 | 38             | 61    | 09           | 01    | 4          | 206           |          |          | 6.17      |
| 03     | 08  | 860801 | 18.52 | 38 | 61             | 63    | 09           | 01    | 4          | 206           |          |          | 6.17      |
| 03     | 09  | 860801 | 18.52 | 61 | 63             | 38    | 09           | 01    | 4          | 206           |          |          | 6.17      |
| 03     | 10  | 860801 | 18.52 | 63 | 38             | 61    | 09           | 12    | 4          | 206           |          |          | 6.17      |
| 03     | 11  | 860801 | 18.52 | 55 | 64             | 05    | 09           | 12    | 4          | 206           | 25 46 N  | 118 03 W | 6.17      |
| 03     | 12  | 860801 | 18.52 | 64 | 05             | 55    | 09           | 12    | 4          | 206           |          |          | 6.17      |
| 03     | 13  | 860801 | 18.52 | 05 | 55             | 64    | 09           | 12    | 4          | 206           |          |          | 6.17      |
| 03     | 14  | 860801 | 18.52 | 55 | 64             | 05    | 09           | 12    | 4          | 206           |          |          | 6.17      |
| 03     | 15  | 860801 | 18.52 | 64 | 05             | 55    |              |       | 4          | 206           |          |          | 6.17      |
| 03     | 16  | 860801 | 18.52 | 05 | 55             | 64    |              |       | 4          | 206           |          |          | 6.17      |
| 03     | 17  | 860801 | 18.52 | 55 | 64             | 05    |              |       | 4          | 206           | 25 23 N  | 118 13 W | 6.17      |
| 03     | 18  | 860801 | 18.52 | 63 | 38             | 61    |              |       | 4          | 206           |          |          | 6.17      |
| 03     | 19  | 860801 | 18.52 | 38 | 61             | 63    |              |       | 3          | 206           |          |          | 6.17      |
| 03     | 20  | 860801 | 18.52 | 61 | 63             | 38    |              |       | 3          | 206           | 25 16 N  | 118 20 W | 6.17      |
| 03     | 21  | 860801 | 18.52 | 63 | 38             | 61    |              |       | 3          | 206           |          |          | 6.17      |
| 03     | 22  | 860801 | 18.52 | 38 | 61             | 63    |              |       | 3          | 206           |          |          | 6.17      |
| 03     | 23  | 860801 | 18.52 | 61 | 63             | 38    |              |       | 3          | 206           |          |          | 6.17      |
| 03     | 24  | 860801 | 18.52 | 63 | 38             | 61    |              |       | 3          | 206           | 25 06 N  | 118 25 W | 6.17      |
| 03     | 25  | 860801 | 18.52 | 38 | 61             | 63    |              |       | 3          | 206           |          |          | 3.09      |
| 03     | 26  | 860801 | 18.52 | 55 | 64             | 05    |              |       | 3          | 206           |          |          | 6.17      |
| 03     | 27  | 860801 | 18.52 | 64 | 05             | 55    |              |       | 3          | 206           | 24 57 N  | 118 30 W | 6.17      |
| 03     | 28  | 860801 | 18.52 | 05 | 55             | 64    |              |       | 3          | 206           |          |          | 6.17      |
| 03     | 29  | 860801 | 18.52 | 55 | 64             | 05    |              |       | 3          | 206           |          |          | 6.17      |
| 03     | 30  | 860801 | 18.52 | 64 | 05             | 55    |              |       | 3          | 206           | 24 48 N  | 118 35 W | 6.17      |
| 03     | 31  | 860801 | 18.52 | 05 | 55             | 64    |              |       | 3          | 206           |          |          | 6.17      |



Table 2. (continued)

| Series | Leg | Date   | Speed |  | Observer Codes |       | Sun Position |       | Beauf. No. | Course (Deg.) | Position |                  | KM In Leg |
|--------|-----|--------|-------|--|----------------|-------|--------------|-------|------------|---------------|----------|------------------|-----------|
|        |     |        | Km/Hr |  | Left           | Right | Rec.         | Horz. |            |               | Vert.    | Latitude         |           |
| 03     | 32  | 860801 | 18.52 |  | 63             | 61    | 38           |       |            | 3             | 206      |                  | 6.17      |
| 03     | 33  | 860801 | 18.52 |  | 61             | 38    | 63           |       |            | 3             | 206      |                  | 6.17      |
| 03     | 34  | 860801 | 18.52 |  | 38             | 63    | 61           |       |            | 3             | 206      | 24 32 N 118 44 W | 6.17      |
| 01     | 01  | 860802 | 18.52 |  | 63             | 61    | 38           |       |            | 3             | 206      | 22 50 N 119 35 W | 5.25      |
| 01     | 02  | 860802 | 18.52 |  | 55             | 64    | 05           | 08    | 03         | 3             | 206      |                  | 7.10      |
| 01     | 03  | 860802 | 18.52 |  | 61             | 38    | 63           | 08    | 02         | 2             | 206      |                  | 6.17      |
| 01     | 04  | 860802 | 18.52 |  | 38             | 63    | 61           | 08    | 02         | 2             | 206      |                  | 6.17      |
| 01     | 05  | 860802 | 18.52 |  | 63             | 61    | 38           | 08    | 02         | 2             | 206      |                  | 6.17      |
| 01     | 06  | 860802 | 18.52 |  | 61             | 38    | 63           | 08    | 02         | 2             | 206      |                  | 6.48      |
| 01     | 07  | 860802 | 18.52 |  | 55             | 64    | 05           |       |            | 2             | 206      |                  | 6.17      |
| 01     | 08  | 860802 | 18.52 |  | 61             | 05    | 55           | 08    | 02         | 2             | 206      |                  | 6.17      |
| 01     | 09  | 860802 | 18.52 |  | 05             | 55    | 64           | 09    | 02         | 2             | 206      |                  | 6.17      |
| 01     | 10  | 860802 | 18.52 |  | 55             | 64    | 05           | 09    | 02         | 2             | 206      |                  | 6.17      |
| 01     | 11  | 860802 | 18.52 |  | 64             | 05    | 55           | 09    | 01         | 2             | 206      |                  | 6.17      |
| 01     | 12  | 860802 | 18.52 |  | 05             | 55    | 64           | 09    | 01         | 2             | 206      |                  | 4.63      |
| 02     | 01  | 860802 | 18.52 |  | 55             | 64    | 05           | 09    | 01         | 2             | 208      |                  | 6.17      |
| 02     | 02  | 860802 | 18.52 |  | 61             | 63    | 38           | 09    | 12         | 1             | 208      |                  | 6.17      |
| 02     | 03  | 860802 | 18.52 |  | 63             | 38    | 61           | 09    | 12         | 1             | 208      | 21 55 N 120 00 W | 6.17      |
| 02     | 04  | 860802 | 18.52 |  | 38             | 61    | 63           | 09    | 12         | 1             | 208      |                  | 6.17      |
| 02     | 05  | 860802 | 18.52 |  | 61             | 63    | 38           | 12    | 12         | 1             | 208      |                  | 6.17      |
| 02     | 06  | 860802 | 18.52 |  | 63             | 05    | 61           | 12    | 12         | 1             | 208      |                  | 1.85      |
| 02     | 07  | 860802 | 18.52 |  | 63             | 38    | 05           | 12    | 12         | 1             | 208      | 21 45 N 120 05 W | 1.23      |
| 02     | 08  | 860802 | 18.52 |  | 63             | 38    | 61           | 12    | 12         | 1             | 208      |                  | 3.09      |
| 02     | 09  | 860802 | 18.52 |  | 38             | 61    | 63           | 12    | 12         | 1             | 208      |                  | 6.17      |
| 02     | 10  | 860802 | 18.52 |  | 64             | 55    | 05           | 12    | 12         | 1             | 208      |                  | 6.17      |
| 02     | 11  | 860802 | 18.52 |  | 55             | 05    | 64           | 01    | 01         | 1             | 208      |                  | 6.17      |
| 03     | 01  | 860802 | 18.52 |  | 55             | 64    | 05           | 01    | 01         | 1             | 206      | 21 35 N 120 12 W | 6.17      |
| 03     | 02  | 860802 | 18.52 |  | 64             | 05    | 55           | 01    | 01         | 1             | 206      |                  | 6.17      |
| 03     | 03  | 860802 | 18.52 |  | 05             | 55    | 64           | 02    | 02         | 1             | 206      |                  | 6.17      |
| 03     | 04  | 860802 | 18.52 |  | 55             | 64    | 05           | 02    | 02         | 1             | 206      |                  | 1.23      |
| 03     | 05  | 860802 | 18.52 |  | 63             | 61    | 38           | 02    | 02         | 1             | 206      |                  | 6.17      |
| 03     | 06  | 860802 | 18.52 |  | 61             | 38    | 63           | 02    | 02         | 1             | 206      | 21 21 N 120 17 W | 1.85      |
| 04     | 01  | 860802 | 18.52 |  | 61             | 38    | 63           | 02    | 02         | 1             | 206      |                  | 5.25      |
| 04     | 02  | 860802 | 18.52 |  | 63             | 38    | 61           | 02    | 02         | 1             | 206      |                  | 6.17      |
| 04     | 03  | 860802 | 18.52 |  | 63             | 61    | 38           | 03    | 02         | 1             | 206      | 21 16 N 120 22 W | 5.86      |
| 04     | 04  | 860802 | 18.52 |  | 61             | 38    | 63           | 03    | 02         | 1             | 206      |                  | 3.70      |
| 04     | 05  | 860802 | 18.52 |  | 55             | 64    | 05           | 03    | 02         | 1             | 206      |                  | 6.17      |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |      |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |      |
| 04     | 06  | 860802 | 18.52          | 64             | 05    | 55           | 03    | 02         | 1                | 206      | 21 06 N   | 120 26 W     | 7.10 |
| 04     | 07  | 860802 | 18.52          | 05             | 55    | 64           | 03    | 03         | 1                | 206      | 21 02 N   | 120 28 W     | 0.31 |
| 01     | 01  | 860803 | 18.52          | 55             | 64    | 05           | 08    | 03         | 2                | 193      | 19 21 N   | 121 20 W     | 7.10 |
| 01     | 02  | 860803 | 18.52          | 64             | 05    | 55           | 08    | 02         | 2                | 193      |           |              | 4.01 |
| 02     | 01  | 860803 | 18.52          | 05             | 55    | 64           | 09    | 02         | 2                | 193      | 19 13 N   | 121 25 W     | 5.56 |
| 03     | 01  | 860803 | 18.52          | 05             | 55    | 64           | 09    | 02         | 2                | 193      | 19 09 N   | 121 26 W     | 3.40 |
| 03     | 02  | 860803 | 18.52          | 63             | 38    | 61           | 09    | 02         | 2                | 193      |           |              | 3.70 |
| 04     | 01  | 860803 | 18.52          | 63             | 38    | 61           | 09    | 01         | 2                | 193      | 19 00 N   | 121 24 W     | 3.40 |
| 04     | 02  | 860803 | 18.52          | 38             | 61    | 63           | 09    | 01         | 2                | 193      |           |              | 6.17 |
| 04     | 03  | 860803 | 18.52          | 61             | 63    | 38           | 09    | 01         | 1                | 193      |           |              | 6.17 |
| 04     | 04  | 860803 | 18.52          | 63             | 38    | 61           | 09    | 01         | 1                | 193      |           |              | 6.17 |
| 04     | 05  | 860803 | 18.52          | 38             | 61    | 63           | 09    | 01         | 1                | 193      |           |              | 6.17 |
| 04     | 06  | 860803 | 18.52          | 61             | 63    | 38           | 09    | 12         | 1                | 193      |           |              | 1.85 |
| 04     | 07  | 860803 | 18.52          | 55             | 64    | 05           | 12    | 12         | 1                | 193      |           |              | 7.72 |
| 04     | 08  | 860803 | 18.52          | 64             | 05    | 55           | 12    | 12         | 1                | 193      |           |              | 0.62 |
| 05     | 01  | 860803 | 18.52          | 64             | 05    | 55           | 12    | 12         | 1                | 193      | 18 39 N   | 121 31 W     | 3.09 |
| 05     | 02  | 860803 | 18.52          | 05             | 55    | 64           | 12    | 12         | 1                | 193      |           |              | 6.17 |
| 05     | 03  | 860803 | 18.52          | 55             | 64    | 05           | 12    | 12         | 2                | 193      |           |              | 6.17 |
| 05     | 04  | 860803 | 18.52          | 64             | 05    | 55           | 12    | 12         | 2                | 193      |           |              | 4.63 |
| 06     | 01  | 860803 | 18.52          | 63             | 61    | 38           | 12    | 12         | 2                | 193      |           |              | 5.25 |
| 06     | 02  | 860803 | 18.52          | 63             | 61    | 38           | 12    | 12         | 2                | 213      | 18 22 N   | 121 36 W     | 1.54 |
| 06     | 03  | 860803 | 18.52          | 61             | 38    | 63           | 12    | 12         | 2                | 213      |           |              | 1.23 |
| 07     | 01  | 860803 | 18.52          | 61             | 38    | 63           | 12    | 12         | 2                | 193      | 18 20 N   | 121 38 W     | 4.63 |
| 07     | 02  | 860803 | 18.52          | 38             | 63    | 61           | 03    | 01         | 2                | 193      |           |              | 6.17 |
| 07     | 03  | 860803 | 18.52          | 63             | 61    | 38           | 03    | 01         | 2                | 193      |           |              | 6.17 |
| 07     | 04  | 860803 | 18.52          | 61             | 38    | 63           | 03    | 01         | 2                | 193      |           |              | 6.17 |
| 07     | 05  | 860803 | 18.52          | 38             | 63    | 61           | 03    | 01         | 3                | 193      |           |              | 3.40 |
| 07     | 06  | 860803 | 18.52          | 55             | 64    | 05           | 03    | 01         | 3                | 193      |           |              | 6.17 |
| 07     | 07  | 860803 | 18.52          | 64             | 05    | 55           | 03    | 01         | 3                | 193      |           |              | 6.79 |
| 07     | 08  | 860803 | 18.52          | 05             | 55    | 64           | 03    | 02         | 3                | 193      |           |              | 4.01 |
| 07     | 09  | 860803 | 18.52          | 38             | 61    | 63           | 03    | 02         | 3                | 193      |           |              | 2.16 |
| 08     | 01  | 860803 | 18.52          | 55             | 64    | 05           |       |            | 3                | 193      |           |              | 6.79 |
| 08     | 02  | 860803 | 18.52          | 61             | 63    | 38           | 03    | 02         | 3                | 193      | 17 43 N   | 121 46 W     | 6.17 |
| 08     | 03  | 860803 | 18.52          | 63             | 38    | 61           | 03    | 02         | 3                | 193      |           |              | 6.17 |
| 08     | 04  | 860803 | 18.52          | 38             | 61    | 63           | 03    | 02         | 3                | 193      |           |              | 6.17 |
| 08     | 05  | 860803 | 18.52          | 61             | 63    | 38           | 03    | 03         | 3                | 193      |           |              | 9.26 |
| 08     | 06  | 860803 | 18.52          | 63             | 38    | 61           | 03    | 03         | 3                | 193      |           |              | 6.17 |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Position |           | KM<br>In Leg |      |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|----------|-----------|--------------|------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      | Latitude | Longitude |              |      |
| 08     | 07  | 860803 | 18.52          | 38             | 61    | 63           | 03    | 03                   | 193      | 17 27 N   | 121 50 W     | 2.78 |
| 08     | 08  | 860803 | 18.52          | 38             | 61    | 63           | 03    | 03                   | 193      | 16 01 N   | 122 15 W     | 0.31 |
| 01     | 01  | 860804 | 18.52          | 38             | 61    | 05           |       |                      | 190      |           |              | 6.17 |
| 01     | 02  | 860804 | 18.52          | 55             | 64    | 05           | 09    | 03                   | 190      |           |              | 8.64 |
| 01     | 03  | 860804 | 18.52          | 63             | 61    | 38           | 09    | 03                   | 190      |           |              | 6.17 |
| 01     | 04  | 860804 | 18.52          | 63             | 38    | 61           | 09    | 02                   | 190      |           |              | 4.32 |
| 02     | 01  | 860804 | 18.52          | 63             | 38    | 61           | 09    | 02                   | 190      | 15 48 N   | 122 20 W     | 0.93 |
| 02     | 02  | 860804 | 18.52          | 38             | 61    | 63           | 09    | 02                   | 190      |           |              | 6.17 |
| 02     | 03  | 860804 | 18.52          | 61             | 63    | 38           | 09    | 02                   | 190      |           |              | 2.47 |
| 02     | 04  | 860804 | 18.52          | 55             | 64    | 05           | 09    | 02                   | 190      | 15 41 N   | 122 21 W     | 6.17 |
| 02     | 05  | 860804 | 18.52          | 64             | 05    | 55           | 09    | 02                   | 190      |           |              | 6.48 |
| 02     | 06  | 860804 | 18.52          | 05             | 55    | 64           | 09    | 01                   | 190      |           |              | 6.48 |
| 02     | 07  | 860804 | 18.52          | 55             | 64    | 05           | 09    | 01                   | 190      | 15 30 N   | 122 23 W     | 6.17 |
| 02     | 08  | 860804 | 18.52          | 64             | 05    | 55           | 09    | 01                   | 190      |           |              | 6.17 |
| 02     | 09  | 860804 | 18.52          | 05             | 55    | 64           | 09    | 01                   | 190      |           |              | 6.17 |
| 02     | 10  | 860804 | 18.52          | 63             | 61    | 38           | 09    | 01                   | 190      | 15 21 N   | 122 23 W     | 6.17 |
| 02     | 11  | 860804 | 18.52          | 61             | 38    | 63           | 09    | 01                   | 190      |           |              | 6.17 |
| 02     | 12  | 860804 | 18.52          | 38             | 63    | 61           | 09    | 01                   | 190      |           |              | 1.54 |
| 02     | 13  | 860804 | 18.52          | 64             | 05    | 55           | 09    | 01                   | 190      |           |              | 6.17 |
| 02     | 14  | 860804 | 18.52          | 38             | 63    | 61           | 12    | 12                   | 190      | 15 11 N   | 121 25 W     | 6.17 |
| 02     | 15  | 860804 | 18.52          | 63             | 61    | 38           | 12    | 12                   | 190      |           |              | 6.17 |
| 02     | 16  | 860804 | 18.52          | 61             | 38    | 63           | 12    | 12                   | 190      |           |              | 6.17 |
| 02     | 17  | 860804 | 18.52          | 61             | 38    | 63           | 12    | 12                   | 190      |           |              | 1.54 |
| 02     | 18  | 860804 | 18.52          | 38             | 63    | 61           | 12    | 12                   | 190      | 15 01 N   | 121 28 W     | 4.63 |
| 02     | 19  | 860804 | 18.52          | 55             | 64    | 05           | 12    | 12                   | 190      |           |              | 6.17 |
| 02     | 20  | 860804 | 18.52          | 64             | 05    | 55           | 12    | 12                   | 190      |           |              | 6.17 |
| 02     | 21  | 860804 | 18.52          | 05             | 55    | 64           | 03    | 03                   | 190      | 14 51 N   | 122 30 W     | 6.17 |
| 02     | 22  | 860804 | 18.52          | 55             | 64    | 05           | 03    | 03                   | 190      |           |              | 6.17 |
| 02     | 23  | 860804 | 18.52          | 64             | 05    | 55           | 03    | 03                   | 190      |           |              | 6.17 |
| 02     | 24  | 860804 | 18.52          | 05             | 55    | 64           | 03    | 03                   | 190      | 14 42 N   | 122 33 W     | 6.17 |
| 02     | 25  | 860804 | 18.52          | 63             | 61    | 38           | 03    | 03                   | 190      |           |              | 6.17 |
| 02     | 26  | 860804 | 18.52          | 61             | 38    | 63           | 03    | 03                   | 190      |           |              | 6.17 |
| 02     | 27  | 860804 | 18.52          | 38             | 63    | 61           | 03    | 03                   | 190      | 14 33 N   | 122 35 W     | 6.17 |
| 02     | 28  | 860804 | 18.52          | 63             | 61    | 38           | 03    | 03                   | 190      |           |              | 8.03 |
| 02     | 29  | 860804 | 18.52          | 55             | 64    | 55           | 03    | 03                   | 190      |           |              | 6.17 |
| 02     | 30  | 860804 | 18.52          | 64             | 55    | 05           | 03    | 03                   | 190      | 14 25 N   | 122 36 W     | 2.16 |
| 02     | 31  | 860804 | 18.52          | 63             | 61    | 38           | 03    | 03                   | 190      |           |              | 5.25 |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position<br>Horz. Vert. | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|-----------------------------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right |                             |            |                  | Latitude | Longitude        |              |
| 02     | 32  | 860804 | 18.52          | 55             | 64    | 05                          | 03         | 02               | 190      |                  | 7.10         |
| 02     | 33  | 860804 | 18.52          | 64             | 05    | 55                          | 03         | 02               | 190      | 14 13 N 122 39 W | 6.17         |
| 02     | 34  | 860804 | 18.52          | 05             | 55    | 64                          | 03         | 02               | 190      |                  | 6.17         |
| 02     | 35  | 860804 | 18.52          | 55             | 64    | 05                          | 03         | 02               | 190      |                  | 6.17         |
| 02     | 36  | 860804 | 18.52          | 64             | 05    | 55                          | 03         | 02               | 190      |                  | 6.17         |
| 02     | 37  | 860804 | 18.52          | 05             | 55    | 64                          | 03         | 03               | 190      | 13 59 N 122 41 W | 5.25         |
| 01     | 01  | 860805 | 18.52          | 05             | 55    | 64                          | 09         | 03               | 190      | 12 22 N 123 01 W | 6.17         |
| 01     | 02  | 860805 | 18.52          | 55             | 64    | 05                          | 09         | 03               | 190      |                  | 6.17         |
| 01     | 03  | 860805 | 18.52          | 64             | 05    | 55                          | 09         | 02               | 190      |                  | 3.40         |
| 02     | 01  | 860805 | 18.52          | 61             | 63    | 38                          | 09         | 02               | 190      | 12 15 N 123 06 W | 6.17         |
| 02     | 02  | 860805 | 18.52          | 63             | 38    | 61                          |            |                  | 190      |                  | 3.09         |
| 02     | 03  | 860805 | 18.52          | 61             | 38    | 63                          |            |                  | 190      | 12 09 N 123 07 W | 6.17         |
| 02     | 04  | 860805 | 18.52          | 38             | 61    | 55                          |            |                  | 190      |                  | 6.17         |
| 02     | 05  | 860805 | 18.52          | 61             | 65    | 38                          |            |                  | 190      |                  | 6.17         |
| 02     | 06  | 860805 | 18.52          | 65             | 38    | 61                          |            |                  | 190      |                  | 2.47         |
| 02     | 07  | 860805 | 18.52          | 65             | 38    | 61                          | 09         | 01               | 190      | 11 59 N 123 10 W | 4.94         |
| 02     | 08  | 860805 | 18.52          | 38             | 61    | 65                          | 09         | 01               | 190      |                  | 3.70         |
| 02     | 09  | 860805 | 18.52          | 55             | 64    | 05                          | 09         | 01               | 190      |                  | 6.17         |
| 02     | 10  | 860805 | 18.52          | 64             | 05    | 55                          | 09         | 01               | 190      |                  | 6.17         |
| 02     | 11  | 860805 | 18.52          | 05             | 55    | 64                          | 09         | 01               | 190      | 11 50 N 123 13 W | 6.17         |
| 02     | 12  | 860805 | 18.52          | 55             | 64    | 05                          | 09         | 12               | 190      |                  | 6.17         |
| 02     | 13  | 860805 | 18.52          | 64             | 05    | 55                          | 12         | 12               | 190      | 11 39 N 123 15 W | 6.17         |
| 02     | 14  | 860805 | 18.52          | 05             | 55    | 64                          | 12         | 12               | 190      |                  | 3.09         |
| 02     | 15  | 860805 | 18.52          | 05             | 55    | 64                          | 12         | 12               | 190      |                  | 0.93         |
| 03     | 01  | 860805 | 18.52          | 38             | 61    | 65                          | 12         | 12               | 190      | 11 30 N 123 17 W | 6.17         |
| 03     | 02  | 860805 | 18.52          | 61             | 65    | 38                          | 12         | 12               | 190      |                  | 6.17         |
| 03     | 03  | 860805 | 18.52          | 65             | 38    | 61                          | 12         | 12               | 190      |                  | 3.40         |
| 03     | 04  | 860805 | 18.52          | 65             | 38    | 61                          | 12         | 12               | 190      |                  | 0.93         |
| 04     | 01  | 860805 | 18.52          | 38             | 61    | 65                          | 02         | 01               | 190      |                  | 6.17         |
| 04     | 02  | 860805 | 18.52          | 61             | 65    | 38                          | 03         | 01               | 190      |                  | 6.17         |
| 04     | 03  | 860805 | 18.52          | 55             | 64    | 05                          | 03         | 01               | 190      | 11 10 N 123 23 W | 3.09         |
| 05     | 01  | 860805 | 18.52          | 64             | 05    | 55                          | 03         | 01               | 190      | 11 06 N 123 24 W | 11.73        |
| 05     | 02  | 860805 | 18.52          | 05             | 55    | 64                          | 03         | 02               | 190      | 11 02 N 123 24 W | 4.32         |
| 05     | 03  | 860805 | 18.52          | 05             | 55    | 64                          | 03         | 02               | 190      |                  | 1.85         |
| 05     | 04  | 860805 | 18.52          | 55             | 64    | 05                          | 03         | 02               | 190      |                  | 6.17         |
| 05     | 05  | 860805 | 18.52          | 64             | 05    | 55                          | 03         | 02               | 190      |                  | 6.17         |
| 05     | 06  | 860805 | 18.52          | 63             | 61    | 38                          | 03         | 02               | 190      | 10 50 N 123 27 W | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 05     | 07  | 860805 | 18.52          | 61             | 38    | 63           | 03    | 02            | 190              |          |           | 6.17         |
| 05     | 08  | 860805 | 18.52          | 38             | 63    | 61           | 03    | 02            | 190              |          |           | 1.23         |
| 05     | 09  | 860805 | 18.52          | 38             | 63    | 61           | 03    | 02            | 190              |          |           | 0.62         |
| 05     | 10  | 860805 | 18.52          | 38             | 63    | 61           | 03    | 02            | 190              | 10 42 N  | 123 29 W  | 4.32         |
| 05     | 11  | 860805 | 18.52          | 63             | 61    | 38           | 03    | 03            | 190              | 10 40 N  | 123 29 W  | 6.17         |
| 05     | 12  | 860805 | 18.52          | 61             | 38    | 63           | 03    | 03            | 190              |          |           | 4.63         |
| 05     | 13  | 860805 | 18.52          | 61             | 38    | 63           | 03    | 03            | 190              | 10 34 N  | 123 33 W  | 0.31         |
| 01     | 01  | 860806 | 18.52          | 63             | 61    | 38           |       |               | 190              | 08 58 N  | 123 48 W  | 6.17         |
| 01     | 02  | 860806 | 18.52          | 61             | 38    | 63           |       |               | 190              |          |           | 2.47         |
| 02     | 01  | 860806 | 18.52          | 38             | 63    | 61           |       |               | 190              | 08 54 N  | 123 53 W  | 6.17         |
| 02     | 02  | 860806 | 18.52          | 63             | 61    | 38           |       |               | 190              |          |           | 6.17         |
| 02     | 03  | 860806 | 18.52          | 61             | 38    | 63           | 09    | 02            | 190              |          |           | 2.16         |
| 03     | 01  | 860806 | 18.52          | 55             | 64    | 05           |       |               | 190              | 08 39 N  | 123 42 W  | 2.16         |
| 03     | 02  | 860806 | 18.52          | 55             | 64    | 05           |       |               | 190              |          |           | 4.01         |
| 03     | 03  | 860806 | 18.52          | 64             | 05    | 55           | 09    | 02            | 190              |          |           | 6.79         |
| 03     | 04  | 860806 | 18.52          | 05             | 55    | 64           | 09    | 01            | 190              |          |           | 6.17         |
| 03     | 05  | 860806 | 18.52          | 55             | 64    | 05           | 09    | 01            | 190              |          |           | 6.17         |
| 03     | 06  | 860806 | 18.52          | 64             | 05    | 55           | 09    | 01            | 190              |          |           | 1.54         |
| 03     | 07  | 860806 | 18.52          | 64             | 05    | 55           | 09    | 01            | 190              | 08 25 N  | 123 44 W  | 0.31         |
| 04     | 01  | 860806 | 18.52          | 63             | 61    | 38           | 09    | 12            | 190              |          |           | 6.17         |
| 04     | 02  | 860806 | 18.52          | 61             | 38    | 63           | 09    | 12            | 190              | 08 15 N  | 123 45 W  | 6.17         |
| 04     | 03  | 860806 | 18.52          | 38             | 63    | 61           | 12    | 12            | 190              |          |           | 2.47         |
| 05     | 01  | 860806 | 18.52          | 63             | 61    | 38           | 12    | 12            | 190              | 08 07 N  | 123 48 W  | 6.17         |
| 05     | 02  | 860806 | 18.52          | 61             | 38    | 63           | 12    | 12            | 190              |          |           | 6.17         |
| 05     | 03  | 860806 | 18.52          | 38             | 63    | 61           | 12    | 12            | 190              |          |           | 1.23         |
| 05     | 04  | 860806 | 18.52          | 55             | 64    | 05           | 12    | 12            | 190              |          |           | 7.10         |
| 05     | 05  | 860806 | 18.52          | 64             | 05    | 55           |       |               | 190              | 07 57 N  | 123 50 W  | 6.17         |
| 05     | 06  | 860806 | 18.52          | 05             | 55    | 64           | 12    | 12            | 190              |          |           | 2.16         |
| 01     | 01  | 860808 | 18.52          | 61             | 05    | 38           | 09    | 03            | 180              | 02 03 N  | 125 21 W  | 2.16         |
| 01     | 02  | 860808 | 18.52          | 61             | 05    | 63           | 09    | 03            | 180              |          |           | 4.01         |
| 01     | 03  | 860808 | 18.52          | 63             | 38    | 61           |       |               | 173              |          |           | 2.47         |
| 01     | 04  | 860808 | 18.52          | 63             | 38    | 61           | 09    | 03            | 173              |          |           | 3.70         |
| 01     | 05  | 860808 | 18.52          | 38             | 61    | 63           | 09    | 03            | 173              |          |           | 6.17         |
| 01     | 06  | 860808 | 18.52          | 61             | 63    | 38           |       |               | 173              |          |           | 6.17         |
| 01     | 07  | 860808 | 18.52          | 63             | 38    | 61           |       |               | 173              |          |           | 6.17         |
| 01     | 08  | 860808 | 18.52          | 38             | 61    | 63           |       |               | 173              | 01 46 N  | 125 20 W  | 1.23         |
| 02     | 01  | 860808 | 18.52          | 55             | 64    | 05           |       |               | 168              |          |           | 6.79         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 02     | 02  | 860808 | 18.52          | 55             | 64    | 05           |       | 6          | 168              | 01 40 N  | 125 21 W  | 0.31         |
| 03     | 01  | 860808 | 18.52          | 55             | 64    | 05           | 04    | 4          | 168              | 00 34 N  | 125 17 W  | 6.17         |
| 03     | 02  | 860808 | 18.52          | 64             | 05    | 55           | 04    | 4          | 168              | 00 29 N  | 125 16 W  | 2.47         |
| 04     | 01  | 860808 | 18.52          | 64             | 05    | 55           | 04    | 4          | 168              | 00 28 N  | 125 16 W  | 2.16         |
| 04     | 02  | 860808 | 18.52          | 05             | 55    | 64           | 04    | 4          | 168              |          |           | 6.17         |
| 04     | 03  | 860808 | 18.52          | 55             | 64    | 05           | 04    | 4          | 168              |          |           | 6.79         |
| 04     | 04  | 860808 | 18.52          | 55             | 64    | 05           | 04    | 4          | 168              | 00 21 N  | 125 15 W  | 0.31         |
| 01     | 01  | 860809 | 18.52          | 64             | 55    | 38           | 12    | 3          | 257              | 00 48 S  | 125 02 W  | 6.17         |
| 01     | 02  | 860809 | 18.52          | 55             | 38    | 64           | 12    | 3          | 257              |          |           | 6.17         |
| 01     | 03  | 860809 | 18.52          | 38             | 64    | 55           | 12    | 3          | 257              |          |           | 6.17         |
| 01     | 04  | 860809 | 18.52          | 64             | 55    | 38           | 12    | 3          | 257              | 00 51 S  | 125 11 W  | 6.17         |
| 01     | 05  | 860809 | 18.52          | 55             | 38    | 64           | 12    | 3          | 257              |          |           | 6.17         |
| 01     | 06  | 860809 | 18.52          | 38             | 64    | 55           | 12    | 3          | 257              |          |           | 6.17         |
| 02     | 01  | 860809 | 18.52          | 61             | 63    | 05           | 12    | 3          | 257              | 00 53 S  | 125 21 W  | 1.85         |
| 02     | 02  | 860809 | 18.52          | 63             | 05    | 61           | 02    | 3          | 257              |          |           | 6.17         |
| 02     | 03  | 860809 | 18.52          | 63             | 05    | 61           | 02    | 3          | 257              | 00 54 S  | 125 28 W  | 1.23         |
| 03     | 01  | 860809 | 18.52          | 63             | 05    | 61           | 02    | 3          | 257              | 00 55 S  | 125 31 W  | 3.09         |
| 03     | 02  | 860809 | 18.52          | 05             | 61    | 63           | 02    | 3          | 257              | 00 55 S  | 125 31 W  | 0.62         |
| 03     | 03  | 860809 | 18.52          | 61             | 63    | 05           | 02    | 3          | 257              | 00 55 S  | 125 31 W  | 6.17         |
| 03     | 04  | 860809 | 18.52          | 63             | 05    | 61           | 02    | 3          | 257              |          |           | 7.72         |
| 03     | 05  | 860809 | 18.52          | 55             | 64    | 38           | 02    | 3          | 257              | 00 58 S  | 125 41 W  | 7.72         |
| 03     | 06  | 860809 | 18.52          | 64             | 38    | 55           | 02    | 3          | 257              |          |           | 6.17         |
| 03     | 07  | 860809 | 18.52          | 05             | 61    | 63           | 02    | 3          | 257              | 01 00 S  | 125 50 W  | 6.17         |
| 03     | 08  | 860809 | 18.52          | 38             | 55    | 64           | 01    | 3          | 257              |          |           | 9.26         |
| 03     | 09  | 860809 | 18.52          | 55             | 64    | 38           | 01    | 3          | 257              |          |           | 6.17         |
| 03     | 10  | 860809 | 18.52          | 64             | 38    | 55           | 01    | 3          | 257              | 01 03 S  | 126 02 W  | 3.40         |
| 04     | 01  | 860809 | 18.52          | 63             | 61    | 05           | 01    | 3          | 257              | 01 04 S  | 126 05 W  | 1.85         |
| 04     | 02  | 860809 | 18.52          | 63             | 61    | 05           | 11    | 3          | 315              |          |           | 0.62         |
| 04     | 03  | 860809 | 18.52          | 63             | 61    | 05           | 01    | 3          | 257              |          |           | 8.03         |
| 04     | 04  | 860809 | 18.52          | 63             | 61    | 05           | 01    | 3          | 257              | 01 04 S  | 126 10 W  | 0.31         |
| 01     | 01  | 860810 | 18.52          | 05             | 61    | 63           | 06    | 2          | 265              | 01 36 S  | 127 48 W  | 6.17         |
| 01     | 02  | 860810 | 18.52          | 61             | 63    | 05           | 06    | 2          | 265              |          |           | 7.10         |
| 02     | 01  | 860810 | 18.52          | 55             | 64    | 38           | 06    | 3          | 265              | 01 42 S  | 128 07 W  | 8.95         |
| 02     | 02  | 860810 | 18.52          | 64             | 38    | 55           | 06    | 3          | 265              |          |           | 9.57         |
| 03     | 01  | 860810 | 18.52          | 61             | 63    | 05           | 05    | 3          | 262              | 01 46 S  | 128 15 W  | 6.17         |
| 03     | 02  | 860810 | 18.52          | 63             | 05    | 61           | 05    | 3          | 262              | 01 47 S  | 128 17 W  | 1.23         |
| 03     | 03  | 860810 | 18.52          | 38             | 55    | 64           | 05    | 3          | 262              |          |           | 4.63         |

Table 2. (continued)

| Series | Leg | Date   | Speed |  | Observer Codes |       | Sun Position |       | Beauf. No. | Course (Deg.) | Position |                  | KM In Leg |
|--------|-----|--------|-------|--|----------------|-------|--------------|-------|------------|---------------|----------|------------------|-----------|
|        |     |        | Km/Hr |  | Left           | Right | Rec.         | Horz. |            |               | Vert.    | Latitude         |           |
| 03     | 04  | 860810 | 18.52 |  | 63             | 61    | 05           | 12    | 12         | 3             | 262      |                  | 10.49     |
| 03     | 05  | 860810 | 18.52 |  | 61             | 05    | 63           | 12    | 12         | 3             | 262      |                  | 4.01      |
| 04     | 01  | 860810 | 18.52 |  | 05             | 63    | 61           | 12    | 12         | 3             | 264      | 01 46 S 128 35 W | 6.17      |
| 04     | 02  | 860810 | 18.52 |  | 63             | 61    | 05           | 12    | 12         | 3             | 264      |                  | 6.79      |
| 04     | 03  | 860810 | 18.52 |  | 55             | 38    | 64           | 01    | 01         | 3             | 264      | 01 47 S 128 42 W | 7.41      |
| 04     | 04  | 860810 | 18.52 |  | 38             | 64    | 55           | 01    | 01         | 3             | 264      |                  | 3.40      |
| 05     | 01  | 860810 | 18.52 |  | 38             | 64    | 55           | 01    | 01         | 3             | 264      | 01 48 S 128 50 W | 2.16      |
| 06     | 01  | 860810 | 18.52 |  | 55             | 38    | 64           | 01    | 01         | 2             | 275      | 01 51 S 128 55 W | 7.10      |
| 06     | 02  | 860810 | 18.52 |  | 38             | 64    | 55           | 01    | 01         | 3             | 275      |                  | 1.85      |
| 06     | 03  | 860810 | 18.52 |  | 63             | 61    | 05           | 01    | 01         | 3             | 275      |                  | 6.17      |
| 06     | 04  | 860810 | 18.52 |  | 61             | 05    | 63           | 01    | 01         | 3             | 275      | 01 51 S 128 57 W | 7.72      |
| 06     | 05  | 860810 | 18.52 |  | 05             | 63    | 61           | 01    | 02         | 3             | 275      |                  | 6.17      |
| 06     | 06  | 860810 | 18.52 |  | 63             | 61    | 05           | 01    | 02         | 3             | 275      |                  | 6.17      |
| 06     | 07  | 860810 | 18.52 |  | 61             | 05    | 63           | 01    | 02         | 3             | 275      | 01 50 S 129 15 W | 6.17      |
| 06     | 08  | 860810 | 18.52 |  | 05             | 63    | 61           | 01    | 02         | 3             | 275      |                  | 6.17      |
| 06     | 09  | 860810 | 18.52 |  | 55             | 64    | 38           | 12    | 02         | 3             | 275      |                  | 6.17      |
| 06     | 10  | 860810 | 18.52 |  | 64             | 38    | 55           | 12    | 02         | 3             | 275      |                  | 1.85      |
| 06     | 11  | 860810 | 18.52 |  | 64             | 38    | 55           | 01    | 02         | 3             | 257      | 01 48 S 129 25 W | 5.56      |
| 06     | 12  | 860810 | 18.52 |  | 55             | 38    | 64           | 01    | 03         | 3             | 257      | 01 49 S 129 30 W | 1.23      |
| 01     | 01  | 860811 | 18.52 |  | 55             | 64    | 38           | 11    | 03         | 4             | 092      | 02 03 S 130 37 W | 6.17      |
| 01     | 02  | 860811 | 18.52 |  | 64             | 38    | 55           | 11    | 02         | 4             | 092      |                  | 6.17      |
| 01     | 03  | 860811 | 18.52 |  | 38             | 55    | 64           | 11    | 02         | 4             | 092      |                  | 5.56      |
| 01     | 04  | 860811 | 18.52 |  | 38             | 55    | 64           | 11    | 02         | 4             | 092      |                  | 0.62      |
| 01     | 05  | 860811 | 18.52 |  | 55             | 64    | 38           | 11    | 02         | 4             | 092      | 02 03 S 130 25 W | 6.17      |
| 01     | 06  | 860811 | 18.52 |  | 64             | 38    | 55           | 11    | 01         | 4             | 092      |                  | 3.70      |
| 01     | 07  | 860811 | 18.52 |  | 64             | 38    | 55           | 11    | 01         | 4             | 092      |                  | 2.47      |
| 01     | 08  | 860811 | 18.52 |  | 38             | 55    | 64           | 11    | 01         | 4             | 092      | 02 04 S 130 19 W | 6.17      |
| 01     | 09  | 860811 | 18.52 |  | 63             | 61    | 05           | 11    | 01         | 5             | 092      |                  | 3.40      |
| 02     | 01  | 860811 | 18.52 |  | 63             | 61    | 05           | 11    | 01         | 5             | 096      |                  | 4.32      |
| 02     | 02  | 860811 | 18.52 |  | 61             | 05    | 63           | 11    | 01         | 5             | 096      | 02 01 S 130 13 W | 4.01      |
| 03     | 01  | 860811 | 18.52 |  | 61             | 05    | 63           | 11    | 01         | 5             | 096      |                  | 1.85      |
| 03     | 02  | 860811 | 18.52 |  | 05             | 63    | 61           | 11    | 01         | 5             | 096      |                  | 2.16      |
| 03     | 03  | 860811 | 18.52 |  | 55             | 38    | 64           | 11    | 01         | 5             | 096      |                  | 6.17      |
| 03     | 04  | 860811 | 18.52 |  | 38             | 64    | 55           | 11    | 01         | 5             | 096      | 02 02 S 130 04 W | 6.17      |
| 03     | 05  | 860811 | 18.52 |  | 64             | 55    | 38           | 11    | 01         | 5             | 096      |                  | 6.17      |
| 03     | 06  | 860811 | 18.52 |  | 55             | 38    | 64           | 11    | 01         | 5             | 096      | 02 03 S 129 58 W | 6.17      |
| 03     | 07  | 860811 | 18.52 |  | 38             | 64    | 55           | 11    | 12         | 5             | 096      | 02 03 S 129 55 W | 6.17      |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      |                  | Latitude | Longitude        |              |
| 03     | 08  | 860811 | 18.52          | 64             | 55    | 38           | 09    | 12                   | 5                | 096      |                  | 8.33         |
| 03     | 09  | 860811 | 18.52          | 63             | 61    | 05           | 09    | 12                   | 5                | 096      |                  | 6.17         |
| 03     | 10  | 860811 | 18.52          | 61             | 05    | 63           | 09    | 12                   | 5                | 096      | 02 05 S 129 46 W | 6.17         |
| 03     | 11  | 860811 | 18.52          | 05             | 63    | 61           | 12    | 12                   | 5                | 096      |                  | 7.10         |
| 03     | 12  | 860811 | 18.52          | 63             | 61    | 05           | 12    | 12                   | 5                | 096      | 02 04 S 129 41 W | 6.17         |
| 03     | 13  | 860811 | 18.52          | 61             | 05    | 63           | 12    | 12                   | 5                | 096      |                  | 6.17         |
| 03     | 14  | 860811 | 18.52          | 05             | 63    | 61           | 07    | 01                   | 5                | 096      |                  | 5.25         |
| 03     | 15  | 860811 | 18.52          | 55             | 64    | 38           | 07    | 01                   | 5                | 096      |                  | 6.17         |
| 03     | 16  | 860811 | 18.52          | 64             | 38    | 55           | 07    | 01                   | 5                | 096      | 02 06 S 129 28 W | 2.47         |
| 03     | 17  | 860811 | 18.52          | 63             | 61    | 05           | 07    | 01                   | 5                | 096      |                  | 6.79         |
| 03     | 18  | 860811 | 18.52          | 64             | 38    | 55           | 07    | 01                   | 5                | 096      |                  | 6.17         |
| 03     | 19  | 860811 | 18.52          | 38             | 55    | 64           | 07    | 01                   | 5                | 096      | 02 08 S 129 20 W | 6.17         |
| 03     | 20  | 860811 | 18.52          | 55             | 64    | 38           | 07    | 02                   | 5                | 096      |                  | 6.17         |
| 03     | 21  | 860811 | 18.52          | 64             | 38    | 55           | 07    | 02                   | 5                | 096      |                  | 5.25         |
| 03     | 22  | 860811 | 18.52          | 63             | 05    | 61           | 07    | 02                   | 5                | 096      |                  | 4.01         |
| 03     | 23  | 860811 | 18.52          | 63             | 05    | 61           | 07    | 02                   | 5                | 096      | 02 09 S 129 09 W | 2.16         |
| 03     | 24  | 860811 | 18.52          | 05             | 61    | 63           | 07    | 02                   | 5                | 096      |                  | 6.17         |
| 04     | 01  | 860811 | 18.52          | 61             | 63    | 05           |       |                      | 5                | 096      |                  | 6.79         |
| 04     | 02  | 860811 | 18.52          | 63             | 05    | 61           | 07    | 03                   | 5                | 096      | 02 10 S 129 00 W | 6.48         |
| 04     | 03  | 860811 | 18.52          | 63             | 05    | 61           | 07    | 03                   | 5                | 096      | 02 10 S 128 57 W | 0.31         |
| 01     | 01  | 860812 | 18.52          | 61             | 63    | 05           | 11    | 03                   | 6                | 095      | 02 22 S 127 33 W | 6.48         |
| 01     | 02  | 860812 | 18.52          | 63             | 38    | 61           | 11    | 03                   | 6                | 095      |                  | 6.17         |
| 01     | 03  | 860812 | 18.52          | 05             | 61    | 63           | 11    | 03                   | 6                | 095      |                  | 0.93         |
| 01     | 04  | 860812 | 18.52          | 05             | 61    | 63           | 11    | 03                   | 6                | 095      | 02 23 S 127 26 W | 0.31         |
| 01     | 01  | 860813 | 18.52          | 55             | 38    | 63           | 11    | 03                   | 4                | 091      | 02 31 S 124 28 W | 6.17         |
| 01     | 02  | 860813 | 18.52          | 38             | 63    | 55           |       |                      | 5                | 091      |                  | 6.17         |
| 01     | 03  | 860813 | 18.52          | 63             | 55    | 38           |       |                      | 5                | 091      |                  | 6.17         |
| 01     | 04  | 860813 | 18.52          | 55             | 38    | 63           |       |                      | 5                | 091      |                  | 6.17         |
| 01     | 05  | 860813 | 18.52          | 38             | 63    | 55           |       |                      | 6                | 091      | 02 30 S 124 16 W | 4.63         |
| 02     | 01  | 860813 | 18.52          | 64             | 05    | 61           | 07    | 01                   | 5                | 091      |                  | 1.85         |
| 02     | 02  | 860813 | 18.52          | 64             | 05    | 61           | 07    | 01                   | 5                | 091      | 02 30 S 123 25 W | 4.32         |
| 02     | 03  | 860813 | 18.52          | 05             | 61    | 64           | 07    | 01                   | 5                | 091      |                  | 6.17         |
| 02     | 04  | 860813 | 18.52          | 61             | 64    | 05           | 07    | 01                   | 5                | 091      |                  | 3.70         |
| 02     | 05  | 860813 | 18.52          | 61             | 64    | 05           |       |                      | 5                | 091      |                  | 2.47         |
| 02     | 06  | 860813 | 18.52          | 64             | 05    | 61           |       |                      | 5                | 091      | 02 29 S 123 16 W | 6.17         |
| 02     | 07  | 860813 | 18.52          | 05             | 61    | 64           |       |                      | 5                | 091      |                  | 6.17         |
| 02     | 08  | 860813 | 18.52          | 61             | 64    | 05           |       |                      | 5                | 091      |                  | 4.32         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Position |          | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|----------|----------|--------------|
|        |     |        |                | Left           | Right | Rec.         | Horz. |                      | Vert.    | Latitude |              |
| 05     | 03  | 860815 | 18.52          | 63             | 55    | 38           | 09    | 12                   | 6        | 107      | 1.23         |
| 06     | 01  | 860815 | 18.52          | 63             | 55    | 38           | 09    | 12                   | 6        | 107      | 1.85         |
| 06     | 02  | 860815 | 18.52          | 64             | 61    | 05           | 09    | 12                   | 6        | 107      | 6.17         |
| 06     | 03  | 860815 | 18.52          | 61             | 05    | 64           | 09    | 01                   | 6        | 107      | 6.17         |
| 06     | 04  | 860815 | 18.52          | 05             | 64    | 61           | 09    | 01                   | 6        | 107      | 6.17         |
| 06     | 05  | 860815 | 18.52          | 64             | 61    | 05           | 07    | 01                   | 6        | 107      | 6.17         |
| 06     | 06  | 860815 | 18.52          | 61             | 05    | 64           | 07    | 01                   | 6        | 107      | 6.17         |
| 06     | 07  | 860815 | 18.52          | 05             | 64    | 61           | 06    | 01                   | 6        | 107      | 6.17         |
| 06     | 08  | 860815 | 18.52          | 55             | 63    | 38           | 06    | 01                   | 6        | 107      | 6.17         |
| 06     | 09  | 860815 | 18.52          | 63             | 38    | 55           | 06    | 01                   | 6        | 107      | 6.17         |
| 06     | 10  | 860815 | 18.52          | 38             | 55    | 63           | 06    | 01                   | 6        | 107      | 3.70         |
| 06     | 11  | 860815 | 18.52          | 64             | 61    | 05           | 06    | 01                   | 6        | 107      | 7.41         |
| 06     | 12  | 860815 | 18.52          | 55             | 63    | 38           | 06    | 02                   | 6        | 107      | 1.85         |
| 07     | 01  | 860815 | 18.52          | 63             | 38    | 55           | 06    | 02                   | 5        | 107      | 3.70         |
| 07     | 02  | 860815 | 18.52          | 64             | 61    | 05           | 06    | 02                   | 5        | 107      | 6.17         |
| 07     | 03  | 860815 | 18.52          | 61             | 05    | 64           | 06    | 02                   | 5        | 107      | 6.17         |
| 07     | 04  | 860815 | 18.52          | 05             | 64    | 61           | 06    | 03                   | 5        | 107      | 4.01         |
| 07     | 05  | 860815 | 18.52          | 05             | 64    | 61           | 06    | 03                   | 5        | 107      | 0.31         |
| 01     | 01  | 860816 | 18.52          | 64             | 61    | 05           | 11    | 03                   | 5        | 106      | 6.17         |
| 01     | 02  | 860816 | 18.52          | 61             | 05    | 64           | 11    | 03                   | 5        | 106      | 1.23         |
| 01     | 03  | 860816 | 18.52          | 61             | 05    | 64           |       |                      | 5        | 106      | 2.16         |
| 01     | 04  | 860816 | 18.52          | 61             | 05    | 64           | 11    | 02                   | 5        | 106      | 2.78         |
| 01     | 05  | 860816 | 18.52          | 05             | 64    | 61           | 11    | 02                   | 5        | 106      | 4.63         |
| 01     | 06  | 860816 | 18.52          | 05             | 64    | 61           |       |                      | 5        | 106      | 0.93         |
| 01     | 07  | 860816 | 18.52          | 05             | 64    | 61           | 11    | 02                   | 5        | 106      | 0.93         |
| 02     | 01  | 860816 | 18.52          | 64             | 61    | 05           |       |                      | 5        | 106      | 2.16         |
| 02     | 02  | 860816 | 18.52          | 64             | 61    | 05           |       |                      | 5        | 106      | 4.01         |
| 02     | 03  | 860816 | 18.52          | 61             | 05    | 64           |       |                      | 5        | 106      | 4.01         |
| 02     | 04  | 860816 | 18.52          | 63             | 55    | 38           |       |                      | 5        | 106      | 6.17         |
| 02     | 05  | 860816 | 18.52          | 55             | 38    | 63           | 11    | 01                   | 5        | 106      | 6.17         |
| 02     | 06  | 860816 | 18.52          | 38             | 63    | 55           | 11    | 01                   | 5        | 106      | 4.94         |
| 02     | 07  | 860816 | 18.52          | 38             | 63    | 55           | 11    | 01                   | 5        | 105      | 1.23         |
| 02     | 08  | 860816 | 18.52          | 63             | 55    | 38           | 11    | 01                   | 5        | 105      | 6.17         |
| 02     | 09  | 860816 | 18.52          | 55             | 38    | 63           | 11    | 01                   | 5        | 105      | 3.70         |
| 03     | 01  | 860816 | 18.52          | 38             | 63    | 55           | 11    | 01                   | 5        | 104      | 1.23         |
| 03     | 02  | 860816 | 18.52          | 61             | 64    | 05           | 11    | 12                   | 5        | 104      | 6.17         |
| 03     | 03  | 860816 | 18.52          | 64             | 05    | 61           | 11    | 12                   | 5        | 104      | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Rec.         | Horz. |            |                  | Vert.    | Latitude         |              |
| 05     | 03  | 860815 | 18.52          | 63             | 55    | 38           | 09    | 12         | 6                | 107      |                  | 1.23         |
| 06     | 01  | 860815 | 18.52          | 63             | 55    | 38           | 09    | 12         | 6                | 107      | 02 46 S 117 09 W | 1.85         |
| 06     | 02  | 860815 | 18.52          | 64             | 61    | 05           | 09    | 12         | 6                | 107      |                  | 6.17         |
| 06     | 03  | 860815 | 18.52          | 61             | 05    | 64           | 09    | 01         | 6                | 107      | 02 47 S 117 06 W | 6.17         |
| 06     | 04  | 860815 | 18.52          | 05             | 64    | 61           | 09    | 01         | 6                | 107      |                  | 6.17         |
| 06     | 05  | 860815 | 18.52          | 64             | 61    | 05           | 07    | 01         | 6                | 107      |                  | 6.17         |
| 06     | 06  | 860815 | 18.52          | 61             | 05    | 64           | 07    | 01         | 6                | 107      | 02 49 S 116 59 W | 6.17         |
| 06     | 07  | 860815 | 18.52          | 05             | 64    | 61           | 06    | 01         | 6                | 107      |                  | 6.17         |
| 06     | 08  | 860815 | 18.52          | 55             | 63    | 38           | 06    | 01         | 6                | 107      |                  | 6.17         |
| 06     | 09  | 860815 | 18.52          | 63             | 38    | 55           | 06    | 01         | 6                | 107      | 02 52 S 116 50 W | 6.17         |
| 06     | 10  | 860815 | 18.52          | 38             | 55    | 63           | 06    | 01         | 6                | 107      |                  | 3.70         |
| 06     | 11  | 860815 | 18.52          | 64             | 61    | 05           | 06    | 01         | 6                | 107      |                  | 7.41         |
| 06     | 12  | 860815 | 18.52          | 55             | 63    | 38           | 06    | 02         | 6                | 107      | 02 55 S 116 43 W | 1.85         |
| 07     | 01  | 860815 | 18.52          | 63             | 38    | 55           | 06    | 02         | 5                | 107      |                  | 3.70         |
| 07     | 02  | 860815 | 18.52          | 64             | 61    | 05           | 06    | 02         | 5                | 107      |                  | 6.17         |
| 07     | 03  | 860815 | 18.52          | 61             | 05    | 64           | 06    | 02         | 5                | 107      |                  | 6.17         |
| 07     | 04  | 860815 | 18.52          | 05             | 64    | 61           | 06    | 03         | 5                | 107      |                  | 4.01         |
| 07     | 05  | 860815 | 18.52          | 05             | 64    | 61           | 06    | 03         | 5                | 107      | 03 00 S 116 30 W | 0.31         |
| 01     | 01  | 860816 | 18.52          | 64             | 61    | 05           | 11    | 03         | 5                | 106      | 03 40 S 114 45 W | 6.17         |
| 01     | 02  | 860816 | 18.52          | 61             | 05    | 64           | 11    | 03         | 5                | 106      |                  | 1.23         |
| 01     | 03  | 860816 | 18.52          | 61             | 05    | 64           |       |            | 5                | 106      |                  | 2.16         |
| 01     | 04  | 860816 | 18.52          | 61             | 05    | 64           | 11    | 02         | 5                | 106      |                  | 2.78         |
| 01     | 05  | 860816 | 18.52          | 05             | 64    | 61           | 11    | 02         | 5                | 106      | 03 42 S 114 40 W | 4.63         |
| 01     | 06  | 860816 | 18.52          | 05             | 64    | 61           |       |            | 5                | 106      |                  | 0.93         |
| 01     | 07  | 860816 | 18.52          | 05             | 64    | 61           | 11    | 02         | 5                | 106      |                  | 0.93         |
| 02     | 01  | 860816 | 18.52          | 64             | 61    | 05           |       |            | 5                | 106      | 03 43 S 114 33 W | 2.16         |
| 02     | 02  | 860816 | 18.52          | 64             | 61    | 05           |       |            | 5                | 106      |                  | 4.01         |
| 02     | 03  | 860816 | 18.52          | 61             | 05    | 64           |       |            | 5                | 106      | 03 45 S 114 30 W | 4.01         |
| 02     | 04  | 860816 | 18.52          | 63             | 55    | 38           |       |            | 5                | 106      |                  | 6.17         |
| 02     | 05  | 860816 | 18.52          | 55             | 38    | 63           | 11    | 01         | 5                | 106      |                  | 6.17         |
| 02     | 06  | 860816 | 18.52          | 38             | 63    | 55           | 11    | 01         | 5                | 106      |                  | 4.94         |
| 02     | 07  | 860816 | 18.52          | 38             | 63    | 55           | 11    | 01         | 5                | 105      | 03 47 S 114 23 W | 1.23         |
| 02     | 08  | 860816 | 18.52          | 63             | 55    | 38           | 11    | 01         | 5                | 105      |                  | 6.17         |
| 02     | 09  | 860816 | 18.52          | 55             | 38    | 63           | 11    | 01         | 5                | 105      |                  | 3.70         |
| 03     | 01  | 860816 | 18.52          | 38             | 63    | 55           | 11    | 01         | 5                | 104      | 03 54 S 114 18 W | 1.23         |
| 03     | 02  | 860816 | 18.52          | 61             | 64    | 05           | 11    | 12         | 5                | 104      |                  | 6.17         |
| 03     | 03  | 860816 | 18.52          | 64             | 05    | 61           | 11    | 12         | 5                | 104      | 03 55 S 114 14 W | 6.17         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Rec.         | Horz. |            |                  | Vert.    | Latitude         |              |
| 01     | 16  | 860817 | 18.52          | 63             | 55    | 38           | 12    | 12         | 4                | 105      | 04 44 S 110 48 W | 6.17         |
| 01     | 17  | 860817 | 18.52          | 55             | 38    | 63           | 12    | 12         | 4                | 105      |                  | 5.25         |
| 02     | 01  | 860817 | 18.52          | 61             | 65    | 64           | 12    | 12         | 4                | 108      | 04 44 S 110 41 W | 4.63         |
| 02     | 02  | 860817 | 18.52          | 61             | 65    | 64           |       |            | 4                | 108      |                  | 1.54         |
| 02     | 03  | 860817 | 18.52          | 65             | 64    | 61           |       |            | 4                | 108      |                  | 3.09         |
| 02     | 04  | 860817 | 18.52          | 65             | 64    | 61           |       |            | 4                | 108      |                  | 0.93         |
| 03     | 01  | 860817 | 18.52          | 65             | 64    | 61           |       |            | 4                | 108      | 04 46 S 110 35 W | 2.16         |
| 03     | 02  | 860817 | 18.52          | 64             | 61    | 65           |       |            | 4                | 108      |                  | 6.17         |
| 03     | 03  | 860817 | 18.52          | 61             | 65    | 64           | 12    | 12         | 4                | 108      |                  | 6.17         |
| 03     | 04  | 860817 | 18.52          | 65             | 64    | 61           | 06    | 01         | 4                | 108      |                  | 4.01         |
| 03     | 05  | 860817 | 18.52          | 65             | 64    | 61           | 06    | 01         | 4                | 116      |                  | 2.16         |
| 03     | 06  | 860817 | 18.52          | 64             | 61    | 05           | 06    | 01         | 4                | 116      | 04 48 S 110 24 W | 5.25         |
| 03     | 07  | 860817 | 18.52          | 55             | 63    | 38           | 06    | 01         | 3                | 116      |                  | 4.01         |
| 03     | 08  | 860817 | 18.52          | 55             | 63    | 38           | 06    | 01         | 3                | 110      |                  | 2.16         |
| 03     | 09  | 860817 | 18.52          | 63             | 38    | 55           | 06    | 01         | 3                | 110      |                  | 3.40         |
| 04     | 01  | 860817 | 18.52          | 63             | 38    | 55           |       |            | 3                | 110      | 04 51 S 110 17 W | 0.62         |
| 04     | 02  | 860817 | 18.52          | 38             | 55    | 63           |       |            | 3                | 110      |                  | 2.16         |
| 05     | 01  | 860817 | 18.52          | 38             | 55    | 63           |       |            | 3                | 110      | 04 52 S 110 14 W | 1.85         |
| 06     | 01  | 860817 | 18.52          | 64             | 61    | 05           | 06    | 02         | 3                | 118      | 04 51 S 110 11 W | 7.10         |
| 06     | 02  | 860817 | 18.52          | 61             | 05    | 64           | 06    | 02         | 3                | 118      |                  | 6.17         |
| 06     | 03  | 860817 | 18.52          | 05             | 64    | 61           | 06    | 02         | 3                | 118      |                  | 6.17         |
| 06     | 04  | 860817 | 18.52          | 64             | 61    | 05           | 05    | 03         | 3                | 118      |                  | 6.17         |
| 06     | 05  | 860817 | 18.52          | 61             | 05    | 64           | 05    | 03         | 3                | 118      |                  | 4.94         |
| 06     | 06  | 860817 | 18.52          | 61             | 05    | 64           | 05    | 03         | 3                | 118      | 04 58 S 109 57 W | 0.31         |
| 01     | 01  | 860818 | 18.52          | 61             | 64    | 05           | 11    | 03         | 4                | 100      | 05 12 S 108 24 W | 4.63         |
| 01     | 02  | 860818 | 18.52          | 55             | 63    | 38           | 11    | 03         | 4                | 100      |                  | 5.86         |
| 01     | 03  | 860818 | 18.52          | 64             | 05    | 61           | 11    | 03         | 4                | 100      | 05 14 S 108 21 W | 4.63         |
| 02     | 01  | 860818 | 18.52          | 64             | 05    | 61           | 11    | 03         | 4                | 100      | 05 14 S 108 16 W | 1.23         |
| 02     | 02  | 860818 | 18.52          | 05             | 61    | 64           | 11    | 02         | 4                | 100      |                  | 6.17         |
| 02     | 03  | 860818 | 18.52          | 61             | 64    | 05           | 11    | 02         | 4                | 100      | 05 14 S 108 12 W | 6.17         |
| 02     | 04  | 860818 | 18.52          | 64             | 05    | 61           | 11    | 02         | 4                | 100      |                  | 6.17         |
| 02     | 05  | 860818 | 18.52          | 63             | 38    | 55           | 11    | 02         | 4                | 100      |                  | 4.63         |
| 02     | 06  | 860818 | 18.52          | 63             | 38    | 55           | 11    | 01         | 5                | 100      |                  | 1.54         |
| 02     | 07  | 860818 | 18.52          | 38             | 55    | 63           | 11    | 01         | 5                | 100      | 05 16 S 108 03 W | 6.17         |
| 02     | 08  | 860818 | 18.52          | 55             | 63    | 38           | 11    | 01         | 5                | 100      |                  | 7.10         |
| 02     | 09  | 860818 | 18.52          | 63             | 38    | 55           | 11    | 01         | 5                | 100      |                  | 6.17         |
| 02     | 10  | 860818 | 18.52          | 38             | 55    | 63           | 11    | 01         | 5                | 100      | 05 17 S 107 54 W | 7.72         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |      |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |      |
| 03     | 01  | 860818 | 18.52          | 61             | 05    | 64           | 11    | 01         | 5                | 100      | 05 16 S   | 107 49 W     | 6.17 |
| 03     | 02  | 860818 | 18.52          | 05             | 64    | 61           | 10    | 01         | 5                | 100      |           |              | 6.17 |
| 03     | 03  | 860818 | 18.52          | 64             | 61    | 05           | 10    | 12         | 5                | 100      |           |              | 5.56 |
| 03     | 04  | 860818 | 18.52          | 63             | 38    | 55           | 10    | 12         | 5                | 100      |           |              | 6.48 |
| 03     | 05  | 860818 | 18.52          | 05             | 61    | 64           | 10    | 12         | 5                | 100      | 05 18 S   | 107 39 W     | 4.01 |
| 04     | 01  | 860818 | 18.52          | 61             | 64    | 05           | 12    | 12         | 5                | 100      | 05 17 S   | 107 36 W     | 3.09 |
| 04     | 02  | 860818 | 18.52          | 55             | 38    | 63           | 12    | 12         | 5                | 100      |           |              | 6.17 |
| 04     | 03  | 860818 | 18.52          | 38             | 63    | 55           | 12    | 12         | 5                | 100      | 05 16 S   | 107 32 W     | 6.48 |
| 04     | 04  | 860818 | 18.52          | 63             | 55    | 38           | 12    | 12         | 4                | 100      |           |              | 6.17 |
| 04     | 05  | 860818 | 18.52          | 55             | 38    | 63           | 12    | 12         | 4                | 100      |           |              | 6.17 |
| 04     | 06  | 860818 | 18.52          | 38             | 63    | 55           | 07    | 12         | 4                | 100      | 05 17 S   | 107 23 W     | 7.72 |
| 04     | 07  | 860818 | 18.52          | 63             | 55    | 38           | 06    | 01         | 4                | 100      |           |              | 4.01 |
| 04     | 08  | 860818 | 18.52          | 64             | 61    | 05           | 06    | 01         | 4                | 100      |           |              | 6.48 |
| 04     | 09  | 860818 | 18.52          | 61             | 05    | 64           | 06    | 01         | 4                | 100      | 05 18 S   | 107 15 W     | 6.17 |
| 04     | 10  | 860818 | 18.52          | 05             | 64    | 61           | 06    | 01         | 4                | 100      |           |              | 3.40 |
| 04     | 11  | 860818 | 18.52          | 05             | 64    | 61           | 06    | 01         | 4                | 100      | 05 19 S   | 107 10 W     | 2.78 |
| 04     | 12  | 860818 | 18.52          | 64             | 61    | 05           | 06    | 01         | 4                | 100      |           |              | 6.17 |
| 04     | 13  | 860818 | 18.52          | 61             | 05    | 64           | 06    | 02         | 4                | 100      | 05 19 S   | 107 07 W     | 6.17 |
| 04     | 14  | 860818 | 18.52          | 05             | 64    | 61           | 06    | 02         | 4                | 100      |           |              | 5.86 |
| 05     | 01  | 860818 | 18.52          | 55             | 38    | 63           | 06    | 02         | 4                | 100      | 05 20 S   | 107 00 W     | 3.09 |
| 06     | 01  | 860818 | 18.52          | 55             | 38    | 63           | 06    | 03         | 4                | 100      |           |              | 0.93 |
| 07     | 01  | 860818 | 18.52          | 38             | 63    | 55           | 06    | 03         | 4                | 100      | 05 22 S   | 106 54 W     | 6.17 |
| 07     | 02  | 860818 | 18.52          | 63             | 55    | 38           | 06    | 03         | 4                | 100      | 05 23 S   | 106 48 W     | 2.16 |
| 07     | 03  | 860818 | 18.52          | 63             | 55    | 38           | 06    | 03         | 4                | 100      | 05 23 S   | 106 50 W     | 0.31 |
| 01     | 01  | 860819 | 18.52          | 55             | 61    | 38           | 01    | 03         | 5                | 064      | 04 42 S   | 105 15 W     | 6.17 |
| 01     | 02  | 860819 | 18.52          | 61             | 38    | 55           | 01    | 03         | 5                | 064      |           |              | 6.17 |
| 01     | 03  | 860819 | 18.52          | 38             | 55    | 61           | 01    | 03         | 5                | 064      |           |              | 1.54 |
| 01     | 04  | 860819 | 18.52          | 63             | 64    | 05           | 01    | 03         | 5                | 064      |           |              | 6.48 |
| 01     | 05  | 860819 | 18.52          | 38             | 55    | 61           | 01    | 03         | 5                | 064      |           |              | 1.23 |
| 01     | 06  | 860819 | 18.52          | 38             | 55    | 61           | 01    | 03         | 6                | 064      |           |              | 4.63 |
| 01     | 07  | 860819 | 18.52          | 55             | 61    | 38           | 01    | 02         | 6                | 064      |           |              | 6.17 |
| 01     | 08  | 860819 | 18.52          | 61             | 38    | 55           | 01    | 02         | 6                | 064      |           |              | 5.86 |
| 01     | 09  | 860819 | 18.52          | 61             | 38    | 55           | 01    | 02         | 6                | 064      | 04 34 S   | 105 03 W     | 0.31 |
| 01     | 01  | 860821 | 18.52          | 63             | 64    | 05           | 01    | 02         | 4                | 094      | 01 47 S   | 098 26 W     | 6.17 |
| 01     | 02  | 860821 | 18.52          | 64             | 05    | 63           |       |            | 4                | 094      |           |              | 6.17 |
| 01     | 03  | 860821 | 18.52          | 05             | 63    | 64           |       |            | 4                | 094      |           |              | 1.54 |
| 01     | 04  | 860821 | 18.52          | 05             | 63    | 64           | 11    | 02         | 4                | 094      | 01 48 S   | 098 22 W     | 1.85 |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 01     | 05  | 860821 | 18.52          | 05             | 63    | 64           |       | 4          | 094              |          |           | 2.78         |
| 01     | 06  | 860821 | 18.52          | 63             | 64    | 05           |       | 4          | 094              |          |           | 6.17         |
| 01     | 07  | 860821 | 18.52          | 64             | 05    | 63           |       | 4          | 094              |          |           | 6.17         |
| 01     | 08  | 860821 | 18.52          | 05             | 63    | 64           |       | 4          | 094              | 01 49 S  | 098 14 W  | 6.17         |
| 01     | 09  | 860821 | 18.52          | 55             | 38    | 61           |       | 4          | 094              |          |           | 6.17         |
| 01     | 10  | 860821 | 18.52          | 38             | 61    | 55           |       | 4          | 094              |          |           | 3.09         |
| 01     | 11  | 860821 | 18.52          | 38             | 61    | 55           | 11    | 4          | 094              |          |           | 1.54         |
| 01     | 12  | 860821 | 18.52          | 38             | 61    | 55           | 11    | 4          | 105              |          |           | 1.54         |
| 01     | 13  | 860821 | 18.52          | 61             | 55    | 38           | 11    | 4          | 105              | 01 50 S  | 098 06 W  | 6.17         |
| 01     | 14  | 860821 | 18.52          | 55             | 38    | 61           | 11    | 4          | 105              |          |           | 6.17         |
| 01     | 15  | 860821 | 18.52          | 38             | 61    | 55           | 11    | 4          | 105              |          |           | 6.17         |
| 01     | 16  | 860821 | 18.52          | 61             | 55    | 38           | 09    | 3          | 105              | 01 52 S  | 097 57 W  | 6.17         |
| 01     | 17  | 860821 | 18.52          | 55             | 38    | 61           |       | 3          | 105              |          |           | 2.16         |
| 01     | 18  | 860821 | 18.52          | 55             | 38    | 61           |       | 3          | 105              |          |           | 3.40         |
| 01     | 19  | 860821 | 18.52          | 63             | 64    | 05           |       | 3          | 105              |          |           | 1.23         |
| 02     | 01  | 860821 | 18.52          | 63             | 64    | 05           |       | 3          | 105              | 01 56 S  | 097 46 W  | 6.17         |
| 02     | 02  | 860821 | 18.52          | 64             | 05    | 63           |       | 3          | 105              |          |           | 4.32         |
| 02     | 03  | 860821 | 18.52          | 64             | 05    | 63           | 12    | 3          | 105              | 01 57 S  | 097 40 W  | 1.85         |
| 02     | 04  | 860821 | 18.52          | 05             | 63    | 64           | 12    | 3          | 105              |          |           | 6.17         |
| 02     | 05  | 860821 | 18.52          | 63             | 64    | 05           |       | 3          | 105              |          |           | 6.17         |
| 02     | 06  | 860821 | 18.52          | 64             | 05    | 63           |       | 3          | 105              |          |           | 0.93         |
| 02     | 07  | 860821 | 18.52          | 55             | 61    | 38           |       | 3          | 105              |          |           | 6.17         |
| 02     | 08  | 860821 | 18.52          | 61             | 38    | 55           |       | 3          | 105              | 02 00 S  | 097 31 W  | 6.17         |
| 02     | 09  | 860821 | 18.52          | 38             | 55    | 61           |       | 3          | 105              |          |           | 1.85         |
| 02     | 10  | 860821 | 18.52          | 38             | 55    | 61           |       | 3          | 105              |          |           | 1.85         |
| 03     | 01  | 860821 | 18.52          | 55             | 61    | 38           |       | 3          | 105              | 02 02 S  | 097 22 W  | 6.17         |
| 03     | 02  | 860821 | 18.52          | 61             | 38    | 55           |       | 3          | 105              |          |           | 5.86         |
| 03     | 03  | 860821 | 18.52          | 63             | 64    | 05           |       | 3          | 105              |          |           | 6.17         |
| 03     | 04  | 860821 | 18.52          | 64             | 05    | 63           |       | 3          | 105              | 02 04 S  | 097 15 W  | 6.17         |
| 03     | 05  | 860821 | 18.52          | 05             | 63    | 64           |       | 3          | 105              |          |           | 4.01         |
| 03     | 06  | 860821 | 18.52          | 55             | 61    | 38           |       | 3          | 105              |          |           | 8.03         |
| 03     | 07  | 860821 | 18.52          | 63             | 64    | 05           |       | 3          | 105              | 02 07 S  | 097 07 W  | 6.17         |
| 03     | 08  | 860821 | 18.52          | 64             | 05    | 63           |       | 3          | 105              |          |           | 6.48         |
| 03     | 09  | 860821 | 18.52          | 55             | 61    | 38           |       | 3          | 105              |          |           | 6.17         |
| 04     | 01  | 860821 | 18.52          | 55             | 61    | 38           |       | 3          | 105              | 02 11 S  | 096 57 W  | 0.31         |
| 01     | 01  | 860822 | 18.52          | 55             | 61    | 38           | 11    | 2          | 103              | 02 44 S  | 095 27 W  | 3.40         |
| 01     | 02  | 860822 | 18.52          | 55             | 61    | 38           | 11    | 2          | 101              | 02 45 S  | 095 27 W  | 1.54         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude        |              |
| 01     | 03  | 860822 | 18.52          | 63             | 05    | 65           | 11    | 03            | 2                | 101      |                  | 6.17         |
| 01     | 04  | 860822 | 18.52          | 61             | 38    | 55           | 11    | 02            | 2                | 101      |                  | 2.78         |
| 02     | 01  | 860822 | 18.52          | 61             | 38    | 55           | 11    | 02            | 2                | 101      | 02 50 S 095 25 W | 1.54         |
| 02     | 02  | 860822 | 18.52          | 38             | 55    | 61           | 11    | 02            | 2                | 101      |                  | 6.17         |
| 02     | 03  | 860822 | 18.52          | 55             | 61    | 38           | 11    | 02            | 2                | 101      | 02 49 S 095 18 W | 6.17         |
| 02     | 04  | 860822 | 18.52          | 61             | 38    | 55           | 11    | 02            | 2                | 101      |                  | 4.32         |
| 02     | 05  | 860822 | 18.52          | 63             | 64    | 05           | 11    | 02            | 3                | 101      |                  | 6.17         |
| 02     | 06  | 860822 | 18.52          | 64             | 05    | 63           | 11    | 02            | 3                | 101      |                  | 1.23         |
| 02     | 07  | 860822 | 18.52          | 64             | 05    | 63           | 11    | 02            | 3                | 101      | 02 52 S 095 11 W | 4.94         |
| 02     | 08  | 860822 | 18.52          | 05             | 63    | 64           | 11    | 01            | 3                | 101      |                  | 6.17         |
| 02     | 09  | 860822 | 18.52          | 63             | 64    | 05           | 11    | 01            | 3                | 101      |                  | 6.79         |
| 02     | 10  | 860822 | 18.52          | 64             | 05    | 63           | 11    | 01            | 3                | 101      | 02 55 S 095 01 W | 5.56         |
| 03     | 01  | 860822 | 18.52          | 05             | 63    | 64           | 11    | 01            | 3                | 101      | 02 56 S 095 01 W | 5.56         |
| 03     | 02  | 860822 | 18.52          | 55             | 61    | 38           | 11    | 12            | 3                | 101      |                  | 6.17         |
| 03     | 03  | 860822 | 18.52          | 61             | 38    | 55           | 11    | 12            | 3                | 101      | 02 58 S 094 54 W | 6.17         |
| 03     | 04  | 860822 | 18.52          | 38             | 55    | 61           | 12    | 12            | 3                | 101      |                  | 1.85         |
| 03     | 05  | 860822 | 18.52          | 38             | 55    | 61           |       |               | 3                | 101      |                  | 3.70         |
| 03     | 06  | 860822 | 18.52          | 63             | 64    | 05           | 12    | 12            | 3                | 101      |                  | 7.10         |
| 03     | 07  | 860822 | 18.52          | 55             | 61    | 38           | 12    | 12            | 3                | 101      | 03 00 S 094 46 W | 6.17         |
| 03     | 08  | 860822 | 18.52          | 61             | 38    | 55           | 12    | 12            | 3                | 101      |                  | 6.17         |
| 03     | 09  | 860822 | 18.52          | 63             | 64    | 05           | 12    | 12            | 3                | 101      |                  | 3.09         |
| 03     | 10  | 860822 | 18.52          | 63             | 64    | 05           | 12    | 12            | 3                | 095      |                  | 4.01         |
| 03     | 11  | 860822 | 18.52          | 64             | 05    | 63           | 12    | 12            | 3                | 095      | 03 02 S 094 38 W | 1.54         |
| 03     | 12  | 860822 | 18.52          | 64             | 05    | 63           | 12    | 12            | 4                | 095      |                  | 4.63         |
| 03     | 13  | 860822 | 18.52          | 05             | 63    | 64           | 12    | 12            | 4                | 095      |                  | 6.17         |
| 03     | 14  | 860822 | 18.52          | 63             | 64    | 05           | 12    | 01            | 4                | 095      |                  | 6.17         |
| 03     | 15  | 860822 | 18.52          | 64             | 05    | 63           | 12    | 01            | 4                | 095      | 03 04 S 094 30 W | 3.09         |
| 03     | 16  | 860822 | 18.52          | 64             | 05    | 63           |       |               | 4                | 095      |                  | 3.09         |
| 03     | 17  | 860822 | 18.52          | 05             | 63    | 64           |       |               | 3                | 095      |                  | 6.17         |
| 03     | 18  | 860822 | 18.52          | 55             | 38    | 61           |       |               | 3                | 095      |                  | 6.17         |
| 03     | 19  | 860822 | 18.52          | 38             | 61    | 55           |       |               | 3                | 095      | 03 05 S 094 21 W | 6.17         |
| 03     | 20  | 860822 | 18.52          | 61             | 55    | 38           |       |               | 3                | 095      |                  | 6.17         |
| 03     | 21  | 860822 | 18.52          | 55             | 38    | 61           |       |               | 3                | 095      |                  | 6.17         |
| 03     | 22  | 860822 | 18.52          | 38             | 61    | 55           |       |               | 3                | 095      | 03 06 S 094 02 W | 6.17         |
| 03     | 23  | 860822 | 18.52          | 61             | 55    | 38           |       |               | 3                | 095      |                  | 5.25         |
| 03     | 24  | 860822 | 18.52          | 63             | 64    | 05           |       |               | 3                | 095      |                  | 6.17         |
| 03     | 25  | 860822 | 18.52          | 64             | 05    | 63           |       |               | 3                | 095      | 03 08 S 094 05 W | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude        |              |
| 03     | 26  | 860822 | 18.52          | 05             | 63    | 64           | 06    | 02            | 3                | 095      |                  | 6.17         |
| 03     | 27  | 860822 | 18.52          | 63             | 64    | 05           | 06    | 02            | 3                | 095      |                  | 6.17         |
| 03     | 28  | 860822 | 18.52          | 64             | 05    | 63           | 06    | 03            | 3                | 095      |                  | 4.63         |
| 03     | 29  | 860822 | 18.52          | 64             | 05    | 63           |       |               | 3                | 095      | 03 10 S 093 55 W | 0.31         |
| 01     | 01  | 860823 | 18.52          | 63             | 64    | 38           |       |               | 5                | 098      | 03 36 S 092 12 W | 1.85         |
| 01     | 02  | 860823 | 18.52          | 63             | 64    | 05           |       |               | 5                | 098      |                  | 4.63         |
| 01     | 03  | 860823 | 18.52          | 55             | 38    | 61           |       |               | 5                | 098      |                  | 5.25         |
| 01     | 04  | 860823 | 18.52          | 64             | 05    | 63           |       |               | 5                | 098      | 03 38 S 092 13 W | 6.17         |
| 01     | 05  | 860823 | 18.52          | 05             | 63    | 64           |       |               | 5                | 098      |                  | 6.17         |
| 01     | 06  | 860823 | 18.52          | 63             | 64    | 05           |       |               | 5                | 098      |                  | 6.17         |
| 01     | 07  | 860823 | 18.52          | 64             | 05    | 63           |       |               | 5                | 098      | 03 41 S 092 05 W | 7.72         |
| 01     | 08  | 860823 | 18.52          | 38             | 61    | 55           |       |               | 5                | 098      |                  | 6.79         |
| 01     | 09  | 860823 | 18.52          | 61             | 55    | 38           |       |               | 5                | 098      |                  | 6.17         |
| 01     | 10  | 860823 | 18.52          | 55             | 38    | 61           |       |               | 5                | 098      | 03 42 S 091 55 W | 6.17         |
| 01     | 11  | 860823 | 18.52          | 38             | 61    | 55           |       |               | 5                | 098      |                  | 6.17         |
| 01     | 12  | 860823 | 18.52          | 61             | 55    | 38           |       |               | 5                | 098      |                  | 6.17         |
| 01     | 13  | 860823 | 18.52          | 55             | 38    | 61           | 11    | 01            | 5                | 098      | 03 44 S 091 46 W | 6.17         |
| 01     | 14  | 860823 | 18.52          | 05             | 64    | 63           | 11    | 01            | 5                | 098      |                  | 6.17         |
| 01     | 15  | 860823 | 18.52          | 64             | 63    | 05           | 11    | 01            | 5                | 098      |                  | 3.40         |
| 02     | 01  | 860823 | 18.52          | 64             | 63    | 05           | 11    | 12            | 5                | 098      | 03 45 S 091 36 W | 1.85         |
| 02     | 02  | 860823 | 18.52          | 63             | 05    | 64           | 11    | 12            | 5                | 098      |                  | 6.79         |
| 02     | 03  | 860823 | 18.52          | 55             | 38    | 61           | 12    | 12            | 6                | 098      |                  | 6.79         |
| 02     | 04  | 860823 | 18.52          | 05             | 64    | 63           | 12    | 12            | 6                | 098      | 03 47 S 091 28 W | 6.17         |
| 02     | 05  | 860823 | 18.52          | 64             | 63    | 05           | 12    | 12            | 6                | 098      |                  | 5.25         |
| 02     | 06  | 860823 | 18.52          | 55             | 61    | 38           | 12    | 12            | 6                | 098      |                  | 6.17         |
| 02     | 07  | 860823 | 18.52          | 61             | 38    | 55           | 12    | 12            | 6                | 098      | 03 48 S 091 19 W | 6.17         |
| 02     | 08  | 860823 | 18.52          | 38             | 55    | 61           | 12    | 12            | 6                | 098      |                  | 6.17         |
| 03     | 01  | 860823 | 18.52          | 55             | 61    | 38           | 12    | 12            | 6                | 098      |                  | 6.79         |
| 03     | 02  | 860823 | 18.52          | 61             | 38    | 55           | 12    | 12            | 6                | 098      | 03 50 S 091 10 W | 6.17         |
| 03     | 03  | 860823 | 18.52          | 38             | 55    | 61           | 07    | 01            | 5                | 098      |                  | 3.09         |
| 03     | 04  | 860823 | 18.52          | 63             | 64    | 05           | 07    | 01            | 5                | 098      |                  | 6.17         |
| 03     | 05  | 860823 | 18.52          | 64             | 05    | 63           | 07    | 01            | 5                | 098      | 03 51 S 091 02 W | 6.17         |
| 03     | 06  | 860823 | 18.52          | 05             | 63    | 64           | 07    | 01            | 5                | 098      |                  | 6.17         |
| 03     | 07  | 860823 | 18.52          | 63             | 64    | 05           | 07    | 01            | 5                | 098      |                  | 7.10         |
| 03     | 08  | 860823 | 18.52          | 64             | 05    | 63           | 07    | 01            | 5                | 098      | 03 54 S 090 53 W | 6.17         |
| 03     | 09  | 860823 | 18.52          | 05             | 63    | 64           | 07    | 02            | 5                | 098      |                  | 6.79         |
| 03     | 10  | 860823 | 18.52          | 63             | 64    | 05           | 07    | 02            | 5                | 098      |                  | 0.93         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 03     | 11  | 860823 | 18.52          | 55             | 61    | 38           | 07    | 02         | 5                | 098      |                  | 6.17         |
| 03     | 12  | 860823 | 18.52          | 38             | 55    | 61           | 07    | 02         | 5                | 098      | 03 52 S 090 43 W | 6.17         |
| 03     | 13  | 860823 | 18.52          | 61             | 38    | 55           | 07    | 03         | 5                | 098      |                  | 6.17         |
| 03     | 14  | 860823 | 18.52          | 55             | 61    | 38           | 06    | 03         | 5                | 098      |                  | 5.25         |
| 03     | 15  | 860823 | 18.52          | 55             | 61    | 38           | 06    | 03         | 5                | 098      | 03 53 S 090 32 W | 0.31         |
| 01     | 01  | 860824 | 18.52          | 55             | 61    | 38           |       |            | 5                | 087      | 03 52 S 088 35 W | 6.17         |
| 01     | 02  | 860824 | 18.52          | 61             | 38    | 55           |       |            | 5                | 087      |                  | 7.10         |
| 01     | 03  | 860824 | 18.52          | 63             | 64    | 05           |       |            | 5                | 087      |                  | 6.79         |
| 01     | 04  | 860824 | 18.52          | 64             | 05    | 63           |       |            | 5                | 087      | 03 53 S 088 36 W | 2.16         |
| 01     | 05  | 860824 | 18.52          | 61             | 38    | 55           |       |            | 5                | 087      |                  | 1.54         |
| 01     | 06  | 860824 | 18.52          | 61             | 38    | 55           |       |            | 5                | 085      |                  | 4.94         |
| 01     | 07  | 860824 | 18.52          | 38             | 55    | 61           |       |            | 5                | 085      |                  | 6.17         |
| 01     | 08  | 860824 | 18.52          | 55             | 61    | 38           |       |            | 5                | 085      |                  | 3.09         |
| 01     | 09  | 860824 | 18.52          | 64             | 05    | 63           |       |            | 5                | 085      | 03 51 S 088 26 W | 2.47         |
| 01     | 10  | 860824 | 18.52          | 64             | 05    | 63           | 11    | 02         | 5                | 085      |                  | 3.70         |
| 01     | 11  | 860824 | 18.52          | 05             | 63    | 64           | 11    | 02         | 5                | 085      |                  | 6.17         |
| 01     | 12  | 860824 | 18.52          | 63             | 64    | 05           | 11    | 02         | 5                | 085      |                  | 6.17         |
| 01     | 13  | 860824 | 18.52          | 64             | 05    | 63           | 11    | 02         | 5                | 085      | 03 49 S 088 16 W | 6.17         |
| 01     | 14  | 860824 | 18.52          | 05             | 63    | 64           | 11    | 01         | 5                | 085      |                  | 6.17         |
| 01     | 15  | 860824 | 18.52          | 63             | 64    | 05           | 11    | 01         | 5                | 085      |                  | 6.17         |
| 02     | 01  | 860824 | 18.52          | 55             | 61    | 38           | 07    | 01         | 5                | 088      | 03 42 S 087 35 W | 7.10         |
| 02     | 02  | 860824 | 18.52          | 61             | 38    | 55           | 07    | 01         | 5                | 088      |                  | 6.17         |
| 02     | 03  | 860824 | 18.52          | 38             | 55    | 61           | 07    | 01         | 5                | 088      |                  | 6.17         |
| 02     | 04  | 860824 | 18.52          | 55             | 61    | 38           | 07    | 01         | 5                | 088      |                  | 6.17         |
| 02     | 05  | 860824 | 18.52          | 61             | 38    | 55           | 07    | 02         | 5                | 088      | 03 40 S 087 22 W | 6.17         |
| 02     | 06  | 860824 | 18.52          | 38             | 55    | 61           |       |            | 5                | 088      |                  | 3.40         |
| 02     | 07  | 860824 | 18.52          | 63             | 64    | 05           |       |            | 5                | 088      |                  | 3.09         |
| 02     | 08  | 860824 | 18.52          | 64             | 05    | 63           |       |            | 5                | 088      |                  | 6.17         |
| 02     | 09  | 860824 | 18.52          | 05             | 63    | 64           |       |            | 5                | 088      | 03 39 S 087 11 W | 6.17         |
| 02     | 10  | 860824 | 18.52          | 63             | 64    | 05           |       |            | 5                | 088      |                  | 5.56         |
| 02     | 11  | 860824 | 18.52          | 63             | 64    | 05           |       |            | 5                | 088      | 03 38 S 086 04 W | 0.31         |
| 01     | 01  | 860825 | 18.52          | 38             | 64    | 05           |       |            | 5                | 088      | 03 43 S 086 06 W | 2.16         |
| 01     | 02  | 860825 | 18.52          | 38             | 64    | 63           |       |            | 5                | 088      |                  | 5.25         |
| 01     | 03  | 860825 | 18.52          | 55             | 61    | 05           |       |            | 5                | 088      |                  | 7.10         |
| 01     | 04  | 860825 | 18.52          | 61             | 05    | 55           |       |            | 5                | 088      |                  | 6.17         |
| 01     | 05  | 860825 | 18.52          | 05             | 55    | 61           |       |            | 5                | 088      | 03 38 S 086 00 W | 6.17         |
| 01     | 06  | 860825 | 18.52          | 55             | 61    | 05           |       |            | 5                | 088      |                  | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |          | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|----------|--------------|
|        |     |        |                | Left           | Right | Rec.         | Horz. |            |                  | Vert.    | Latitude |              |
| 01     | 07  | 860825 | 18.52          | 61             | 05    | 55           |       |            | 088              |          |          | 4.32         |
| 01     | 08  | 860825 | 18.52          | 63             | 64    | 38           |       |            | 088              | 03 41 S  | 085 51 W | 6.17         |
| 01     | 09  | 860825 | 18.52          | 64             | 38    | 63           |       |            | 088              |          |          | 6.17         |
| 01     | 10  | 860825 | 18.52          | 38             | 63    | 64           |       |            | 088              |          |          | 6.17         |
| 01     | 11  | 860825 | 18.52          | 63             | 64    | 38           | 11    | 01         | 088              |          |          | 5.25         |
| 02     | 01  | 860825 | 18.52          | 64             | 38    | 63           |       |            | 088              | 03 39 S  | 085 40 W | 3.09         |
| 02     | 02  | 860825 | 18.52          | 55             | 61    | 05           |       |            | 088              |          |          | 6.17         |
| 02     | 03  | 860825 | 18.52          | 61             | 05    | 55           |       |            | 088              |          |          | 6.17         |
| 02     | 04  | 860825 | 18.52          | 05             | 55    | 61           | 12    | 12         | 088              |          |          | 1.23         |
| 02     | 05  | 860825 | 18.52          | 05             | 55    | 61           |       |            | 088              |          |          | 0.62         |
| 02     | 06  | 860825 | 18.52          | 05             | 55    | 61           | 12    | 12         | 088              |          |          | 0.62         |
| 02     | 07  | 860825 | 18.52          | 64             | 63    | 38           |       |            | 088              |          |          | 6.17         |
| 02     | 08  | 860825 | 18.52          | 64             | 38    | 63           |       |            | 088              | 03 37 S  | 085 27 W | 2.16         |
| 02     | 09  | 860825 | 18.52          | 05             | 55    | 61           |       |            | 088              |          |          | 2.78         |
| 02     | 10  | 860825 | 18.52          | 55             | 61    | 05           |       |            | 088              |          |          | 3.40         |
| 02     | 11  | 860825 | 18.52          | 55             | 61    | 05           |       |            | 088              | 03 37 S  | 085 23 W | 0.31         |
| 03     | 01  | 860825 | 18.52          | 64             | 63    | 38           |       |            | 088              | 03 38 S  | 085 22 W | 6.17         |
| 03     | 02  | 860825 | 18.52          | 63             | 38    | 64           |       |            | 088              | 03 37 S  | 085 17 W | 1.85         |
| 04     | 01  | 860825 | 18.52          | 63             | 38    | 64           |       |            | 088              | 03 37 S  | 085 17 W | 1.85         |
| 05     | 01  | 860825 | 18.52          | 38             | 64    | 63           |       |            | 088              | 03 41 S  | 085 18 W | 3.70         |
| 06     | 01  | 860825 | 18.52          | 38             | 64    | 63           |       |            | 088              | 03 41 S  | 085 17 W | 2.47         |
| 06     | 02  | 860825 | 18.52          | 64             | 63    | 38           |       |            | 088              |          |          | 6.17         |
| 06     | 03  | 860825 | 18.52          | 61             | 55    | 05           |       |            | 088              |          |          | 6.79         |
| 06     | 04  | 860825 | 18.52          | 55             | 05    | 61           |       |            | 088              | 03 39 S  | 085 06 W | 6.17         |
| 06     | 05  | 860825 | 18.52          | 05             | 61    | 55           |       |            | 088              |          |          | 6.17         |
| 06     | 06  | 860825 | 18.52          | 61             | 55    | 05           |       |            | 088              |          |          | 6.17         |
| 06     | 07  | 860825 | 18.52          | 55             | 05    | 61           |       |            | 088              |          |          | 6.17         |
| 07     | 01  | 860825 | 18.52          | 05             | 61    | 55           |       |            | 088              | 03 38 S  | 084 56 W | 6.17         |
| 01     | 01  | 860826 | 18.52          | 05             | 61    | 55           |       |            | 088              | 03 38 S  | 084 54 W | 3.40         |
| 01     | 02  | 860826 | 18.52          | 63             | 64    | 38           |       |            | 080              | 03 28 S  | 083 44 W | 1.23         |
| 02     | 01  | 860826 | 18.52          | 55             | 61    | 05           |       |            | 080              |          |          | 7.41         |
| 02     | 02  | 860826 | 18.52          | 63             | 64    | 38           |       |            | 080              | 03 24 S  | 083 34 W | 6.17         |
| 02     | 03  | 860826 | 18.52          | 64             | 38    | 63           |       |            | 080              |          |          | 1.85         |
| 03     | 01  | 860826 | 18.52          | 55             | 61    | 05           |       |            | 082              | 03 22 S  | 083 25 W | 6.79         |
| 04     | 01  | 860826 | 18.52          | 55             | 61    | 05           |       |            | 082              | 03 19 S  | 083 17 W | 3.09         |
| 04     | 02  | 860826 | 18.52          | 61             | 05    | 55           |       |            | 082              |          |          | 7.41         |
| 04     | 03  | 860826 | 18.52          | 05             | 55    | 61           |       |            | 082              |          |          | 5.86         |
| 04     | 04  | 860826 | 18.52          | 64             | 38    | 63           |       |            | 082              | 03 17 S  | 083 08 W | 4.63         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      |                  | Latitude | Longitude |              |
| 05     | 01  | 860826 | 18.52          | 55             | 61    | 05           |       |                      | 082              | 03 14 S  | 083 02 W  | 5.86         |
| 05     | 02  | 860826 | 18.52          | 38             | 63    | 64           | 12    | 12                   | 082              | 03 14 S  | 082 51 W  | 6.17         |
| 05     | 03  | 860826 | 18.52          | 63             | 64    | 38           |       |                      | 082              |          |           | 6.17         |
| 05     | 04  | 860826 | 18.52          | 64             | 38    | 63           | 12    | 12                   | 082              |          |           | 4.94         |
| 05     | 05  | 860826 | 18.52          | 55             | 61    | 05           | 12    | 12                   | 082              |          |           | 1.54         |
| 06     | 01  | 860826 | 18.52          | 55             | 61    | 05           | 12    | 12                   | 082              | 03 11 S  | 082 50 W  | 6.17         |
| 06     | 02  | 860826 | 18.52          | 61             | 05    | 55           | 12    | 12                   | 082              |          |           | 6.17         |
| 06     | 03  | 860826 | 18.52          | 05             | 55    | 61           |       |                      | 082              |          |           | 2.16         |
| 06     | 04  | 860826 | 18.52          | 05             | 55    | 61           |       |                      | 082              | 03 09 S  | 082 42 W  | 4.63         |
| 07     | 01  | 860826 | 18.52          | 55             | 61    | 05           |       |                      | 082              | 03 09 S  | 082 32 W  | 6.79         |
| 07     | 02  | 860826 | 18.52          | 63             | 38    | 64           |       |                      | 082              |          |           | 0.62         |
| 08     | 01  | 860826 | 18.52          | 63             | 38    | 64           |       |                      | 082              | 03 08 S  | 082 35 W  | 4.01         |
| 09     | 01  | 860826 | 18.52          | 63             | 38    | 64           |       |                      | 082              | 03 07 S  | 082 31 W  | 1.23         |
| 09     | 02  | 860826 | 18.52          | 38             | 64    | 63           |       |                      | 082              |          |           | 2.16         |
| 10     | 01  | 860826 | 14.82          | 38             | 64    | 63           |       |                      | 082              | 03 06 S  | 082 28 W  | 2.47         |
| 11     | 01  | 860826 | 18.52          | 38             | 64    | 63           | 08    | 01                   | 082              | 03 06 S  | 082 26 W  | 0.31         |
| 11     | 02  | 860826 | 18.52          | 64             | 63    | 38           | 07    | 01                   | 082              |          |           | 0.62         |
| 11     | 03  | 860826 | 18.52          | 64             | 63    | 38           | 07    | 01                   | 087              |          |           | 3.09         |
| 12     | 01  | 860826 | 18.52          | 63             | 38    | 64           | 07    | 02                   | 087              | 03 06 S  | 082 21 W  | 1.85         |
| 12     | 02  | 860826 | 18.52          | 61             | 55    | 05           | 07    | 02                   | 087              |          |           | 18.52        |
| 12     | 03  | 860826 | 18.52          | 61             | 05    | 55           | 07    | 02                   | 087              |          |           | 4.94         |
| 12     | 04  | 860826 | 18.52          | 05             | 38    | 55           | 07    | 03                   | 087              | 03 05 S  | 082 10 W  | 1.85         |
| 12     | 05  | 860826 | 18.52          | 05             | 55    | 61           | 07    | 03                   | 087              |          |           | 5.86         |
| 12     | 06  | 860826 | 18.52          | 05             | 55    | 61           | 07    | 03                   | 087              | 03 04 S  | 082 05 W  | 0.31         |
| 01     | 01  | 860904 | 18.52          | 63             | 61    | 05           | 07    | 03                   | 242              | 02 53 S  | 080 39 W  | 6.17         |
| 01     | 02  | 860904 | 18.52          | 61             | 05    | 63           |       |                      | 242              |          |           | 6.17         |
| 01     | 03  | 860904 | 18.52          | 05             | 63    | 61           |       |                      | 242              |          |           | 6.17         |
| 01     | 04  | 860904 | 18.52          | 63             | 61    | 05           |       |                      | 242              |          |           | 6.17         |
| 01     | 05  | 860904 | 18.52          | 61             | 05    | 63           |       |                      | 242              |          |           | 2.78         |
| 02     | 01  | 860904 | 18.52          | 64             | 55    | 38           |       |                      | 237              | 03 01 S  | 080 52 W  | 6.17         |
| 02     | 02  | 860904 | 18.52          | 55             | 38    | 64           |       |                      | 237              |          |           | 6.17         |
| 02     | 03  | 860904 | 18.52          | 38             | 64    | 55           |       |                      | 237              |          |           | 6.17         |
| 02     | 04  | 860904 | 18.52          | 64             | 55    | 38           |       |                      | 237              |          |           | 6.17         |
| 02     | 05  | 860904 | 18.52          | 64             | 55    | 38           |       |                      | 237              | 03 09 S  | 081 03 W  | 0.00         |
| 01     | 01  | 860905 | 18.52          | 63             | 64    | 38           |       |                      | 196              | 04 58 S  | 082 20 W  | 5.56         |
| 01     | 02  | 860905 | 18.52          | 55             | 61    | 05           |       |                      | 196              |          |           | 6.48         |
| 01     | 03  | 860905 | 18.52          | 64             | 38    | 63           |       |                      | 196              |          |           | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      |                  | Latitude | Longitude |              |
| 01     | 04  | 860905 | 18.52          | 38             | 63    | 64           |       | 5                    | 196              |          |           | 4.94         |
| 01     | 05  | 860905 | 18.52          | 38             | 63    | 64           |       | 4                    | 196              |          |           | 1.23         |
| 01     | 06  | 860905 | 18.52          | 63             | 64    | 38           |       | 5                    | 196              |          |           | 6.17         |
| 01     | 07  | 860905 | 18.52          | 64             | 38    | 63           |       | 5                    | 196              |          |           | 7.10         |
| 01     | 08  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 196              |          |           | 6.17         |
| 01     | 09  | 860905 | 18.52          | 61             | 05    | 55           |       | 5                    | 196              |          |           | 6.17         |
| 01     | 10  | 860905 | 18.52          | 05             | 55    | 61           |       | 5                    | 196              |          |           | 6.17         |
| 01     | 11  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 196              |          |           | 6.17         |
| 01     | 12  | 860905 | 18.52          | 61             | 05    | 55           |       | 5                    | 196              |          |           | 4.63         |
| 01     | 13  | 860905 | 18.52          | 61             | 05    | 55           |       | 5                    | 192              |          |           | 1.54         |
| 01     | 14  | 860905 | 18.52          | 05             | 55    | 61           |       | 5                    | 192              |          |           | 6.79         |
| 01     | 15  | 860905 | 18.52          | 38             | 64    | 63           |       | 5                    | 192              |          |           | 6.17         |
| 01     | 16  | 860905 | 18.52          | 64             | 63    | 38           |       | 5                    | 192              | 05 39 S  | 082 37 W  | 6.79         |
| 02     | 01  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 192              | 05 42 S  | 082 39 W  | 5.25         |
| 02     | 02  | 860905 | 18.52          | 63             | 38    | 64           |       | 5                    | 192              |          |           | 1.54         |
| 02     | 03  | 860905 | 18.52          | 63             | 38    | 64           |       | 5                    | 188              | 05 45 S  | 082 40 W  | 3.70         |
| 02     | 04  | 860905 | 18.52          | 63             | 38    | 64           |       | 5                    | 188              |          |           | 0.93         |
| 02     | 05  | 860905 | 18.52          | 38             | 64    | 63           |       | 5                    | 188              |          |           | 3.70         |
| 02     | 06  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 188              |          |           | 6.17         |
| 02     | 07  | 860905 | 18.52          | 61             | 05    | 55           |       | 5                    | 188              |          |           | 6.17         |
| 02     | 08  | 860905 | 18.52          | 05             | 55    | 61           |       | 5                    | 188              |          |           | 6.17         |
| 02     | 09  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 188              |          |           | 2.47         |
| 02     | 10  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 188              |          |           | 4.01         |
| 03     | 01  | 860905 | 18.52          | 61             | 05    | 55           |       | 5                    | 188              | 06 05 S  | 082 43 W  | 6.17         |
| 03     | 02  | 860905 | 18.52          | 38             | 63    | 64           |       | 5                    | 188              |          |           | 3.09         |
| 04     | 01  | 860905 | 18.52          | 38             | 63    | 64           |       | 5                    | 188              |          |           | 1.54         |
| 04     | 02  | 860905 | 18.52          | 63             | 64    | 38           |       | 5                    | 188              |          |           | 6.17         |
| 04     | 03  | 860905 | 18.52          | 64             | 38    | 63           |       | 5                    | 188              | 06 15 S  | 082 45 W  | 6.17         |
| 04     | 04  | 860905 | 18.52          | 38             | 63    | 64           |       | 5                    | 188              |          |           | 6.17         |
| 04     | 05  | 860905 | 18.52          | 63             | 64    | 38           |       | 5                    | 188              |          |           | 6.17         |
| 04     | 06  | 860905 | 18.52          | 64             | 38    | 63           |       | 5                    | 188              |          |           | 5.25         |
| 05     | 01  | 860905 | 18.52          | 64             | 38    | 63           |       | 5                    | 188              | 06 26 S  | 082 46 W  | 1.54         |
| 05     | 02  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 188              |          |           | 6.17         |
| 05     | 03  | 860905 | 18.52          | 61             | 05    | 55           |       | 5                    | 188              |          |           | 2.16         |
| 05     | 04  | 860905 | 18.52          | 61             | 05    | 55           |       | 5                    | 188              |          |           | 3.09         |
| 05     | 05  | 860905 | 18.52          | 05             | 55    | 61           |       | 5                    | 188              |          |           | 2.47         |
| 05     | 06  | 860905 | 18.52          | 05             | 55    | 61           |       | 5                    | 188              |          |           | 3.09         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      |                  | Latitude | Longitude |              |
| 05     | 07  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 188              |          |           | 6.79         |
| 05     | 08  | 860905 | 18.52          | 55             | 61    | 05           |       | 5                    | 188              | 06 40 S  | 082 48 W  | 0.31         |
| 01     | 01  | 860906 | 18.52          | 55             | 61    | 05           |       | 5                    | 203              | 09 02 S  | 083 38 W  | 2.16         |
| 01     | 02  | 860906 | 18.52          | 63             | 64    | 38           |       | 5                    | 203              |          |           | 6.17         |
| 01     | 03  | 860906 | 18.52          | 55             | 61    | 05           |       | 5                    | 203              |          |           | 7.41         |
| 01     | 04  | 860906 | 18.52          | 61             | 05    | 55           |       | 5                    | 203              |          |           | 0.93         |
| 01     | 05  | 860906 | 18.52          | 55             | 05    | 38           |       | 5                    | 203              |          |           | 2.16         |
| 01     | 06  | 860906 | 18.52          | 61             | 05    | 55           |       | 5                    | 203              |          |           | 3.09         |
| 01     | 07  | 860906 | 18.52          | 05             | 55    | 61           |       | 5                    | 203              |          |           | 5.86         |
| 01     | 08  | 860906 | 18.52          | 55             | 61    | 05           |       | 5                    | 203              |          |           | 6.17         |
| 01     | 09  | 860906 | 18.52          | 61             | 05    | 55           |       | 5                    | 203              |          |           | 3.70         |
| 01     | 10  | 860906 | 18.52          | 63             | 64    | 38           |       | 5                    | 203              |          |           | 6.17         |
| 01     | 11  | 860906 | 18.52          | 64             | 38    | 63           |       | 5                    | 203              | 09 26 S  | 083 53 W  | 10.19        |
| 01     | 12  | 860906 | 18.52          | 38             | 63    | 64           |       | 5                    | 203              |          |           | 4.32         |
| 02     | 01  | 860906 | 18.52          | 38             | 63    | 64           |       | 5                    | 203              |          |           | 0.62         |
| 02     | 02  | 860906 | 18.52          | 63             | 64    | 38           |       | 5                    | 203              |          |           | 6.17         |
| 02     | 03  | 860906 | 18.52          | 64             | 38    | 63           |       | 5                    | 203              |          |           | 6.17         |
| 02     | 04  | 860906 | 18.52          | 38             | 63    | 64           |       | 5                    | 203              |          |           | 2.16         |
| 02     | 05  | 860906 | 18.52          | 55             | 61    | 05           |       | 5                    | 203              |          |           | 7.10         |
| 02     | 06  | 860906 | 18.52          | 61             | 05    | 55           |       | 5                    | 203              | 09 43 S  | 084 00 W  | 6.17         |
| 02     | 07  | 860906 | 18.52          | 05             | 55    | 61           |       | 5                    | 203              |          |           | 3.70         |
| 02     | 08  | 860906 | 18.52          | 63             | 64    | 38           |       | 5                    | 203              |          |           | 4.01         |
| 02     | 09  | 860906 | 18.52          | 05             | 55    | 61           |       | 5                    | 203              |          |           | 2.78         |
| 02     | 10  | 860906 | 18.52          | 55             | 61    | 05           |       | 5                    | 203              | 09 51 S  | 084 03 W  | 6.17         |
| 02     | 11  | 860906 | 18.52          | 61             | 05    | 55           |       | 5                    | 203              |          |           | 7.72         |
| 02     | 12  | 860906 | 18.52          | 64             | 38    | 63           |       | 5                    | 203              |          |           | 4.94         |
| 02     | 13  | 860906 | 18.52          | 64             | 38    | 63           |       | 5                    | 203              |          |           | 1.23         |
| 02     | 14  | 860906 | 18.52          | 38             | 63    | 64           |       | 5                    | 203              | 10 00 S  | 084 07 W  | 6.17         |
| 02     | 15  | 860906 | 18.52          | 63             | 64    | 38           |       | 5                    | 203              |          |           | 6.17         |
| 02     | 16  | 860906 | 18.52          | 64             | 38    | 63           |       | 5                    | 203              |          |           | 6.17         |
| 02     | 17  | 860906 | 18.52          | 38             | 63    | 64           |       | 5                    | 203              | 10 09 S  | 084 10 W  | 1.23         |
| 02     | 18  | 860906 | 18.52          | 38             | 63    | 64           |       | 5                    | 197              |          |           | 4.94         |
| 02     | 19  | 860906 | 18.52          | 63             | 64    | 38           |       | 5                    | 197              | 10 13 S  | 084 11 W  | 6.79         |
| 02     | 20  | 860906 | 18.52          | 55             | 61    | 05           |       | 5                    | 197              |          |           | 6.17         |
| 02     | 21  | 860906 | 18.52          | 61             | 05    | 55           |       | 5                    | 197              | 10 18 S  | 084 14 W  | 6.17         |
| 02     | 22  | 860906 | 18.52          | 05             | 55    | 61           |       | 5                    | 197              |          |           | 6.17         |
| 02     | 23  | 860906 | 18.52          | 55             | 61    | 05           |       | 5                    | 197              |          |           | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 02     | 24  | 860906 | 18.52          | 61             | 05    | 55           |       | 5          | 197              | 10 27 S  | 084 16 W  | 6.17         |
| 02     | 25  | 860906 | 18.52          | 05             | 55    | 61           |       | 5          | 197              |          |           | 3.40         |
| 02     | 26  | 860906 | 18.52          | 63             | 64    | 38           |       | 5          | 197              |          |           | 6.17         |
| 02     | 27  | 860906 | 18.52          | 64             | 38    | 63           |       | 5          | 197              |          |           | 6.17         |
| 02     | 28  | 860906 | 18.52          | 38             | 63    | 64           |       | 5          | 197              |          |           | 6.17         |
| 02     | 29  | 860906 | 18.52          | 63             | 64    | 38           |       | 5          | 197              |          |           | 6.17         |
| 02     | 30  | 860906 | 18.52          | 64             | 38    | 63           |       | 5          | 197              |          |           | 6.17         |
| 02     | 31  | 860906 | 18.52          | 38             | 63    | 64           |       | 5          | 197              |          |           | 2.47         |
| 02     | 32  | 860906 | 18.52          | 38             | 63    | 64           |       | 5          | 197              | 10 50 S  | 084 22 W  | 0.31         |
| 01     | 01  | 860907 | 18.52          | 63             | 64    | 38           |       | 4          | 327              | 12 31 S  | 085 05 W  | 0.93         |
| 01     | 02  | 860907 | 18.52          | 05             | 61    | 55           |       | 4          | 327              |          |           | 3.70         |
| 01     | 03  | 860907 | 18.52          | 63             | 64    | 38           |       | 4          | 327              | 12 28 S  | 085 07 W  | 6.17         |
| 01     | 04  | 860907 | 18.52          | 64             | 38    | 63           |       | 4          | 327              |          |           | 6.17         |
| 01     | 05  | 860907 | 18.52          | 38             | 63    | 64           |       | 4          | 327              |          |           | 6.17         |
| 01     | 06  | 860907 | 18.52          | 63             | 64    | 38           |       | 3          | 327              | 12 21 S  | 085 16 W  | 6.17         |
| 01     | 07  | 860907 | 18.52          | 64             | 38    | 63           |       | 3          | 327              |          |           | 8.03         |
| 01     | 08  | 860907 | 18.52          | 55             | 61    | 05           |       | 3          | 327              |          |           | 6.17         |
| 01     | 09  | 860907 | 18.52          | 61             | 05    | 55           |       | 3          | 327              |          |           | 6.17         |
| 01     | 10  | 860907 | 18.52          | 05             | 55    | 61           |       | 3          | 327              |          |           | 1.54         |
| 01     | 11  | 860907 | 18.52          | 05             | 55    | 61           |       | 3          | 327              | 12 07 S  | 085 23 W  | 4.63         |
| 01     | 12  | 860907 | 18.52          | 55             | 61    | 05           |       | 3          | 327              |          |           | 6.17         |
| 01     | 13  | 860907 | 18.52          | 61             | 05    | 55           |       | 3          | 327              |          |           | 6.17         |
| 01     | 14  | 860907 | 18.52          | 05             | 55    | 61           |       | 3          | 327              |          |           | 6.17         |
| 01     | 15  | 860907 | 18.52          | 38             | 63    | 64           |       | 3          | 327              |          |           | 6.17         |
| 01     | 16  | 860907 | 18.52          | 63             | 64    | 38           |       | 3          | 327              |          |           | 6.17         |
| 01     | 17  | 860907 | 18.52          | 64             | 38    | 63           |       | 3          | 327              |          |           | 2.16         |
| 01     | 18  | 860907 | 18.52          | 55             | 61    | 05           |       | 3          | 327              |          |           | 6.17         |
| 01     | 19  | 860907 | 18.52          | 64             | 38    | 63           |       | 3          | 327              |          |           | 3.09         |
| 01     | 20  | 860907 | 18.52          | 38             | 63    | 64           |       | 3          | 327              | 11 46 S  | 085 40 W  | 6.17         |
| 01     | 21  | 860907 | 18.52          | 63             | 64    | 38           |       | 3          | 327              |          |           | 7.10         |
| 01     | 22  | 860907 | 18.52          | 55             | 61    | 05           |       | 3          | 327              |          |           | 6.17         |
| 01     | 23  | 860907 | 18.52          | 61             | 05    | 55           |       | 3          | 327              |          |           | 6.17         |
| 01     | 24  | 860907 | 18.52          | 05             | 55    | 61           |       | 3          | 327              |          |           | 0.93         |
| 01     | 25  | 860907 | 18.52          | 05             | 55    | 61           |       | 3          | 327              | 11 33 S  | 085 49 W  | 5.56         |
| 01     | 26  | 860907 | 18.52          | 55             | 61    | 05           |       | 3          | 327              |          |           | 6.17         |
| 01     | 27  | 860907 | 18.52          | 61             | 05    | 55           |       | 3          | 327              |          |           | 6.17         |
| 01     | 28  | 860907 | 18.52          | 05             | 55    | 61           |       | 3          | 327              |          |           | 5.86         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 01     | 29  | 860907 | 18.52          | 63             | 64    | 38           |       |            | 3                | 327      |                  | 6.17         |
| 01     | 30  | 860907 | 18.52          | 64             | 38    | 63           |       |            | 3                | 327      |                  | 4.01         |
| 01     | 31  | 860907 | 18.52          | 64             | 38    | 63           | 11    | 01         | 3                | 327      |                  | 2.16         |
| 01     | 32  | 860907 | 18.52          | 38             | 63    | 64           | 11    | 01         | 3                | 327      |                  | 6.17         |
| 01     | 33  | 860907 | 18.52          | 63             | 64    | 38           | 11    | 01         | 3                | 327      |                  | 6.17         |
| 01     | 34  | 860907 | 18.52          | 64             | 38    | 63           |       |            | 3                | 327      | 11 10 S 086 04 W | 6.17         |
| 01     | 35  | 860907 | 18.52          | 38             | 63    | 64           |       |            | 3                | 327      |                  | 3.09         |
| 02     | 01  | 860907 | 18.52          | 55             | 61    | 05           |       |            | 3                | 327      |                  | 7.10         |
| 02     | 02  | 860907 | 18.52          | 61             | 05    | 55           |       |            | 3                | 327      |                  | 6.17         |
| 02     | 03  | 860907 | 18.52          | 05             | 55    | 61           |       |            | 3                | 327      |                  | 1.54         |
| 02     | 04  | 860907 | 18.52          | 05             | 55    | 61           |       |            | 3                | 327      | 10 55 S 086 01 W | 4.63         |
| 02     | 05  | 860907 | 18.52          | 55             | 61    | 05           |       |            | 3                | 327      |                  | 0.62         |
| 02     | 06  | 860907 | 18.52          | 55             | 61    | 05           |       |            | 2                | 327      |                  | 2.47         |
| 02     | 07  | 860907 | 18.52          | 55             | 61    | 05           |       |            | 2                | 327      |                  | 0.31         |
| 01     | 01  | 860908 | 18.52          | 64             | 61    | 05           |       |            | 2                | 327      | 10 51 S 086 13 W | 6.17         |
| 01     | 02  | 860908 | 18.52          | 61             | 05    | 64           |       |            | 2                | 327      | 09 13 S 087 16 W | 6.17         |
| 01     | 03  | 860908 | 18.52          | 05             | 64    | 38           |       |            | 2                | 327      |                  | 6.17         |
| 01     | 04  | 860908 | 18.52          | 05             | 64    | 61           |       |            | 2                | 327      |                  | 3.40         |
| 01     | 05  | 860908 | 18.52          | 64             | 61    | 38           |       |            | 2                | 327      |                  | 3.09         |
| 01     | 06  | 860908 | 18.52          | 64             | 61    | 05           |       |            | 2                | 327      |                  | 0.93         |
| 01     | 07  | 860908 | 18.52          | 61             | 05    | 64           |       |            | 2                | 327      |                  | 6.17         |
| 01     | 08  | 860908 | 18.52          | 05             | 64    | 61           |       |            | 2                | 327      |                  | 6.17         |
| 01     | 09  | 860908 | 18.52          | 63             | 55    | 38           |       |            | 2                | 327      |                  | 4.94         |
| 01     | 10  | 860908 | 18.52          | 55             | 38    | 63           |       |            | 2                | 327      |                  | 6.79         |
| 01     | 11  | 860908 | 18.52          | 38             | 63    | 55           |       |            | 2                | 327      |                  | 6.17         |
| 01     | 12  | 860908 | 18.52          | 63             | 55    | 38           |       |            | 2                | 327      |                  | 6.17         |
| 01     | 13  | 860908 | 18.52          | 55             | 38    | 63           |       |            | 2                | 327      |                  | 6.17         |
| 02     | 01  | 860908 | 18.52          | 38             | 63    | 55           |       |            | 2                | 327      | 08 37 S 087 41 W | 5.86         |
| 02     | 02  | 860908 | 18.52          | 64             | 61    | 05           |       |            | 2                | 327      |                  | 3.70         |
| 03     | 01  | 860908 | 18.52          | 61             | 05    | 64           |       |            | 2                | 327      |                  | 3.70         |
| 03     | 02  | 860908 | 18.52          | 05             | 64    | 61           |       |            | 2                | 327      |                  | 6.17         |
| 03     | 03  | 860908 | 18.52          | 64             | 61    | 05           |       |            | 3                | 327      | 08 28 S 087 44 W | 6.17         |
| 03     | 04  | 860908 | 18.52          | 64             | 61    | 05           |       |            | 3                | 327      |                  | 6.17         |
| 03     | 05  | 860908 | 18.52          | 61             | 05    | 64           |       |            | 3                | 327      | 08 22 S 087 48 W | 5.25         |
| 03     | 06  | 860908 | 18.52          | 55             | 38    | 63           |       |            | 3                | 327      |                  | 0.93         |
| 03     | 07  | 860908 | 18.52          | 38             | 63    | 55           |       |            | 3                | 327      |                  | 3.40         |
| 03     | 08  | 860908 | 18.52          | 63             | 55    | 38           |       |            | 3                | 327      |                  | 6.17         |
| 03     |     |        |                | 63             | 55    | 38           |       |            | 3                | 327      |                  | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 03     | 09  | 860908 | 18.52          | 55             | 38    | 63           |       | 3          | 327              |          |           | 6.17         |
| 03     | 10  | 860908 | 18.52          | 38             | 63    | 55           |       | 3          | 327              |          |           | 6.17         |
| 03     | 11  | 860908 | 18.52          | 63             | 55    | 38           |       | 3          | 327              |          |           | 6.17         |
| 03     | 12  | 860908 | 18.52          | 61             | 64    | 05           |       | 3          | 327              |          |           | 5.56         |
| 03     | 13  | 860908 | 18.52          | 61             | 64    | 05           |       | 4          | 327              |          |           | 0.62         |
| 03     | 14  | 860908 | 18.52          | 64             | 05    | 61           |       | 4          | 327              |          |           | 1.54         |
| 03     | 15  | 860908 | 18.52          | 64             | 05    | 61           |       | 4          | 327              | 07 56 S  | 080 05 W  | 4.63         |
| 03     | 16  | 860908 | 18.52          | 05             | 61    | 64           |       | 4          | 327              |          |           | 6.17         |
| 03     | 17  | 860908 | 18.52          | 61             | 64    | 05           |       | 4          | 327              |          |           | 3.09         |
| 03     | 18  | 860908 | 18.52          | 63             | 38    | 55           |       | 4          | 327              |          |           | 7.10         |
| 03     | 19  | 860908 | 18.52          | 64             | 61    | 05           |       | 4          | 327              |          |           | 4.01         |
| 03     | 20  | 860908 | 18.52          | 61             | 05    | 64           |       | 4          | 327              |          |           | 4.32         |
| 03     | 21  | 860908 | 18.52          | 55             | 38    | 63           |       | 4          | 327              |          |           | 6.17         |
| 03     | 22  | 860908 | 18.52          | 38             | 63    | 55           |       | 3          | 327              |          |           | 6.17         |
| 03     | 23  | 860908 | 18.52          | 63             | 55    | 38           |       | 3          | 327              |          |           | 7.41         |
| 01     | 01  | 860909 | 18.52          | 63             | 38    | 55           |       | 2          | 327              | 05 57 S  | 089 27 W  | 6.17         |
| 01     | 02  | 860909 | 18.52          | 38             | 55    | 63           |       | 2          | 327              |          |           | 6.17         |
| 01     | 03  | 860909 | 18.52          | 55             | 63    | 38           |       | 3          | 327              |          |           | 6.17         |
| 01     | 04  | 860909 | 18.52          | 63             | 38    | 55           |       | 3          | 327              |          |           | 6.17         |
| 01     | 05  | 860909 | 18.52          | 38             | 55    | 63           |       | 3          | 327              |          |           | 6.17         |
| 01     | 06  | 860909 | 18.52          | 55             | 63    | 38           |       | 3          | 327              |          |           | 6.17         |
| 01     | 07  | 860909 | 18.52          | 64             | 61    | 05           |       | 3          | 327              |          |           | 7.72         |
| 01     | 08  | 860909 | 18.52          | 61             | 05    | 64           |       | 3          | 327              |          |           | 4.94         |
| 02     | 01  | 860909 | 18.52          | 05             | 64    | 61           |       | 3          | 327              | 05 34 S  | 089 43 W  | 6.17         |
| 02     | 02  | 860909 | 18.52          | 64             | 61    | 05           |       | 3          | 327              |          |           | 4.01         |
| 02     | 03  | 860909 | 18.52          | 64             | 61    | 38           |       | 3          | 327              |          |           | 2.16         |
| 02     | 04  | 860909 | 18.52          | 61             | 05    | 64           |       | 3          | 327              |          |           | 6.17         |
| 02     | 05  | 860909 | 18.52          | 05             | 64    | 61           |       | 3          | 327              | 05 33 S  | 089 44 W  | 4.01         |
| 02     | 06  | 860909 | 18.52          | 05             | 64    | 61           |       | 3          | 337              |          |           | 2.16         |
| 02     | 07  | 860909 | 18.52          | 64             | 61    | 05           |       | 3          | 337              |          |           | 4.01         |
| 02     | 08  | 860909 | 18.52          | 55             | 63    | 38           | 03    | 3          | 337              |          |           | 6.17         |
| 02     | 09  | 860909 | 18.52          | 63             | 38    | 55           | 03    | 3          | 337              |          |           | 6.17         |
| 02     | 10  | 860909 | 18.52          | 38             | 55    | 63           |       | 3          | 337              |          |           | 3.40         |
| 03     | 01  | 860909 | 18.52          | 55             | 63    | 38           |       | 3          | 337              | 05 08 S  | 089 53 W  | 6.17         |
| 03     | 02  | 860909 | 18.52          | 63             | 38    | 55           |       | 3          | 327              |          |           | 3.70         |
| 03     | 03  | 860909 | 18.52          | 64             | 61    | 05           | 12    | 3          | 327              | 05 04 S  | 089 57 W  | 11.11        |
| 03     | 04  | 860909 | 5.56           | 64             | 61    | 05           | 12    | 3          | 233              |          |           | 0.28         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 03     | 05  | 860909 | 18.52          | 61             | 05    | 64           |       | 3          | 233              |          |           | 6.48         |
| 03     | 06  | 860909 | 18.52          | 05             | 64    | 61           |       | 3          | 233              |          |           | 6.17         |
| 03     | 07  | 860909 | 18.52          | 64             | 61    | 05           |       | 3          | 233              |          |           | 6.17         |
| 03     | 08  | 860909 | 18.52          | 61             | 05    | 64           |       | 4          | 233              |          |           | 6.79         |
| 03     | 09  | 860909 | 18.52          | 55             | 38    | 63           |       | 4          | 233              |          |           | 6.17         |
| 03     | 10  | 860909 | 18.52          | 38             | 63    | 55           |       | 4          | 233              | 05 10 S  | 090 15 W  | 6.79         |
| 03     | 11  | 860909 | 18.52          | 64             | 61    | 05           |       | 4          | 233              |          |           | 7.10         |
| 03     | 12  | 860909 | 18.52          | 63             | 38    | 55           |       | 4          | 233              |          |           | 6.17         |
| 03     | 13  | 860909 | 18.52          | 38             | 55    | 63           |       | 4          | 233              | 05 16 S  | 090 23 W  | 6.17         |
| 03     | 14  | 860909 | 18.52          | 55             | 63    | 38           |       | 4          | 233              |          |           | 4.63         |
| 03     | 15  | 860909 | 18.52          | 64             | 61    | 05           |       | 4          | 233              |          |           | 6.17         |
| 03     | 16  | 860909 | 18.52          | 61             | 05    | 64           |       | 4          | 233              |          |           | 3.70         |
| 03     | 17  | 860909 | 18.52          | 61             | 05    | 64           |       | 4          | 233              | 05 23 S  | 090 33 W  | 0.31         |
| 01     | 01  | 860910 | 18.52          | 64             | 61    | 05           |       | 4          | 234              | 06 33 S  | 092 12 W  | 6.79         |
| 01     | 02  | 860910 | 18.52          | 61             | 05    | 64           |       | 4          | 234              |          |           | 6.17         |
| 01     | 03  | 860910 | 18.52          | 05             | 64    | 61           |       | 4          | 234              |          |           | 6.17         |
| 01     | 04  | 860910 | 18.52          | 64             | 61    | 05           |       | 4          | 234              |          |           | 6.17         |
| 01     | 05  | 860910 | 18.52          | 61             | 05    | 64           |       | 4          | 234              |          |           | 4.94         |
| 01     | 06  | 860910 | 18.52          | 61             | 05    | 64           |       | 5          | 234              |          |           | 1.23         |
| 01     | 07  | 860910 | 18.52          | 05             | 64    | 61           |       | 5          | 234              |          |           | 0.93         |
| 01     | 08  | 860910 | 18.52          | 05             | 64    | 61           |       | 5          | 234              | 06 44 S  | 092 27 W  | 1.85         |
| 01     | 09  | 860910 | 18.52          | 05             | 64    | 61           |       | 4          | 234              |          |           | 2.78         |
| 01     | 10  | 860910 | 18.52          | 55             | 38    | 63           |       | 4          | 234              |          |           | 6.17         |
| 01     | 11  | 860910 | 18.52          | 38             | 63    | 55           |       | 4          | 234              |          |           | 6.17         |
| 01     | 12  | 860910 | 18.52          | 63             | 55    | 38           |       | 4          | 234              |          |           | 0.93         |
| 02     | 01  | 860910 | 18.52          | 63             | 55    | 38           |       | 4          | 234              |          |           | 1.85         |
| 02     | 02  | 860910 | 18.52          | 55             | 38    | 63           |       | 5          | 234              |          |           | 4.63         |
| 02     | 03  | 860910 | 18.52          | 55             | 38    | 63           | 07 01 | 6          | 234              |          |           | 2.78         |
| 02     | 04  | 860910 | 18.52          | 38             | 63    | 55           | 07 01 | 6          | 234              |          |           | 6.17         |
| 02     | 05  | 860910 | 18.52          | 63             | 55    | 38           |       | 5          | 234              | 06 53 S  | 092 42 W  | 2.47         |
| 02     | 06  | 860910 | 18.52          | 63             | 55    | 64           |       | 5          | 234              |          |           | 7.72         |
| 02     | 07  | 860910 | 18.52          | 61             | 64    | 05           |       | 5          | 234              |          |           | 7.10         |
| 02     | 08  | 860910 | 18.52          | 64             | 05    | 61           | 12    | 5          | 234              |          |           | 6.79         |
| 02     | 09  | 860910 | 18.52          | 05             | 61    | 64           | 12    | 5          | 234              |          |           | 6.17         |
| 02     | 10  | 860910 | 18.52          | 61             | 64    | 05           | 12    | 5          | 234              |          |           | 6.48         |
| 02     | 11  | 860910 | 18.52          | 64             | 05    | 61           | 12    | 5          | 234              |          |           | 0.93         |
| 02     | 12  | 860910 | 18.52          | 64             | 05    | 61           | 12    | 5          | 234              | 07 40 S  | 093 00 W  | 5.25         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 02     | 13  | 860910 | 18.52          | 05             | 61    | 64           | 12    | 12         | 5                | 234      |                  | 4.94         |
| 02     | 14  | 860910 | 18.52          | 55             | 38    | 20           | 03    | 12         | 5                | 234      |                  | 6.17         |
| 02     | 15  | 860910 | 18.52          | 38             | 20    | 55           | 03    | 12         | 5                | 234      |                  | 6.17         |
| 02     | 16  | 860910 | 18.52          | 20             | 55    | 38           | 03    | 12         | 5                | 234      |                  | 6.17         |
| 02     | 17  | 860910 | 18.52          | 55             | 38    | 20           | 03    | 12         | 5                | 234      |                  | 6.17         |
| 02     | 18  | 860910 | 18.52          | 38             | 20    | 55           | 03    | 12         | 5                | 234      |                  | 6.17         |
| 02     | 19  | 860910 | 18.52          | 20             | 55    | 38           | 02    | 12         | 5                | 234      |                  | 6.48         |
| 02     | 20  | 860910 | 18.52          | 64             | 61    | 05           | 02    | 12         | 5                | 234      |                  | 6.17         |
| 02     | 21  | 860910 | 18.52          | 61             | 05    | 64           | 02    | 01         | 5                | 234      |                  | 6.79         |
| 02     | 22  | 860910 | 18.52          | 63             | 38    | 55           | 02    | 01         | 5                | 234      |                  | 6.17         |
| 02     | 23  | 860910 | 18.52          | 61             | 64    | 05           | 02    | 01         | 5                | 234      |                  | 3.70         |
| 02     | 24  | 860910 | 18.52          | 61             | 64    | 05           |       |            | 5                | 234      |                  | 2.47         |
| 02     | 25  | 860910 | 18.52          | 64             | 05    | 61           |       |            | 5                | 234      |                  | 0.93         |
| 02     | 26  | 860910 | 18.52          | 64             | 05    | 61           |       |            | 5                | 234      | 07 27 S 093 32 W | 4.94         |
| 02     | 27  | 860910 | 18.52          | 05             | 61    | 64           |       |            | 5                | 234      |                  | 6.79         |
| 02     | 28  | 860910 | 18.52          | 63             | 38    | 55           |       |            | 5                | 234      |                  | 6.79         |
| 02     | 29  | 860910 | 18.52          | 38             | 55    | 63           |       |            | 5                | 234      | 07 32 S 093 40 W | 4.01         |
| 01     | 01  | 860911 | 18.52          | 55             | 61    | 38           |       |            | 5                | 270      | 08 29 S 095 24 W | 6.17         |
| 01     | 02  | 860911 | 18.52          | 61             | 38    | 55           |       |            | 5                | 270      |                  | 6.17         |
| 01     | 03  | 860911 | 18.52          | 38             | 55    | 61           |       |            | 5                | 270      |                  | 6.17         |
| 01     | 04  | 860911 | 18.52          | 55             | 61    | 38           |       |            | 5                | 270      |                  | 6.17         |
| 01     | 05  | 860911 | 18.52          | 61             | 38    | 55           |       |            | 5                | 270      | 08 32 S 095 43 W | 6.17         |
| 01     | 06  | 860911 | 18.52          | 38             | 55    | 61           |       |            | 5                | 270      |                  | 0.62         |
| 01     | 07  | 860911 | 5.56           | 38             | 55    | 61           |       |            | 5                | 270      |                  | 0.19         |
| 01     | 08  | 860911 | 18.52          | 38             | 55    | 61           |       |            | 5                | 270      |                  | 4.94         |
| 01     | 09  | 860911 | 18.52          | 64             | 05    | 63           |       |            | 5                | 270      |                  | 1.23         |
| 01     | 10  | 860911 | 18.52          | 64             | 05    | 63           |       |            | 5                | 270      |                  | 1.54         |
| 01     | 11  | 860911 | 18.52          | 64             | 05    | 63           |       |            | 5                | 270      |                  | 3.09         |
| 01     | 12  | 860911 | 18.52          | 64             | 05    | 63           | 06    | 02         | 5                | 270      |                  | 0.31         |
| 01     | 13  | 860911 | 18.52          | 05             | 63    | 64           | 06    | 01         | 5                | 270      |                  | 6.17         |
| 01     | 14  | 860911 | 18.52          | 63             | 64    | 05           | 06    | 01         | 6                | 270      |                  | 5.25         |
| 01     | 15  | 860911 | 18.52          | 63             | 64    | 05           |       |            | 6                | 270      |                  | 0.93         |
| 01     | 16  | 860911 | 18.52          | 64             | 05    | 63           |       |            | 6                | 270      |                  | 6.17         |
| 01     | 17  | 860911 | 18.52          | 05             | 63    | 64           | 12    | 12         | 6                | 270      |                  | 6.17         |
| 01     | 18  | 860911 | 18.52          | 63             | 64    | 05           | 12    | 12         | 6                | 270      |                  | 6.17         |
| 01     | 19  | 860911 | 18.52          | 64             | 05    | 63           | 12    | 12         | 6                | 270      |                  | 4.63         |
| 01     | 20  | 860911 | 18.52          | 55             | 61    | 38           | 12    | 12         | 6                | 270      |                  | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed |  | Observer Codes |       | Sun Position |       | Beauf. Course No. | Course (Deg.) | Position |                  | KM In Leg |
|--------|-----|--------|-------|--|----------------|-------|--------------|-------|-------------------|---------------|----------|------------------|-----------|
|        |     |        | Km/Hr |  | Left           | Right | Horz.        | Vert. |                   |               | Latitude | Longitude        |           |
| 01     | 21  | 860911 | 18.52 |  | 61             | 38    | 55           | 12    | 12                | 6             | 270      |                  | 6.17      |
| 01     | 22  | 860911 | 18.52 |  | 38             | 55    | 61           | 12    | 12                | 6             | 270      |                  | 1.85      |
| 01     | 23  | 860911 | 18.52 |  | 38             | 55    | 61           | 12    | 12                | 6             | 270      | 08 31 S 096 20 W | 4.32      |
| 01     | 24  | 860911 | 18.52 |  | 55             | 61    | 38           | 12    | 12                | 6             | 270      |                  | 6.17      |
| 01     | 25  | 860911 | 18.52 |  | 61             | 38    | 55           | 12    | 12                | 6             | 270      |                  | 6.17      |
| 01     | 26  | 860911 | 18.52 |  | 38             | 55    | 61           | 12    | 12                | 6             | 270      |                  | 3.40      |
| 02     | 01  | 860911 | 18.52 |  | 63             | 64    | 05           | 12    | 12                | 6             | 270      | 08 31 S 096 33 W | 3.09      |
| 02     | 02  | 860911 | 18.52 |  | 63             | 64    | 05           | 12    | 12                | 6             | 297      |                  | 3.09      |
| 02     | 03  | 860911 | 18.52 |  | 64             | 05    | 63           | 12    | 12                | 6             | 297      |                  | 6.48      |
| 02     | 04  | 860911 | 18.52 |  | 64             | 05    | 63           | 12    | 12                | 6             | 297      |                  | 0.31      |
| 01     | 01  | 860912 | 18.52 |  | 63             | 64    | 05           | 12    | 12                | 5             | 000      | 08 30 S 096 36 W | 4.01      |
| 01     | 02  | 860912 | 18.52 |  | 63             | 64    | 05           | 12    | 12                | 5             | 310      | 06 47 S 097 38 W | 3.09      |
| 01     | 03  | 860912 | 18.52 |  | 64             | 05    | 63           | 12    | 12                | 5             | 310      |                  | 6.17      |
| 01     | 04  | 860912 | 18.52 |  | 05             | 63    | 64           | 12    | 12                | 5             | 310      |                  | 6.17      |
| 01     | 05  | 860912 | 18.52 |  | 63             | 64    | 05           | 12    | 12                | 5             | 310      |                  | 6.48      |
| 01     | 06  | 860912 | 18.52 |  | 64             | 05    | 63           | 12    | 12                | 5             | 310      |                  | 6.17      |
| 01     | 07  | 860912 | 18.52 |  | 05             | 63    | 64           | 12    | 12                | 5             | 310      |                  | 5.25      |
| 01     | 08  | 860912 | 18.52 |  | 55             | 61    | 38           | 12    | 12                | 5             | 310      |                  | 6.17      |
| 01     | 09  | 860912 | 18.52 |  | 61             | 38    | 55           | 12    | 12                | 5             | 310      | 06 32 S 097 54 W | 6.17      |
| 01     | 10  | 860912 | 18.52 |  | 38             | 55    | 61           | 12    | 12                | 5             | 310      |                  | 0.93      |
| 01     | 11  | 860912 | 18.52 |  | 38             | 55    | 61           | 12    | 12                | 5             | 310      | 06 30 S 097 58 W | 5.25      |
| 01     | 12  | 860912 | 18.52 |  | 55             | 61    | 38           | 04    | 01                | 5             | 310      |                  | 6.17      |
| 01     | 13  | 860912 | 18.52 |  | 61             | 38    | 55           | 04    | 01                | 5             | 310      | 06 26 S 098 02 W | 6.79      |
| 01     | 14  | 860912 | 18.52 |  | 38             | 55    | 61           | 12    | 12                | 5             | 310      |                  | 3.09      |
| 01     | 15  | 860912 | 18.52 |  | 63             | 64    | 05           | 04    | 01                | 5             | 310      |                  | 6.17      |
| 01     | 16  | 860912 | 18.52 |  | 64             | 05    | 63           | 04    | 01                | 5             | 310      |                  | 6.17      |
| 01     | 17  | 860912 | 18.52 |  | 05             | 63    | 64           | 12    | 12                | 5             | 310      |                  | 6.17      |
| 01     | 18  | 860912 | 18.52 |  | 63             | 64    | 05           | 12    | 12                | 5             | 310      |                  | 6.17      |
| 01     | 19  | 860912 | 18.52 |  | 64             | 05    | 63           | 12    | 12                | 5             | 310      |                  | 4.63      |
| 01     | 20  | 860912 | 18.52 |  | 64             | 05    | 63           | 12    | 12                | 5             | 310      |                  | 1.54      |
| 01     | 21  | 860912 | 18.52 |  | 05             | 63    | 64           | 12    | 12                | 5             | 310      |                  | 5.86      |
| 01     | 22  | 860912 | 18.52 |  | 55             | 61    | 38           | 12    | 12                | 5             | 310      |                  | 6.17      |
| 01     | 23  | 860912 | 18.52 |  | 61             | 38    | 55           | 12    | 12                | 5             | 310      |                  | 6.17      |
| 01     | 24  | 860912 | 18.52 |  | 38             | 55    | 61           | 12    | 12                | 5             | 310      |                  | 3.70      |
| 01     | 25  | 860912 | 18.52 |  | 38             | 55    | 61           | 12    | 12                | 5             | 310      | 06 37 S 098 29 W | 2.47      |
| 01     | 26  | 860912 | 18.52 |  | 55             | 61    | 38           | 12    | 12                | 6             | 310      |                  | 6.17      |
| 01     | 27  | 860912 | 18.52 |  | 61             | 38    | 55           | 12    | 12                | 6             | 310      |                  | 6.17      |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Rec.         | Horz. |            |                  | Vert.    | Latitude         |              |
| 01     | 28  | 860912 | 18.52          | 38             | 55    | 61           | 11    | 01         | 6                | 310      |                  | 8.95         |
| 02     | 01  | 860912 | 18.52          | 63             | 64    | 05           | 11    | 01         | 6                | 310      | 05 45 S 098 54 W | 6.17         |
| 02     | 02  | 860912 | 18.52          | 64             | 05    | 63           | 11    | 02         | 5                | 310      |                  | 6.17         |
| 02     | 03  | 860912 | 18.52          | 05             | 63    | 64           | 11    | 02         | 5                | 310      | 05 40 S 099 00 W | 6.17         |
| 02     | 04  | 860912 | 18.52          | 63             | 64    | 05           | 11    | 02         | 5                | 310      |                  | 6.17         |
| 02     | 05  | 860912 | 18.52          | 64             | 05    | 63           | 11    | 03         | 5                | 310      |                  | 6.17         |
| 02     | 06  | 860912 | 18.52          | 05             | 63    | 64           | 11    | 03         | 5                | 310      | 05 34 S 099 08 W | 6.17         |
| 02     | 07  | 860912 | 18.52          | 63             | 64    | 05           | 11    | 03         | 5                | 310      |                  | 3.70         |
| 02     | 08  | 860912 | 18.52          | 63             | 64    | 05           | 11    | 03         | 5                | 310      | 05 30 S 099 12 W | 0.31         |
| 01     | 01  | 860913 | 18.52          | 55             | 61    | 38           | 11    | 03         | 4                | 000      | 03 44 S 099 22 W | 6.17         |
| 01     | 02  | 860913 | 18.52          | 61             | 38    | 55           |       |            | 4                | 000      |                  | 6.48         |
| 01     | 03  | 860913 | 18.52          | 38             | 55    | 61           |       |            | 4                | 000      |                  | 6.17         |
| 01     | 04  | 860913 | 18.52          | 55             | 61    | 38           |       |            | 4                | 000      |                  | 6.17         |
| 01     | 05  | 860913 | 18.52          | 61             | 38    | 55           |       |            | 4                | 000      |                  | 7.10         |
| 01     | 06  | 860913 | 18.52          | 38             | 55    | 61           |       |            | 4                | 000      |                  | 4.94         |
| 01     | 07  | 860913 | 18.52          | 63             | 64    | 05           |       |            | 4                | 000      |                  | 6.79         |
| 02     | 01  | 860913 | 18.52          | 64             | 05    | 63           |       |            | 4                | 000      | 03 15 S 099 24 W | 2.16         |
| 02     | 02  | 860913 | 18.52          | 64             | 05    | 63           | 03    | 02         | 4                | 000      |                  | 2.16         |
| 02     | 03  | 860913 | 18.52          | 64             | 05    | 63           |       |            | 4                | 000      |                  | 1.85         |
| 02     | 04  | 860913 | 18.52          | 05             | 63    | 64           |       |            | 4                | 000      |                  | 2.16         |
| 02     | 05  | 860913 | 18.52          | 05             | 63    | 64           | 03    | 01         | 4                | 000      |                  | 2.16         |
| 03     | 01  | 860913 | 18.52          | 63             | 64    | 05           |       |            | 4                | 000      |                  | 3.70         |
| 03     | 02  | 860913 | 18.52          | 55             | 61    | 38           | 03    | 01         | 4                | 000      | 03 06 S 099 26 W | 1.85         |
| 04     | 01  | 860913 | 18.52          | 61             | 38    | 55           | 03    | 12         | 4                | 000      |                  | 1.54         |
| 04     | 02  | 860913 | 18.52          | 61             | 38    | 55           | 03    | 12         | 4                | 000      |                  | 0.31         |
| 05     | 01  | 860913 | 18.52          | 61             | 38    | 55           | 03    | 12         | 4                | 000      |                  | 3.40         |
| 05     | 02  | 860913 | 18.52          | 38             | 55    | 61           | 03    | 12         | 4                | 000      |                  | 6.17         |
| 05     | 03  | 860913 | 18.52          | 55             | 61    | 38           | 12    | 12         | 5                | 000      |                  | 6.17         |
| 05     | 04  | 860913 | 18.52          | 61             | 38    | 55           | 12    | 12         | 5                | 000      |                  | 4.32         |
| 06     | 01  | 860913 | 18.52          | 64             | 63    | 05           | 12    | 12         | 4                | 000      | 02 46 S 099 30 W | 6.79         |
| 06     | 02  | 860913 | 18.52          | 63             | 05    | 64           | 12    | 12         | 4                | 000      |                  | 6.17         |
| 06     | 03  | 860913 | 18.52          | 05             | 64    | 63           | 09    | 12         | 4                | 000      |                  | 6.17         |
| 06     | 04  | 860913 | 18.52          | 64             | 63    | 05           | 09    | 12         | 4                | 000      |                  | 6.17         |
| 06     | 05  | 860913 | 18.52          | 63             | 05    | 64           | 09    | 01         | 4                | 000      |                  | 6.17         |
| 06     | 06  | 860913 | 18.52          | 05             | 64    | 63           | 09    | 01         | 4                | 000      |                  | 3.40         |
| 07     | 01  | 860913 | 18.52          | 64             | 55    | 38           | 09    | 02         | 4                | 000      | 02 21 S 099 32 W | 6.79         |
| 07     | 02  | 860913 | 18.52          | 55             | 38    | 64           | 09    | 02         | 4                | 000      |                  | 2.16         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 08     | 01  | 860913 | 18.52          | 38             | 64    | 55           | 09    | 02         | 4                | 000      | 02 08 S 099 31 W | 6.79         |
| 08     | 02  | 860913 | 18.52          | 64             | 55    | 38           | 09    | 02         | 4                | 000      |                  | 3.09         |
| 09     | 01  | 860913 | 18.52          | 05             | 61    | 63           | 09    | 03         | 4                | 000      |                  | 5.86         |
| 09     | 02  | 860913 | 18.52          | 05             | 61    | 63           | 09    | 03         | 4                | 000      | 01 59 S 099 34 W | 0.31         |
| 01     | 01  | 860914 | 18.52          | 55             | 63    | 05           |       |            | 3                | 000      | 00 06 S 099 37 W | 6.17         |
| 01     | 02  | 860914 | 18.52          | 63             | 05    | 55           |       |            | 3                | 000      |                  | 1.85         |
| 01     | 03  | 860914 | 18.52          | 55             | 05    | 20           |       |            | 3                | 000      |                  | 1.85         |
| 01     | 04  | 860914 | 18.52          | 63             | 05    | 55           |       |            | 3                | 000      |                  | 9.88         |
| 01     | 05  | 860914 | 18.52          | 05             | 55    | 63           |       |            | 3                | 000      |                  | 2.16         |
| 02     | 01  | 860914 | 18.52          | 55             | 63    | 05           |       |            | 3                | 061      | 00 09 N 099 35 W | 1.85         |
| 02     | 02  | 860914 | 18.52          | 64             | 61    | 38           | 01    | 02         | 3                | 061      |                  | 4.32         |
| 03     | 01  | 860914 | 18.52          | 61             | 38    | 64           | 01    | 02         | 4                | 061      | 00 13 N 099 29 W | 6.17         |
| 03     | 02  | 860914 | 18.52          | 38             | 64    | 61           |       |            | 4                | 061      |                  | 2.16         |
| 04     | 01  | 860914 | 18.52          | 64             | 61    | 38           |       |            | 3                | 061      |                  | 6.17         |
| 04     | 02  | 860914 | 18.52          | 61             | 38    | 64           | 01    | 01         | 3                | 061      |                  | 6.17         |
| 04     | 03  | 860914 | 18.52          | 38             | 64    | 61           | 01    | 01         | 3                | 061      |                  | 2.16         |
| 04     | 04  | 860914 | 18.52          | 38             | 64    | 61           | 01    | 01         | 4                | 061      |                  | 1.54         |
| 04     | 05  | 860914 | 18.52          | 63             | 55    | 05           | 01    | 01         | 4                | 061      |                  | 6.17         |
| 04     | 06  | 860914 | 18.52          | 55             | 05    | 63           | 12    | 12         | 4                | 061      | 00 25 N 099 15 W | 6.79         |
| 04     | 07  | 860914 | 18.52          | 05             | 63    | 55           | 12    | 12         | 4                | 061      |                  | 6.17         |
| 04     | 08  | 860914 | 18.52          | 63             | 55    | 05           | 12    | 12         | 4                | 061      |                  | 6.17         |
| 04     | 09  | 860914 | 18.52          | 55             | 05    | 63           | 12    | 12         | 4                | 061      |                  | 6.17         |
| 04     | 10  | 860914 | 18.52          | 05             | 63    | 55           | 12    | 12         | 4                | 061      |                  | 5.56         |
| 04     | 11  | 860914 | 18.52          | 64             | 61    | 38           | 12    | 12         | 4                | 061      |                  | 6.17         |
| 04     | 12  | 860914 | 18.52          | 61             | 38    | 64           |       |            | 4                | 061      | 00 35 N 098 59 W | 1.23         |
| 04     | 13  | 860914 | 18.52          | 61             | 38    | 64           |       |            | 4                | 061      |                  | 1.23         |
| 05     | 01  | 860914 | 18.52          | 38             | 64    | 61           |       |            | 4                | 061      | 00 38 N 098 54 W | 6.17         |
| 05     | 02  | 860914 | 18.52          | 64             | 61    | 38           | 12    | 12         | 4                | 061      |                  | 2.16         |
| 06     | 01  | 860914 | 18.52          | 61             | 38    | 64           | 07    | 01         | 4                | 062      | 00 40 N 098 50 W | 6.17         |
| 07     | 01  | 860914 | 18.52          | 55             | 63    | 05           | 07    | 01         | 4                | 062      |                  | 6.79         |
| 07     | 02  | 860914 | 18.52          | 63             | 05    | 55           | 07    | 01         | 4                | 062      | 00 46 N 098 43 W | 3.40         |
| 08     | 01  | 860914 | 18.52          | 64             | 38    | 61           | 07    | 01         | 4                | 062      | 00 49 N 098 43 W | 5.56         |
| 08     | 02  | 860914 | 18.52          | 64             | 38    | 61           |       |            | 4                | 062      |                  | 0.62         |
| 08     | 03  | 860914 | 18.52          | 38             | 61    | 64           |       |            | 4                | 062      |                  | 1.85         |
| 08     | 04  | 860914 | 18.52          | 05             | 55    | 63           |       |            | 4                | 062      |                  | 6.17         |
| 08     | 05  | 860914 | 18.52          | 55             | 63    | 05           |       |            | 4                | 062      |                  | 2.47         |
| 08     | 06  | 860914 | 18.52          | 38             | 61    | 64           | 07    | 02         | 4                | 062      |                  | 5.56         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 08     | 07  | 860914 | 18.52          | 38             | 61    | 64           |       | 4             | 062              |          |           | 0.62         |
| 08     | 08  | 860914 | 18.52          | 61             | 64    | 38           |       | 5             | 062              |          |           | 6.17         |
| 08     | 09  | 860914 | 18.52          | 64             | 38    | 61           |       | 5             | 062              |          |           | 0.62         |
| 08     | 10  | 860914 | 18.52          | 64             | 38    | 61           |       | 5             | 062              |          |           | 5.56         |
| 08     | 11  | 860914 | 18.52          | 38             | 61    | 64           |       | 5             | 062              |          |           | 2.78         |
| 08     | 12  | 860914 | 18.52          | 38             | 61    | 64           |       | 5             | 062              |          |           | 4.63         |
| 08     | 13  | 860914 | 18.52          | 38             | 61    | 64           |       | 5             | 062              | 01 00 N  | 098 24 W  | 0.31         |
| 01     | 01  | 860915 | 18.52          | 64             | 61    | 38           |       | 5             | 047              | 00 28 S  | 097 28 W  | 6.17         |
| 01     | 02  | 860915 | 18.52          | 61             | 38    | 64           |       | 5             | 047              |          |           | 1.54         |
| 01     | 03  | 860915 | 18.52          | 61             | 38    | 64           | 05    | 03            | 310              |          |           | 0.93         |
| 02     | 01  | 860915 | 18.52          | 38             | 64    | 61           | 01    | 03            | 047              | 00 24 S  | 097 20 W  | 3.40         |
| 02     | 02  | 860915 | 18.52          | 38             | 64    | 61           |       | 5             | 047              |          |           | 2.78         |
| 02     | 03  | 860915 | 18.52          | 64             | 61    | 38           |       | 5             | 047              |          |           | 3.70         |
| 03     | 01  | 860915 | 18.52          | 61             | 38    | 64           |       | 5             | 047              | 00 21 S  | 097 16 W  | 1.85         |
| 04     | 01  | 860915 | 18.52          | 55             | 63    | 05           |       | 5             | 047              | 00 19 S  | 097 13 W  | 6.79         |
| 04     | 02  | 860915 | 18.52          | 63             | 05    | 55           | 02    | 01            | 047              |          |           | 6.17         |
| 04     | 03  | 860915 | 18.52          | 38             | 55    | 63           |       | 5             | 047              |          |           | 1.85         |
| 05     | 01  | 860915 | 18.52          | 05             | 55    | 63           |       | 5             | 047              | 00 11 S  | 097 04 W  | 0.93         |
| 05     | 02  | 860915 | 18.52          | 05             | 55    | 63           |       | 5             | 047              |          |           | 1.54         |
| 05     | 03  | 860915 | 18.52          | 55             | 63    | 05           |       | 5             | 047              |          |           | 8.03         |
| 05     | 04  | 860915 | 18.52          | 63             | 05    | 55           |       | 5             | 047              |          |           | 3.40         |
| 05     | 05  | 860915 | 18.52          | 38             | 64    | 61           |       | 5             | 047              |          |           | 1.54         |
| 05     | 06  | 860915 | 18.52          | 38             | 64    | 61           |       | 5             | 047              | 00 03 S  | 096 57 W  | 2.47         |
| 05     | 07  | 860915 | 18.52          | 38             | 64    | 61           | 12    | 12            | 047              |          |           | 0.93         |
| 05     | 08  | 860915 | 18.52          | 38             | 64    | 61           |       | 5             | 047              |          |           | 1.23         |
| 05     | 09  | 860915 | 18.52          | 64             | 61    | 38           |       | 5             | 047              |          |           | 6.17         |
| 05     | 10  | 860915 | 18.52          | 61             | 38    | 64           | 12    | 12            | 047              |          |           | 6.17         |
| 05     | 11  | 860915 | 18.52          | 38             | 64    | 61           | 12    | 12            | 047              |          |           | 4.32         |
| 05     | 12  | 860915 | 18.52          | 38             | 64    | 61           |       | 5             | 047              |          |           | 1.54         |
| 06     | 01  | 860915 | 18.52          | 64             | 61    | 38           |       | 5             | 047              | 00 09 N  | 096 46 W  | 6.17         |
| 06     | 02  | 860915 | 18.52          | 63             | 05    | 55           | 12    | 12            | 047              |          |           | 2.78         |
| 06     | 03  | 860915 | 18.52          | 63             | 05    | 55           |       | 5             | 047              |          |           | 0.93         |
| 07     | 01  | 860915 | 18.52          | 63             | 05    | 55           |       | 5             | 047              |          |           | 2.78         |
| 07     | 02  | 860915 | 18.52          | 05             | 55    | 63           |       | 5             | 047              | 00 15 N  | 096 40 W  | 4.63         |
| 08     | 01  | 860915 | 18.52          | 05             | 55    | 63           |       | 5             | 047              |          |           | 1.54         |
| 08     | 02  | 860915 | 18.52          | 55             | 63    | 05           |       | 5             | 047              |          |           | 3.40         |
| 08     | 03  | 860915 | 18.52          | 55             | 63    | 05           | 12    | 12            | 047              |          |           | 3.09         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 08     | 04  | 860915 | 18.52          | 63             | 05    | 55           | 12    | 12            | 047              | 00 22 N  | 096 33 W  | 2.78         |
| 09     | 01  | 860915 | 18.52          | 64             | 61    | 38           |       |               | 048              | 00 24 N  | 096 32 W  | 6.17         |
| 09     | 02  | 860915 | 18.52          | 61             | 38    | 64           |       |               | 048              |          |           | 1.23         |
| 10     | 01  | 860915 | 18.52          | 38             | 64    | 61           |       |               | 048              | 00 30 N  | 096 27 W  | 7.41         |
| 10     | 02  | 860915 | 18.52          | 63             | 05    | 55           |       |               | 048              |          |           | 6.79         |
| 10     | 03  | 860915 | 18.52          | 64             | 61    | 38           |       |               | 048              |          |           | 1.23         |
| 11     | 01  | 860915 | 18.52          | 61             | 38    | 64           |       |               | 048              | 00 36 N  | 096 20 W  | 2.47         |
| 11     | 02  | 860915 | 18.52          | 63             | 55    | 05           |       |               | 048              |          |           | 6.17         |
| 11     | 03  | 860915 | 18.52          | 55             | 05    | 63           |       |               | 048              |          |           | 3.09         |
| 11     | 04  | 860915 | 18.52          | 55             | 05    | 63           |       |               | 052              |          |           | 2.16         |
| 11     | 05  | 860915 | 18.52          | 55             | 05    | 63           |       |               | 052              |          |           | 0.93         |
| 01     | 01  | 860916 | 18.52          | 55             | 05    | 63           |       |               | 148              | 00 01 S  | 095 29 W  | 6.79         |
| 01     | 02  | 860916 | 18.52          | 05             | 63    | 55           |       |               | 148              |          |           | 1.23         |
| 01     | 03  | 860916 | 18.52          | 05             | 63    | 55           | 10    | 02            | 148              |          |           | 4.94         |
| 01     | 04  | 860916 | 18.52          | 63             | 55    | 05           | 10    | 02            | 148              |          |           | 6.17         |
| 01     | 05  | 860916 | 18.52          | 55             | 05    | 63           |       |               | 148              |          |           | 1.54         |
| 01     | 06  | 860916 | 18.52          | 55             | 05    | 63           |       |               | 148              |          |           | 1.23         |
| 01     | 07  | 860916 | 18.52          | 55             | 05    | 63           |       |               | 148              |          |           | 1.85         |
| 02     | 01  | 860916 | 18.52          | 05             | 63    | 55           |       |               | 148              | 00 03 S  | 095 18 W  | 6.48         |
| 02     | 02  | 860916 | 18.52          | 63             | 55    | 05           |       |               | 148              |          |           | 4.01         |
| 02     | 03  | 860916 | 18.52          | 61             | 64    | 38           |       |               | 148              |          |           | 6.17         |
| 02     | 04  | 860916 | 18.52          | 64             | 38    | 61           |       |               | 148              |          |           | 6.17         |
| 02     | 05  | 860916 | 18.52          | 38             | 61    | 64           |       |               | 148              |          |           | 1.85         |
| 03     | 01  | 860916 | 18.52          | 61             | 64    | 38           |       |               | 148              | 00 18 S  | 095 16 W  | 2.16         |
| 04     | 01  | 860916 | 18.52          | 64             | 38    | 61           |       |               | 148              | 00 21 S  | 095 15 W  | 4.63         |
| 04     | 02  | 860916 | 18.52          | 63             | 55    | 05           |       |               | 148              |          |           | 6.17         |
| 04     | 03  | 860916 | 18.52          | 55             | 05    | 63           |       |               | 148              |          |           | 0.93         |
| 04     | 04  | 860916 | 18.52          | 55             | 05    | 63           |       |               | 140              |          |           | 0.93         |
| 04     | 05  | 860916 | 18.52          | 55             | 05    | 63           |       |               | 140              |          |           | 6.17         |
| 04     | 06  | 860916 | 18.52          | 05             | 63    | 55           | 09    | 12            | 140              |          |           | 6.17         |
| 04     | 07  | 860916 | 18.52          | 63             | 55    | 05           | 09    | 12            | 140              |          |           | 6.17         |
| 04     | 08  | 860916 | 18.52          | 55             | 05    | 63           | 12    | 12            | 140              | 00 33 S  | 095 05 W  | 6.17         |
| 04     | 09  | 860916 | 18.52          | 05             | 63    | 55           | 12    | 12            | 140              |          |           | 5.25         |
| 04     | 10  | 860916 | 18.52          | 61             | 64    | 38           | 12    | 12            | 140              |          |           | 6.17         |
| 04     | 11  | 860916 | 18.52          | 64             | 38    | 61           | 12    | 12            | 140              |          |           | 0.62         |
| 04     | 12  | 860916 | 18.52          | 64             | 38    | 61           | 12    | 12            | 140              | 00 41 S  | 094 59 W  | 1.54         |
| 04     | 13  | 860916 | 18.52          | 64             | 38    | 61           | 12    | 12            | 135              |          |           | 4.01         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 04     | 14  | 860916 | 18.52          | 38             | 61    | 64           | 12    | 12         | 6                | 135      |           | 6.17         |
| 04     | 15  | 860916 | 18.52          | 61             | 64    | 38           | 03    | 12         | 6                | 135      |           | 5.25         |
| 04     | 16  | 860916 | 18.52          | 61             | 64    | 38           | 03    | 12         | 6                | 135      | 00 47 S   | 0.31         |
| 05     | 01  | 860916 | 18.52          | 55             | 63    | 05           | 08    | 03         | 5                | 043      | 00 35 S   | 6.17         |
| 05     | 02  | 860916 | 18.52          | 63             | 05    | 55           | 08    | 03         | 5                | 043      |           | 2.47         |
| 01     | 01  | 860917 | 18.52          | 63             | 61    | 38           |       |            | 5                | 042      | 00 34 N   | 6.17         |
| 01     | 02  | 860917 | 18.52          | 61             | 38    | 63           |       |            | 5                | 042      |           | 6.17         |
| 01     | 03  | 860917 | 18.52          | 38             | 63    | 61           |       |            | 5                | 042      |           | 6.17         |
| 01     | 04  | 860917 | 18.52          | 63             | 61    | 38           |       |            | 5                | 042      |           | 6.17         |
| 01     | 05  | 860917 | 18.52          | 61             | 38    | 63           |       |            | 5                | 042      |           | 6.17         |
| 01     | 06  | 860917 | 18.52          | 38             | 63    | 61           |       |            | 5                | 042      |           | 6.17         |
| 01     | 07  | 860917 | 18.52          | 55             | 64    | 05           |       |            | 5                | 042      |           | 6.17         |
| 02     | 01  | 860917 | 18.52          | 64             | 05    | 55           |       |            | 5                | 047      | 00 56 N   | 3.40         |
| 03     | 01  | 860917 | 18.52          | 38             | 61    | 63           |       |            | 5                | 047      | 01 07 N   | 6.17         |
| 04     | 01  | 860917 | 18.52          | 38             | 61    | 63           |       |            | 5                | 047      | 01 11 N   | 4.01         |
| 04     | 02  | 860917 | 18.52          | 61             | 63    | 38           |       |            | 5                | 047      | 093 17 W  | 3.40         |
| 04     | 03  | 860917 | 18.52          | 63             | 38    | 61           |       |            | 5                | 047      |           | 6.17         |
| 04     | 04  | 860917 | 18.52          | 63             | 38    | 61           |       |            | 5                | 047      |           | 1.54         |
| 05     | 01  | 860917 | 18.52          | 55             | 64    | 05           |       |            | 5                | 047      |           | 2.47         |
| 06     | 01  | 860917 | 18.52          | 64             | 05    | 55           |       |            | 4                | 058      | 01 19 N   | 4.32         |
| 06     | 02  | 860917 | 18.52          | 64             | 05    | 55           |       |            | 4                | 058      | 01 21 N   | 6.17         |
| 06     | 02  | 860917 | 18.52          | 05             | 55    | 64           |       |            | 4                | 058      |           | 2.78         |
| 07     | 01  | 860917 | 18.52          | 61             | 38    | 63           |       |            | 4                | 040      | 01 14 N   | 7.10         |
| 07     | 02  | 860917 | 18.52          | 55             | 64    | 05           |       |            | 4                | 040      |           | 5.25         |
| 07     | 03  | 860917 | 18.52          | 38             | 63    | 61           |       |            | 4                | 040      |           | 6.17         |
| 07     | 04  | 860917 | 18.52          | 63             | 61    | 38           |       |            | 4                | 040      |           | 4.32         |
| 08     | 01  | 860917 | 18.52          | 55             | 05    | 64           |       |            | 4                | 053      |           | 0.31         |
| 01     | 01  | 860918 | 18.52          | 55             | 64    | 05           |       |            | 4                | 068      | 02 27 N   | 6.17         |
| 01     | 02  | 860918 | 18.52          | 64             | 05    | 55           |       |            | 4                | 068      |           | 5.56         |
| 02     | 01  | 860918 | 18.52          | 05             | 55    | 64           |       |            | 4                | 068      | 091 02 W  | 1.23         |
| 02     | 02  | 860918 | 22.22          | 05             | 55    | 64           |       |            | 4                | 068      | 02 28 N   | 5.93         |
| 02     | 03  | 860918 | 22.22          | 55             | 64    | 05           |       |            | 4                | 068      | 090 56 W  | 3.33         |
| 03     | 01  | 860918 | 22.22          | 55             | 64    | 05           |       |            | 4                | 068      | 02 31 N   | 2.59         |
| 03     | 02  | 860918 | 22.22          | 64             | 05    | 55           |       |            | 4                | 068      | 090 51 W  | 5.19         |
| 04     | 01  | 860918 | 22.22          | 61             | 38    | 63           |       |            | 4                | 068      |           | 7.41         |
| 04     | 02  | 860918 | 22.22          | 38             | 63    | 61           |       |            | 4                | 068      |           | 6.67         |
| 04     | 03  | 860918 | 22.22          | 38             | 63    | 61           | 01    | 01         | 4                | 068      |           | 0.74         |
| 04     | 04  | 860918 | 22.22          | 63             | 61    | 38           | 01    | 01         | 5                | 068      |           | 7.41         |





Table 2. (continued)

| Series | Leg | Date   | Speed |  | Observer Codes |       | Sun Position |    | Beauf. No. | Course (Deg.) | Position |          | KM In Leg |
|--------|-----|--------|-------|--|----------------|-------|--------------|----|------------|---------------|----------|----------|-----------|
|        |     |        | Km/Hr |  | Left           | Right | Rec.         |    |            |               | Horz.    | Vert.    |           |
| 02     | 03  | 860919 | 22.22 |  | 55             | 64    | 05           |    | 5          | 064           |          |          | 7.41      |
| 02     | 04  | 860919 | 22.22 |  | 64             | 05    | 55           |    | 5          | 064           |          |          | 7.41      |
| 02     | 05  | 860919 | 22.22 |  | 05             | 55    | 64           |    | 5          | 064           |          |          | 7.41      |
| 02     | 06  | 860919 | 22.22 |  | 55             | 64    | 05           |    | 5          | 064           |          |          | 7.41      |
| 02     | 07  | 860919 | 22.22 |  | 64             | 05    | 55           |    | 5          | 064           |          |          | 7.41      |
| 02     | 08  | 860919 | 22.22 |  | 05             | 55    | 64           |    | 5          | 064           |          |          | 7.41      |
| 02     | 09  | 860919 | 22.22 |  | 63             | 38    | 61           |    | 5          | 064           |          |          | 0.74      |
| 02     | 10  | 860919 | 22.22 |  | 63             | 38    | 61           |    | 5          | 064           | 04 13 N  | 086 41 W | 6.67      |
| 02     | 11  | 860919 | 22.22 |  | 38             | 61    | 63           |    | 5          | 064           |          |          | 2.59      |
| 02     | 12  | 860919 | 22.22 |  | 38             | 61    | 63           |    | 5          | 064           |          |          | 0.74      |
| 03     | 01  | 860919 | 22.22 |  | 38             | 61    | 63           |    | 5          | 064           | 04 17 N  | 086 30 W | 7.41      |
| 03     | 02  | 860919 | 22.22 |  | 61             | 63    | 38           |    | 5          | 064           |          |          | 8.52      |
| 03     | 03  | 860919 | 22.22 |  | 63             | 38    | 61           |    | 5          | 064           |          |          | 7.41      |
| 03     | 04  | 860919 | 22.22 |  | 38             | 61    | 63           |    | 5          | 064           |          |          | 4.07      |
| 03     | 05  | 860919 | 22.22 |  | 55             | 64    | 05           |    | 5          | 064           |          |          | 7.41      |
| 03     | 06  | 860919 | 22.22 |  | 64             | 05    | 55           |    | 5          | 064           |          |          | 7.41      |
| 03     | 07  | 860919 | 22.22 |  | 05             | 55    | 64           |    | 4          | 064           |          |          | 7.41      |
| 03     | 08  | 860919 | 22.22 |  | 55             | 64    | 05           |    | 4          | 064           |          |          | 2.96      |
| 03     | 09  | 860919 | 22.22 |  | 55             | 64    | 05           |    | 4          | 064           |          |          | 5.19      |
| 03     | 10  | 860919 | 22.22 |  | 64             | 05    | 55           |    | 4          | 064           |          |          | 7.41      |
| 03     | 11  | 860919 | 22.22 |  | 05             | 55    | 64           |    | 4          | 064           |          |          | 0.74      |
| 04     | 01  | 860919 | 22.22 |  | 63             | 61    | 38           |    | 4          | 064           | 04 45 N  | 085 34 W | 0.74      |
| 05     | 01  | 860919 | 22.22 |  | 63             | 61    | 38           |    | 4          | 063           | 04 43 N  | 085 34 W | 3.33      |
| 05     | 02  | 860919 | 22.22 |  | 61             | 38    | 63           |    | 4          | 063           |          |          | 1.48      |
| 05     | 03  | 860919 | 22.22 |  | 61             | 38    | 63           |    | 4          | 063           |          |          | 5.93      |
| 05     | 04  | 860919 | 22.22 |  | 38             | 63    | 61           |    | 3          | 063           |          |          | 7.41      |
| 05     | 05  | 860919 | 22.22 |  | 63             | 61    | 38           |    | 3          | 063           |          |          | 3.70      |
| 05     | 06  | 860919 | 22.22 |  | 63             | 61    | 38           |    | 3          | 063           | 04 49 N  | 085 22 W | 0.37      |
| 01     | 01  | 860920 | 22.22 |  | 64             | 61    | 05           |    | 3          | 066           | 05 37 N  | 083 26 W | 3.70      |
| 01     | 02  | 860920 | 22.22 |  | 64             | 55    | 38           |    | 3          | 066           |          |          | 5.93      |
| 01     | 03  | 860920 | 22.22 |  | 63             | 61    | 05           |    | 3          | 066           |          |          | 1.85      |
| 01     | 04  | 860920 | 7.41  |  | 63             | 61    | 05           |    | 3          | 360           |          |          | 0.49      |
| 01     | 05  | 860920 | 22.22 |  | 63             | 61    | 05           |    | 3          | 066           |          |          | 3.70      |
| 01     | 06  | 860920 | 22.22 |  | 61             | 05    | 63           | 01 | 3          | 066           |          |          | 5.93      |
| 01     | 07  | 860920 | 22.22 |  | 61             | 05    | 63           | 03 | 3          | 066           |          |          | 1.48      |
| 01     | 08  | 860920 | 22.22 |  | 05             | 63    | 61           |    | 3          | 066           |          |          | 1.85      |
| 01     | 09  | 860920 | 22.22 |  | 05             | 63    | 61           |    | 3          | 066           |          |          | 5.56      |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 01     | 10  | 860920 | 22.22          | 63             | 61    | 05           |       | 3             | 066              |          |           | 2.96         |
| 01     | 11  | 860920 | 22.22          | 63             | 61    | 05           | 01    | 3             | 066              |          |           | 4.44         |
| 01     | 12  | 860920 | 22.22          | 61             | 05    | 63           | 01    | 3             | 066              |          |           | 3.70         |
| 01     | 13  | 860920 | 22.22          | 61             | 05    | 63           |       | 3             | 066              |          |           | 2.22         |
| 01     | 14  | 860920 | 22.22          | 55             | 64    | 38           |       | 3             | 066              |          |           | 3.70         |
| 02     | 01  | 860920 | 22.22          | 64             | 38    | 55           |       | 3             | 066              | 05 47 N  | 083 01 W  | 7.41         |
| 02     | 02  | 860920 | 22.22          | 38             | 55    | 64           | 01    | 3             | 066              |          |           | 2.59         |
| 03     | 01  | 860920 | 22.22          | 55             | 64    | 38           |       | 3             | 066              | 05 52 N  | 082 52 W  | 2.96         |
| 04     | 01  | 860920 | 22.22          | 64             | 38    | 55           |       | 3             | 065              | 05 50 N  | 082 46 W  | 5.93         |
| 04     | 02  | 860920 | 22.22          | 61             | 63    | 05           |       | 3             | 065              |          |           | 7.41         |
| 04     | 03  | 860920 | 22.22          | 63             | 05    | 61           |       | 2             | 065              |          |           | 6.30         |
| 04     | 04  | 860920 | 22.22          | 63             | 05    | 61           |       | 3             | 065              |          |           | 1.11         |
| 01     | 01  | 860921 | 12.96          | 55             | 64    | 38           |       | 1             | 001              | 07 52 N  | 079 27 W  | 2.59         |
| 01     | 02  | 860921 | 12.96          | 63             | 61    | 05           |       | 1             | 001              |          |           | 5.83         |
| 01     | 03  | 860921 | 12.96          | 38             | 64    | 55           |       | 1             | 001              |          |           | 4.54         |
| 02     | 01  | 860921 | 12.96          | 38             | 64    | 55           |       | 1             | 001              | 08 00 N  | 079 30 W  | 0.65         |
| 02     | 02  | 860921 | 12.96          | 64             | 55    | 38           |       | 1             | 001              |          |           | 4.32         |
| 02     | 03  | 860921 | 12.96          | 55             | 38    | 64           |       | 1             | 001              | 08 03 N  | 079 30 W  | 4.32         |
| 02     | 04  | 860921 | 12.96          | 38             | 64    | 55           |       | 1             | 001              |          |           | 2.59         |
| 03     | 01  | 860921 | 22.22          | 05             | 63    | 61           |       | 1             | 004              |          |           | 2.96         |
| 03     | 02  | 860921 | 22.22          | 05             | 63    | 61           |       | 1             | 004              | 08 13 N  | 079 31 W  | 4.82         |
| 03     | 03  | 860921 | 22.22          | 63             | 61    | 05           |       | 1             | 004              |          |           | 8.52         |
| 03     | 04  | 860921 | 22.22          | 61             | 05    | 63           |       | 1             | 004              |          |           | 7.41         |
| 03     | 05  | 860921 | 22.22          | 05             | 63    | 61           |       | 1             | 004              |          |           | 7.78         |
| 03     | 06  | 860921 | 22.22          | 63             | 61    | 05           |       | 2             | 004              |          |           | 7.78         |
| 03     | 07  | 860921 | 22.22          | 61             | 05    | 63           |       | 2             | 004              |          |           | 7.41         |
| 03     | 08  | 860921 | 22.22          | 05             | 63    | 61           |       | 2             | 004              |          |           | 2.96         |
| 03     | 09  | 860921 | 22.22          | 64             | 38    | 55           |       | 2             | 004              | 08 36 N  | 079 29 W  | 7.41         |
| 01     | 01  | 860923 | 18.52          | 63             | 64    | 38           |       | 3             | 180              | 06 26 N  | 079 26 W  | 4.01         |
| 02     | 01  | 860923 | 18.52          | 63             | 64    | 38           |       | 3             | 180              | 06 18 N  | 079 25 W  | 1.23         |
| 03     | 01  | 860923 | 18.52          | 64             | 38    | 63           |       | 3             | 180              | 06 16 N  | 079 27 W  | 1.85         |
| 03     | 02  | 860923 | 18.52          | 64             | 38    | 63           | 09    | 3             | 180              |          |           | 0.93         |
| 03     | 03  | 860923 | 18.52          | 64             | 38    | 63           |       | 3             | 180              |          |           | 3.09         |
| 03     | 04  | 860923 | 18.52          | 38             | 63    | 64           |       | 3             | 180              |          |           | 6.17         |
| 03     | 05  | 860923 | 18.52          | 63             | 64    | 38           |       | 3             | 180              |          |           | 4.01         |
| 03     | 06  | 860923 | 18.52          | 55             | 61    | 05           |       | 3             | 180              |          |           | 6.17         |
| 03     | 07  | 860923 | 18.52          | 61             | 05    | 55           |       | 3             | 180              |          |           | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 03     | 08  | 860923 | 18.52          | 05             | 55    | 61           |       |            | 3                | 180      |                  | 3.40         |
| 03     | 09  | 860923 | 18.52          | 05             | 55    | 61           | 09    | 01         | 3                | 180      |                  | 0.62         |
| 03     | 10  | 860923 | 18.52          | 05             | 55    | 61           |       |            | 3                | 200      |                  | 2.16         |
| 03     | 11  | 860923 | 18.52          | 55             | 61    | 05           |       |            | 3                | 200      |                  | 6.17         |
| 04     | 01  | 860923 | 18.52          | 61             | 05    | 55           |       |            | 3                | 200      | 05 53 N 079 29 W | 6.17         |
| 04     | 02  | 860923 | 18.52          | 05             | 55    | 61           |       |            | 3                | 200      |                  | 1.54         |
| 04     | 03  | 860923 | 18.52          | 64             | 38    | 63           |       |            | 3                | 200      | 05 48 N 079 31 W | 6.17         |
| 05     | 01  | 860923 | 18.52          | 38             | 63    | 64           |       |            | 3                | 200      | 05 43 N 079 33 W | 3.09         |
| 06     | 01  | 860923 | 18.52          | 55             | 61    | 05           |       |            | 3                | 200      | 05 36 N 079 36 W | 5.56         |
| 06     | 02  | 860923 | 18.52          | 55             | 61    | 05           |       |            | 4                | 200      |                  | 1.54         |
| 06     | 03  | 860923 | 18.52          | 61             | 05    | 55           |       |            | 4                | 200      |                  | 6.17         |
| 07     | 01  | 860923 | 18.52          | 05             | 55    | 61           |       |            | 4                | 201      | 05 30 N 079 38 W | 4.63         |
| 08     | 01  | 860923 | 18.52          | 63             | 64    | 38           |       |            | 3                | 201      | 05 24 N 079 39 W | 6.17         |
| 08     | 02  | 860923 | 18.52          | 64             | 38    | 63           |       |            | 4                | 201      |                  | 6.17         |
| 08     | 03  | 860923 | 18.52          | 38             | 63    | 64           | 02    | 02         | 4                | 201      |                  | 6.17         |
| 08     | 04  | 860923 | 18.52          | 63             | 64    | 38           | 02    | 02         | 4                | 201      |                  | 6.17         |
| 08     | 05  | 860923 | 18.52          | 55             | 61    | 05           |       |            | 5                | 201      |                  | 4.63         |
| 08     | 06  | 860923 | 18.52          | 64             | 38    | 63           |       |            | 5                | 201      |                  | 6.48         |
| 08     | 07  | 860923 | 18.52          | 38             | 63    | 64           |       |            | 5                | 201      |                  | 1.23         |
| 08     | 08  | 860923 | 18.52          | 05             | 61    | 55           |       |            | 5                | 201      |                  | 5.25         |
| 09     | 01  | 860923 | 18.52          | 61             | 55    | 05           |       |            | 5                | 201      | 05 03 N 079 46 W | 6.48         |
| 01     | 01  | 860924 | 18.52          | 05             | 61    | 55           |       |            | 6                | 204      | 03 13 N 080 26 W | 6.17         |
| 01     | 02  | 860924 | 18.52          | 61             | 55    | 05           |       |            | 6                | 204      |                  | 2.16         |
| 01     | 03  | 860924 | 18.52          | 63             | 64    | 38           | 09    | 03         | 6                | 204      |                  | 6.48         |
| 01     | 04  | 860924 | 18.52          | 61             | 55    | 05           | 09    | 03         | 6                | 204      |                  | 6.17         |
| 01     | 05  | 860924 | 18.52          | 55             | 05    | 61           | 09    | 03         | 6                | 204      |                  | 1.85         |
| 01     | 06  | 860924 | 18.52          | 55             | 05    | 61           | 09    | 02         | 6                | 204      |                  | 4.32         |
| 01     | 07  | 860924 | 18.52          | 05             | 61    | 55           | 09    | 02         | 6                | 204      |                  | 6.17         |
| 01     | 08  | 860924 | 18.52          | 61             | 55    | 05           | 09    | 02         | 6                | 204      |                  | 4.32         |
| 01     | 09  | 860924 | 18.52          | 64             | 38    | 63           | 09    | 02         | 6                | 204      | 02 52 N 080 35 W | 4.63         |
| 02     | 01  | 860924 | 18.52          | 38             | 63    | 64           | 09    | 02         | 6                | 204      |                  | 6.17         |
| 02     | 02  | 860924 | 18.52          | 63             | 64    | 38           | 09    | 02         | 6                | 204      |                  | 6.17         |
| 02     | 03  | 860924 | 18.52          | 64             | 38    | 63           | 09    | 02         | 6                | 204      |                  | 6.17         |
| 02     | 04  | 860924 | 18.52          | 38             | 63    | 64           | 09    | 01         | 6                | 204      |                  | 6.17         |
| 02     | 05  | 860924 | 18.52          | 63             | 64    | 38           | 09    | 01         | 6                | 204      |                  | 3.40         |
| 02     | 06  | 860924 | 18.52          | 55             | 61    | 05           | 09    | 01         | 6                | 204      |                  | 6.79         |
| 02     | 07  | 860924 | 18.52          | 61             | 05    | 55           | 09    | 01         | 6                | 204      | 02 36 N 080 42 W | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 02     | 08  | 860924 | 18.52          | 05             | 55    | 61           | 12    | 12         | 6                | 204      |                  | 4.94         |
| 02     | 09  | 860924 | 18.52          | 05             | 55    | 61           |       |            | 6                | 204      |                  | 1.23         |
| 02     | 10  | 860924 | 18.52          | 55             | 61    | 05           | 12    | 12         | 6                | 204      |                  | 4.32         |
| 02     | 11  | 860924 | 18.52          | 38             | 64    | 63           |       |            | 6                | 204      |                  | 3.40         |
| 02     | 12  | 860924 | 18.52          | 38             | 64    | 63           | 12    | 12         | 6                | 204      |                  | 2.78         |
| 02     | 13  | 860924 | 18.52          | 55             | 61    | 05           |       |            | 6                | 204      |                  | 2.47         |
| 01     | 01  | 860925 | 18.52          | 63             | 64    | 38           |       |            | 5                | 197      | 00 03 N 081 38 W | 6.17         |
| 01     | 02  | 860925 | 18.52          | 63             | 61    | 05           |       |            | 5                | 197      |                  | 1.23         |
| 01     | 03  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 5                | 197      |                  | 5.25         |
| 01     | 04  | 860925 | 18.52          | 64             | 38    | 63           |       |            | 5                | 197      |                  | 6.17         |
| 01     | 05  | 860925 | 18.52          | 38             | 63    | 64           |       |            | 5                | 197      |                  | 6.17         |
| 01     | 06  | 860925 | 18.52          | 63             | 64    | 38           |       |            | 5                | 197      |                  | 6.17         |
| 01     | 07  | 860925 | 18.52          | 64             | 38    | 63           |       |            | 5                | 197      |                  | 6.17         |
| 02     | 01  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 5                | 197      |                  | 5.86         |
| 02     | 02  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 5                | 197      |                  | 3.70         |
| 02     | 03  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 5                | 197      |                  | 1.85         |
| 02     | 04  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 5                | 197      | 00 23 S 081 46 W | 0.93         |
| 02     | 05  | 860925 | 18.52          | 61             | 05    | 55           |       |            | 5                | 197      |                  | 6.17         |
| 02     | 06  | 860925 | 18.52          | 05             | 55    | 61           |       |            | 5                | 197      |                  | 2.16         |
| 02     | 07  | 860925 | 18.52          | 05             | 55    | 61           |       |            | 5                | 197      | 00 27 S 081 47 W | 0.31         |
| 03     | 01  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 4                | 203      | 00 30 S 081 47 W | 6.17         |
| 03     | 02  | 860925 | 18.52          | 61             | 05    | 55           |       |            | 4                | 203      |                  | 5.56         |
| 04     | 01  | 860925 | 18.52          | 63             | 64    | 38           |       |            | 4                | 207      | 00 40 S 081 50 W | 3.40         |
| 05     | 01  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 4                | 207      | 00 43 S 081 51 W | 4.94         |
| 05     | 02  | 860925 | 18.52          | 64             | 38    | 63           |       |            | 4                | 207      |                  | 6.17         |
| 05     | 03  | 860925 | 18.52          | 38             | 63    | 64           |       |            | 4                | 207      |                  | 0.62         |
| 05     | 04  | 860925 | 18.52          | 38             | 63    | 64           |       |            | 4                | 212      | 00 48 S 081 54 W | 5.56         |
| 05     | 05  | 860925 | 18.52          | 63             | 64    | 38           |       |            | 4                | 212      |                  | 2.78         |
| 06     | 01  | 860925 | 18.52          | 64             | 38    | 63           |       |            | 4                | 212      |                  | 3.09         |
| 06     | 02  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 4                | 212      |                  | 6.79         |
| 06     | 03  | 860925 | 18.52          | 61             | 05    | 55           |       |            | 4                | 212      | 00 58 S 081 59 W | 4.01         |
| 07     | 01  | 860925 | 18.52          | 61             | 05    | 55           |       |            | 4                | 269      | 01 01 S 082 01 W | 0.62         |
| 08     | 01  | 860925 | 18.52          | 61             | 05    | 55           |       |            | 4                | 269      | 01 00 S 082 02 W | 0.93         |
| 09     | 01  | 860925 | 18.52          | 61             | 05    | 55           |       |            | 4                | 269      | 01 00 S 082 04 W | 0.93         |
| 09     | 02  | 860925 | 18.52          | 05             | 55    | 61           |       |            | 4                | 269      |                  | 6.79         |
| 09     | 03  | 860925 | 18.52          | 55             | 61    | 05           |       |            | 4                | 269      |                  | 6.48         |
| 09     | 04  | 860925 | 18.52          | 38             | 64    | 63           |       |            | 4                | 269      |                  | 6.17         |
| 09     | 05  | 860925 | 18.52          | 64             | 63    | 38           |       |            | 4                | 269      |                  | 6.79         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position<br>Horz. Vert. | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|-----------------------------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right |                             |            |                  | Latitude | Longitude |              |
| 09     | 06  | 860925 | 18.52          | 63             | 38    | 64                          | 4          | 269              |          |           | 6.48         |
| 10     | 01  | 860925 | 18.52          | 38             | 64    | 63                          | 4          | 269              |          |           | 2.16         |
| 10     | 02  | 860925 | 18.52          | 55             | 61    | 05                          | 4          | 269              |          |           | 6.79         |
| 10     | 03  | 860925 | 18.52          | 61             | 05    | 55                          | 4          | 269              |          |           | 0.93         |
| 10     | 04  | 860925 | 18.52          | 64             | 63    | 38                          | 4          | 269              |          |           | 6.79         |
| 10     | 05  | 860925 | 18.52          | 05             | 61    | 55                          | 4          | 269              |          |           | 6.17         |
| 10     | 06  | 860925 | 18.52          | 61             | 55    | 05                          | 4          | 269              | 00 57 S  | 082 36 W  | 1.54         |
| 11     | 01  | 860925 | 18.52          | 61             | 55    | 05                          | 4          | 269              | 00 57 S  | 082 40 W  | 0.62         |
| 11     | 02  | 860925 | 18.52          | 55             | 05    | 61                          | 4          | 269              |          |           | 1.85         |
| 01     | 01  | 860926 | 18.52          | 05             | 61    | 64                          | 5          | 270              | 00 59 S  | 084 45 W  | 3.09         |
| 02     | 01  | 860926 | 18.52          | 05             | 61    | 64                          | 5          | 270              | 00 58 S  | 084 47 W  | 1.54         |
| 02     | 02  | 860926 | 18.52          | 38             | 55    | 63                          | 5          | 270              |          |           | 5.25         |
| 02     | 03  | 860926 | 18.52          | 61             | 64    | 05                          | 5          | 270              |          |           | 6.79         |
| 02     | 04  | 860926 | 18.52          | 64             | 05    | 61                          | 5          | 270              |          |           | 6.17         |
| 02     | 05  | 860926 | 18.52          | 05             | 61    | 64                          | 5          | 270              |          |           | 6.17         |
| 02     | 06  | 860926 | 18.52          | 61             | 64    | 05                          | 5          | 270              |          |           | 2.16         |
| 02     | 07  | 860926 | 18.52          | 61             | 64    | 05                          | 5          | 004              | 00 58 S  | 085 05 W  | 1.85         |
| 03     | 01  | 860926 | 18.52          | 61             | 64    | 05                          | 5          | 004              |          |           | 1.54         |
| 03     | 02  | 860926 | 18.52          | 64             | 05    | 61                          | 5          | 004              |          |           | 1.23         |
| 03     | 03  | 860926 | 18.52          | 63             | 38    | 55                          | 5          | 004              |          |           | 2.78         |
| 03     | 04  | 860926 | 18.52          | 63             | 38    | 55                          | 4          | 004              |          |           | 3.70         |
| 03     | 05  | 860926 | 18.52          | 38             | 38    | 55                          | 4          | 004              |          |           | 6.17         |
| 03     | 06  | 860926 | 18.52          | 55             | 63    | 38                          | 4          | 004              |          |           | 6.17         |
| 03     | 07  | 860926 | 18.52          | 63             | 38    | 55                          | 4          | 004              |          |           | 6.48         |
| 04     | 01  | 860926 | 18.52          | 63             | 38    | 55                          | 4          | 004              | 00 40 S  | 085 03 W  | 1.23         |
| 04     | 02  | 860926 | 18.52          | 38             | 55    | 63                          | 4          | 004              |          |           | 6.17         |
| 04     | 03  | 860926 | 18.52          | 64             | 61    | 05                          | 4          | 004              |          |           | 6.79         |
| 04     | 04  | 860926 | 18.52          | 61             | 05    | 64                          | 4          | 004              |          |           | 6.17         |
| 04     | 05  | 860926 | 18.52          | 05             | 64    | 61                          | 4          | 004              |          |           | 1.54         |
| 04     | 06  | 860926 | 18.52          | 63             | 38    | 55                          | 4          | 004              |          |           | 5.56         |
| 04     | 07  | 860926 | 18.52          | 05             | 64    | 61                          | 4          | 004              |          |           | 1.54         |
| 05     | 01  | 860926 | 18.52          | 64             | 61    | 05                          | 3          | 004              |          |           | 4.01         |
| 05     | 02  | 860926 | 18.52          | 38             | 55    | 63                          | 3          | 004              | 00 18 S  | 085 02 W  | 6.17         |
| 05     | 03  | 860926 | 18.52          | 55             | 63    | 38                          | 4          | 004              |          |           | 6.17         |
| 05     | 04  | 860926 | 18.52          | 63             | 38    | 55                          | 4          | 004              |          |           | 5.56         |
| 05     | 05  | 860926 | 18.52          | 63             | 38    | 55                          | 4          | 015              |          |           | 0.93         |
| 05     | 06  | 860926 | 18.52          | 38             | 55    | 63                          | 4          | 015              |          |           | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 05     | 07  | 860926 | 18.52          | 55             | 63    | 38           |       | 5             | 015              |          |           | 6.17         |
| 05     | 08  | 860926 | 18.52          | 63             | 38    | 55           |       | 5             | 015              |          |           | 3.40         |
| 05     | 09  | 860926 | 18.52          | 63             | 38    | 55           |       | 5             | 045              |          |           | 2.47         |
| 05     | 10  | 860926 | 18.52          | 61             | 64    | 05           |       | 5             | 045              |          |           | 6.17         |
| 05     | 11  | 860926 | 18.52          | 64             | 05    | 61           |       | 5             | 045              |          |           | 6.17         |
| 05     | 12  | 860926 | 18.52          | 05             | 61    | 64           |       | 5             | 045              |          |           | 6.17         |
| 05     | 13  | 860926 | 18.52          | 61             | 64    | 05           |       | 5             | 045              |          |           | 6.79         |
| 05     | 14  | 860926 | 18.52          | 64             | 05    | 61           |       | 5             | 045              |          |           | 2.78         |
| 05     | 15  | 860926 | 18.52          | 64             | 05    | 61           | 02    | 5             | 045              |          |           | 2.16         |
| 05     | 16  | 860926 | 18.52          | 64             | 05    | 61           |       | 5             | 045              |          |           | 1.23         |
| 05     | 17  | 860926 | 18.52          | 05             | 61    | 64           |       | 5             | 045              |          |           | 3.09         |
| 05     | 18  | 860926 | 18.52          | 05             | 61    | 64           | 02    | 5             | 045              | 00 14 N  | 084 45 W  | 2.47         |
| 05     | 19  | 860926 | 18.52          | 63             | 55    | 38           |       | 5             | 045              |          |           | 2.47         |
| 06     | 01  | 860926 | 18.52          | 55             | 38    | 63           |       | 5             | 045              | 00 23 N  | 084 35 W  | 6.79         |
| 06     | 02  | 860926 | 18.52          | 38             | 63    | 55           |       | 5             | 045              |          |           | 2.47         |
| 01     | 01  | 860927 | 18.52          | 38             | 63    | 55           |       | 5             | 064              |          |           | 1.54         |
| 01     | 02  | 860927 | 18.52          | 61             | 64    | 05           |       | 5             | 064              | 01 17 N  | 083 26 W  | 5.25         |
| 01     | 03  | 860927 | 18.52          | 63             | 55    | 38           | 03    | 5             | 064              |          |           | 6.17         |
| 01     | 04  | 860927 | 18.52          | 55             | 38    | 63           |       | 5             | 064              |          |           | 7.72         |
| 01     | 05  | 860927 | 18.52          | 38             | 63    | 55           |       | 5             | 064              |          |           | 6.17         |
| 01     | 06  | 860927 | 18.52          | 63             | 55    | 38           |       | 5             | 064              |          |           | 4.94         |
| 02     | 01  | 860927 | 18.52          | 55             | 38    | 63           |       | 5             | 064              | 01 23 N  | 083 11 W  | 0.93         |
| 03     | 01  | 860927 | 18.52          | 55             | 38    | 63           |       | 5             | 064              | 01 25 N  | 083 09 W  | 0.93         |
| 03     | 02  | 860927 | 18.52          | 61             | 64    | 05           |       | 5             | 064              |          |           | 6.17         |
| 03     | 03  | 860927 | 18.52          | 64             | 05    | 61           |       | 5             | 064              |          |           | 6.17         |
| 03     | 04  | 860927 | 18.52          | 05             | 61    | 64           |       | 5             | 064              |          |           | 5.86         |
| 04     | 01  | 860927 | 18.52          | 61             | 64    | 05           |       | 5             | 064              | 01 30 N  | 082 56 W  | 6.17         |
| 04     | 02  | 860927 | 18.52          | 64             | 05    | 61           |       | 5             | 064              |          |           | 3.09         |
| 04     | 03  | 860927 | 18.52          | 63             | 38    | 55           |       | 5             | 064              |          |           | 3.40         |
| 04     | 04  | 860927 | 18.52          | 63             | 38    | 55           | 12    | 5             | 064              |          |           | 3.09         |
| 04     | 05  | 860927 | 18.52          | 38             | 55    | 63           |       | 5             | 064              |          |           | 2.78         |
| 04     | 06  | 860927 | 18.52          | 38             | 55    | 63           | 12    | 5             | 064              |          |           | 2.47         |
| 04     | 07  | 860927 | 18.52          | 38             | 55    | 63           |       | 5             | 064              |          |           | 0.62         |
| 04     | 08  | 860927 | 18.52          | 55             | 63    | 38           |       | 5             | 064              |          |           | 3.09         |
| 04     | 09  | 860927 | 18.52          | 64             | 61    | 05           |       | 5             | 064              |          |           | 6.17         |
| 04     | 10  | 860927 | 18.52          | 55             | 63    | 38           |       | 5             | 064              |          |           | 6.17         |
| 04     | 11  | 860927 | 18.52          | 63             | 38    | 55           |       | 5             | 059              |          |           | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 04     | 12  | 860927 | 18.52          | 38             | 55    | 63           |       | 5          | 059              |          |           | 4.63         |
| 04     | 13  | 860927 | 18.52          | 64             | 61    | 05           |       | 5          | 059              |          |           | 6.17         |
| 04     | 14  | 860927 | 18.52          | 61             | 05    | 64           |       | 5          | 059              |          |           | 5.25         |
| 05     | 01  | 860927 | 18.52          | 05             | 64    | 61           |       | 4          | 059              | 01 44 N  | 082 27 W  | 6.17         |
| 05     | 02  | 860927 | 18.52          | 64             | 61    | 05           |       | 4          | 059              | 01 46 N  | 082 24 W  | 6.79         |
| 05     | 03  | 860927 | 18.52          | 61             | 05    | 64           |       | 4          | 059              |          |           | 8.33         |
| 05     | 04  | 860927 | 18.52          | 63             | 38    | 55           |       | 4          | 059              |          |           | 6.17         |
| 05     | 05  | 860927 | 18.52          | 38             | 55    | 63           |       | 4          | 059              |          |           | 3.09         |
| 05     | 06  | 860927 | 18.52          | 38             | 55    | 63           |       | 4          | 059              | 01 54 N  | 082 12 W  | 4.01         |
| 05     | 07  | 860927 | 18.52          | 55             | 63    | 38           |       | 4          | 059              |          |           | 6.17         |
| 05     | 08  | 860927 | 18.52          | 63             | 38    | 55           |       | 4          | 059              |          |           | 2.47         |
| 05     | 09  | 860927 | 18.52          | 63             | 38    | 55           |       | 4          | 059              | 01 59 N  | 082 06 W  | 2.78         |
| 05     | 10  | 860927 | 18.52          | 63             | 38    | 55           |       | 4          | 008              |          |           | 1.85         |
| 06     | 01  | 860927 | 18.52          | 64             | 61    | 05           |       | 4          | 008              |          |           | 2.16         |
| 06     | 02  | 860927 | 18.52          | 64             | 61    | 05           |       | 4          | 008              |          |           | 4.01         |
| 06     | 03  | 860927 | 18.52          | 61             | 05    | 64           |       | 4          | 008              |          |           | 6.79         |
| 06     | 04  | 860927 | 18.52          | 05             | 64    | 61           |       | 4          | 008              |          |           | 2.16         |
| 06     | 05  | 860927 | 18.52          | 05             | 64    | 61           |       | 4          | 008              | 02 18 N  | 082 02 W  | 2.47         |
| 01     | 01  | 860928 | 18.52          | 61             | 64    | 05           |       | 3          | 032              | 03 30 N  | 081 55 W  | 4.32         |
| 01     | 02  | 860928 | 18.52          | 63             | 38    | 55           | 02 02 | 3          | 032              |          |           | 5.56         |
| 01     | 03  | 860928 | 18.52          | 64             | 05    | 61           |       | 3          | 032              |          |           | 6.17         |
| 01     | 04  | 860928 | 18.52          | 05             | 61    | 64           |       | 3          | 032              |          |           | 6.17         |
| 01     | 05  | 860928 | 18.52          | 61             | 64    | 05           |       | 3          | 032              |          |           | 2.78         |
| 01     | 06  | 860928 | 18.52          | 05             | 64    | 20           |       | 3          | 032              |          |           | 1.54         |
| 01     | 07  | 860928 | 18.52          | 61             | 64    | 05           |       | 3          | 032              |          |           | 2.16         |
| 01     | 08  | 860928 | 18.52          | 64             | 05    | 61           | 02 02 | 3          | 032              |          |           | 5.86         |
| 02     | 01  | 860928 | 18.52          | 64             | 05    | 61           | 02 01 | 3          | 032              | 03 46 N  | 081 44 W  | 0.31         |
| 02     | 02  | 860928 | 18.52          | 05             | 61    | 64           | 02 01 | 3          | 032              |          |           | 1.23         |
| 02     | 03  | 860928 | 18.52          | 55             | 38    | 63           | 02 01 | 3          | 032              |          |           | 7.10         |
| 02     | 04  | 860928 | 18.52          | 38             | 63    | 55           | 02 01 | 3          | 032              |          |           | 1.23         |
| 03     | 01  | 860928 | 18.52          | 64             | 61    | 05           |       | 3          | 035              | 04 03 N  | 081 35 W  | 6.17         |
| 03     | 02  | 860928 | 18.52          | 61             | 05    | 64           |       | 3          | 035              |          |           | 6.17         |
| 03     | 03  | 860928 | 18.52          | 05             | 64    | 61           |       | 3          | 035              |          |           | 3.09         |
| 04     | 01  | 860928 | 18.52          | 64             | 61    | 05           | 12 12 | 3          | 032              | 04 11 N  | 081 25 W  | 1.54         |
| 05     | 01  | 860928 | 18.52          | 63             | 38    | 55           | 08 12 | 3          | 032              |          |           | 6.17         |
| 05     | 02  | 860928 | 18.52          | 38             | 55    | 63           | 08 01 | 2          | 032              |          |           | 1.85         |
| 05     | 03  | 860928 | 18.52          | 38             | 55    | 63           |       | 2          | 032              | 04 19 N  | 081 20 W  | 4.32         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 05     | 04  | 860928 | 18.52          | 55             | 63    | 38           |       | 2             | 032              |          |           | 4.32         |
| 05     | 05  | 860928 | 18.52          | 55             | 63    | 38           | 08    | 2             | 032              |          |           | 1.85         |
| 05     | 06  | 860928 | 18.52          | 63             | 38    | 55           | 08    | 2             | 032              |          |           | 6.17         |
| 05     | 07  | 860928 | 18.52          | 38             | 55    | 63           | 08    | 2             | 032              |          |           | 4.94         |
| 05     | 08  | 860928 | 18.52          | 38             | 55    | 63           |       | 2             | 032              |          |           | 1.23         |
| 05     | 09  | 860928 | 18.52          | 55             | 63    | 38           | 08    | 2             | 032              |          |           | 8.03         |
| 05     | 10  | 860928 | 18.52          | 64             | 61    | 05           |       | 2             | 032              |          |           | 6.17         |
| 05     | 11  | 860928 | 18.52          | 61             | 05    | 64           | 08    | 3             | 032              |          |           | 3.09         |
| 05     | 12  | 860928 | 18.52          | 61             | 05    | 64           |       | 3             | 032              |          |           | 1.54         |
| 06     | 01  | 860928 | 18.52          | 61             | 64    | 38           | 08    | 3             | 032              | 04 38 N  | 081 06 W  | 5.25         |
| 01     | 01  | 860929 | 18.52          | 38             | 61    | 55           |       | 3             | 031              | 06 05 N  | 080 08 W  | 4.63         |
| 01     | 02  | 860929 | 18.52          | 38             | 61    | 55           |       | 3             | 027              |          |           | 1.54         |
| 01     | 03  | 860929 | 18.52          | 61             | 55    | 38           |       | 3             | 027              |          |           | 3.09         |
| 01     | 04  | 860929 | 18.52          | 63             | 64    | 05           |       | 3             | 027              |          |           | 4.32         |
| 01     | 05  | 860929 | 18.52          | 63             | 64    | 05           | 02    | 3             | 027              | 06 12 N  | 080 06 W  | 2.47         |
| 01     | 06  | 860929 | 18.52          | 61             | 55    | 38           | 02    | 3             | 027              |          |           | 3.40         |
| 01     | 07  | 860929 | 18.52          | 61             | 55    | 38           |       | 3             | 027              |          |           | 2.78         |
| 01     | 08  | 860929 | 18.52          | 55             | 38    | 20           |       | 3             | 000              |          |           | 1.85         |
| 01     | 09  | 860929 | 18.52          | 55             | 38    | 61           |       | 3             | 000              |          |           | 1.85         |
| 02     | 01  | 860929 | 18.52          | 55             | 38    | 61           |       | 3             | 032              | 06 20 N  | 080 05 W  | 1.85         |
| 02     | 02  | 860929 | 18.52          | 38             | 61    | 55           |       | 3             | 032              |          |           | 7.72         |
| 02     | 03  | 860929 | 18.52          | 63             | 64    | 05           |       | 3             | 032              |          |           | 6.17         |
| 02     | 04  | 860929 | 18.52          | 64             | 20    | 63           |       | 2             | 032              |          |           | 2.78         |
| 03     | 01  | 860929 | 18.52          | 64             | 20    | 63           |       | 2             | 032              | 06 29 N  | 080 00 W  | 1.23         |
| 03     | 02  | 860929 | 18.52          | 64             | 20    | 63           | 02    | 1             | 032              |          |           | 1.23         |
| 03     | 03  | 860929 | 18.52          | 05             | 63    | 64           | 02    | 1             | 032              |          |           | 6.48         |
| 03     | 04  | 860929 | 18.52          | 63             | 64    | 05           | 02    | 1             | 032              | 06 30 N  | 079 59 W  | 3.09         |
| 03     | 05  | 860929 | 18.52          | 63             | 64    | 05           |       | 1             | 032              |          |           | 2.47         |
| 04     | 01  | 860929 | 18.52          | 64             | 05    | 63           |       | 1             | 032              | 06 37 N  | 079 55 W  | 1.54         |
| 04     | 02  | 860929 | 18.52          | 64             | 05    | 63           | 02    | 1             | 032              | 06 38 N  | 079 54 W  | 4.63         |
| 04     | 03  | 860929 | 18.52          | 05             | 63    | 64           | 02    | 1             | 032              | 06 40 N  | 079 53 W  | 1.54         |
| 05     | 01  | 860929 | 18.52          | 38             | 61    | 55           | 03    | 1             | 042              | 06 44 N  | 079 55 W  | 6.17         |
| 05     | 02  | 860929 | 18.52          | 61             | 55    | 38           | 12    | 1             | 042              | 06 46 N  | 079 53 W  | 1.54         |
| 05     | 03  | 860929 | 18.52          | 61             | 55    | 38           |       | 1             | 042              |          |           | 0.62         |
| 05     | 04  | 860929 | 18.52          | 63             | 05    | 64           | 12    | 1             | 042              |          |           | 1.54         |
| 05     | 05  | 860929 | 18.52          | 63             | 05    | 64           |       | 1             | 085              |          |           | 1.54         |
| 05     | 06  | 860929 | 18.52          | 63             | 05    | 64           |       | 1             | 042              |          |           | 3.09         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 01     | 01  | 860930 | 18.52          | 63             | 64    | 05           |       |               | 000              | 08 17 N  | 079 29 W  | 3.70         |
| 01     | 02  | 860930 | 18.52          | 63             | 64    | 05           | 03    | 03            | 000              |          |           | 3.09         |
| 01     | 03  | 860930 | 18.52          | 64             | 05    | 63           | 03    | 03            | 000              |          |           | 7.72         |
| 01     | 04  | 860930 | 18.52          | 38             | 61    | 55           | 03    | 02            | 000              | 08 25 N  | 079 29 W  | 3.09         |
| 01     | 01  | 861004 | 21.67          | 55             | 38    | 61           |       |               | 180              | 08 45 N  | 079 29 W  | 7.22         |
| 01     | 02  | 861004 | 21.67          | 38             | 61    | 55           |       |               | 180              |          |           | 9.03         |
| 01     | 03  | 861004 | 21.67          | 61             | 55    | 38           |       |               | 180              | 08 35 N  | 079 29 W  | 3.97         |
| 01     | 04  | 861004 | 20.00          | 61             | 55    | 38           |       |               | 180              |          |           | 2.33         |
| 02     | 01  | 861004 | 20.00          | 55             | 38    | 61           |       |               | 180              | 08 26 N  | 079 28 W  | 1.00         |
| 03     | 01  | 861004 | 20.00          | 64             | 05    | 63           |       |               | 165              | 08 20 N  | 079 27 W  | 2.67         |
| 03     | 02  | 861004 | 20.00          | 64             | 05    | 63           |       |               | 180              |          |           | 4.33         |
| 03     | 03  | 861004 | 20.00          | 05             | 63    | 64           |       |               | 180              |          |           | 7.33         |
| 03     | 04  | 861004 | 19.45          | 63             | 64    | 05           |       |               | 180              | 08 12 N  | 079 27 W  | 2.59         |
| 01     | 01  | 861005 | 18.52          | 63             | 55    | 05           |       |               | 258              | 06 51 N  | 080 37 W  | 2.16         |
| 02     | 01  | 861005 | 18.52          | 55             | 05    | 63           |       |               | 258              | 06 50 N  | 080 39 W  | 4.94         |
| 02     | 02  | 861005 | 18.52          | 61             | 64    | 38           |       |               | 258              |          |           | 6.48         |
| 02     | 03  | 861005 | 18.52          | 05             | 63    | 55           | 07    | 02            | 258              |          |           | 6.17         |
| 02     | 04  | 861005 | 18.52          | 63             | 55    | 05           | 07    | 02            | 258              |          |           | 6.17         |
| 02     | 05  | 861005 | 18.52          | 55             | 05    | 63           | 07    | 02            | 258              |          |           | 7.10         |
| 02     | 06  | 861005 | 18.52          | 64             | 38    | 61           |       |               | 258              |          |           | 6.17         |
| 03     | 01  | 861005 | 18.52          | 38             | 61    | 64           | 07    | 02            | 258              | 06 44 N  | 081 02 W  | 6.17         |
| 03     | 02  | 861005 | 18.52          | 61             | 64    | 38           | 07    | 01            | 258              |          |           | 6.79         |
| 03     | 03  | 861005 | 18.52          | 55             | 63    | 05           | 07    | 01            | 258              |          |           | 7.41         |
| 03     | 04  | 861005 | 18.52          | 63             | 05    | 55           | 07    | 01            | 258              |          |           | 1.23         |
| 04     | 01  | 861005 | 18.52          | 63             | 05    | 55           | 07    | 01            | 258              |          |           | 3.09         |
| 04     | 02  | 861005 | 18.52          | 05             | 55    | 63           | 07    | 01            | 258              | 06 44 N  | 081 15 W  | 1.85         |
| 04     | 03  | 861005 | 18.52          | 05             | 55    | 63           | 07    | 01            | 258              |          |           | 4.94         |
| 04     | 04  | 861005 | 18.52          | 61             | 64    | 38           | 08    | 12            | 258              |          |           | 6.17         |
| 04     | 05  | 861005 | 18.52          | 55             | 63    | 05           | 08    | 12            | 258              |          |           | 6.17         |
| 04     | 06  | 861005 | 18.52          | 63             | 05    | 55           | 08    | 12            | 258              |          |           | 4.63         |
| 04     | 07  | 861005 | 18.52          | 64             | 38    | 61           | 12    | 12            | 258              |          |           | 1.54         |
| 05     | 01  | 861005 | 18.52          | 64             | 38    | 61           | 12    | 12            | 259              | 06 41 N  | 081 28 W  | 4.32         |
| 05     | 02  | 861005 | 18.52          | 38             | 61    | 64           | 12    | 12            | 259              |          |           | 5.56         |
| 05     | 03  | 861005 | 18.52          | 61             | 64    | 38           | 12    | 12            | 259              |          |           | 6.17         |
| 05     | 04  | 861005 | 18.52          | 64             | 38    | 61           | 12    | 12            | 259              |          |           | 5.25         |
| 06     | 01  | 861005 | 18.52          | 55             | 63    | 05           | 12    | 12            | 259              | 06 40 N  | 081 41 W  | 0.93         |
| 07     | 01  | 861005 | 18.52          | 55             | 63    | 05           | 12    | 12            | 259              | 06 41 N  | 081 42 W  | 3.09         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 08     | 01  | 861005 | 18.52          | 63             | 05    | 55           | 12    | 12         | 259              | 06 40 N  | 081 45 W  | 6.17         |
| 08     | 02  | 861005 | 18.52          | 05             | 55    | 63           | 12    | 01         | 259              |          |           | 6.17         |
| 08     | 03  | 861005 | 18.52          | 55             | 63    | 05           | 12    | 01         | 259              |          |           | 6.17         |
| 08     | 04  | 861005 | 18.52          | 63             | 05    | 55           | 12    | 01         | 259              |          |           | 4.94         |
| 09     | 01  | 861005 | 18.52          | 61             | 38    | 64           | 12    | 02         | 259              | 06 37 N  | 082 01 W  | 6.17         |
| 09     | 02  | 861005 | 18.52          | 38             | 64    | 61           | 12    | 02         | 259              |          |           | 6.17         |
| 09     | 03  | 861005 | 18.52          | 64             | 61    | 38           | 12    | 02         | 259              |          |           | 2.16         |
| 10     | 01  | 861005 | 18.52          | 64             | 61    | 38           | 12    | 03         | 259              | 06 36 N  | 082 10 W  | 0.93         |
| 10     | 02  | 861005 | 18.52          | 61             | 38    | 64           | 12    | 03         | 259              |          |           | 5.86         |
| 10     | 03  | 861005 | 18.52          | 61             | 38    | 64           | 12    | 03         | 259              | 06 36 N  | 082 13 W  | 0.31         |
| 01     | 01  | 861006 | 18.52          | 64             | 61    | 38           |       |            | 257              | 06 17 N  | 083 34 W  | 1.54         |
| 01     | 02  | 861006 | 18.52          | 55             | 63    | 05           |       |            | 257              |          |           | 7.10         |
| 01     | 03  | 861006 | 18.52          | 61             | 64    | 38           |       |            | 257              |          |           | 6.17         |
| 01     | 04  | 861006 | 18.52          | 64             | 38    | 61           |       |            | 257              |          |           | 6.79         |
| 01     | 05  | 861006 | 18.52          | 38             | 61    | 64           | 07    | 02         | 257              | 06 14 N  | 083 43 W  | 2.16         |
| 01     | 06  | 861006 | 18.52          | 38             | 61    | 64           |       |            | 257              |          |           | 2.78         |
| 01     | 07  | 861006 | 18.52          | 38             | 61    | 64           |       |            | 257              |          |           | 1.23         |
| 01     | 08  | 861006 | 18.52          | 61             | 64    | 38           |       |            | 257              |          |           | 4.63         |
| 01     | 09  | 861006 | 18.52          | 61             | 64    | 38           |       |            | 257              |          |           | 1.54         |
| 01     | 10  | 861006 | 18.52          | 64             | 38    | 61           |       |            | 257              |          |           | 3.09         |
| 01     | 01  | 861007 | 16.11          | 38             | 64    | 61           | 03    | 02         | 180              | 05 30 N  | 087 07 W  | 5.37         |
| 01     | 02  | 861007 | 16.11          | 64             | 61    | 38           | 03    | 02         | 180              |          |           | 5.37         |
| 01     | 03  | 861007 | 16.11          | 61             | 38    | 64           | 03    | 02         | 180              |          |           | 5.37         |
| 01     | 04  | 861007 | 16.11          | 38             | 64    | 61           | 03    | 03         | 180              |          |           | 5.37         |
| 01     | 05  | 861007 | 16.11          | 64             | 61    | 38           | 03    | 03         | 180              |          |           | 5.37         |
| 01     | 06  | 861007 | 16.11          | 61             | 38    | 64           | 03    | 03         | 180              |          |           | 2.42         |
| 01     | 07  | 861007 | 16.11          | 61             | 38    | 64           | 03    | 03         | 180              | 05 13 N  | 087 06 W  | 0.27         |
| 01     | 01  | 861008 | 16.48          | 38             | 61    | 63           |       |            | 180              | 03 38 N  | 087 09 W  | 2.75         |
| 01     | 02  | 861008 | 16.48          | 64             | 55    | 05           |       |            | 180              |          |           | 6.04         |
| 01     | 03  | 861008 | 16.48          | 38             | 61    | 63           |       |            | 180              |          |           | 1.37         |
| 01     | 04  | 861008 | 16.48          | 38             | 61    | 63           | 09    | 03         | 180              |          |           | 1.37         |
| 01     | 05  | 861008 | 16.48          | 61             | 63    | 38           |       |            | 180              |          |           | 5.49         |
| 01     | 06  | 861008 | 16.48          | 63             | 38    | 61           |       |            | 180              |          |           | 5.49         |
| 01     | 07  | 861008 | 16.48          | 38             | 61    | 63           |       |            | 180              |          |           | 2.20         |
| 01     | 08  | 861008 | 16.48          | 38             | 61    | 63           |       |            | 180              |          |           | 3.30         |
| 01     | 09  | 861008 | 16.48          | 61             | 63    | 38           |       |            | 180              |          |           | 4.94         |
| 01     | 10  | 861008 | 16.48          | 64             | 55    | 05           |       |            | 180              |          |           | 5.49         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude        |              |
| 01     | 11  | 861008 | 16.48          | 64             | 55    | 05           | 09    | 02            | 5                | 180      | 03 16 N 087 10 W | 0.27         |
| 01     | 01  | 861009 | 16.67          | 55             | 64    | 05           |       |               | 6                | 188      | 00 09 N 087 29 W | 1.94         |
| 01     | 02  | 861009 | 16.67          | 63             | 61    | 38           |       |               | 6                | 188      |                  | 5.00         |
| 01     | 03  | 861009 | 16.67          | 55             | 64    | 05           |       |               | 6                | 188      |                  | 5.56         |
| 01     | 04  | 861009 | 16.67          | 64             | 05    | 55           |       |               | 6                | 188      |                  | 5.56         |
| 01     | 05  | 861009 | 16.67          | 05             | 55    | 64           |       |               | 6                | 188      |                  | 4.44         |
| 01     | 06  | 861009 | 16.67          | 05             | 55    | 64           | 09    | 02            | 6                | 188      |                  | 1.11         |
| 01     | 07  | 861009 | 16.67          | 55             | 64    | 05           | 09    | 02            | 6                | 188      |                  | 2.22         |
| 01     | 08  | 861009 | 16.67          | 55             | 64    | 05           |       |               | 6                | 188      |                  | 1.94         |
| 02     | 01  | 861009 | 16.67          | 61             | 38    | 63           |       |               | 5                | 188      | 00 12 S 087 31 W | 5.56         |
| 02     | 02  | 861009 | 16.67          | 38             | 63    | 61           |       |               | 5                | 188      |                  | 5.56         |
| 02     | 03  | 861009 | 16.67          | 63             | 61    | 38           |       |               | 5                | 188      |                  | 5.56         |
| 02     | 04  | 861009 | 16.67          | 61             | 38    | 63           |       |               | 5                | 188      |                  | 5.56         |
| 02     | 05  | 861009 | 16.67          | 38             | 63    | 61           |       |               | 5                | 188      |                  | 5.56         |
| 02     | 06  | 861009 | 16.67          | 63             | 61    | 38           | 09    | 12            | 5                | 188      |                  | 3.33         |
| 02     | 07  | 861009 | 16.67          | 05             | 64    | 55           | 09    | 12            | 5                | 188      |                  | 3.89         |
| 02     | 08  | 861009 | 16.67          | 05             | 64    | 55           |       |               | 5                | 188      |                  | 0.56         |
| 03     | 01  | 861009 | 16.67          | 64             | 55    | 05           |       |               | 5                | 191      | 00 36 S 087 30 W | 2.22         |
| 03     | 02  | 861009 | 16.67          | 63             | 61    | 38           |       |               | 5                | 191      |                  | 3.06         |
| 03     | 03  | 861009 | 16.67          | 63             | 61    | 38           |       |               | 5                | 191      |                  | 2.22         |
| 03     | 04  | 861009 | 16.67          | 64             | 55    | 05           |       |               | 5                | 191      |                  | 3.33         |
| 03     | 05  | 861009 | 16.67          | 55             | 05    | 64           | 12    | 12            | 5                | 191      |                  | 5.56         |
| 03     | 06  | 861009 | 16.67          | 05             | 64    | 55           | 12    | 12            | 5                | 191      |                  | 4.44         |
| 03     | 07  | 861009 | 16.67          | 05             | 64    | 55           |       |               | 5                | 191      |                  | 0.56         |
| 03     | 08  | 861009 | 16.67          | 38             | 63    | 61           |       |               | 5                | 191      |                  | 5.56         |
| 03     | 09  | 861009 | 16.67          | 63             | 61    | 38           |       |               | 5                | 191      | 00 53 S 087 34 W | 5.56         |
| 03     | 10  | 861009 | 16.67          | 61             | 38    | 63           |       |               | 5                | 191      | 01 00 S 087 35 W | 5.56         |
| 03     | 11  | 861009 | 16.67          | 38             | 63    | 61           |       |               | 5                | 191      |                  | 1.67         |
| 03     | 12  | 861009 | 16.67          | 63             | 61    | 38           | 03    | 12            | 5                | 191      |                  | 5.86         |
| 04     | 01  | 861009 | 17.59          | 64             | 55    | 05           | 02    | 12            | 5                | 189      | 01 02 S 087 38 W | 3.52         |
| 04     | 02  | 861009 | 17.59          | 55             | 05    | 64           | 02    | 01            | 4                | 189      |                  | 2.35         |
| 04     | 03  | 861009 | 17.59          | 55             | 05    | 64           |       |               | 4                | 189      |                  | 5.86         |
| 04     | 04  | 861009 | 17.59          | 05             | 64    | 55           |       |               | 4                | 189      |                  | 6.16         |
| 04     | 05  | 861009 | 17.59          | 64             | 55    | 05           | 03    | 01            | 4                | 189      |                  | 2.35         |
| 04     | 06  | 861009 | 17.59          | 63             | 61    | 38           |       |               | 4                | 189      |                  | 2.64         |
| 04     | 07  | 861009 | 17.59          | 63             | 61    | 38           | 03    | 02            | 4                | 189      |                  | 1.17         |
| 04     | 08  | 861009 | 17.59          | 05             | 55    | 64           | 03    | 02            | 4                | 189      |                  |              |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 05     | 01  | 861009 | 18.52          | 63             | 61    | 38           | 03    | 02            | 186              | 01 23 S  | 087 43 W  | 6.17         |
| 05     | 02  | 861009 | 18.52          | 61             | 38    | 63           |       |               | 186              |          |           | 6.17         |
| 05     | 03  | 861009 | 18.52          | 61             | 38    | 63           |       |               | 186              | 01 30 S  | 087 44 W  | 0.31         |
| 01     | 01  | 861010 | 17.59          | 63             | 61    | 38           |       |               | 274              | 01 54 S  | 089 05 W  | 2.35         |
| 02     | 01  | 861010 | 18.52          | 61             | 38    | 63           |       |               | 274              | 01 48 S  | 089 07 W  | 6.17         |
| 02     | 02  | 861010 | 18.52          | 38             | 63    | 61           |       |               | 274              |          |           | 2.47         |
| 02     | 03  | 861010 | 18.52          | 64             | 55    | 05           |       |               | 274              |          |           | 5.56         |
| 03     | 01  | 861010 | 18.52          | 38             | 63    | 61           |       |               | 274              | 01 47 S  | 089 18 W  | 4.32         |
| 03     | 02  | 861010 | 18.52          | 05             | 64    | 55           |       |               | 274              |          |           | 6.17         |
| 03     | 03  | 861010 | 18.52          | 64             | 55    | 05           | 06    | 02            | 274              |          |           | 1.54         |
| 03     | 04  | 861010 | 18.52          | 64             | 55    | 05           | 06    | 02            | 280              |          |           | 4.63         |
| 03     | 05  | 861010 | 18.52          | 55             | 05    | 64           | 06    | 02            | 280              |          |           | 6.17         |
| 03     | 06  | 861010 | 18.52          | 05             | 64    | 55           | 06    | 01            | 280              |          |           | 6.17         |
| 03     | 07  | 861010 | 18.52          | 64             | 55    | 05           | 06    | 01            | 280              |          |           | 6.17         |
| 03     | 08  | 861010 | 18.52          | 55             | 05    | 64           | 06    | 01            | 280              |          |           | 6.17         |
| 03     | 09  | 861010 | 18.52          | 63             | 61    | 38           |       |               | 280              |          |           | 4.63         |
| 04     | 01  | 861010 | 18.52          | 61             | 38    | 63           | 12    | 12            | 280              | 01 42 S  | 089 51 W  | 6.17         |
| 04     | 02  | 861010 | 18.52          | 38             | 63    | 61           |       |               | 280              |          |           | 1.23         |
| 04     | 03  | 861010 | 9.26           | 38             | 63    | 61           |       |               | 280              |          |           | 0.62         |
| 04     | 04  | 861010 | 18.52          | 38             | 63    | 61           |       |               | 280              |          |           | 0.93         |
| 04     | 05  | 861010 | 18.52          | 64             | 55    | 05           | 12    | 12            | 280              |          |           | 3.40         |
| 05     | 01  | 861010 | 18.52          | 55             | 05    | 64           |       |               | 285              | 01 41 S  | 090 01 W  | 2.78         |
| 06     | 01  | 861010 | 18.52          | 05             | 64    | 55           |       |               | 285              | 01 38 S  | 090 09 W  | 6.17         |
| 06     | 02  | 861010 | 18.52          | 64             | 55    | 05           |       |               | 285              |          |           | 2.16         |
| 06     | 03  | 861010 | 18.52          | 38             | 63    | 61           |       |               | 285              |          |           | 2.78         |
| 07     | 01  | 861010 | 18.52          | 38             | 63    | 61           |       |               | 275              | 01 38 S  | 090 16 W  | 4.63         |
| 07     | 02  | 861010 | 18.52          | 63             | 61    | 38           |       |               | 275              |          |           | 6.17         |
| 07     | 03  | 861010 | 18.52          | 61             | 38    | 63           |       |               | 275              |          |           | 5.86         |
| 08     | 01  | 861010 | 18.52          | 55             | 64    | 05           |       |               | 275              | 01 35 S  | 090 37 W  | 6.17         |
| 08     | 02  | 861010 | 18.52          | 61             | 63    | 38           |       |               | 275              |          |           | 5.56         |
| 08     | 03  | 861010 | 18.52          | 64             | 05    | 55           |       |               | 275              | 01 34 S  | 090 44 W  | 1.54         |
| 01     | 01  | 861011 | 18.52          | 63             | 61    | 05           |       |               | 270              | 01 27 S  | 092 35 W  | 6.17         |
| 01     | 02  | 861011 | 18.52          | 61             | 05    | 63           |       |               | 270              |          |           | 6.17         |
| 01     | 03  | 861011 | 18.52          | 05             | 63    | 61           |       |               | 270              |          |           | 3.40         |
| 01     | 04  | 861011 | 18.52          | 55             | 64    | 38           |       |               | 270              |          |           | 1.23         |
| 02     | 01  | 861011 | 18.52          | 05             | 63    | 61           |       |               | 270              | 01 26 S  | 092 49 W  | 5.56         |
| 02     | 02  | 861011 | 18.52          | 63             | 61    | 05           |       |               | 270              |          |           | 1.85         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 03     | 01  | 861011 | 18.52          | 63             | 61    | 05           |       | 3          | 270              | 01 26 S  | 092 53 W  | 4.63         |
| 03     | 02  | 861011 | 18.52          | 64             | 38    | 55           |       | 3          | 270              |          |           | 6.17         |
| 03     | 03  | 861011 | 18.52          | 38             | 55    | 64           |       | 3          | 270              |          |           | 1.54         |
| 04     | 01  | 861011 | 18.52          | 38             | 55    | 64           |       | 3          | 270              | 01 26 S  | 093 00 W  | 3.09         |
| 04     | 02  | 861011 | 18.52          | 55             | 64    | 38           |       | 3          | 270              |          |           | 6.17         |
| 04     | 03  | 861011 | 18.52          | 64             | 38    | 55           |       | 3          | 270              |          |           | 5.56         |
| 05     | 01  | 861011 | 18.52          | 38             | 55    | 64           |       | 3          | 270              | 01 22 S  | 093 13 W  | 5.56         |
| 05     | 02  | 861011 | 18.52          | 61             | 63    | 05           |       | 3          | 270              |          |           | 6.17         |
| 05     | 03  | 861011 | 18.52          | 63             | 05    | 61           |       | 4          | 270              |          |           | 6.17         |
| 05     | 04  | 861011 | 18.52          | 05             | 61    | 63           |       | 4          | 270              |          |           | 3.09         |
| 05     | 05  | 861011 | 18.52          | 05             | 61    | 63           | 03    | 4          | 336              |          |           | 4.32         |
| 05     | 06  | 861011 | 18.52          | 61             | 63    | 05           | 12    | 4          | 336              |          |           | 6.79         |
| 05     | 07  | 861011 | 18.52          | 63             | 05    | 61           | 12    | 4          | 336              |          |           | 6.48         |
| 05     | 08  | 861011 | 18.52          | 64             | 55    | 38           | 12    | 4          | 336              |          |           | 6.17         |
| 05     | 09  | 861011 | 18.52          | 55             | 38    | 64           | 12    | 5          | 336              |          |           | 6.17         |
| 05     | 10  | 861011 | 18.52          | 38             | 64    | 55           | 12    | 5          | 336              |          |           | 6.17         |
| 05     | 11  | 861011 | 18.52          | 64             | 55    | 38           | 12    | 4          | 336              |          |           | 6.17         |
| 05     | 12  | 861011 | 18.52          | 55             | 38    | 64           | 09    | 4          | 336              |          |           | 6.17         |
| 05     | 13  | 861011 | 18.52          | 38             | 64    | 55           | 09    | 4          | 336              |          |           | 7.72         |
| 05     | 14  | 861011 | 18.52          | 63             | 61    | 05           | 09    | 4          | 336              |          |           | 6.17         |
| 05     | 15  | 861011 | 18.52          | 61             | 05    | 63           | 09    | 4          | 336              |          |           | 6.17         |
| 05     | 16  | 861011 | 18.52          | 05             | 63    | 61           | 09    | 4          | 336              | 00 48 S  | 093 42 W  | 3.70         |
| 05     | 17  | 861011 | 18.52          | 05             | 63    | 61           | 09    | 4          | 336              |          |           | 2.47         |
| 05     | 18  | 861011 | 18.52          | 63             | 61    | 05           | 09    | 4          | 336              |          |           | 6.17         |
| 05     | 19  | 861011 | 18.52          | 61             | 05    | 63           | 09    | 4          | 336              |          |           | 6.17         |
| 05     | 20  | 861011 | 18.52          | 05             | 63    | 61           | 10    | 4          | 336              |          |           | 7.72         |
| 05     | 21  | 861011 | 18.52          | 64             | 38    | 55           | 10    | 4          | 336              | 00 25 S  | 093 53 W  | 12.35        |
| 06     | 01  | 861011 | 18.52          | 38             | 55    | 64           | 10    | 4          | 336              |          |           | 1.85         |
| 06     | 02  | 861011 | 18.52          | 55             | 64    | 38           | 03    | 3          | 336              |          |           | 6.17         |
| 01     | 01  | 861012 | 18.52          | 64             | 38    | 55           |       | 5          | 339              | 01 16 N  | 094 40 W  | 6.17         |
| 01     | 02  | 861012 | 18.52          | 38             | 55    | 64           |       | 5          | 339              |          |           | 6.17         |
| 02     | 01  | 861012 | 18.52          | 55             | 64    | 38           | 04    | 5          | 338              | 01 24 N  | 094 42 W  | 4.32         |
| 02     | 02  | 861012 | 18.52          | 55             | 64    | 38           | 04    | 5          | 338              |          |           | 2.16         |
| 02     | 03  | 861012 | 18.52          | 64             | 38    | 55           | 04    | 5          | 338              |          |           | 2.47         |
| 02     | 04  | 861012 | 18.52          | 63             | 61    | 05           | 04    | 5          | 338              |          |           | 6.17         |
| 02     | 05  | 861012 | 18.52          | 61             | 05    | 63           | 04    | 5          | 338              |          |           | 4.63         |
| 02     | 06  | 861012 | 18.52          | 61             | 05    | 63           | 04    | 5          | 338              |          |           | 1.54         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 02     | 07  | 861012 | 18.52          | 05             | 63    | 61           |       | 5          | 338              |          |           | 6.17         |
| 02     | 08  | 861012 | 18.52          | 63             | 61    | 05           |       | 5          | 338              |          |           | 6.17         |
| 02     | 09  | 861012 | 18.52          | 61             | 05    | 63           |       | 5          | 338              |          |           | 2.78         |
| 02     | 10  | 861012 | 18.52          | 61             | 05    | 63           | 04    | 5          | 338              |          |           | 3.40         |
| 02     | 11  | 861012 | 18.52          | 05             | 63    | 61           | 04    | 5          | 338              | 01 45 N  | 094 49 W  | 6.79         |
| 02     | 12  | 861012 | 18.52          | 55             | 64    | 38           | 04    | 5          | 338              | 01 49 N  | 094 51 W  | 6.17         |
| 02     | 13  | 861012 | 18.52          | 64             | 38    | 55           | 04    | 5          | 338              |          |           | 6.48         |
| 03     | 01  | 861012 | 18.52          | 63             | 61    | 05           | 12    | 5          | 338              |          |           | 6.79         |
| 03     | 02  | 861012 | 18.52          | 55             | 64    | 38           |       | 5          | 338              |          |           | 6.17         |
| 03     | 03  | 861012 | 18.52          | 64             | 38    | 55           |       | 5          | 338              | 02 07 N  | 094 58 W  | 1.54         |
| 03     | 04  | 861012 | 18.52          | 61             | 63    | 05           | 12    | 5          | 338              |          |           | 6.17         |
| 03     | 05  | 861012 | 18.52          | 63             | 05    | 61           |       | 5          | 338              |          |           | 6.17         |
| 03     | 06  | 861012 | 18.52          | 05             | 61    | 63           | 12    | 5          | 338              |          |           | 3.70         |
| 03     | 07  | 861012 | 18.52          | 05             | 61    | 63           | 12    | 6          | 338              | 02 15 N  | 095 02 W  | 3.09         |
| 03     | 08  | 861012 | 18.52          | 61             | 63    | 05           | 12    | 6          | 338              |          |           | 6.17         |
| 03     | 09  | 861012 | 18.52          | 63             | 05    | 61           | 12    | 6          | 338              |          |           | 2.78         |
| 03     | 10  | 861012 | 18.52          | 63             | 05    | 61           |       | 6          | 338              |          |           | 2.78         |
| 03     | 11  | 861012 | 18.52          | 05             | 61    | 63           |       | 6          | 338              |          |           | 6.17         |
| 03     | 12  | 861012 | 18.52          | 55             | 38    | 64           |       | 6          | 338              |          |           | 6.17         |
| 03     | 13  | 861012 | 18.52          | 55             | 64    | 55           | 09    | 6          | 338              |          |           | 6.17         |
| 03     | 14  | 861012 | 18.52          | 64             | 55    | 38           |       | 6          | 338              |          |           | 6.17         |
| 03     | 15  | 861012 | 18.52          | 55             | 38    | 64           |       | 6          | 338              |          |           | 7.10         |
| 03     | 16  | 861012 | 18.52          | 38             | 64    | 55           |       | 6          | 338              |          |           | 6.17         |
| 03     | 17  | 861012 | 18.52          | 64             | 55    | 38           |       | 6          | 338              |          |           | 5.25         |
| 03     | 18  | 861012 | 18.52          | 61             | 63    | 05           |       | 6          | 338              |          |           | 6.17         |
| 03     | 19  | 861012 | 18.52          | 63             | 05    | 61           |       | 5          | 338              |          |           | 2.16         |
| 03     | 20  | 861012 | 18.52          | 55             | 38    | 64           |       | 5          | 338              |          |           | 6.79         |
| 03     | 21  | 861012 | 18.52          | 63             | 05    | 61           |       | 5          | 338              |          |           | 4.01         |
| 03     | 22  | 861012 | 18.52          | 05             | 61    | 63           |       | 5          | 338              |          |           | 3.40         |
| 03     | 23  | 861012 | 18.52          | 05             | 61    | 63           |       | 5          | 269              | 02 54 N  | 095 15 W  | 0.31         |
| 01     | 01  | 861014 | 16.67          | 55             | 61    | 05           |       | 5          | 269              | 02 40 N  | 100 42 W  | 3.89         |
| 01     | 02  | 861014 | 16.67          | 55             | 61    | 05           |       | 5          | 269              |          |           | 1.67         |
| 02     | 01  | 861014 | 16.67          | 61             | 05    | 55           |       | 5          | 269              | 02 40 N  | 100 47 W  | 0.28         |
| 03     | 01  | 861014 | 16.67          | 61             | 05    | 55           |       | 5          | 269              | 02 40 N  | 100 48 W  | 2.50         |
| 03     | 02  | 861014 | 16.67          | 61             | 05    | 55           | 07    | 5          | 269              |          |           | 2.22         |
| 03     | 03  | 861014 | 16.67          | 61             | 05    | 55           |       | 5          | 269              |          |           | 0.83         |
| 03     | 04  | 861014 | 16.67          | 05             | 55    | 61           |       | 5          | 269              |          |           | 5.56         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 03     | 05  | 861014 | 16.67          | 55             | 61    | 05           |       |               | 269              |          |           | 4.44         |
| 03     | 06  | 861014 | 16.67          | 55             | 61    | 05           | 07    | 01            | 269              |          |           | 2.50         |
| 03     | 07  | 861014 | 16.67          | 61             | 05    | 55           |       |               | 269              |          |           | 2.22         |
| 03     | 08  | 861014 | 16.67          | 63             | 64    | 38           |       |               | 269              |          |           | 5.56         |
| 03     | 09  | 861014 | 16.67          | 64             | 38    | 63           |       |               | 269              |          |           | 5.56         |
| 03     | 10  | 861014 | 16.67          | 38             | 63    | 64           |       |               | 269              |          |           | 5.56         |
| 04     | 01  | 861014 | 16.67          | 63             | 64    | 38           |       |               | 269              | 02 42 N  | 101 12 W  | 5.56         |
| 04     | 02  | 861014 | 16.67          | 64             | 38    | 63           |       |               | 269              |          |           | 6.39         |
| 04     | 03  | 861014 | 16.67          | 05             | 61    | 55           | 12    | 12            | 269              |          |           | 5.56         |
| 04     | 04  | 861014 | 16.67          | 61             | 55    | 05           | 12    | 12            | 269              |          |           | 7.22         |
| 04     | 05  | 861014 | 16.67          | 55             | 05    | 61           | 12    | 12            | 269              |          |           | 2.50         |
| 04     | 06  | 861014 | 16.67          | 55             | 05    | 61           |       |               | 269              |          |           | 3.06         |
| 04     | 07  | 861014 | 16.67          | 05             | 61    | 55           |       |               | 269              |          |           | 5.56         |
| 04     | 08  | 861014 | 16.67          | 61             | 55    | 05           |       |               | 269              |          |           | 5.56         |
| 04     | 09  | 861014 | 16.67          | 55             | 05    | 61           |       |               | 269              |          |           | 3.33         |
| 04     | 10  | 861014 | 16.67          | 63             | 38    | 64           |       |               | 269              |          |           | 5.56         |
| 04     | 11  | 861014 | 16.67          | 38             | 64    | 63           |       |               | 269              |          |           | 5.56         |
| 04     | 12  | 861014 | 16.67          | 64             | 63    | 38           |       |               | 269              | 02 42 N  | 101 45 W  | 5.56         |
| 04     | 13  | 861014 | 16.67          | 63             | 38    | 64           |       |               | 269              |          |           | 5.56         |
| 04     | 14  | 861014 | 16.67          | 38             | 64    | 38           |       |               | 269              |          |           | 5.56         |
| 04     | 15  | 861014 | 16.67          | 63             | 64    | 38           |       |               | 269              |          |           | 5.56         |
| 04     | 16  | 861014 | 16.67          | 55             | 61    | 05           |       |               | 269              |          |           | 5.83         |
| 04     | 17  | 861014 | 16.67          | 61             | 05    | 55           |       |               | 269              |          |           | 5.56         |
| 01     | 01  | 861015 | 22.22          | 55             | 61    | 20           |       |               | 269              | 02 39 N  | 104 22 W  | 2.78         |
| 01     | 02  | 861015 | 22.22          | 61             | 20    | 55           |       |               | 269              |          |           | 7.41         |
| 01     | 03  | 861015 | 22.22          | 20             | 55    | 61           | 06    | 03            | 269              |          |           | 7.41         |
| 01     | 04  | 861015 | 22.22          | 20             | 55    | 61           |       |               | 269              |          |           | 4.07         |
| 01     | 05  | 861015 | 22.22          | 38             | 64    | 63           |       |               | 269              |          |           | 1.48         |
| 01     | 01  | 861016 | 22.22          | 64             | 63    | 38           |       |               | 255              | 02 17 N  | 109 01 W  | 7.41         |
| 01     | 02  | 861016 | 22.22          | 63             | 38    | 64           |       |               | 255              |          |           | 7.41         |
| 01     | 03  | 861016 | 22.22          | 38             | 64    | 63           |       |               | 255              |          |           | 1.85         |
| 01     | 04  | 861016 | 22.22          | 61             | 55    | 05           |       |               | 255              |          |           | 7.78         |
| 01     | 05  | 861016 | 18.52          | 38             | 64    | 63           |       |               | 255              |          |           | 6.17         |
| 01     | 06  | 861016 | 18.52          | 64             | 63    | 38           |       |               | 255              |          |           | 6.17         |
| 01     | 07  | 861016 | 18.52          | 63             | 38    | 64           |       |               | 255              |          |           | 4.32         |
| 01     | 08  | 861016 | 18.52          | 61             | 05    | 55           |       |               | 255              |          |           | 6.17         |
| 01     | 09  | 861016 | 18.52          | 05             | 55    | 61           |       |               | 255              |          |           | 3.70         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 01     | 10  | 861016 | 18.52          | 05             | 55    | 61           |       | 5          | 255              | 02 09 N  | 109 32 W  | 2.47         |
| 01     | 11  | 861016 | 18.52          | 55             | 61    | 05           |       | 5          | 255              |          |           | 6.17         |
| 01     | 12  | 861016 | 18.52          | 61             | 05    | 55           |       | 5          | 255              |          |           | 4.32         |
| 01     | 13  | 861016 | 18.52          | 61             | 05    | 55           |       | 5          | 255              |          |           | 1.85         |
| 01     | 14  | 861016 | 18.52          | 05             | 55    | 61           |       | 5          | 255              |          |           | 6.17         |
| 01     | 15  | 861016 | 18.52          | 55             | 61    | 05           |       | 5          | 255              |          |           | 6.17         |
| 01     | 16  | 861016 | 18.52          | 63             | 38    | 64           |       | 5          | 255              | 02 05 N  | 109 47 W  | 7.10         |
| 01     | 17  | 861016 | 18.52          | 38             | 64    | 63           |       | 5          | 255              |          |           | 6.17         |
| 01     | 18  | 861016 | 18.52          | 64             | 63    | 38           |       | 5          | 255              |          |           | 6.48         |
| 01     | 19  | 861016 | 18.52          | 63             | 38    | 64           |       | 5          | 297              |          |           | 6.17         |
| 01     | 20  | 861016 | 18.52          | 38             | 64    | 63           | 12    | 5          | 297              |          |           | 3.09         |
| 01     | 21  | 861016 | 18.52          | 55             | 61    | 05           | 12    | 5          | 297              |          |           | 6.17         |
| 01     | 22  | 861016 | 18.52          | 61             | 05    | 55           | 12    | 5          | 297              |          |           | 5.56         |
| 01     | 01  | 861017 | 18.52          | 64             | 61    | 05           |       | 5          | 274              | 02 19 N  | 111 58 W  | 6.17         |
| 01     | 02  | 861017 | 18.52          | 61             | 05    | 64           |       | 5          | 274              |          |           | 3.40         |
| 01     | 03  | 861017 | 18.52          | 63             | 38    | 55           | 06    | 5          | 274              |          |           | 5.56         |
| 01     | 04  | 861017 | 18.52          | 05             | 64    | 61           | 06    | 5          | 274              |          |           | 6.17         |
| 01     | 05  | 861017 | 18.52          | 64             | 61    | 05           | 06    | 5          | 274              |          |           | 6.17         |
| 01     | 06  | 861017 | 18.52          | 61             | 05    | 64           |       | 5          | 274              |          |           | 2.78         |
| 01     | 07  | 861017 | 18.52          | 61             | 05    | 64           |       | 5          | 274              |          |           | 2.16         |
| 01     | 08  | 861017 | 18.52          | 61             | 05    | 64           |       | 5          | 274              |          |           | 1.23         |
| 01     | 09  | 861017 | 18.52          | 05             | 64    | 61           |       | 5          | 274              |          |           | 3.40         |
| 01     | 10  | 861017 | 18.52          | 38             | 55    | 63           | 06    | 5          | 274              |          |           | 6.17         |
| 01     | 11  | 861017 | 18.52          | 55             | 63    | 38           | 06    | 5          | 274              | 02 19 N  | 112 23 W  | 6.17         |
| 01     | 12  | 861017 | 18.52          | 63             | 38    | 55           | 06    | 5          | 274              |          |           | 6.17         |
| 01     | 13  | 861017 | 18.52          | 38             | 55    | 63           | 06    | 5          | 274              |          |           | 6.17         |
| 01     | 14  | 861017 | 18.52          | 55             | 63    | 38           | 06    | 5          | 274              |          |           | 6.17         |
| 01     | 15  | 861017 | 18.52          | 63             | 38    | 55           | 07    | 5          | 274              |          |           | 6.17         |
| 01     | 16  | 861017 | 18.52          | 61             | 64    | 05           | 07    | 5          | 274              |          |           | 6.17         |
| 01     | 17  | 861017 | 18.52          | 64             | 05    | 61           | 07    | 5          | 274              | 02 21 N  | 112 45 W  | 4.01         |
| 01     | 18  | 861017 | 18.52          | 64             | 05    | 61           |       | 5          | 274              |          |           | 1.54         |
| 01     | 19  | 861017 | 18.52          | 64             | 05    | 61           | 07    | 5          | 274              |          |           | 0.93         |
| 01     | 20  | 861017 | 18.52          | 05             | 61    | 64           | 07    | 5          | 274              | 02 21,N  | 112 49 W  | 3.09         |
| 01     | 21  | 861017 | 18.52          | 05             | 61    | 64           |       | 5          | 274              |          |           | 3.09         |
| 01     | 22  | 861017 | 18.52          | 61             | 64    | 05           |       | 5          | 274              |          |           | 6.17         |
| 01     | 23  | 861017 | 18.52          | 38             | 63    | 55           |       | 5          | 274              |          |           | 6.17         |
| 01     | 24  | 861017 | 18.52          | 64             | 05    | 61           |       | 5          | 274              | 02 23 N  | 112 58 W  | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 01     | 25  | 861017 | 18.52          | 63             | 55    | 38           |       | 5          | 274              |          |           | 6.17         |
| 01     | 26  | 861017 | 18.52          | 55             | 38    | 63           |       | 5          | 274              |          |           | 6.79         |
| 01     | 27  | 861017 | 18.52          | 38             | 63    | 55           |       | 5          | 274              | 02 24 N  | 113 09 W  | 6.17         |
| 01     | 28  | 861017 | 18.52          | 63             | 55    | 38           | 11    | 5          | 274              |          |           | 6.17         |
| 01     | 29  | 861017 | 18.52          | 55             | 38    | 63           | 11    | 5          | 274              |          |           | 6.17         |
| 01     | 30  | 861017 | 18.52          | 38             | 63    | 55           | 11    | 5          | 274              | 02 24 N  | 113 20 W  | 5.25         |
| 01     | 31  | 861017 | 18.52          | 61             | 64    | 05           | 11    | 5          | 274              |          |           | 5.56         |
| 02     | 01  | 861017 | 18.52          | 64             | 05    | 61           | 11    | 5          | 272              | 02 31 N  | 113 28 W  | 6.17         |
| 02     | 02  | 861017 | 18.52          | 05             | 61    | 64           | 11    | 5          | 272              |          |           | 6.17         |
| 02     | 03  | 861017 | 18.52          | 61             | 64    | 05           | 11    | 5          | 272              |          |           | 4.94         |
| 03     | 01  | 861017 | 18.52          | 55             | 38    | 63           | 11    | 5          | 272              | 02 30 N  | 113 37 W  | 0.62         |
| 03     | 02  | 861017 | 18.52          | 55             | 38    | 63           | 11    | 5          | 273              |          |           | 5.86         |
| 03     | 03  | 861017 | 18.52          | 38             | 63    | 55           | 11    | 5          | 273              |          |           | 6.17         |
| 03     | 04  | 861017 | 18.52          | 63             | 55    | 38           | 11    | 5          | 273              |          |           | 6.17         |
| 03     | 05  | 861017 | 18.52          | 55             | 38    | 63           | 11    | 5          | 273              |          |           | 6.48         |
| 03     | 06  | 861017 | 18.52          | 38             | 63    | 55           | 11    | 5          | 273              |          |           | 3.09         |
| 01     | 01  | 861018 | 18.52          | 38             | 63    | 55           |       | 6          | 258              | 02 43 N  | 115 40 W  | 6.17         |
| 01     | 02  | 861018 | 18.52          | 63             | 55    | 38           |       | 6          | 258              |          |           | 6.17         |
| 01     | 03  | 861018 | 18.52          | 55             | 38    | 63           |       | 6          | 258              |          |           | 2.78         |
| 01     | 04  | 861018 | 18.52          | 55             | 38    | 63           |       | 6          | 258              | 02 42 N  | 115 50 W  | 0.31         |
| 02     | 01  | 861018 | 18.52          | 64             | 61    | 05           | 06    | 6          | 288              |          |           | 6.17         |
| 02     | 02  | 861018 | 18.52          | 61             | 05    | 64           | 06    | 6          | 288              |          |           | 2.78         |
| 02     | 03  | 861018 | 18.52          | 61             | 05    | 64           | 06    | 6          | 288              | 02 40 N  | 116 06 W  | 0.31         |
| 01     | 01  | 861019 | 18.52          | 61             | 64    | 05           | 06    | 5          | 284              | 03 40 N  | 118 47 W  | 6.17         |
| 01     | 02  | 861019 | 18.52          | 64             | 05    | 61           |       | 5          | 284              |          |           | 6.17         |
| 01     | 03  | 861019 | 18.52          | 05             | 61    | 64           | 06    | 5          | 284              |          |           | 4.63         |
| 01     | 04  | 861019 | 18.52          | 63             | 38    | 55           |       | 5          | 284              |          |           | 2.16         |
| 02     | 01  | 861019 | 18.52          | 63             | 38    | 55           |       | 5          | 274              | 03 52 N  | 118 54 W  | 6.17         |
| 02     | 02  | 861019 | 18.52          | 38             | 55    | 63           |       | 5          | 274              |          |           | 6.17         |
| 02     | 03  | 861019 | 18.52          | 55             | 63    | 38           |       | 5          | 274              |          |           | 6.17         |
| 02     | 04  | 861019 | 18.52          | 63             | 38    | 55           |       | 5          | 274              |          |           | 6.17         |
| 02     | 05  | 861019 | 18.52          | 38             | 55    | 63           |       | 5          | 274              |          |           | 6.17         |
| 02     | 06  | 861019 | 18.52          | 55             | 63    | 38           |       | 5          | 274              |          |           | 4.94         |
| 03     | 01  | 861019 | 18.52          | 61             | 64    | 05           |       | 5          | 264              | 04 00 N  | 119 12 W  | 6.17         |
| 03     | 02  | 861019 | 18.52          | 64             | 05    | 61           |       | 5          | 264              |          |           | 6.17         |
| 03     | 03  | 861019 | 18.52          | 05             | 61    | 64           | 12    | 5          | 264              |          |           | 6.17         |
| 03     | 04  | 861019 | 18.52          | 61             | 64    | 05           | 12    | 6          | 264              |          |           | 2.16         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 02     | 01  | 861021 | 18.52          | 61             | 55    | 38           |       | 5             | 283              | 05 28 N  | 125 35 W  | 5.25         |
| 02     | 02  | 861021 | 18.52          | 64             | 63    | 05           |       | 5             | 283              |          |           | 4.94         |
| 02     | 03  | 861021 | 18.52          | 64             | 63    | 05           |       | 5             | 283              |          |           | 1.23         |
| 02     | 04  | 861021 | 18.52          | 63             | 05    | 64           |       | 5             | 283              |          |           | 5.25         |
| 02     | 05  | 861021 | 18.52          | 61             | 55    | 38           |       | 5             | 283              |          |           | 6.17         |
| 02     | 06  | 861021 | 18.52          | 61             | 38    | 55           |       | 5             | 283              |          |           | 1.23         |
| 02     | 07  | 861021 | 18.52          | 61             | 38    | 55           | 09    | 5             | 283              |          |           | 2.78         |
| 03     | 01  | 861021 | 18.52          | 38             | 55    | 61           |       | 5             | 283              | 05 33 N  | 125 54 W  | 3.40         |
| 03     | 02  | 861021 | 18.52          | 38             | 55    | 61           | 12    | 5             | 283              |          |           | 4.32         |
| 03     | 03  | 861021 | 18.52          | 55             | 61    | 38           | 11    | 5             | 283              |          |           | 4.63         |
| 03     | 04  | 861021 | 18.52          | 63             | 64    | 05           | 11    | 5             | 283              |          |           | 6.17         |
| 03     | 05  | 861021 | 18.52          | 64             | 05    | 63           | 11    | 5             | 283              |          |           | 6.17         |
| 03     | 06  | 861021 | 18.52          | 05             | 63    | 64           |       | 5             | 283              |          |           | 4.94         |
| 03     | 07  | 861021 | 18.52          | 05             | 63    | 64           |       | 5             | 283              |          |           | 1.23         |
| 03     | 08  | 861021 | 18.52          | 63             | 64    | 05           |       | 5             | 283              |          |           | 6.17         |
| 03     | 09  | 861021 | 18.52          | 64             | 05    | 63           |       | 5             | 283              |          |           | 6.17         |
| 03     | 10  | 861021 | 18.52          | 05             | 63    | 64           | 11    | 5             | 283              |          |           | 3.09         |
| 03     | 11  | 861021 | 18.52          | 05             | 63    | 64           | 11    | 5             | 283              |          |           | 2.16         |
| 03     | 12  | 861021 | 18.52          | 05             | 63    | 64           |       | 5             | 283              |          |           | 2.16         |
| 03     | 13  | 861021 | 18.52          | 61             | 38    | 55           | 10    | 5             | 283              | 05 40 N  | 126 21 W  | 6.48         |
| 03     | 14  | 861021 | 18.52          | 64             | 63    | 05           |       | 5             | 283              | 05 41 N  | 126 26 W  | 6.79         |
| 03     | 15  | 861021 | 18.52          | 38             | 55    | 61           |       | 5             | 283              |          |           | 6.17         |
| 03     | 16  | 861021 | 18.52          | 55             | 61    | 38           |       | 5             | 283              |          |           | 6.17         |
| 03     | 17  | 861021 | 18.52          | 61             | 38    | 55           |       | 5             | 283              |          |           | 2.16         |
| 01     | 01  | 861022 | 18.52          | 38             | 61    | 55           |       | 4             | 260              | 05 49 N  | 127 59 W  | 3.09         |
| 01     | 02  | 861022 | 18.52          | 38             | 61    | 55           | 07    | 4             | 260              |          |           | 3.70         |
| 01     | 03  | 861022 | 18.52          | 61             | 55    | 38           |       | 4             | 260              |          |           | 1.85         |
| 01     | 04  | 861022 | 18.52          | 63             | 64    | 05           |       | 4             | 260              |          |           | 3.40         |
| 01     | 05  | 861022 | 18.52          | 63             | 64    | 05           | 07    | 4             | 260              | 05 48 N  | 128 08 W  | 3.40         |
| 01     | 06  | 861022 | 18.52          | 61             | 55    | 38           | 07    | 4             | 260              |          |           | 6.17         |
| 01     | 07  | 861022 | 18.52          | 55             | 38    | 61           | 07    | 5             | 260              |          |           | 6.17         |
| 01     | 08  | 861022 | 18.52          | 38             | 61    | 55           | 07    | 5             | 260              |          |           | 6.17         |
| 01     | 09  | 861022 | 18.52          | 61             | 55    | 38           | 07    | 5             | 260              | 05 46 N  | 128 18 W  | 3.09         |
| 01     | 10  | 861022 | 18.52          | 64             | 63    | 05           | 07    | 5             | 260              |          |           | 6.17         |
| 01     | 11  | 861022 | 18.52          | 63             | 05    | 64           | 07    | 5             | 260              |          |           | 6.48         |
| 01     | 12  | 861022 | 18.52          | 05             | 64    | 63           | 07    | 5             | 260              |          |           | 6.17         |
| 01     | 13  | 861022 | 18.52          | 64             | 63    | 05           | 07    | 5             | 260              |          |           | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Rec.         | Horz. |                      |                  | Vert.    | Latitude         |              |
| 01     | 14  | 861022 | 18.52          | 63             | 05    | 64           | 07    | 01                   | 5                | 260      |                  | 6.17         |
| 01     | 15  | 861022 | 18.52          | 05             | 64    | 63           | 07    | 01                   | 5                | 260      |                  | 5.86         |
| 01     | 16  | 861022 | 18.52          | 61             | 38    | 55           | 08    | 12                   | 5                | 260      |                  | 6.17         |
| 01     | 17  | 861022 | 18.52          | 38             | 55    | 61           | 08    | 12                   | 5                | 260      |                  | 6.17         |
| 01     | 18  | 861022 | 18.52          | 55             | 61    | 38           | 08    | 12                   | 5                | 260      |                  | 5.86         |
| 01     | 19  | 861022 | 18.52          | 64             | 05    | 63           | 08    | 12                   | 5                | 260      |                  | 7.10         |
| 01     | 20  | 861022 | 18.52          | 61             | 38    | 55           | 08    | 12                   | 5                | 260      |                  | 1.85         |
| 02     | 01  | 861022 | 18.52          | 38             | 55    | 61           | 12    | 12                   | 5                | 260      | 05 42 N 128 56 W | 4.01         |
| 02     | 02  | 861022 | 18.52          | 05             | 61    | 64           | 12    | 12                   | 5                | 260      |                  | 6.17         |
| 02     | 03  | 861022 | 18.52          | 63             | 64    | 05           | 12    | 12                   | 5                | 260      |                  | 6.17         |
| 02     | 04  | 861022 | 18.52          | 64             | 05    | 63           | 12    | 12                   | 5                | 260      |                  | 6.17         |
| 02     | 05  | 861022 | 18.52          | 05             | 63    | 64           | 12    | 12                   | 5                | 260      |                  | 6.17         |
| 02     | 06  | 861022 | 18.52          | 63             | 64    | 05           | 12    | 12                   | 5                | 260      |                  | 6.17         |
| 02     | 07  | 861022 | 18.52          | 64             | 05    | 63           | 11    | 01                   | 5                | 260      |                  | 6.17         |
| 02     | 08  | 861022 | 18.52          | 55             | 38    | 61           | 11    | 01                   | 5                | 260      |                  | 6.17         |
| 02     | 09  | 861022 | 18.52          | 38             | 61    | 55           | 11    | 01                   | 5                | 260      |                  | 6.17         |
| 02     | 10  | 861022 | 18.52          | 38             | 61    | 55           | 11    | 01                   | 5                | 260      |                  | 3.40         |
| 02     | 11  | 861022 | 18.52          | 38             | 61    | 55           | 11    | 01                   | 5                | 260      |                  | 1.23         |
| 02     | 12  | 861022 | 18.52          | 61             | 55    | 38           | 11    | 01                   | 5                | 260      |                  | 1.54         |
| 02     | 13  | 861022 | 18.52          | 55             | 38    | 61           | 11    | 01                   | 5                | 260      |                  | 6.17         |
| 02     | 14  | 861022 | 18.52          | 38             | 61    | 55           | 12    | 01                   | 5                | 260      |                  | 6.17         |
| 02     | 15  | 861022 | 18.52          | 61             | 55    | 38           | 12    | 02                   | 5                | 260      |                  | 6.17         |
| 03     | 01  | 861022 | 18.52          | 55             | 38    | 61           | 12    | 02                   | 4                | 260      | 05 37 N 129 39 W | 3.40         |
| 03     | 02  | 861022 | 18.52          | 63             | 64    | 05           | 12    | 02                   | 5                | 260      |                  | 6.17         |
| 03     | 03  | 861022 | 18.52          | 64             | 05    | 63           | 12    | 02                   | 5                | 260      |                  | 6.17         |
| 03     | 04  | 861022 | 18.52          | 05             | 63    | 64           | 12    | 02                   | 5                | 260      |                  | 6.17         |
| 03     | 05  | 861022 | 18.52          | 63             | 64    | 05           | 12    | 03                   | 5                | 260      |                  | 6.17         |
| 03     | 06  | 861022 | 18.52          | 64             | 05    | 63           | 12    | 03                   | 5                | 260      |                  | 4.32         |
| 03     | 07  | 861022 | 18.52          | 64             | 05    | 63           | 12    | 03                   | 5                | 260      |                  | 1.85         |
| 03     | 08  | 861022 | 18.52          | 64             | 05    | 63           | 12    | 03                   | 5                | 260      | 05 34 N 129 56 W | 0.31         |
| 01     | 01  | 861023 | 18.52          | 55             | 63    | 05           | 07    | 03                   | 5                | 259      | 05 21 N 131 28 W | 6.17         |
| 01     | 02  | 861023 | 18.52          | 63             | 05    | 55           | 07    | 03                   | 5                | 259      |                  | 6.17         |
| 01     | 03  | 861023 | 18.52          | 05             | 55    | 63           | 07    | 03                   | 5                | 259      |                  | 5.86         |
| 01     | 04  | 861023 | 18.52          | 55             | 63    | 05           | 07    | 02                   | 5                | 259      |                  | 3.70         |
| 01     | 05  | 861023 | 18.52          | 61             | 64    | 38           | 07    | 02                   | 5                | 259      |                  | 5.25         |
| 01     | 06  | 861023 | 18.52          | 55             | 63    | 05           | 07    | 02                   | 5                | 259      |                  | 2.47         |
| 01     | 07  | 861023 | 18.52          | 63             | 05    | 55           | 07    | 02                   | 5                | 259      |                  | 7.41         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      | Latitude | Longitude |              |
| 01     | 08  | 861023 | 18.52          | 64             | 38    | 61           | 07    | 02                   | 5        | 259       | 6.17         |
| 01     | 09  | 861023 | 18.52          | 38             | 61    | 64           | 07    | 02                   | 5        | 259       | 6.48         |
| 01     | 10  | 861023 | 18.52          | 61             | 64    | 38           | 07    | 02                   | 5        | 259       | 6.17         |
| 02     | 01  | 861023 | 18.52          | 64             | 38    | 61           | 07    | 01                   | 5        | 258       | 4.01         |
| 03     | 01  | 861023 | 18.52          | 55             | 63    | 05           | 07    | 01                   | 5        | 258       | 6.17         |
| 03     | 02  | 861023 | 18.52          | 63             | 05    | 55           | 08    | 01                   | 5        | 258       | 6.17         |
| 03     | 03  | 861023 | 18.52          | 05             | 55    | 63           | 08    | 01                   | 5        | 258       | 6.17         |
| 03     | 04  | 861023 | 18.52          | 55             | 63    | 05           | 08    | 01                   | 5        | 258       | 6.48         |
| 03     | 05  | 861023 | 18.52          | 63             | 05    | 55           | 09    | 12                   | 5        | 258       | 6.48         |
| 03     | 06  | 861023 | 18.52          | 05             | 55    | 63           | 09    | 12                   | 5        | 258       | 1.85         |
| 03     | 07  | 861023 | 18.52          | 38             | 61    | 64           | 09    | 12                   | 4        | 258       | 6.17         |
| 03     | 08  | 861023 | 18.52          | 61             | 64    | 38           | 09    | 12                   | 4        | 258       | 6.17         |
| 03     | 09  | 861023 | 18.52          | 64             | 38    | 61           | 12    | 12                   | 4        | 258       | 6.17         |
| 03     | 10  | 861023 | 18.52          | 38             | 61    | 64           | 12    | 12                   | 4        | 258       | 6.17         |
| 04     | 01  | 861023 | 18.52          | 61             | 64    | 38           | 11    | 01                   | 4        | 258       | 6.17         |
| 04     | 02  | 861023 | 18.52          | 64             | 38    | 61           | 11    | 01                   | 4        | 258       | 1.23         |
| 04     | 03  | 861023 | 18.52          | 63             | 55    | 05           | 11    | 01                   | 4        | 258       | 6.17         |
| 04     | 04  | 861023 | 18.52          | 55             | 05    | 63           | 11    | 01                   | 4        | 258       | 6.48         |
| 04     | 05  | 861023 | 18.52          | 05             | 63    | 55           | 12    | 01                   | 4        | 258       | 6.17         |
| 04     | 06  | 861023 | 18.52          | 63             | 55    | 05           | 12    | 01                   | 4        | 258       | 6.17         |
| 04     | 07  | 861023 | 18.52          | 55             | 05    | 63           | 12    | 01                   | 4        | 258       | 6.17         |
| 04     | 08  | 861023 | 18.52          | 05             | 63    | 55           | 12    | 01                   | 4        | 258       | 4.94         |
| 04     | 09  | 861023 | 18.52          | 61             | 64    | 38           | 12    | 02                   | 4        | 258       | 6.17         |
| 04     | 10  | 861023 | 18.52          | 64             | 38    | 61           | 12    | 02                   | 4        | 258       | 2.47         |
| 04     | 11  | 861023 | 18.52          | 64             | 38    | 61           | 12    | 02                   | 4        | 258       | 4.32         |
| 04     | 12  | 861023 | 18.52          | 38             | 61    | 64           | 12    | 02                   | 4        | 258       | 1.23         |
| 05     | 01  | 861023 | 18.52          | 55             | 63    | 05           | 12    | 02                   | 4        | 256       | 1.85         |
| 05     | 02  | 861023 | 18.52          | 61             | 64    | 38           | 12    | 02                   | 4        | 256       | 4.94         |
| 05     | 03  | 861023 | 18.52          | 61             | 64    | 38           | 12    | 03                   | 4        | 256       | 1.23         |
| 05     | 04  | 861023 | 18.52          | 64             | 38    | 61           | 12    | 03                   | 4        | 256       | 5.56         |
| 01     | 01  | 861024 | 18.52          | 64             | 61    | 38           |       |                      | 3        | 249       | 2.47         |
| 02     | 01  | 861024 | 18.52          | 63             | 55    | 05           |       |                      | 3        | 249       | 4.32         |
| 02     | 02  | 861024 | 18.52          | 63             | 55    | 05           |       |                      | 2        | 249       | 2.78         |
| 02     | 03  | 861024 | 18.52          | 64             | 61    | 38           | 07    | 02                   | 2        | 249       | 6.17         |
| 02     | 04  | 861024 | 18.52          | 61             | 38    | 64           | 07    | 02                   | 2        | 249       | 2.16         |
| 03     | 01  | 861024 | 18.52          | 55             | 05    | 63           | 07    | 02                   | 2        | 249       | 6.79         |
| 03     | 02  | 861024 | 18.52          | 05             | 63    | 55           | 08    | 01                   | 2        | 249       | 6.17         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 01     | 13  | 861025 | 18.52          | 38             | 64    | 61           | 06    | 02         | 5                | 290      | 05 09 N 138 11 W | 6.17         |
| 01     | 14  | 861025 | 18.52          | 64             | 61    | 38           | 06    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 15  | 861025 | 18.52          | 61             | 38    | 64           | 06    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 16  | 861025 | 18.52          | 38             | 64    | 61           | 06    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 17  | 861025 | 18.52          | 55             | 63    | 05           | 06    | 01         | 5                | 290      | 05 13 N 138 21 W | 6.17         |
| 01     | 18  | 861025 | 18.52          | 63             | 05    | 55           | 07    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 19  | 861025 | 18.52          | 05             | 55    | 63           | 07    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 20  | 861025 | 18.52          | 55             | 63    | 05           | 07    | 12         | 5                | 290      |                  | 4.63         |
| 01     | 21  | 861025 | 18.52          | 61             | 64    | 38           | 12    | 12         | 5                | 290      |                  | 6.79         |
| 01     | 22  | 861025 | 18.52          | 63             | 05    | 55           | 12    | 12         | 5                | 290      |                  | 7.10         |
| 01     | 23  | 861025 | 18.52          | 64             | 38    | 61           | 12    | 12         | 5                | 290      | 05 21 N 138 42 W | 6.17         |
| 01     | 24  | 861025 | 18.52          | 38             | 61    | 64           | 12    | 12         | 5                | 290      |                  | 6.17         |
| 01     | 25  | 861025 | 18.52          | 61             | 64    | 38           | 12    | 12         | 5                | 290      |                  | 6.17         |
| 01     | 26  | 861025 | 18.52          | 64             | 38    | 61           | 12    | 12         | 5                | 290      |                  | 4.32         |
| 01     | 27  | 861025 | 18.52          | 64             | 38    | 61           | 12    | 12         | 5                | 290      | 05 26 N 138 54 W | 3.09         |
| 01     | 28  | 861025 | 18.52          | 38             | 61    | 64           | 11    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 29  | 861025 | 18.52          | 61             | 64    | 38           | 11    | 01         | 5                | 290      |                  | 5.86         |
| 01     | 30  | 861025 | 18.52          | 55             | 05    | 63           | 11    | 01         | 5                | 290      |                  | 7.41         |
| 01     | 31  | 861025 | 18.52          | 05             | 63    | 55           | 11    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 32  | 861025 | 18.52          | 63             | 55    | 05           | 11    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 33  | 861025 | 18.52          | 55             | 05    | 63           | 11    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 34  | 861025 | 18.52          | 05             | 63    | 55           | 10    | 01         | 5                | 290      |                  | 6.17         |
| 01     | 35  | 861025 | 18.52          | 63             | 55    | 05           | 10    | 01         | 5                | 290      |                  | 4.01         |
| 01     | 36  | 861025 | 18.52          | 64             | 61    | 38           | 11    | 02         | 5                | 290      | 05 36 N 139 10 W | 7.72         |
| 02     | 01  | 861025 | 18.52          | 64             | 61    | 38           |       |            | 5                | 290      | 05 41 N 139 34 W | 4.01         |
| 01     | 01  | 861026 | 18.52          | 38             | 63    | 61           |       |            | 3                | 290      | 06 14 N 141 08 W | 3.70         |
| 01     | 02  | 861026 | 18.52          | 38             | 63    | 61           |       |            | 3                | 290      |                  | 2.47         |
| 01     | 03  | 861026 | 18.52          | 63             | 61    | 38           |       |            | 3                | 290      |                  | 1.54         |
| 02     | 01  | 861026 | 18.52          | 64             | 55    | 05           |       |            | 3                | 290      | 06 21 N 141 28 W | 6.48         |
| 02     | 02  | 861026 | 18.52          | 55             | 05    | 64           |       |            | 3                | 290      |                  | 6.17         |
| 02     | 03  | 861026 | 18.52          | 05             | 64    | 55           |       |            | 3                | 290      |                  | 1.54         |
| 03     | 01  | 861026 | 18.52          | 05             | 64    | 55           |       |            | 3                | 290      |                  | 4.63         |
| 03     | 02  | 861026 | 18.52          | 64             | 55    | 05           |       |            | 3                | 290      | 06 23 N 141 36 W | 5.25         |
| 04     | 01  | 861026 | 18.52          | 63             | 61    | 38           |       |            | 2                | 291      | 06 27 N 141 44 W | 6.17         |
| 04     | 02  | 861026 | 18.52          | 61             | 38    | 63           |       |            | 2                | 291      |                  | 6.17         |
| 04     | 03  | 861026 | 18.52          | 38             | 63    | 61           |       |            | 2                | 291      |                  | 6.17         |
| 04     | 04  | 861026 | 18.52          | 63             | 61    | 38           |       |            | 2                | 291      |                  | 1.85         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 05     | 01  | 861026 | 18.52          | 55             | 05    | 64           | 12    | 12         | 291              | 06 31 N  | 141 54 W  | 5.56         |
| 05     | 02  | 861026 | 18.52          | 63             | 61    | 38           |       |            | 291              |          |           | 3.70         |
| 06     | 01  | 861026 | 18.52          | 63             | 61    | 38           |       |            | 291              | 06 31 N  | 142 00 W  | 1.23         |
| 06     | 02  | 861026 | 18.52          | 05             | 64    | 55           |       |            | 291              |          |           | 6.17         |
| 06     | 03  | 861026 | 18.52          | 64             | 55    | 05           | 11    | 12         | 291              |          |           | 4.32         |
| 07     | 01  | 861026 | 18.52          | 55             | 05    | 64           | 11    | 12         | 291              | 06 34 N  | 142 06 W  | 6.17         |
| 07     | 02  | 861026 | 18.52          | 05             | 64    | 55           |       |            | 291              |          |           | 4.63         |
| 07     | 03  | 861026 | 18.52          | 05             | 64    | 55           | 10    | 12         | 291              |          |           | 1.54         |
| 07     | 04  | 861026 | 18.52          | 64             | 55    | 05           |       |            | 291              |          |           | 6.17         |
| 07     | 05  | 861026 | 18.52          | 55             | 05    | 64           | 10    | 01         | 291              |          |           | 6.17         |
| 07     | 06  | 861026 | 18.52          | 38             | 61    | 63           |       |            | 291              |          |           | 6.17         |
| 07     | 07  | 861026 | 18.52          | 61             | 63    | 38           |       |            | 291              |          |           | 6.17         |
| 07     | 08  | 861026 | 18.52          | 63             | 38    | 61           |       |            | 291              |          |           | 6.17         |
| 07     | 09  | 861026 | 18.52          | 38             | 61    | 63           |       |            | 291              |          |           | 6.17         |
| 07     | 10  | 861026 | 18.52          | 61             | 63    | 38           |       |            | 291              |          |           | 6.17         |
| 08     | 01  | 861026 | 18.52          | 61             | 38    | 20           |       |            | 291              | 06 41 N  | 142 30 W  | 0.31         |
| 08     | 02  | 861026 | 18.52          | 64             | 05    | 55           |       |            | 291              |          |           | 2.47         |
| 08     | 03  | 861026 | 18.52          | 05             | 55    | 64           |       |            | 291              |          |           | 6.17         |
| 08     | 04  | 861026 | 18.52          | 05             | 55    | 64           | 11    | 03         | 291              |          |           | 4.01         |
| 08     | 05  | 861026 | 18.52          | 64             | 55    | 05           | 11    | 03         | 291              |          |           | 2.16         |
| 08     | 06  | 861026 | 18.52          | 55             | 64    | 05           |       |            | 291              |          |           | 3.70         |
| 08     | 07  | 861026 | 18.52          | 64             | 05    | 55           |       |            | 291              | 06 48 N  | 142 40 W  | 2.47         |
| 08     | 08  | 861026 | 18.52          | 05             | 55    | 64           |       |            | 291              |          |           | 6.17         |
| 08     | 09  | 861026 | 18.52          | 05             | 55    | 64           |       |            | 291              |          |           | 4.63         |
| 08     | 10  | 861026 | 18.52          | 05             | 55    | 64           |       |            | 291              |          |           | 0.31         |
| 01     | 01  | 861027 | 18.52          | 55             | 64    | 05           | 05    | 03         | 290              | 06 49 N  | 142 45 W  | 6.17         |
| 01     | 02  | 861027 | 18.52          | 64             | 05    | 55           | 05    | 03         | 290              | 07 16 N  | 143 50 W  | 7.72         |
| 01     | 03  | 861027 | 18.52          | 05             | 55    | 64           | 06    | 03         | 290              |          |           | 1.23         |
| 02     | 01  | 861027 | 18.52          | 63             | 61    | 38           | 06    | 02         | 290              |          |           | 5.25         |
| 02     | 02  | 861027 | 18.52          | 55             | 64    | 05           | 06    | 02         | 290              | 07 21 N  | 144 02 W  | 5.86         |
| 02     | 03  | 861027 | 18.52          | 61             | 38    | 63           | 06    | 02         | 290              |          |           | 6.17         |
| 02     | 04  | 861027 | 18.52          | 38             | 63    | 61           | 06    | 02         | 290              |          |           | 6.48         |
| 02     | 05  | 861027 | 18.52          | 63             | 61    | 38           | 06    | 02         | 290              |          |           | 6.17         |
| 02     | 06  | 861027 | 18.52          | 61             | 38    | 63           | 06    | 02         | 290              |          |           | 6.17         |
| 02     | 07  | 861027 | 18.52          | 38             | 63    | 61           | 06    | 01         | 290              | 07 27 N  | 144 20 W  | 1.23         |
| 02     | 08  | 861027 | 18.52          | 38             | 63    | 61           | 06    | 01         | 290              |          |           | 4.94         |
| 02     | 09  | 861027 | 18.52          | 63             | 61    | 38           | 06    | 01         | 290              |          |           | 5.86         |
| 02     | 10  | 861027 | 18.52          | 64             | 55    | 05           | 06    | 01         | 290              |          |           | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 02     | 11  | 861027 | 18.52          | 55             | 05    | 64           | 06    | 01            | 5                | 290      |           | 6.17         |
| 02     | 12  | 861027 | 18.52          | 05             | 64    | 55           | 07    | 12            | 5                | 290      |           | 6.48         |
| 02     | 13  | 861027 | 18.52          | 64             | 55    | 05           | 07    | 12            | 5                | 290      |           | 6.17         |
| 02     | 14  | 861027 | 18.52          | 55             | 05    | 64           | 07    | 12            | 5                | 290      |           | 2.78         |
| 03     | 01  | 861027 | 18.52          | 05             | 64    | 55           | 08    | 12            | 5                | 290      | 07 34 N   | 3.70         |
| 04     | 01  | 861027 | 18.52          | 38             | 63    | 61           | 08    | 12            | 5                | 290      | 07 35 N   | 0.93         |
| 04     | 02  | 861027 | 18.52          | 38             | 63    | 61           | 12    | 12            | 4                | 290      |           | 6.17         |
| 04     | 03  | 861027 | 18.52          | 63             | 61    | 38           | 12    | 12            | 4                | 290      |           | 6.17         |
| 04     | 04  | 861027 | 18.52          | 61             | 38    | 63           | 12    | 12            | 4                | 290      |           | 6.17         |
| 04     | 05  | 861027 | 18.52          | 38             | 63    | 61           | 10    | 01            | 4                | 290      |           | 6.17         |
| 04     | 06  | 861027 | 18.52          | 63             | 61    | 38           | 10    | 01            | 4                | 290      |           | 6.17         |
| 04     | 07  | 861027 | 18.52          | 61             | 38    | 63           | 10    | 01            | 4                | 290      |           | 5.25         |
| 04     | 08  | 861027 | 18.52          | 64             | 05    | 55           | 10    | 01            | 4                | 290      |           | 6.17         |
| 04     | 09  | 861027 | 18.52          | 05             | 55    | 64           | 10    | 01            | 4                | 290      |           | 6.17         |
| 04     | 10  | 861027 | 18.52          | 55             | 64    | 05           | 11    | 01            | 4                | 290      |           | 6.17         |
| 04     | 11  | 861027 | 18.52          | 64             | 05    | 55           | 10    | 01            | 4                | 290      |           | 6.17         |
| 04     | 12  | 861027 | 18.52          | 05             | 55    | 64           | 10    | 01            | 4                | 290      |           | 6.17         |
| 04     | 13  | 861027 | 18.52          | 55             | 64    | 05           | 10    | 02            | 4                | 290      |           | 6.17         |
| 04     | 14  | 861027 | 18.52          | 63             | 61    | 38           | 11    | 02            | 4                | 290      |           | 6.17         |
| 04     | 15  | 861027 | 18.52          | 61             | 38    | 63           | 11    | 02            | 4                | 290      |           | 3.09         |
| 05     | 01  | 861027 | 18.52          | 05             | 64    | 55           | 12    | 02            | 4                | 261      | 07 57 N   | 6.48         |
| 05     | 02  | 861027 | 18.52          | 38             | 63    | 61           | 12    | 03            | 4                | 261      |           | 6.17         |
| 01     | 01  | 861028 | 18.52          | 63             | 61    | 38           |       |               | 3                | 321      | 08 24 N   | 4.32         |
| 01     | 02  | 861028 | 18.52          | 63             | 61    | 38           | 05    | 03            | 3                | 321      |           | 1.85         |
| 01     | 03  | 861028 | 18.52          | 61             | 38    | 63           | 05    | 03            | 3                | 321      |           | 6.17         |
| 01     | 04  | 861028 | 18.52          | 38             | 63    | 61           | 05    | 03            | 3                | 321      |           | 6.17         |
| 01     | 05  | 861028 | 18.52          | 63             | 61    | 38           | 05    | 03            | 3                | 321      |           | 2.78         |
| 01     | 06  | 861028 | 18.52          | 55             | 64    | 05           | 05    | 02            | 3                | 321      |           | 4.01         |
| 02     | 01  | 861028 | 18.52          | 61             | 38    | 63           | 05    | 02            | 3                | 321      | 08 38 N   | 5.56         |
| 02     | 02  | 861028 | 18.52          | 64             | 05    | 55           | 05    | 02            | 3                | 321      |           | 6.17         |
| 02     | 03  | 861028 | 18.52          | 05             | 55    | 64           | 05    | 02            | 3                | 321      |           | 6.79         |
| 02     | 04  | 861028 | 18.52          | 55             | 64    | 05           | 05    | 02            | 3                | 321      |           | 6.17         |
| 02     | 05  | 861028 | 18.52          | 64             | 05    | 55           | 05    | 01            | 3                | 321      |           | 1.54         |
| 03     | 01  | 861028 | 18.52          | 64             | 05    | 55           | 05    | 01            | 3                | 321      | 08 51 N   | 3.09         |
| 03     | 02  | 861028 | 18.52          | 05             | 55    | 64           | 05    | 01            | 3                | 321      |           | 1.54         |
| 04     | 01  | 861028 | 18.52          | 38             | 61    | 63           | 05    | 01            | 3                | 320      | 08 57 N   | 6.17         |
| 04     | 02  | 861028 | 18.52          | 61             | 63    | 38           | 06    | 01            | 3                | 320      |           | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed |  | Observer Codes |       | Sun Position |       | Beauf. No. | Course (Deg.) | Position |                  | KM In Leg |
|--------|-----|--------|-------|--|----------------|-------|--------------|-------|------------|---------------|----------|------------------|-----------|
|        |     |        | Km/Hr |  | Left           | Right | Rec.         | Horz. |            |               | Vert.    | Latitude         |           |
| 04     | 03  | 861028 | 18.52 |  | 63             | 38    | 61           | 06    | 01         | 3             | 320      |                  | 6.17      |
| 04     | 04  | 861028 | 18.52 |  | 38             | 61    | 63           | 06    | 01         | 3             | 320      |                  | 6.17      |
| 04     | 05  | 861028 | 18.52 |  | 61             | 63    | 38           | 12    | 12         | 3             | 320      |                  | 6.79      |
| 04     | 06  | 861028 | 18.52 |  | 64             | 55    | 05           | 12    | 12         | 3             | 320      |                  | 5.25      |
| 05     | 01  | 861028 | 18.52 |  | 55             | 05    | 64           | 09    | 12         | 3             | 320      | 09 18 N 146 26 W | 6.17      |
| 05     | 02  | 861028 | 18.52 |  | 05             | 64    | 55           | 09    | 12         | 3             | 320      |                  | 6.17      |
| 05     | 03  | 861028 | 18.52 |  | 64             | 55    | 05           | 09    | 12         | 3             | 320      |                  | 6.79      |
| 05     | 04  | 861028 | 18.52 |  | 61             | 63    | 38           | 09    | 01         | 3             | 320      |                  | 6.17      |
| 05     | 05  | 861028 | 18.52 |  | 63             | 38    | 61           | 09    | 01         | 3             | 320      |                  | 6.17      |
| 05     | 06  | 861028 | 18.52 |  | 38             | 61    | 63           | 09    | 02         | 3             | 320      |                  | 6.17      |
| 05     | 07  | 861028 | 18.52 |  | 61             | 63    | 38           | 09    | 01         | 3             | 320      |                  | 6.17      |
| 05     | 08  | 861028 | 18.52 |  | 63             | 38    | 61           | 09    | 02         | 3             | 320      |                  | 3.70      |
| 05     | 09  | 861028 | 18.52 |  | 63             | 38    | 61           | 09    | 02         | 3             | 320      | 09 39 N 146 42 W | 3.40      |
| 05     | 10  | 861028 | 18.52 |  | 38             | 61    | 63           | 09    | 02         | 3             | 320      | 09 43 N 146 44 W | 3.70      |
| 06     | 01  | 861028 | 18.52 |  | 38             | 64    | 05           | 10    | 02         | 3             | 320      |                  | 0.93      |
| 06     | 02  | 861028 | 18.52 |  | 55             | 64    | 05           | 10    | 02         | 3             | 320      |                  | 2.47      |
| 06     | 03  | 861028 | 18.52 |  | 63             | 61    | 38           | 10    | 02         | 3             | 320      |                  | 5.56      |
| 06     | 04  | 861028 | 18.52 |  | 64             | 05    | 55           | 10    | 02         | 3             | 320      |                  | 6.17      |
| 06     | 05  | 861028 | 18.52 |  | 05             | 55    | 64           | 10    | 03         | 3             | 320      |                  | 2.16      |
| 01     | 01  | 861029 | 18.52 |  | 05             | 63    | 38           |       |            | 5             | 321      | 09 48 N 146 58 W | 0.93      |
| 01     | 02  | 861029 | 18.52 |  | 05             | 63    | 61           |       |            | 5             | 321      |                  | 6.17      |
| 01     | 03  | 861029 | 18.52 |  | 63             | 61    | 05           |       |            | 5             | 321      |                  | 6.17      |
| 01     | 04  | 861029 | 18.52 |  | 61             | 05    | 63           |       |            | 5             | 321      |                  | 4.01      |
| 01     | 05  | 861029 | 18.52 |  | 64             | 38    | 55           |       |            | 5             | 321      |                  | 5.86      |
| 01     | 06  | 861029 | 18.52 |  | 61             | 05    | 63           |       |            | 5             | 321      |                  | 2.78      |
| 01     | 07  | 861029 | 18.52 |  | 05             | 63    | 61           |       |            | 5             | 321      |                  | 6.17      |
| 01     | 08  | 861029 | 18.52 |  | 63             | 61    | 05           |       |            | 5             | 321      |                  | 4.94      |
| 01     | 09  | 861029 | 18.52 |  | 38             | 55    | 64           |       |            | 5             | 321      |                  | 6.17      |
| 01     | 10  | 861029 | 18.52 |  | 55             | 64    | 38           |       |            | 5             | 321      |                  | 6.17      |
| 01     | 11  | 861029 | 18.52 |  | 64             | 38    | 55           |       |            | 5             | 321      |                  | 6.17      |
| 01     | 12  | 861029 | 18.52 |  | 38             | 55    | 64           |       |            | 5             | 321      |                  | 6.17      |
| 01     | 13  | 861029 | 18.52 |  | 55             | 64    | 38           |       |            | 5             | 321      |                  | 6.17      |
| 01     | 14  | 861029 | 18.52 |  | 64             | 38    | 55           | 07    | 01         | 5             | 321      |                  | 6.17      |
| 01     | 15  | 861029 | 18.52 |  | 61             | 63    | 05           | 07    | 01         | 5             | 321      |                  | 6.17      |
| 01     | 16  | 861029 | 18.52 |  | 63             | 38    | 61           | 07    | 01         | 5             | 321      |                  | 6.17      |
| 01     | 17  | 861029 | 18.52 |  | 05             | 61    | 63           | 07    | 01         | 5             | 321      |                  | 6.17      |
| 01     | 18  | 861029 | 18.52 |  | 61             | 63    | 05           | 07    | 12         | 5             | 321      |                  | 6.17      |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      | Latitude | Longitude |              |
| 01     | 19  | 861029 | 18.52          | 63             | 05    | 61           | 12    | 12                   | 5        | 321       | 2.47         |
| 01     | 20  | 861029 | 18.52          | 64             | 55    | 38           | 12    | 12                   | 5        | 321       | 5.56         |
| 01     | 21  | 861029 | 18.52          | 63             | 05    | 61           | 12    | 12                   | 5        | 321       | 3.70         |
| 01     | 22  | 861029 | 18.52          | 05             | 61    | 63           | 12    | 12                   | 5        | 321       | 0.93         |
| 01     | 23  | 861029 | 18.52          | 55             | 38    | 64           | 12    | 12                   | 5        | 321       | 6.17         |
| 01     | 24  | 861029 | 18.52          | 38             | 64    | 55           | 12    | 12                   | 5        | 321       | 6.17         |
| 01     | 25  | 861029 | 18.52          | 64             | 55    | 38           | 12    | 12                   | 5        | 321       | 6.17         |
| 01     | 26  | 861029 | 18.52          | 55             | 38    | 64           | 12    | 12                   | 5        | 321       | 6.17         |
| 01     | 27  | 861029 | 18.52          | 38             | 64    | 55           | 09    | 12                   | 5        | 321       | 6.17         |
| 01     | 28  | 861029 | 18.52          | 64             | 55    | 38           | 09    | 12                   | 5        | 321       | 5.86         |
| 01     | 29  | 861029 | 18.52          | 63             | 61    | 05           | 09    | 12                   | 5        | 321       | 6.17         |
| 01     | 30  | 861029 | 18.52          | 61             | 05    | 63           | 09    | 01                   | 5        | 321       | 2.16         |
| 01     | 31  | 861029 | 18.52          | 61             | 05    | 63           | 09    | 01                   | 5        | 321       | 4.63         |
| 01     | 32  | 861029 | 18.52          | 61             | 05    | 63           | 09    | 01                   | 5        | 346       | 0.62         |
| 01     | 33  | 861029 | 18.52          | 05             | 63    | 61           | 09    | 01                   | 5        | 346       | 1.54         |
| 01     | 34  | 861029 | 18.52          | 05             | 63    | 61           | 09    | 01                   | 4        | 346       | 4.63         |
| 02     | 01  | 861029 | 18.52          | 63             | 61    | 05           | 09    | 01                   | 4        | 320       | 2.16         |
| 02     | 02  | 861029 | 18.52          | 63             | 61    | 05           | 09    | 01                   | 4        | 345       | 1.85         |
| 02     | 03  | 861029 | 18.52          | 63             | 61    | 05           | 09    | 01                   | 4        | 345       | 2.16         |
| 03     | 01  | 861029 | 18.52          | 64             | 55    | 38           | 09    | 01                   | 4        | 320       | 3.70         |
| 04     | 01  | 861029 | 18.52          | 64             | 55    | 38           | 09    | 01                   | 4        | 320       | 0.00         |
| 04     | 02  | 861029 | 18.52          | 64             | 55    | 38           | 09    | 01                   | 4        | 320       | 0.31         |
| 01     | 01  | 861030 | 18.52          | 64             | 55    | 38           | 05    | 03                   | 4        | 320       | 6.17         |
| 01     | 02  | 861030 | 18.52          | 55             | 38    | 64           | 05    | 03                   | 5        | 320       | 1.85         |
| 01     | 03  | 861030 | 18.52          | 55             | 38    | 64           | 05    | 02                   | 5        | 320       | 4.32         |
| 01     | 04  | 861030 | 18.52          | 38             | 64    | 55           | 05    | 02                   | 5        | 320       | 3.40         |
| 01     | 05  | 861030 | 18.52          | 63             | 61    | 05           | 05    | 02                   | 5        | 320       | 7.41         |
| 01     | 06  | 861030 | 18.52          | 55             | 64    | 38           | 05    | 02                   | 5        | 320       | 6.17         |
| 01     | 07  | 861030 | 18.52          | 64             | 38    | 55           | 05    | 02                   | 4        | 320       | 6.48         |
| 01     | 08  | 861030 | 18.52          | 38             | 55    | 64           | 05    | 02                   | 4        | 320       | 1.23         |
| 01     | 09  | 861030 | 18.52          | 63             | 05    | 61           | 05    | 02                   | 4        | 320       | 4.63         |
| 02     | 01  | 861030 | 18.52          | 05             | 61    | 63           | 05    | 02                   | 4        | 320       | 4.32         |
| 02     | 02  | 861030 | 18.52          | 05             | 61    | 63           | 05    | 02                   | 4        | 320       | 1.85         |
| 02     | 03  | 861030 | 18.52          | 61             | 63    | 05           | 05    | 02                   | 5        | 320       | 6.17         |
| 02     | 04  | 861030 | 18.52          | 63             | 05    | 61           | 05    | 02                   | 5        | 320       | 6.17         |
| 02     | 05  | 861030 | 18.52          | 05             | 61    | 63           | 05    | 02                   | 5        | 320       | 6.17         |
| 02     | 06  | 861030 | 18.52          | 61             | 63    | 05           | 05    | 02                   | 5        | 320       | 4.94         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude        |              |
| 02     | 07  | 861030 | 18.52          | 55             | 64    | 38           | 06    | 01            | 5                | 320      |                  | 6.17         |
| 02     | 08  | 861030 | 18.52          | 64             | 38    | 55           | 06    | 01            | 5                | 320      |                  | 6.17         |
| 02     | 09  | 861030 | 18.52          | 38             | 55    | 64           | 06    | 01            | 5                | 320      |                  | 6.17         |
| 02     | 10  | 861030 | 18.52          | 55             | 64    | 38           | 12    | 12            | 5                | 320      |                  | 6.48         |
| 02     | 11  | 861030 | 18.52          | 63             | 61    | 05           | 12    | 12            | 5                | 320      |                  | 1.23         |
| 02     | 12  | 861030 | 18.52          | 63             | 61    | 05           | 12    | 12            | 5                | 320      |                  | 1.23         |
| 03     | 01  | 861030 | 18.52          | 64             | 38    | 55           | 12    | 12            | 5                | 320      | 13 10 N 149 41 W | 4.01         |
| 03     | 02  | 861030 | 18.52          | 05             | 61    | 63           | 12    | 12            | 5                | 320      |                  | 6.48         |
| 03     | 03  | 861030 | 18.52          | 61             | 63    | 05           | 12    | 12            | 5                | 320      |                  | 6.48         |
| 03     | 04  | 861030 | 18.52          | 63             | 05    | 61           | 09    | 01            | 5                | 320      |                  | 6.48         |
| 03     | 05  | 861030 | 18.52          | 05             | 61    | 63           | 09    | 01            | 5                | 320      |                  | 5.56         |
| 03     | 06  | 861030 | 18.52          | 05             | 61    | 63           | 09    | 01            | 5                | 320      |                  | 0.62         |
| 03     | 07  | 861030 | 18.52          | 61             | 63    | 05           | 09    | 01            | 5                | 320      |                  | 4.63         |
| 03     | 08  | 861030 | 18.52          | 61             | 63    | 05           | 09    | 01            | 5                | 320      |                  | 1.54         |
| 03     | 09  | 861030 | 18.52          | 63             | 05    | 61           | 09    | 01            | 5                | 320      |                  | 6.48         |
| 03     | 10  | 861030 | 18.52          | 38             | 55    | 64           | 09    | 01            | 5                | 320      |                  | 6.17         |
| 03     | 11  | 861030 | 18.52          | 55             | 64    | 38           | 09    | 01            | 5                | 320      |                  | 6.17         |
| 03     | 12  | 861030 | 18.52          | 64             | 38    | 55           | 09    | 01            | 5                | 320      |                  | 6.17         |
| 03     | 13  | 861030 | 18.52          | 38             | 55    | 64           | 09    | 01            | 5                | 320      |                  | 6.17         |
| 03     | 14  | 861030 | 18.52          | 55             | 64    | 38           | 09    | 01            | 5                | 320      |                  | 1.23         |
| 04     | 01  | 861030 | 18.52          | 55             | 64    | 38           | 09    | 01            | 5                | 320      | 13 45 N 150 10 W | 2.16         |
| 04     | 02  | 861030 | 18.52          | 63             | 61    | 05           | 09    | 01            | 5                | 320      |                  | 6.17         |
| 04     | 03  | 861030 | 18.52          | 61             | 05    | 63           | 09    | 01            | 5                | 320      |                  | 3.09         |
| 04     | 04  | 861030 | 18.52          | 64             | 38    | 55           | 09    | 01            | 4                | 320      |                  | 7.10         |
| 04     | 05  | 861030 | 18.52          | 63             | 05    | 61           | 09    | 01            | 4                | 320      |                  | 6.17         |
| 04     | 06  | 861030 | 18.52          | 05             | 61    | 63           | 09    | 01            | 4                | 320      |                  | 3.09         |
| 04     | 07  | 861030 | 18.52          | 05             | 61    | 63           | 09    | 01            | 4                | 320      | 13 56 N 150 21 W | 0.31         |
| 01     | 01  | 861031 | 18.52          | 63             | 61    | 05           | 05    | 03            | 5                | 320      | 14 57 N 151 19 W | 6.17         |
| 01     | 02  | 861031 | 18.52          | 61             | 05    | 63           |       |               | 5                | 320      |                  | 6.17         |
| 01     | 03  | 861031 | 18.52          | 05             | 63    | 61           |       |               | 5                | 320      |                  | 1.54         |
| 01     | 04  | 861031 | 18.52          | 55             | 64    | 38           |       |               | 5                | 320      |                  | 5.86         |
| 01     | 05  | 861031 | 18.52          | 05             | 63    | 61           |       |               | 4                | 320      |                  | 4.63         |
| 01     | 06  | 861031 | 18.52          | 63             | 61    | 05           |       |               | 4                | 320      |                  | 6.17         |
| 01     | 07  | 861031 | 18.52          | 61             | 05    | 63           |       |               | 4                | 320      | 15 12 N 151 33 W | 6.48         |
| 01     | 08  | 861031 | 18.52          | 64             | 38    | 55           | 05    | 02            | 4                | 320      |                  | 6.17         |
| 01     | 09  | 861031 | 18.52          | 38             | 55    | 64           | 05    | 02            | 4                | 320      |                  | 6.17         |
| 01     | 10  | 861031 | 18.52          | 55             | 64    | 38           | 05    | 02            | 4                | 320      |                  | 6.17         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 01     | 12  | 861101 | 18.52          | 05             | 61    | 55           | 05    | 01         | 6                | 323      |                  | 6.17         |
| 01     | 13  | 861101 | 18.52          | 61             | 55    | 05           | 05    | 01         | 6                | 323      |                  | 6.48         |
| 01     | 14  | 861101 | 18.52          | 55             | 05    | 61           | 05    | 01         | 6                | 323      |                  | 3.70         |
| 01     | 15  | 861101 | 18.52          | 55             | 05    | 61           | 06    | 01         | 6                | 326      |                  | 1.23         |
| 01     | 16  | 861101 | 18.52          | 63             | 38    | 64           | 06    | 01         | 6                | 326      |                  | 6.17         |
| 01     | 17  | 861101 | 18.52          | 38             | 64    | 63           | 06    | 01         | 6                | 326      |                  | 6.17         |
| 01     | 18  | 861101 | 18.52          | 64             | 63    | 38           | 06    | 01         | 6                | 326      |                  | 2.78         |
| 01     | 19  | 861101 | 18.52          | 64             | 63    | 38           | 06    | 01         | 6                | 326      |                  | 1.54         |
| 02     | 01  | 861101 | 18.52          | 63             | 38    | 64           | 12    | 12         | 5                | 326      | 18 00 N 153 58 W | 6.17         |
| 02     | 02  | 861101 | 18.52          | 38             | 64    | 63           | 12    | 12         | 5                | 326      |                  | 2.47         |
| 02     | 03  | 861101 | 18.52          | 55             | 61    | 05           | 12    | 12         | 5                | 326      |                  | 6.79         |
| 02     | 04  | 861101 | 18.52          | 61             | 05    | 55           | 08    | 12         | 5                | 326      |                  | 6.17         |
| 02     | 05  | 861101 | 18.52          | 05             | 55    | 61           | 08    | 12         | 5                | 326      |                  | 6.17         |
| 02     | 06  | 861101 | 18.52          | 55             | 61    | 05           | 08    | 12         | 5                | 326      |                  | 6.17         |
| 02     | 07  | 861101 | 18.52          | 61             | 05    | 55           | 08    | 12         | 5                | 326      |                  | 2.78         |
| 01     | 01  | 861113 | 18.52          | 38             | 61    | 55           |       |            | 3                | 117      | 10 59 N 139 36 W | 2.47         |
| 01     | 02  | 861113 | 18.52          | 38             | 61    | 55           |       |            | 3                | 147      |                  | 2.78         |
| 01     | 03  | 861113 | 18.52          | 38             | 61    | 55           | 10    | 03         | 3                | 147      |                  | 1.54         |
| 01     | 04  | 861113 | 18.52          | 61             | 55    | 38           | 10    | 03         | 3                | 147      |                  | 3.70         |
| 01     | 05  | 861113 | 18.52          | 05             | 64    | 63           | 10    | 03         | 3                | 147      |                  | 2.16         |
| 01     | 06  | 861113 | 18.52          | 05             | 64    | 63           |       |            | 3                | 147      |                  | 3.09         |
| 01     | 07  | 861113 | 18.52          | 61             | 55    | 38           |       |            | 3                | 147      |                  | 1.23         |
| 02     | 01  | 861113 | 18.52          | 61             | 55    | 38           |       |            | 3                | 147      |                  | 3.70         |
| 02     | 02  | 861113 | 18.52          | 55             | 38    | 61           |       |            | 3                | 147      |                  | 1.85         |
| 02     | 03  | 861113 | 18.52          | 55             | 38    | 61           | 11    | 02         | 3                | 147      |                  | 4.32         |
| 02     | 04  | 861113 | 18.52          | 38             | 61    | 55           | 11    | 02         | 3                | 147      |                  | 6.17         |
| 02     | 05  | 861113 | 18.52          | 61             | 55    | 38           | 11    | 02         | 3                | 147      |                  | 2.78         |
| 02     | 06  | 861113 | 18.52          | 64             | 63    | 05           | 11    | 02         | 3                | 147      | 10 42 N 139 23 W | 5.86         |
| 03     | 01  | 861113 | 18.52          | 63             | 05    | 64           | 11    | 02         | 3                | 147      | 10 37 N 139 23 W | 6.17         |
| 03     | 02  | 861113 | 18.52          | 05             | 64    | 63           | 11    | 02         | 3                | 147      |                  | 6.48         |
| 03     | 03  | 861113 | 18.52          | 64             | 63    | 05           | 11    | 01         | 3                | 147      |                  | 4.32         |
| 04     | 01  | 861113 | 18.52          | 63             | 05    | 64           |       |            | 3                | 147      | 10 28 N 139 17 W | 6.17         |
| 04     | 02  | 861113 | 18.52          | 61             | 38    | 55           | 11    | 01         | 3                | 147      |                  | 6.17         |
| 05     | 01  | 861113 | 18.52          | 38             | 55    | 61           |       |            | 3                | 147      | 10 21 N 139 11 W | 2.78         |
| 06     | 01  | 861113 | 18.52          | 38             | 55    | 61           | 12    | 12         | 3                | 147      | 10 19 N 139 08 W | 1.54         |
| 06     | 02  | 861113 | 18.52          | 63             | 64    | 05           | 12    | 12         | 2                | 147      |                  | 5.25         |
| 06     | 03  | 861113 | 18.52          | 55             | 61    | 38           | 12    | 12         | 2                | 147      |                  | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      | Latitude | Longitude |              |
| 06     | 04  | 861113 | 18.52          | 61             | 38    | 55           | 12    | 12                   | 2        | 147       | 3.09         |
| 06     | 05  | 861113 | 18.52          | 63             | 05    | 64           | 12    | 12                   | 3        | 147       | 6.17         |
| 06     | 06  | 861113 | 18.52          | 05             | 64    | 63           | 02    | 01                   | 3        | 147       | 6.48         |
| 06     | 07  | 861113 | 18.52          | 64             | 63    | 05           | 02    | 01                   | 3        | 147       | 2.78         |
| 07     | 01  | 861113 | 18.52          | 63             | 05    | 64           | 04    | 01                   | 3        | 105       | 4.63         |
| 07     | 02  | 861113 | 18.52          | 63             | 05    | 64           | 02    | 01                   | 3        | 147       | 1.54         |
| 07     | 03  | 861113 | 18.52          | 05             | 64    | 63           | 02    | 01                   | 3        | 147       | 1.23         |
| 07     | 04  | 861113 | 18.52          | 05             | 64    | 63           | 02    | 01                   | 3        | 147       | 1.85         |
| 08     | 01  | 861113 | 18.52          | 38             | 55    | 61           |       |                      | 3        | 147       | 6.17         |
| 08     | 02  | 861113 | 18.52          | 55             | 61    | 38           |       |                      | 4        | 147       | 6.17         |
| 08     | 03  | 861113 | 18.52          | 61             | 38    | 55           |       |                      | 4        | 147       | 6.17         |
| 08     | 04  | 861113 | 18.52          | 38             | 55    | 61           |       |                      | 4        | 147       | 2.78         |
| 08     | 05  | 861113 | 18.52          | 38             | 55    | 61           |       |                      | 4        | 147       | 0.93         |
| 08     | 06  | 861113 | 18.52          | 38             | 55    | 61           |       |                      | 4        | 147       | 1.23         |
| 09     | 01  | 861113 | 18.52          | 63             | 64    | 05           | 03    | 02                   | 4        | 147       | 6.17         |
| 09     | 02  | 861113 | 18.52          | 64             | 05    | 63           | 03    | 02                   | 4        | 147       | 1.54         |
| 01     | 01  | 861114 | 18.52          | 55             | 05    | 38           |       |                      | 2        | 100       | 7.10         |
| 01     | 02  | 861114 | 18.52          | 61             | 38    | 64           | 01    | 02                   | 2        | 100       | 6.17         |
| 01     | 03  | 861114 | 18.52          | 38             | 64    | 61           | 01    | 02                   | 2        | 100       | 6.17         |
| 01     | 04  | 861114 | 18.52          | 64             | 61    | 38           | 01    | 02                   | 2        | 100       | 6.17         |
| 01     | 05  | 861114 | 18.52          | 61             | 38    | 64           | 01    | 02                   | 2        | 100       | 6.17         |
| 01     | 06  | 861114 | 18.52          | 38             | 64    | 61           |       |                      | 2        | 100       | 1.85         |
| 01     | 07  | 861114 | 18.52          | 38             | 64    | 61           | 01    | 01                   | 2        | 100       | 4.32         |
| 01     | 08  | 861114 | 18.52          | 64             | 61    | 38           | 01    | 01                   | 3        | 100       | 6.17         |
| 01     | 09  | 861114 | 18.52          | 55             | 63    | 05           | 01    | 01                   | 3        | 100       | 6.17         |
| 01     | 10  | 861114 | 18.52          | 63             | 05    | 55           | 01    | 01                   | 3        | 100       | 6.17         |
| 01     | 11  | 861114 | 18.52          | 05             | 55    | 63           | 01    | 01                   | 3        | 100       | 3.09         |
| 01     | 12  | 861114 | 18.52          | 05             | 55    | 63           |       |                      | 3        | 100       | 3.09         |
| 01     | 13  | 861114 | 18.52          | 55             | 63    | 05           |       |                      | 3        | 100       | 3.09         |
| 01     | 14  | 861114 | 18.52          | 64             | 61    | 38           |       |                      | 3        | 100       | 6.48         |
| 01     | 15  | 861114 | 18.52          | 55             | 63    | 05           |       |                      | 3        | 100       | 3.40         |
| 01     | 16  | 861114 | 18.52          | 63             | 05    | 55           | 03    | 12                   | 3        | 100       | 2.47         |
| 01     | 17  | 861114 | 18.52          | 63             | 05    | 55           | 03    | 12                   | 4        | 100       | 3.40         |
| 01     | 18  | 861114 | 18.52          | 38             | 61    | 64           |       |                      | 4        | 100       | 6.17         |
| 01     | 19  | 861114 | 18.52          | 61             | 64    | 38           |       |                      | 4        | 100       | 3.09         |
| 01     | 20  | 861114 | 18.52          | 61             | 64    | 38           |       |                      | 4        | 042       | 2.16         |
| 01     | 21  | 861114 | 18.52          | 61             | 64    | 38           |       |                      | 4        | 042       | 0.93         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 02     | 01  | 861114 | 18.52          | 61             | 64    | 38           |       | 4          | 042              | 09 40 N  | 135 09 W  | 4.94         |
| 01     | 01  | 861115 | 18.52          | 64             | 38    | 61           |       | 4          | 042              | 11 17 N  | 133 39 W  | 6.17         |
| 01     | 02  | 861115 | 18.52          | 38             | 61    | 64           |       | 5          | 042              |          |           | 4.94         |
| 01     | 03  | 861115 | 18.52          | 05             | 63    | 55           |       | 5          | 042              |          |           | 6.79         |
| 01     | 04  | 861115 | 18.52          | 61             | 64    | 38           |       | 5          | 042              |          |           | 6.17         |
| 01     | 05  | 861115 | 18.52          | 64             | 38    | 61           |       | 5          | 042              |          |           | 6.17         |
| 01     | 06  | 861115 | 18.52          | 38             | 61    | 64           |       | 5          | 042              |          |           | 6.79         |
| 01     | 07  | 861115 | 18.52          | 55             | 63    | 05           |       | 5          | 042              |          |           | 6.17         |
| 01     | 08  | 861115 | 18.52          | 63             | 05    | 55           |       | 5          | 042              |          |           | 6.17         |
| 01     | 09  | 861115 | 18.52          | 05             | 55    | 63           |       | 5          | 042              |          |           | 6.17         |
| 01     | 10  | 861115 | 18.52          | 55             | 63    | 05           |       | 5          | 042              |          |           | 6.17         |
| 01     | 11  | 861115 | 18.52          | 63             | 05    | 55           |       | 5          | 042              |          |           | 4.63         |
| 01     | 12  | 861115 | 18.52          | 63             | 05    | 55           |       | 4          | 042              |          |           | 1.54         |
| 01     | 13  | 861115 | 18.52          | 05             | 55    | 63           |       | 4          | 042              |          |           | 1.23         |
| 02     | 01  | 861115 | 18.52          | 05             | 55    | 63           |       | 4          | 042              | 11 50 N  | 133 10 W  | 3.09         |
| 02     | 02  | 861115 | 18.52          | 64             | 61    | 38           |       | 4          | 042              |          |           | 6.17         |
| 02     | 03  | 861115 | 18.52          | 61             | 38    | 64           |       | 4          | 042              |          |           | 5.25         |
| 03     | 01  | 861115 | 18.52          | 63             | 55    | 05           |       | 4          | 042              | 11 59 N  | 133 02 W  | 5.56         |
| 03     | 02  | 861115 | 18.52          | 38             | 64    | 61           |       | 4          | 042              |          |           | 6.17         |
| 03     | 03  | 861115 | 18.52          | 64             | 61    | 38           |       | 3          | 042              |          |           | 4.63         |
| 03     | 04  | 861115 | 18.52          | 55             | 05    | 63           |       | 3          | 042              |          |           | 6.79         |
| 04     | 01  | 861115 | 18.52          | 05             | 63    | 55           |       | 3          | 042              | 12 10 N  | 132 50 W  | 6.48         |
| 04     | 02  | 861115 | 18.52          | 63             | 55    | 05           |       | 2          | 042              |          |           | 6.17         |
| 04     | 03  | 861115 | 18.52          | 05             | 55    | 63           |       | 2          | 042              |          |           | 6.17         |
| 04     | 04  | 861115 | 18.52          | 05             | 63    | 55           | 06    | 1          | 042              |          |           | 3.40         |
| 04     | 05  | 861115 | 18.52          | 38             | 64    | 61           |       | 1          | 042              |          |           | 6.17         |
| 04     | 06  | 861115 | 18.52          | 64             | 61    | 38           |       | 1          | 042              | 12 22 N  | 132 40 W  | 6.17         |
| 04     | 07  | 861115 | 18.52          | 61             | 38    | 64           |       | 2          | 042              |          |           | 6.17         |
| 04     | 08  | 861115 | 18.52          | 38             | 64    | 61           | 07    | 2          | 042              |          |           | 5.56         |
| 05     | 01  | 861115 | 18.52          | 05             | 63    | 55           | 07    | 2          | 042              | 12 30 N  | 132 23 W  | 6.17         |
| 05     | 02  | 861115 | 18.52          | 63             | 55    | 05           | 02    | 2          | 042              |          |           | 3.40         |
| 01     | 01  | 861116 | 18.52          | 05             | 63    | 55           |       | 3          | 042              | 13 37 N  | 131 29 W  | 6.48         |
| 01     | 02  | 861116 | 18.52          | 63             | 55    | 05           |       | 3          | 042              |          |           | 6.17         |
| 01     | 03  | 861116 | 18.52          | 55             | 05    | 63           |       | 3          | 042              |          |           | 3.09         |
| 01     | 04  | 861116 | 18.52          | 38             | 61    | 64           |       | 3          | 042              |          |           | 6.17         |
| 01     | 05  | 861116 | 18.52          | 55             | 05    | 63           |       | 3          | 042              |          |           | 3.09         |
| 01     | 06  | 861116 | 18.52          | 05             | 63    | 55           |       | 3          | 042              |          |           | 6.48         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position<br>Horz. Vert. | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|-----------------------------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right |                             |            |                  | Latitude | Longitude |              |
| 02     | 01  | 861116 | 18.52          | 63             | 55    | 05                          | 3          | 042              | 13 51 N  | 131 16 W  | 1.23         |
| 02     | 02  | 861116 | 18.52          | 61             | 64    | 38                          | 2          | 042              |          |           | 4.32         |
| 03     | 01  | 861116 | 18.52          | 61             | 64    | 38                          | 2          | 042              | 13 59 N  | 131 09 W  | 4.94         |
| 04     | 01  | 861116 | 18.52          | 64             | 38    | 61                          | 2          | 037              | 14 20 N  | 130 49 W  | 6.17         |
| 04     | 02  | 861116 | 18.52          | 38             | 61    | 64                          | 2          | 037              |          |           | 6.17         |
| 04     | 03  | 861116 | 18.52          | 61             | 64    | 38                          | 3          | 037              |          |           | 6.17         |
| 04     | 04  | 861116 | 18.52          | 64             | 38    | 61                          | 3          | 037              |          |           | 6.17         |
| 04     | 05  | 861116 | 18.52          | 38             | 61    | 64                          | 3          | 037              |          |           | 6.17         |
| 04     | 06  | 861116 | 18.52          | 61             | 64    | 38                          | 3          | 037              |          |           | 2.16         |
| 04     | 07  | 861116 | 18.52          | 55             | 63    | 05                          | 3          | 037              |          |           | 6.17         |
| 04     | 08  | 861116 | 18.52          | 63             | 05    | 55                          | 3          | 037              |          |           | 6.17         |
| 04     | 09  | 861116 | 18.52          | 05             | 55    | 63                          | 3          | 037              |          |           | 3.70         |
| 04     | 10  | 861116 | 18.52          | 05             | 55    | 63                          | 3          | 116              |          |           | 2.47         |
| 04     | 11  | 861116 | 18.52          | 55             | 63    | 05                          | 3          | 116              | 14 39 N  | 130 32 W  | 6.17         |
| 04     | 12  | 861116 | 18.52          | 63             | 05    | 55                          | 3          | 116              | 14 37 N  | 130 25 W  | 1.85         |
| 05     | 01  | 861116 | 18.52          | 63             | 05    | 55                          | 3          | 116              |          |           | 1.54         |
| 05     | 02  | 861116 | 18.52          | 64             | 61    | 38                          | 3          | 116              |          |           | 9.26         |
| 05     | 03  | 861116 | 18.52          | 61             | 38    | 64                          | 3          | 116              |          |           | 6.79         |
| 05     | 04  | 861116 | 18.52          | 63             | 55    | 05                          | 3          | 116              |          |           | 4.63         |
| 05     | 05  | 861116 | 18.52          | 64             | 61    | 38                          | 3          | 116              |          |           | 1.23         |
| 05     | 06  | 861116 | 18.52          | 64             | 61    | 38                          | 3          | 116              | 14 31 N  | 130 13 W  | 0.31         |
| 01     | 01  | 861117 | 18.52          | 38             | 61    | 63                          | 3          | 116              |          |           | 5.25         |
| 01     | 02  | 861117 | 18.52          | 38             | 61    | 63                          | 3          | 116              |          |           | 0.93         |
| 01     | 03  | 861117 | 18.52          | 61             | 63    | 38                          | 3          | 116              |          |           | 6.17         |
| 01     | 04  | 861117 | 18.52          | 63             | 38    | 61                          | 3          | 116              |          |           | 1.85         |
| 01     | 05  | 861117 | 18.52          | 63             | 38    | 61                          | 3          | 116              |          |           | 2.16         |
| 01     | 06  | 861117 | 18.52          | 63             | 38    | 61                          | 3          | 116              |          |           | 2.16         |
| 01     | 07  | 861117 | 18.52          | 38             | 61    | 63                          | 3          | 116              |          |           | 5.56         |
| 01     | 08  | 861117 | 18.52          | 55             | 64    | 05                          | 3          | 116              |          |           | 0.31         |
| 02     | 01  | 861117 | 18.52          | 38             | 61    | 63                          | 3          | 116              | 13 41 N  | 128 50 W  | 6.17         |
| 02     | 02  | 861117 | 18.52          | 61             | 63    | 38                          | 3          | 116              | 13 42 N  | 128 48 W  | 2.16         |
| 02     | 03  | 861117 | 18.52          | 64             | 05    | 55                          | 3          | 116              |          |           | 6.17         |
| 02     | 04  | 861117 | 18.52          | 05             | 55    | 64                          | 3          | 116              |          |           | 5.86         |
| 02     | 05  | 861117 | 18.52          | 55             | 64    | 05                          | 3          | 116              |          |           | 6.17         |
| 02     | 06  | 861117 | 18.52          | 64             | 05    | 55                          | 3          | 116              |          |           | 5.25         |
| 02     | 07  | 861117 | 18.52          | 64             | 05    | 55                          | 3          | 116              |          |           | 1.54         |
| 02     | 08  | 861117 | 18.52          | 05             | 55    | 64                          | 3          | 116              |          |           | 6.17         |
|        |     |        |                |                |       |                             |            |                  | 11       | 01        |              |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. (Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|-----------------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                             | Latitude | Longitude |              |
| 02     | 09  | 861117 | 18.52          | 55             | 64    | 05           | 11    | 01                          | 3        | 116       | 5.86         |
| 02     | 10  | 861117 | 18.52          | 63             | 38    | 61           |       |                             | 3        | 116       | 6.79         |
| 02     | 11  | 861117 | 18.52          | 38             | 61    | 63           | 01    | 01                          | 3        | 116       | 5.56         |
| 03     | 01  | 861117 | 18.52          | 61             | 63    | 38           | 02    | 01                          | 3        | 116       | 6.79         |
| 03     | 02  | 861117 | 18.52          | 63             | 38    | 61           | 02    | 01                          | 3        | 116       | 6.17         |
| 03     | 03  | 861117 | 18.52          | 38             | 61    | 63           | 02    | 01                          | 3        | 116       | 3.70         |
| 03     | 04  | 861117 | 18.52          | 05             | 64    | 55           | 03    | 12                          | 3        | 116       | 6.17         |
| 03     | 05  | 861117 | 18.52          | 64             | 55    | 05           | 03    | 12                          | 3        | 116       | 6.17         |
| 03     | 06  | 861117 | 18.52          | 55             | 05    | 64           | 03    | 12                          | 3        | 116       | 6.17         |
| 03     | 07  | 861117 | 18.52          | 05             | 64    | 55           |       |                             | 3        | 116       | 6.17         |
| 03     | 08  | 861117 | 18.52          | 64             | 55    | 05           |       |                             | 3        | 116       | 6.17         |
| 03     | 09  | 861117 | 18.52          | 55             | 05    | 64           |       |                             | 3        | 116       | 7.41         |
| 03     | 10  | 861117 | 18.52          | 63             | 61    | 38           |       |                             | 3        | 116       | 6.17         |
| 03     | 11  | 861117 | 18.52          | 61             | 38    | 63           |       |                             | 3        | 116       | 6.17         |
| 03     | 12  | 861117 | 18.52          | 38             | 63    | 61           |       |                             | 3        | 116       | 0.93         |
| 03     | 13  | 861117 | 18.52          | 38             | 63    | 61           |       |                             | 3        | 116       | 5.25         |
| 03     | 14  | 861117 | 18.52          | 63             | 61    | 38           | 12    | 03                          | 3        | 116       | 6.17         |
| 03     | 15  | 861117 | 18.52          | 61             | 38    | 63           |       |                             | 3        | 116       | 2.47         |
| 04     | 01  | 861117 | 18.52          | 55             | 64    | 05           | 12    | 03                          | 4        | 116       | 4.94         |
| 05     | 01  | 861117 | 18.52          | 61             | 63    | 38           | 12    | 03                          | 3        | 116       | 5.86         |
| 05     | 02  | 861117 | 18.52          | 61             | 63    | 38           |       |                             | 3        | 116       | 0.31         |
| 01     | 01  | 861118 | 18.52          | 55             | 64    | 05           | 12    | 03                          | 4        | 116       | 3.09         |
| 01     | 02  | 861118 | 18.52          | 61             | 63    | 38           |       |                             | 5        | 116       | 6.17         |
| 01     | 03  | 861118 | 18.52          | 64             | 05    | 55           | 12    | 03                          | 5        | 116       | 1.54         |
| 01     | 04  | 861118 | 18.52          | 64             | 05    | 55           | 12    | 03                          | 5        | 116       | 4.63         |
| 01     | 05  | 861118 | 18.52          | 05             | 55    | 64           | 12    | 03                          | 5        | 116       | 6.17         |
| 01     | 06  | 861118 | 18.52          | 55             | 64    | 05           | 12    | 02                          | 5        | 116       | 6.17         |
| 01     | 07  | 861118 | 18.52          | 64             | 05    | 55           | 12    | 02                          | 5        | 116       | 6.17         |
| 01     | 08  | 861118 | 18.52          | 05             | 55    | 64           | 12    | 02                          | 5        | 116       | 3.09         |
| 01     | 09  | 861118 | 18.52          | 63             | 38    | 61           |       |                             | 5        | 116       | 1.54         |
| 01     | 10  | 861118 | 18.52          | 63             | 38    | 61           | 12    | 02                          | 5        | 116       | 2.78         |
| 02     | 01  | 861118 | 18.52          | 38             | 61    | 63           | 12    | 02                          | 5        | 116       | 6.17         |
| 02     | 02  | 861118 | 18.52          | 61             | 63    | 38           | 12    | 01                          | 6        | 116       | 6.17         |
| 02     | 03  | 861118 | 18.52          | 63             | 38    | 61           | 12    | 01                          | 6        | 116       | 6.17         |
| 02     | 04  | 861118 | 18.52          | 38             | 61    | 63           | 12    | 01                          | 6        | 116       | 4.63         |
| 02     | 05  | 861118 | 18.52          | 38             | 61    | 63           | 12    | 01                          | 6        | 116       | 0.31         |
| 01     | 01  | 861121 | 17.04          | 55             | 64    | 38           | 12    | 01                          | 6        | 113       | 5.68         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 02     | 09  | 861117 | 18.52          | 55             | 64    | 05           | 11    | 01         | 3                | 116      |                  | 5.86         |
| 02     | 10  | 861117 | 18.52          | 63             | 38    | 61           |       |            | 3                | 116      |                  | 6.79         |
| 02     | 11  | 861117 | 18.52          | 38             | 61    | 63           | 01    | 01         | 3                | 116      |                  | 5.56         |
| 03     | 01  | 861117 | 18.52          | 61             | 63    | 38           | 02    | 01         | 3                | 116      | 13 29 N 128 19 W | 6.79         |
| 03     | 02  | 861117 | 18.52          | 63             | 38    | 61           | 02    | 01         | 3                | 116      |                  | 6.17         |
| 03     | 03  | 861117 | 18.52          | 38             | 61    | 63           | 02    | 01         | 3                | 116      |                  | 3.70         |
| 03     | 04  | 861117 | 18.52          | 05             | 64    | 55           | 03    | 12         | 3                | 116      |                  | 6.17         |
| 03     | 05  | 861117 | 18.52          | 64             | 55    | 05           | 03    | 12         | 3                | 116      |                  | 6.17         |
| 03     | 06  | 861117 | 18.52          | 55             | 05    | 64           | 03    | 12         | 3                | 116      |                  | 6.17         |
| 03     | 07  | 861117 | 18.52          | 05             | 64    | 55           |       |            | 3                | 116      |                  | 6.17         |
| 03     | 08  | 861117 | 18.52          | 64             | 55    | 05           |       |            | 3                | 116      |                  | 6.17         |
| 03     | 09  | 861117 | 18.52          | 55             | 05    | 64           |       |            | 3                | 116      |                  | 7.41         |
| 03     | 10  | 861117 | 18.52          | 63             | 61    | 38           |       |            | 3                | 116      |                  | 6.17         |
| 03     | 11  | 861117 | 18.52          | 61             | 38    | 63           |       |            | 3                | 116      |                  | 6.17         |
| 03     | 12  | 861117 | 18.52          | 38             | 63    | 61           |       |            | 3                | 116      |                  | 0.93         |
| 03     | 13  | 861117 | 18.52          | 38             | 63    | 61           |       |            | 3                | 116      | 13 12 N 127 47 W | 5.25         |
| 03     | 14  | 861117 | 18.52          | 63             | 61    | 38           |       |            | 3                | 116      |                  | 6.17         |
| 03     | 15  | 861117 | 18.52          | 61             | 38    | 63           |       |            | 3                | 116      |                  | 2.47         |
| 04     | 01  | 861117 | 18.52          | 55             | 64    | 05           |       |            | 4                | 116      | 13 06 N 127 36 W | 4.94         |
| 05     | 01  | 861117 | 18.52          | 61             | 63    | 38           |       |            | 3                | 116      | 13 03 N 127 35 W | 5.86         |
| 05     | 02  | 861117 | 18.52          | 61             | 63    | 38           |       |            | 3                | 116      | 13 02 N 127 33 W | 0.31         |
| 01     | 01  | 861118 | 18.52          | 55             | 64    | 05           | 12    | 03         | 4                | 116      | 12 26 N 126 16 W | 3.09         |
| 01     | 02  | 861118 | 18.52          | 61             | 63    | 38           |       |            | 5                | 116      |                  | 6.17         |
| 01     | 03  | 861118 | 18.52          | 64             | 05    | 55           | 12    | 03         | 5                | 116      |                  | 1.54         |
| 01     | 04  | 861118 | 18.52          | 64             | 05    | 55           | 12    | 03         | 5                | 116      |                  | 4.63         |
| 01     | 05  | 861118 | 18.52          | 05             | 55    | 64           | 12    | 03         | 5                | 116      |                  | 6.17         |
| 01     | 06  | 861118 | 18.52          | 55             | 64    | 05           | 12    | 02         | 5                | 116      |                  | 6.17         |
| 01     | 07  | 861118 | 18.52          | 64             | 05    | 55           | 12    | 02         | 5                | 116      |                  | 6.17         |
| 01     | 08  | 861118 | 18.52          | 05             | 55    | 64           | 12    | 02         | 5                | 116      |                  | 3.09         |
| 01     | 09  | 861118 | 18.52          | 63             | 38    | 61           |       |            | 5                | 116      |                  | 1.54         |
| 01     | 10  | 861118 | 18.52          | 63             | 38    | 61           | 12    | 02         | 5                | 116      | 12 16 N 125 55 W | 2.78         |
| 02     | 01  | 861118 | 18.52          | 38             | 61    | 63           | 12    | 02         | 5                | 116      |                  | 6.17         |
| 02     | 02  | 861118 | 18.52          | 61             | 63    | 38           | 12    | 01         | 6                | 116      |                  | 6.17         |
| 02     | 03  | 861118 | 18.52          | 63             | 38    | 61           | 12    | 01         | 6                | 116      |                  | 6.17         |
| 02     | 04  | 861118 | 18.52          | 38             | 61    | 63           | 12    | 01         | 6                | 116      |                  | 4.63         |
| 02     | 05  | 861118 | 18.52          | 38             | 61    | 63           | 12    | 01         | 6                | 116      | 12 10 N 125 44 W | 0.31         |
| 01     | 01  | 861121 | 17.04          | 55             | 64    | 38           | 12    | 01         | 6                | 113      | 08 02 N 116 52 W | 5.68         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 01     | 02  | 861121 | 17.04          | 64             | 38    | 55           |       |               | 113              |          |           | 5.40         |
| 01     | 03  | 861121 | 17.04          | 63             | 61    | 05           | 12    | 03            |                  |          |           | 4.83         |
| 01     | 04  | 861121 | 17.04          | 63             | 61    | 05           |       |               |                  |          |           | 0.57         |
| 01     | 05  | 861121 | 17.04          | 38             | 55    | 64           |       |               |                  |          |           | 4.54         |
| 02     | 01  | 861121 | 17.04          | 55             | 64    | 38           | 12    | 02            |                  | 07 55 N  | 116 38 W  | 6.53         |
| 02     | 02  | 861121 | 17.04          | 05             | 61    | 63           | 12    | 02            |                  |          |           | 5.68         |
| 02     | 03  | 861121 | 17.59          | 61             | 63    | 05           | 12    | 02            |                  |          |           | 6.45         |
| 02     | 04  | 861121 | 17.59          | 63             | 05    | 61           | 12    | 01            |                  |          |           | 5.86         |
| 02     | 05  | 861121 | 17.59          | 05             | 61    | 63           | 12    | 01            |                  |          |           | 3.81         |
| 02     | 06  | 861121 | 17.59          | 05             | 61    | 63           | 12    | 01            |                  |          |           | 1.47         |
| 02     | 07  | 861121 | 17.59          | 05             | 61    | 63           |       |               |                  |          |           | 0.59         |
| 02     | 08  | 861121 | 17.59          | 61             | 63    | 05           |       |               |                  |          |           | 1.17         |
| 03     | 01  | 861121 | 17.59          | 64             | 38    | 55           | 01    | 01            |                  | 07 46 N  | 116 18 W  | 5.86         |
| 03     | 02  | 861121 | 17.59          | 38             | 55    | 64           | 01    | 01            |                  |          |           | 7.04         |
| 03     | 03  | 861121 | 17.59          | 55             | 64    | 38           | 01    | 01            |                  |          |           | 1.17         |
| 04     | 01  | 861121 | 17.59          | 61             | 63    | 05           | 01    | 12            |                  | 07 47 N  | 116 11 W  | 5.57         |
| 04     | 02  | 861121 | 17.59          | 64             | 38    | 55           | 02    | 12            |                  |          |           | 4.98         |
| 04     | 03  | 861121 | 17.59          | 61             | 05    | 63           | 02    | 12            |                  |          |           | 4.11         |
| 04     | 04  | 861121 | 17.59          | 61             | 05    | 63           | 02    | 12            |                  |          |           | 1.76         |
| 04     | 05  | 861121 | 17.59          | 05             | 63    | 61           | 03    | 12            |                  |          |           | 1.76         |
| 04     | 06  | 861121 | 17.59          | 05             | 63    | 61           |       |               |                  |          |           | 1.76         |
| 04     | 07  | 861121 | 17.59          | 05             | 63    | 61           | 03    | 12            |                  |          |           | 1.76         |
| 04     | 08  | 861121 | 17.59          | 05             | 63    | 61           | 03    | 12            |                  |          |           | 1.17         |
| 04     | 09  | 861121 | 17.59          | 63             | 61    | 05           | 03    | 12            |                  |          |           | 6.16         |
| 04     | 10  | 861121 | 17.59          | 61             | 05    | 63           | 03    | 01            |                  |          |           | 5.86         |
| 04     | 11  | 861121 | 17.59          | 05             | 63    | 61           | 03    | 01            |                  |          |           | 5.86         |
| 04     | 12  | 861121 | 17.59          | 63             | 61    | 05           | 03    | 01            |                  |          |           | 4.98         |
| 04     | 13  | 861121 | 17.59          | 55             | 38    | 64           | 04    | 01            |                  |          |           | 5.86         |
| 04     | 14  | 861121 | 17.59          | 38             | 64    | 55           | 04    | 01            |                  |          |           | 2.93         |
| 04     | 15  | 861121 | 17.59          | 38             | 64    | 55           | 04    | 01            |                  |          |           | 1.17         |
| 05     | 01  | 861121 | 17.59          | 64             | 55    | 38           | 04    | 01            |                  | 07 34 N  | 115 42 W  | 5.86         |
| 05     | 02  | 861121 | 17.59          | 55             | 38    | 64           | 04    | 02            |                  |          |           | 5.86         |
| 05     | 03  | 861121 | 17.59          | 38             | 64    | 55           | 04    | 02            |                  |          |           | 5.86         |
| 05     | 04  | 861121 | 17.59          | 64             | 55    | 38           |       |               |                  |          |           | 2.93         |
| 05     | 05  | 861121 | 17.59          | 63             | 61    | 05           | 04    | 02            |                  |          |           | 5.86         |
| 05     | 06  | 861121 | 17.59          | 61             | 05    | 63           | 04    | 02            |                  |          |           | 2.93         |
| 05     | 07  | 861121 | 17.59          | 55             | 38    | 64           | 04    | 02            |                  |          |           | 6.45         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Position |           | KM<br>In Leg |      |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|----------|-----------|--------------|------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      | Latitude | Longitude |              |      |
| 06     | 01  | 861121 | 17.59          | 63             | 05    | 61           |       | 3                    | 113      | 07 26 N   | 115 22 W     | 3.52 |
| 01     | 01  | 861122 | 0.00           | 63             | 61    | 05           |       | 6                    | 117      | 06 56 N   | 113 46 W     | 0.00 |
| 01     | 02  | 861122 | 0.00           | 55             | 64    | 38           |       | 6                    | 117      |           |              | 0.00 |
| 01     | 01  | 861123 | 17.78          | 63             | 64    | 38           |       | 5                    | 117      | 05 28 N   | 111 00 W     | 5.93 |
| 01     | 02  | 861123 | 17.78          | 64             | 38    | 63           |       | 5                    | 117      |           |              | 5.93 |
| 01     | 03  | 861123 | 17.78          | 38             | 63    | 64           |       | 5                    | 117      |           |              | 5.93 |
| 01     | 04  | 861123 | 17.78          | 63             | 64    | 38           |       | 5                    | 117      |           |              | 5.93 |
| 01     | 05  | 861123 | 17.78          | 64             | 38    | 63           |       | 5                    | 117      |           |              | 1.48 |
| 01     | 06  | 861123 | 17.78          | 05             | 61    | 55           |       | 5                    | 117      |           |              | 5.93 |
| 01     | 07  | 861123 | 17.78          | 64             | 38    | 63           |       | 5                    | 117      |           |              | 4.74 |
| 01     | 08  | 861123 | 17.78          | 61             | 55    | 05           |       | 5                    | 117      |           |              | 5.93 |
| 01     | 09  | 861123 | 17.78          | 55             | 05    | 61           |       | 5                    | 117      |           |              | 5.93 |
| 01     | 10  | 861123 | 17.78          | 05             | 61    | 55           |       | 5                    | 117      |           |              | 5.93 |
| 01     | 11  | 861123 | 17.78          | 61             | 55    | 05           |       | 5                    | 117      |           |              | 5.93 |
| 01     | 12  | 861123 | 17.78          | 55             | 05    | 61           | 12    | 01                   | 117      |           |              | 6.22 |
| 01     | 13  | 861123 | 17.78          | 05             | 61    | 55           | 12    | 01                   | 117      |           |              | 0.89 |
| 01     | 14  | 861123 | 17.78          | 05             | 61    | 55           | 12    | 01                   | 123      |           |              | 5.04 |
| 01     | 15  | 861123 | 17.78          | 38             | 63    | 64           | 12    | 01                   | 123      |           |              | 5.93 |
| 01     | 16  | 861123 | 17.78          | 63             | 64    | 38           | 12    | 12                   | 123      |           |              | 4.74 |
| 01     | 17  | 861123 | 17.78          | 63             | 64    | 38           | 12    | 12                   | 123      |           |              | 1.19 |
| 01     | 18  | 861123 | 17.78          | 64             | 38    | 63           |       | 5                    | 123      |           |              | 5.33 |
| 01     | 19  | 861123 | 17.78          | 64             | 38    | 63           | 12    | 12                   | 123      |           |              | 0.59 |
| 01     | 20  | 861123 | 17.78          | 38             | 63    | 64           | 12    | 12                   | 123      |           |              | 5.93 |
| 01     | 21  | 861123 | 17.78          | 63             | 64    | 38           | 12    | 12                   | 123      |           |              | 5.93 |
| 01     | 22  | 861123 | 17.78          | 64             | 38    | 63           | 12    | 12                   | 123      |           |              | 5.04 |
| 01     | 23  | 861123 | 17.78          | 64             | 38    | 63           | 12    | 12                   | 123      | 05 02 N   | 110 02 W     | 0.30 |
| 02     | 01  | 861123 | 19.45          | 38             | 63    | 64           | 04    | 02                   | 123      | 05 01 N   | 110 00 W     | 6.48 |
| 02     | 02  | 861123 | 19.45          | 63             | 64    | 38           | 04    | 02                   | 123      |           |              | 6.48 |
| 02     | 03  | 861123 | 19.45          | 64             | 38    | 63           | 04    | 02                   | 123      |           |              | 3.24 |
| 02     | 04  | 861123 | 19.45          | 55             | 61    | 05           | 04    | 02                   | 123      |           |              | 6.48 |
| 02     | 05  | 861123 | 19.45          | 61             | 05    | 55           | 04    | 02                   | 123      |           |              | 6.48 |
| 02     | 06  | 861123 | 19.45          | 05             | 55    | 61           | 04    | 02                   | 123      |           |              | 4.54 |
| 01     | 01  | 861124 | 18.89          | 05             | 61    | 55           | 04    | 02                   | 123      | 04 00 N   | 108 27 W     | 6.30 |
| 01     | 02  | 861124 | 18.89          | 61             | 55    | 05           |       | 5                    | 037      |           |              | 6.30 |
| 01     | 03  | 861124 | 18.89          | 55             | 05    | 61           |       | 5                    | 037      |           |              | 6.30 |
| 01     | 04  | 861124 | 18.89          | 05             | 61    | 55           |       | 5                    | 037      |           |              | 6.30 |
| 01     | 05  | 861124 | 18.89          | 61             | 55    | 05           |       | 5                    | 037      |           |              | 6.30 |

Table 2. (continued)

| Series | Leg | Date   | Speed |      | Observer Codes |       | Sun Position |       | Beauf. No. | Course (Deg.) | Position |                  | KM In Leg |
|--------|-----|--------|-------|------|----------------|-------|--------------|-------|------------|---------------|----------|------------------|-----------|
|        |     |        | Km/Hr | Date | Left           | Right | Rec.         | Horz. |            |               | Vert.    | Latitude         |           |
| 01     | 06  | 861124 | 18.89 |      | 55             | 05    | 61           |       |            | 5             | 037      |                  | 6.30      |
| 01     | 07  | 861124 | 18.89 |      | 63             | 64    | 38           |       |            | 5             | 037      |                  | 6.30      |
| 01     | 08  | 861124 | 18.89 |      | 64             | 38    | 63           |       |            | 5             | 037      |                  | 3.46      |
| 01     | 09  | 861124 | 18.89 |      | 64             | 38    | 63           | 02    |            | 5             | 037      |                  | 3.15      |
| 01     | 10  | 861124 | 18.89 |      | 38             | 63    | 64           | 02    |            | 5             | 037      |                  | 6.30      |
| 01     | 11  | 861124 | 18.89 |      | 63             | 64    | 38           | 02    |            | 5             | 037      |                  | 6.30      |
| 01     | 12  | 861124 | 18.89 |      | 64             | 38    | 63           | 01    |            | 5             | 037      | 04 23 N 108 06 W | 3.15      |
| 01     | 13  | 861124 | 18.89 |      | 64             | 38    | 63           |       |            | 5             | 037      |                  | 3.15      |
| 01     | 14  | 861124 | 18.89 |      | 38             | 63    | 64           |       |            | 5             | 037      |                  | 5.98      |
| 01     | 15  | 861124 | 18.89 |      | 55             | 61    | 05           | 01    |            | 5             | 037      |                  | 6.93      |
| 01     | 16  | 861124 | 18.89 |      | 61             | 05    | 55           | 01    |            | 5             | 037      |                  | 6.93      |
| 01     | 17  | 861124 | 18.89 |      | 05             | 55    | 61           | 01    |            | 5             | 037      |                  | 6.30      |
| 01     | 18  | 861124 | 18.89 |      | 55             | 61    | 05           | 01    |            | 5             | 037      |                  | 6.30      |
| 01     | 19  | 861124 | 18.89 |      | 61             | 05    | 55           | 12    |            | 5             | 037      |                  | 6.93      |
| 01     | 20  | 861124 | 18.89 |      | 05             | 55    | 61           | 12    |            | 5             | 037      |                  | 3.46      |
| 01     | 21  | 861124 | 18.89 |      | 05             | 55    | 61           | 12    |            | 5             | 304      |                  | 0.94      |
| 01     | 22  | 861124 | 18.89 |      | 64             | 38    | 63           | 12    |            | 5             | 304      |                  | 6.30      |
| 01     | 23  | 861124 | 18.89 |      | 38             | 63    | 64           | 12    |            | 5             | 304      |                  | 0.94      |
| 01     | 24  | 861124 | 18.89 |      | 55             | 61    | 05           | 12    |            | 5             | 304      |                  | 5.98      |
| 01     | 25  | 861124 | 18.89 |      | 63             | 64    | 38           | 12    |            | 5             | 304      |                  | 6.30      |
| 01     | 26  | 861124 | 18.89 |      | 64             | 38    | 63           |       |            | 5             | 304      |                  | 2.52      |
| 01     | 27  | 861124 | 18.89 |      | 64             | 38    | 63           | 09    |            | 5             | 304      |                  | 3.78      |
| 01     | 28  | 861124 | 18.89 |      | 38             | 63    | 64           | 09    |            | 5             | 304      |                  | 6.30      |
| 01     | 29  | 861124 | 18.89 |      | 63             | 64    | 38           | 09    |            | 5             | 304      |                  | 5.98      |
| 01     | 30  | 861124 | 18.89 |      | 05             | 61    | 55           | 09    |            | 5             | 304      |                  | 6.93      |
| 02     | 01  | 861124 | 18.52 |      | 61             | 55    | 05           | 10    |            | 5             | 304      | 05 01 N 108 03 W | 6.17      |
| 02     | 02  | 861124 | 18.52 |      | 55             | 05    | 61           | 10    |            | 5             | 304      |                  | 6.17      |
| 02     | 03  | 861124 | 18.52 |      | 05             | 61    | 55           | 10    |            | 5             | 304      |                  | 4.94      |
| 03     | 01  | 861124 | 18.71 |      | 38             | 63    | 64           | 10    |            | 5             | 301      | 05 09 N 108 10 W | 6.24      |
| 03     | 02  | 861124 | 18.71 |      | 55             | 61    | 05           | 10    |            | 5             | 301      |                  | 4.99      |
| 03     | 03  | 861124 | 18.71 |      | 63             | 64    | 38           | 10    |            | 5             | 301      |                  | 6.24      |
| 03     | 04  | 861124 | 18.71 |      | 63             | 64    | 38           | 10    |            | 5             | 301      | 05 14 N 108 16 W | 0.31      |
| 01     | 01  | 861125 | 18.52 |      | 64             | 63    | 38           |       |            | 5             | 299      | 05 40 N 108 59 W | 6.17      |
| 01     | 02  | 861125 | 18.52 |      | 63             | 38    | 64           | 06    |            | 5             | 299      |                  | 6.17      |
| 01     | 03  | 861125 | 18.52 |      | 38             | 64    | 63           | 06    |            | 5             | 299      |                  | 6.17      |
| 01     | 04  | 861125 | 18.52 |      | 64             | 63    | 38           | 06    |            | 5             | 299      |                  | 6.17      |
| 01     | 05  | 861125 | 18.52 |      | 63             | 38    | 64           | 06    |            | 5             | 299      | 05 46 N 109 09 W | 0.31      |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude        |              |
| 02     | 01  | 861125 | 18.52          | 63             | 38    | 64           | 06    | 02            | 5                | 299      | 05 47 N 109 10 W | 2.16         |
| 02     | 02  | 861125 | 18.52          | 38             | 64    | 63           | 06    | 02            | 5                | 299      |                  | 1.85         |
| 02     | 03  | 861125 | 18.52          | 55             | 61    | 05           |       |               | 5                | 299      |                  | 6.17         |
| 02     | 04  | 861125 | 18.52          | 61             | 05    | 55           | 06    | 02            | 5                | 299      |                  | 6.17         |
| 02     | 05  | 861125 | 18.52          | 05             | 55    | 61           | 06    | 02            | 6                | 299      |                  | 6.17         |
| 02     | 06  | 861125 | 18.52          | 55             | 61    | 05           | 06    | 02            | 6                | 299      |                  | 6.48         |
| 02     | 07  | 861125 | 18.52          | 61             | 05    | 55           | 06    | 01            | 6                | 299      |                  | 1.23         |
| 03     | 01  | 861125 | 18.52          | 05             | 55    | 61           | 06    | 01            | 6                | 298      |                  | 4.32         |
| 03     | 02  | 861125 | 18.52          | 63             | 64    | 38           | 06    | 01            | 5                | 298      |                  | 6.17         |
| 03     | 03  | 861125 | 18.52          | 64             | 38    | 63           | 06    | 01            | 5                | 298      |                  | 6.17         |
| 03     | 04  | 861125 | 18.52          | 38             | 63    | 64           | 07    | 01            | 5                | 298      |                  | 6.17         |
| 03     | 05  | 861125 | 18.52          | 63             | 64    | 38           | 07    | 01            | 5                | 298      |                  | 6.17         |
| 03     | 06  | 861125 | 18.52          | 64             | 38    | 63           | 07    | 12            | 5                | 298      |                  | 6.17         |
| 03     | 07  | 861125 | 18.52          | 38             | 63    | 64           | 07    | 12            | 5                | 298      |                  | 6.17         |
| 03     | 08  | 861125 | 18.52          | 55             | 61    | 05           | 08    | 12            | 5                | 298      |                  | 6.17         |
| 03     | 09  | 861125 | 18.52          | 61             | 05    | 55           | 08    | 12            | 5                | 298      |                  | 1.54         |
| 03     | 10  | 861125 | 18.52          | 63             | 64    | 38           | 12    | 12            | 5                | 298      |                  | 7.10         |
| 03     | 11  | 861125 | 18.52          | 55             | 05    | 61           | 12    | 12            | 5                | 298      |                  | 6.17         |
| 03     | 12  | 861125 | 18.52          | 05             | 61    | 55           | 09    | 12            | 5                | 298      |                  | 6.17         |
| 03     | 13  | 861125 | 18.52          | 61             | 55    | 05           | 09    | 12            | 5                | 298      |                  | 6.17         |
| 03     | 14  | 861125 | 18.52          | 55             | 05    | 61           | 09    | 12            | 5                | 298      |                  | 3.70         |
| 03     | 15  | 861125 | 18.52          | 64             | 38    | 63           | 09    | 01            | 5                | 298      |                  | 6.17         |
| 03     | 16  | 861125 | 18.52          | 38             | 63    | 64           | 10    | 01            | 5                | 298      |                  | 6.17         |
| 03     | 17  | 861125 | 18.52          | 63             | 64    | 38           | 10    | 01            | 5                | 298      |                  | 6.17         |
| 03     | 18  | 861125 | 18.52          | 64             | 38    | 63           | 10    | 01            | 5                | 298      |                  | 6.17         |
| 03     | 19  | 861125 | 18.52          | 38             | 63    | 64           | 10    | 02            | 5                | 298      |                  | 6.17         |
| 03     | 20  | 861125 | 18.52          | 63             | 64    | 38           | 10    | 02            | 5                | 298      |                  | 6.17         |
| 03     | 21  | 861125 | 18.52          | 55             | 61    | 05           | 10    | 02            | 5                | 298      |                  | 6.17         |
| 03     | 22  | 861125 | 18.52          | 61             | 05    | 55           | 10    | 02            | 5                | 298      |                  | 6.17         |
| 03     | 23  | 861125 | 18.52          | 05             | 55    | 61           |       |               | 5                | 298      |                  | 4.32         |
| 03     | 24  | 861125 | 18.52          | 05             | 55    | 61           | 10    | 03            | 5                | 298      |                  | 1.85         |
| 03     | 25  | 861125 | 18.52          | 55             | 61    | 05           | 10    | 03            | 5                | 298      |                  | 3.09         |
| 03     | 26  | 861125 | 18.52          | 38             | 64    | 63           |       |               | 5                | 298      |                  | 3.40         |
| 03     | 27  | 861125 | 18.52          | 38             | 64    | 63           | 10    | 03            | 5                | 298      |                  | 2.16         |
| 03     | 28  | 861125 | 18.52          | 55             | 61    | 05           | 10    | 03            | 5                | 298      |                  | 4.01         |
| 03     | 29  | 861125 | 18.52          | 61             | 05    | 55           | 10    | 03            | 5                | 298      |                  | 4.32         |
| 03     | 30  | 861125 | 18.52          | 61             | 05    | 55           | 10    | 03            | 5                | 298      | 06 34 N 110 24 W | 0.31         |



Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude |              |
| 01     | 01  | 861126 | 18.33          | 61             | 64    | 05           | 03    | 4          | 313              | 06 58 N  | 111 10 W  | 6.11         |
| 01     | 02  | 861126 | 18.33          | 64             | 05    | 61           |       | 4          | 313              |          |           | 6.11         |
| 01     | 03  | 861126 | 18.33          | 05             | 61    | 64           |       | 4          | 313              |          |           | 6.11         |
| 01     | 04  | 861126 | 18.33          | 61             | 64    | 05           |       | 4          | 313              |          |           | 6.11         |
| 01     | 05  | 861126 | 18.33          | 63             | 38    | 55           |       | 4          | 313              |          |           | 5.81         |
| 01     | 06  | 861126 | 18.33          | 64             | 05    | 61           |       | 4          | 313              |          |           | 2.14         |
| 01     | 07  | 861126 | 18.33          | 64             | 05    | 61           | 02    | 4          | 313              |          |           | 4.28         |
| 01     | 08  | 861126 | 18.33          | 38             | 55    | 63           | 02    | 4          | 313              |          |           | 6.11         |
| 01     | 09  | 861126 | 18.33          | 55             | 63    | 38           | 02    | 4          | 313              |          |           | 6.11         |
| 01     | 10  | 861126 | 18.33          | 63             | 38    | 55           | 02    | 4          | 313              |          |           | 6.11         |
| 01     | 11  | 861126 | 18.33          | 38             | 55    | 63           | 02    | 4          | 313              |          |           | 2.14         |
| 01     | 12  | 861126 | 18.33          | 38             | 55    | 63           |       | 4          | 313              | 07 16 N  | 111 30 W  | 3.97         |
| 01     | 13  | 861126 | 18.33          | 55             | 63    | 38           |       | 4          | 313              |          |           | 6.11         |
| 01     | 14  | 861126 | 18.33          | 63             | 38    | 55           |       | 4          | 313              |          |           | 6.11         |
| 01     | 15  | 861126 | 18.33          | 61             | 64    | 05           |       | 4          | 313              |          |           | 6.11         |
| 01     | 16  | 861126 | 18.33          | 64             | 05    | 61           |       | 4          | 313              |          |           | 6.11         |
| 01     | 17  | 861126 | 18.33          | 05             | 61    | 64           |       | 4          | 313              |          |           | 6.11         |
| 01     | 18  | 861126 | 16.67          | 61             | 64    | 05           |       | 4          | 313              |          |           | 5.56         |
| 01     | 19  | 861126 | 16.67          | 64             | 05    | 61           |       | 4          | 313              |          |           | 5.56         |
| 01     | 20  | 861126 | 16.67          | 05             | 63    | 64           |       | 4          | 313              |          |           | 5.56         |
| 01     | 21  | 861126 | 16.67          | 61             | 64    | 05           |       | 4          | 313              |          |           | 1.39         |
| 01     | 22  | 861126 | 16.67          | 55             | 63    | 38           |       | 4          | 313              |          |           | 5.56         |
| 01     | 23  | 861126 | 16.67          | 63             | 38    | 55           |       | 4          | 313              |          |           | 5.56         |
| 01     | 24  | 861126 | 16.67          | 38             | 55    | 63           |       | 4          | 313              |          |           | 1.67         |
| 02     | 01  | 861126 | 16.67          | 55             | 63    | 38           |       | 4          | 313              | 07 43 N  | 111 55 W  | 5.56         |
| 02     | 02  | 861126 | 16.67          | 63             | 38    | 55           |       | 4          | 313              |          |           | 5.56         |
| 02     | 03  | 861126 | 16.67          | 38             | 55    | 63           |       | 4          | 313              |          |           | 0.56         |
| 02     | 04  | 861126 | 16.67          | 64             | 61    | 05           |       | 4          | 313              |          |           | 1.39         |
| 03     | 01  | 861126 | 17.59          | 64             | 61    | 05           | 02    | 4          | 313              | 07 48 N  | 112 00 W  | 4.69         |
| 03     | 02  | 861126 | 17.59          | 61             | 05    | 64           | 02    | 4          | 313              |          |           | 5.86         |
| 03     | 03  | 861126 | 17.59          | 05             | 64    | 61           |       | 3          | 313              | 08 04 N  | 112 15 W  | 6.16         |
| 03     | 04  | 861126 | 17.59          | 63             | 38    | 55           |       | 3          | 313              |          |           | 8.80         |
| 03     | 05  | 861126 | 17.59          | 38             | 55    | 63           |       | 3          | 313              |          |           | 4.98         |
| 03     | 06  | 861126 | 17.59          | 64             | 61    | 05           |       | 3          | 313              |          |           | 5.86         |
| 03     | 07  | 861126 | 17.59          | 55             | 63    | 38           |       | 3          | 313              |          |           | 5.86         |
| 03     | 08  | 861126 | 17.59          | 63             | 38    | 55           |       | 3          | 313              |          |           | 3.52         |
| 01     | 01  | 861127 | 18.89          | 63             | 38    | 55           |       | 3          | 313              | 08 55 N  | 113 19 W  | 6.30         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. Course<br>No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|----------------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |                      |                  | Latitude | Longitude        |              |
| 01     | 02  | 861127 | 18.89          | 38             | 55    | 63           |       |                      | 3                | 313      |                  | 6.30         |
| 01     | 03  | 861127 | 18.89          | 55             | 63    | 38           |       |                      | 3                | 313      |                  | 4.41         |
| 01     | 04  | 861127 | 18.89          | 55             | 63    | 38           | 05    | 03                   | 3                | 313      | 09 01 N 113 26 W | 0.63         |
| 02     | 01  | 861127 | 18.89          | 61             | 64    | 05           |       |                      | 3                | 314      | 09 10 N 113 30 W | 6.30         |
| 02     | 02  | 861127 | 18.89          | 64             | 05    | 61           | 06    | 02                   | 3                | 314      |                  | 6.30         |
| 02     | 03  | 861127 | 18.89          | 05             | 61    | 64           | 06    | 02                   | 3                | 314      |                  | 6.30         |
| 02     | 04  | 861127 | 18.89          | 61             | 64    | 05           | 06    | 02                   | 3                | 314      |                  | 6.30         |
| 02     | 05  | 861127 | 18.89          | 64             | 05    | 61           | 06    | 02                   | 4                | 314      |                  | 6.30         |
| 02     | 06  | 861127 | 18.89          | 05             | 61    | 64           | 06    | 01                   | 4                | 314      |                  | 5.98         |
| 03     | 01  | 861127 | 18.89          | 38             | 63    | 55           | 07    | 01                   | 4                | 314      | 09 27 N 113 49 W | 6.30         |
| 03     | 02  | 861127 | 18.89          | 63             | 55    | 38           |       |                      | 4                | 314      |                  | 6.30         |
| 03     | 03  | 861127 | 18.89          | 55             | 38    | 63           |       |                      | 4                | 314      |                  | 3.15         |
| 04     | 01  | 861127 | 17.59          | 64             | 61    | 05           |       |                      | 4                | 313      | 09 42 N 113 54 W | 5.86         |
| 04     | 02  | 861127 | 17.59          | 61             | 05    | 64           |       |                      | 4                | 313      |                  | 5.86         |
| 04     | 03  | 861127 | 17.59          | 05             | 64    | 61           |       |                      | 4                | 313      |                  | 4.69         |
| 05     | 01  | 861127 | 17.59          | 55             | 63    | 38           |       |                      | 1                | 313      | 10 01 N 114 13 W | 2.93         |
| 06     | 01  | 861127 | 17.59          | 05             | 64    | 61           |       |                      | 1                | 313      | 10 07 N 114 18 W | 2.35         |
| 06     | 02  | 861127 | 17.59          | 05             | 64    | 61           |       |                      | 1                | 313      |                  | 3.52         |
| 06     | 03  | 861127 | 17.59          | 64             | 61    | 05           |       |                      | 2                | 313      |                  | 5.86         |
| 06     | 04  | 861127 | 17.59          | 61             | 05    | 64           |       |                      | 2                | 313      |                  | 3.81         |
| 06     | 05  | 861127 | 17.59          | 61             | 05    | 64           |       |                      | 2                | 313      | 10 13 N 114 24 W | 0.29         |
| 01     | 01  | 861128 | 18.52          | 64             | 61    | 05           |       |                      | 2                | 311      | 11 13 N 115 27 W | 6.17         |
| 01     | 02  | 861128 | 18.52          | 61             | 05    | 64           |       |                      | 2                | 311      |                  | 1.23         |
| 01     | 03  | 861128 | 18.52          | 61             | 05    | 64           |       |                      | 2                | 311      |                  | 3.70         |
| 01     | 04  | 861128 | 18.52          | 61             | 05    | 64           |       |                      | 2                | 311      | 11 17 N 115 31 W | 0.31         |
| 02     | 01  | 861128 | 18.33          | 55             | 63    | 38           |       |                      | 3                | 311      | 11 32 N 115 48 W | 6.11         |
| 02     | 02  | 861128 | 18.33          | 63             | 38    | 55           |       |                      | 3                | 311      |                  | 6.42         |
| 02     | 03  | 861128 | 18.33          | 38             | 55    | 63           |       |                      | 3                | 311      |                  | 6.11         |
| 02     | 04  | 861128 | 18.33          | 55             | 63    | 38           |       |                      | 3                | 311      |                  | 3.67         |
| 03     | 01  | 861128 | 18.52          | 61             | 64    | 05           |       |                      | 3                | 312      | 11 42 N 116 05 W | 6.17         |
| 03     | 02  | 861128 | 18.52          | 64             | 05    | 61           |       |                      | 3                | 312      |                  | 5.25         |
| 03     | 03  | 861128 | 18.52          | 64             | 05    | 61           |       |                      | 3                | 312      |                  | 0.93         |
| 03     | 04  | 861128 | 18.52          | 05             | 61    | 64           |       |                      | 3                | 312      |                  | 2.16         |
| 03     | 05  | 861128 | 18.52          | 63             | 38    | 55           |       |                      | 3                | 312      |                  | 6.17         |
| 03     | 06  | 861128 | 18.52          | 38             | 55    | 63           |       |                      | 3                | 312      |                  | 6.17         |
| 03     | 07  | 861128 | 18.52          | 55             | 63    | 38           |       |                      | 3                | 312      |                  | 6.17         |
| 03     | 08  | 861128 | 18.52          | 63             | 38    | 55           |       |                      | 3                | 312      |                  | 6.17         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position         |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|------------------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude         | Longitude |              |
| 03     | 09  | 861128 | 18.52          | 38             | 55    | 63           |       | 3             | 312              |                  | 6.17      |              |
| 03     | 10  | 861128 | 18.52          | 55             | 63    | 38           |       | 4             | 312              |                  | 6.17      |              |
| 03     | 11  | 861128 | 18.52          | 05             | 64    | 61           | 01    | 4             | 312              |                  | 6.17      |              |
| 03     | 12  | 861128 | 18.52          | 64             | 61    | 05           | 01    | 4             | 312              |                  | 6.17      |              |
| 03     | 13  | 861128 | 18.52          | 61             | 05    | 64           | 01    | 4             | 312              |                  | 6.17      |              |
| 03     | 14  | 861128 | 18.52          | 05             | 64    | 61           | 02    | 4             | 312              |                  | 6.17      |              |
| 03     | 15  | 861128 | 18.52          | 64             | 61    | 05           | 02    | 4             | 312              |                  | 6.17      |              |
| 03     | 16  | 861128 | 18.52          | 61             | 05    | 64           | 02    | 4             | 312              |                  | 6.17      |              |
| 03     | 17  | 861128 | 18.52          | 61             | 05    | 64           | 02    | 4             | 312              |                  | 4.32      |              |
| 04     | 01  | 861128 | 18.52          | 55             | 38    | 63           | 02    | 4             | 312              | 12 13 N 116 40 W | 0.31      |              |
| 04     | 02  | 861128 | 18.52          | 61             | 64    | 05           |       | 4             | 312              | 12 16 N 116 44 W | 6.17      |              |
| 04     | 03  | 861128 | 18.52          | 38             | 63    | 55           |       | 4             | 312              |                  | 5.25      |              |
| 04     | 04  | 861128 | 18.52          | 63             | 55    | 38           |       | 4             | 312              |                  | 6.17      |              |
| 04     | 05  | 861128 | 18.52          | 63             | 55    | 38           |       | 4             | 312              |                  | 6.17      |              |
| 01     | 01  | 861129 | 17.59          | 55             | 61    | 38           |       | 6             | 052              | 12 25 N 116 54 W | 0.31      |              |
| 01     | 02  | 861129 | 17.59          | 55             | 61    | 38           | 03    | 6             | 052              | 13 25 N 117 42 W | 2.35      |              |
| 01     | 03  | 861129 | 17.59          | 61             | 38    | 55           | 02    | 6             | 052              |                  | 3.52      |              |
| 01     | 04  | 861129 | 17.59          | 38             | 55    | 61           | 03    | 6             | 052              |                  | 5.86      |              |
| 01     | 05  | 861129 | 17.59          | 63             | 64    | 05           | 03    | 6             | 052              |                  | 2.05      |              |
| 01     | 06  | 861129 | 17.59          | 55             | 61    | 38           | 03    | 6             | 052              |                  | 4.98      |              |
| 01     | 07  | 861129 | 17.59          | 61             | 38    | 55           | 02    | 6             | 052              |                  | 5.86      |              |
| 02     | 01  | 861129 | 17.59          | 05             | 64    | 63           | 02    | 6             | 052              | 13 32 N 117 34 W | 2.35      |              |
| 02     | 02  | 861129 | 17.59          | 64             | 63    | 05           | 02    | 6             | 052              |                  | 5.86      |              |
| 02     | 03  | 861129 | 17.59          | 63             | 05    | 64           | 02    | 6             | 052              |                  | 5.86      |              |
| 02     | 04  | 861129 | 17.59          | 05             | 64    | 63           | 02    | 6             | 052              |                  | 5.86      |              |
| 02     | 05  | 861129 | 17.59          | 64             | 63    | 05           | 02    | 6             | 052              |                  | 5.86      |              |
| 02     | 06  | 861129 | 17.59          | 63             | 05    | 64           | 02    | 5             | 052              |                  | 5.86      |              |
| 02     | 07  | 861129 | 17.59          | 05             | 38    | 61           | 01    | 5             | 052              |                  | 5.86      |              |
| 02     | 08  | 861129 | 17.59          | 38             | 61    | 55           | 01    | 5             | 052              |                  | 5.86      |              |
| 02     | 09  | 861129 | 17.59          | 61             | 55    | 38           | 01    | 5             | 052              |                  | 5.86      |              |
| 02     | 10  | 861129 | 17.59          | 55             | 38    | 61           | 01    | 5             | 052              |                  | 5.86      |              |
| 02     | 11  | 861129 | 17.59          | 63             | 05    | 64           | 01    | 5             | 052              |                  | 4.98      |              |
| 02     | 12  | 861129 | 17.59          | 61             | 38    | 55           | 01    | 5             | 052              |                  | 5.57      |              |
| 02     | 13  | 861129 | 17.59          | 63             | 64    | 05           | 01    | 5             | 052              |                  | 7.33      |              |
| 02     | 14  | 861129 | 17.59          | 64             | 05    | 63           | 01    | 5             | 052              |                  | 5.86      |              |
| 02     | 15  | 861129 | 17.59          | 05             | 63    | 64           | 01    | 5             | 052              |                  | 5.86      |              |
| 02     | 16  | 861129 | 17.59          | 63             | 64    | 05           | 12    | 5             | 052              |                  | 5.86      |              |
| 02     |     |        |                | 63             | 64    | 05           | 12    | 5             | 052              |                  | 4.69      |              |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 03     | 01  | 861129 | 17.59          | 64             | 05    | 63           | 05    | 01            | 052              | 14 02 N  | 116 54 W  | 5.86         |
| 03     | 02  | 861129 | 17.59          | 05             | 63    | 64           | 05    | 01            | 052              |          |           | 2.35         |
| 03     | 03  | 861129 | 17.59          | 55             | 61    | 38           | 06    | 01            | 052              |          |           | 5.86         |
| 03     | 04  | 861129 | 17.59          | 61             | 38    | 55           | 06    | 01            | 052              |          |           | 5.86         |
| 03     | 05  | 861129 | 17.59          | 38             | 55    | 61           | 06    | 01            | 052              |          |           | 5.86         |
| 03     | 06  | 861129 | 17.59          | 55             | 61    | 38           | 06    | 02            | 052              |          |           | 5.86         |
| 03     | 07  | 861129 | 17.59          | 61             | 38    | 55           | 06    | 02            | 052              |          |           | 2.64         |
| 04     | 01  | 861129 | 17.59          | 63             | 64    | 05           | 06    | 02            | 052              | 14 12 N  | 116 36 W  | 4.69         |
| 05     | 01  | 861129 | 18.15          | 05             | 63    | 64           | 06    | 03            | 051              | 14 16 N  | 116 29 W  | 5.75         |
| 05     | 02  | 861129 | 18.15          | 05             | 63    | 64           | 06    | 03            | 051              | 14 19 N  | 116 31 W  | 0.30         |
| 01     | 01  | 861130 | 18.52          | 64             | 63    | 05           | 02    | 03            | 052              | 15 14 N  | 115 17 W  | 6.17         |
| 01     | 02  | 861130 | 18.52          | 63             | 05    | 64           | 02    | 03            | 052              |          |           | 6.79         |
| 01     | 03  | 861130 | 18.52          | 05             | 64    | 63           | 02    | 03            | 052              | 15 17 N  | 115 12 W  | 2.47         |
| 01     | 04  | 861130 | 18.52          | 55             | 61    | 38           | 02    | 03            | 052              |          |           | 5.86         |
| 01     | 05  | 861130 | 18.52          | 05             | 64    | 63           | 02    | 02            | 052              |          |           | 3.70         |
| 01     | 06  | 861130 | 18.52          | 64             | 63    | 05           | 02    | 02            | 052              | 15 21 N  | 115 07 W  | 3.09         |
| 02     | 01  | 861130 | 18.52          | 55             | 38    | 61           | 02    | 02            | 051              | 15 25 N  | 115 01 W  | 6.17         |
| 02     | 02  | 861130 | 18.52          | 38             | 61    | 55           | 02    | 02            | 051              |          |           | 6.17         |
| 02     | 03  | 861130 | 18.52          | 61             | 55    | 38           | 03    | 02            | 051              |          |           | 6.17         |
| 02     | 04  | 861130 | 18.52          | 55             | 38    | 61           | 03    | 01            | 051              |          |           | 6.17         |
| 02     | 05  | 861130 | 18.52          | 38             | 61    | 55           | 03    | 01            | 051              |          |           | 6.17         |
| 02     | 06  | 861130 | 18.52          | 61             | 55    | 38           | 03    | 01            | 051              |          |           | 6.17         |
| 02     | 07  | 861130 | 18.52          | 63             | 64    | 05           | 03    | 01            | 051              |          |           | 6.17         |
| 02     | 08  | 861130 | 18.52          | 64             | 05    | 63           | 03    | 01            | 051              |          |           | 6.17         |
| 02     | 09  | 861130 | 18.52          | 05             | 63    | 64           | 03    | 01            | 051              |          |           | 6.17         |
| 02     | 10  | 861130 | 18.52          | 63             | 64    | 05           | 04    | 01            | 051              |          |           | 4.01         |
| 02     | 11  | 861130 | 18.52          | 55             | 61    | 38           | 04    | 01            | 051              |          |           | 1.54         |
| 03     | 01  | 861130 | 18.52          | 05             | 63    | 64           | 04    | 01            | 051              | 15 46 N  | 114 35 W  | 2.78         |
| 03     | 02  | 861130 | 18.52          | 61             | 38    | 55           | 05    | 01            | 051              |          |           | 4.32         |
| 03     | 03  | 861130 | 18.52          | 61             | 38    | 55           | 05    | 01            | 051              |          |           | 1.85         |
| 03     | 04  | 861130 | 18.52          | 38             | 55    | 61           | 05    | 01            | 051              |          |           | 6.17         |
| 03     | 05  | 861130 | 18.52          | 55             | 61    | 38           | 05    | 01            | 051              |          |           | 3.70         |
| 04     | 01  | 861130 | 18.52          | 61             | 38    | 55           | 05    | 01            | 051              | 15 51 N  | 114 28 W  | 3.70         |
| 04     | 02  | 861130 | 18.52          | 38             | 55    | 61           |       |               | 051              |          |           | 2.47         |
| 04     | 03  | 861130 | 18.52          | 63             | 64    | 05           |       |               | 051              |          |           | 6.17         |
| 04     | 04  | 861130 | 18.52          | 64             | 05    | 63           |       |               | 051              |          |           | 2.16         |
| 04     | 05  | 861130 | 18.52          | 64             | 05    | 63           | 06    | 02            | 051              |          |           | 4.01         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 04     | 06  | 861130 | 18.52          | 05             | 63    | 64           | 06    | 02         | 4                | 051      |                  | 5.86         |
| 05     | 01  | 861130 | 18.52          | 63             | 64    | 05           | 06    | 02         | 4                | 051      | 15 57 N 114 13 W | 6.17         |
| 05     | 02  | 861130 | 18.52          | 64             | 05    | 63           |       |            | 4                | 051      |                  | 1.23         |
| 05     | 03  | 861130 | 18.52          | 64             | 05    | 63           |       |            | 4                | 051      |                  | 3.09         |
| 05     | 04  | 861130 | 18.52          | 55             | 61    | 38           |       |            | 4                | 051      |                  | 6.17         |
| 05     | 05  | 861130 | 18.52          | 61             | 38    | 55           |       |            | 4                | 051      |                  | 4.94         |
| 05     | 06  | 861130 | 18.52          | 63             | 64    | 05           |       |            | 4                | 051      |                  | 6.79         |
| 01     | 01  | 861201 | 17.96          | 55             | 38    | 61           |       |            | 4                | 050      | 17 25 N 112 29 W | 4.19         |
| 01     | 02  | 861201 | 17.96          | 55             | 38    | 61           | 02    | 03         | 5                | 050      |                  | 1.80         |
| 01     | 03  | 861201 | 17.96          | 38             | 61    | 55           | 02    | 03         | 5                | 050      | 17 27 N 112 27 W | 1.50         |
| 02     | 01  | 861201 | 17.78          | 61             | 55    | 38           | 02    | 03         | 5                | 050      |                  | 6.52         |
| 02     | 02  | 861201 | 17.78          | 63             | 64    | 05           | 02    | 03         | 5                | 050      |                  | 6.52         |
| 02     | 03  | 861201 | 17.78          | 55             | 38    | 61           | 02    | 02         | 5                | 050      |                  | 5.93         |
| 02     | 04  | 861201 | 17.78          | 38             | 61    | 55           | 03    | 02         | 5                | 050      |                  | 3.85         |
| 02     | 05  | 861201 | 17.78          | 64             | 63    | 05           | 03    | 02         | 5                | 050      |                  | 5.93         |
| 02     | 06  | 861201 | 17.78          | 05             | 63    | 64           | 03    | 02         | 5                | 050      |                  | 5.93         |
| 02     | 07  | 861201 | 17.78          | 63             | 64    | 05           | 03    | 02         | 5                | 050      |                  | 5.93         |
| 02     | 08  | 861201 | 17.78          | 64             | 05    | 63           | 03    | 02         | 5                | 050      |                  | 2.37         |
| 02     | 09  | 861201 | 17.78          | 64             | 05    | 63           | 05    | 02         | 5                | 352      |                  | 3.56         |
| 02     | 10  | 861201 | 17.78          | 05             | 63    | 64           | 05    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 11  | 861201 | 17.78          | 63             | 64    | 05           | 05    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 12  | 861201 | 17.78          | 55             | 61    | 38           | 05    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 13  | 861201 | 17.78          | 61             | 38    | 55           | 05    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 14  | 861201 | 17.78          | 38             | 55    | 61           | 05    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 15  | 861201 | 17.78          | 55             | 61    | 38           | 06    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 16  | 861201 | 17.78          | 61             | 38    | 55           | 06    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 17  | 861201 | 17.78          | 38             | 55    | 61           | 06    | 01         | 5                | 352      |                  | 5.63         |
| 02     | 18  | 861201 | 17.78          | 05             | 63    | 64           | 06    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 19  | 861201 | 17.78          | 63             | 64    | 05           | 06    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 20  | 861201 | 17.78          | 64             | 05    | 63           | 07    | 01         | 5                | 352      |                  | 2.67         |
| 02     | 21  | 861201 | 17.78          | 64             | 05    | 63           |       |            | 5                | 352      |                  | 3.26         |
| 02     | 22  | 861201 | 17.78          | 05             | 63    | 64           | 07    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 23  | 861201 | 17.78          | 63             | 64    | 05           | 07    | 01         | 5                | 352      |                  | 6.22         |
| 02     | 24  | 861201 | 17.78          | 64             | 05    | 63           | 08    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 25  | 861201 | 17.78          | 55             | 61    | 38           | 08    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 26  | 861201 | 17.78          | 61             | 38    | 55           | 08    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 27  | 861201 | 17.78          | 38             | 55    | 61           | 08    | 01         | 5                | 352      |                  | 5.93         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 02     | 28  | 861201 | 17.78          | 55             | 61    | 38           | 08    | 01         | 5                | 352      |                  | 5.93         |
| 02     | 29  | 861201 | 17.78          | 61             | 38    | 55           | 08    | 02         | 5                | 352      |                  | 5.93         |
| 02     | 30  | 861201 | 17.78          | 38             | 55    | 61           | 08    | 02         | 5                | 352      |                  | 3.85         |
| 02     | 31  | 861201 | 17.78          | 38             | 55    | 61           |       |            | 5                | 352      |                  | 2.07         |
| 02     | 32  | 861201 | 17.78          | 63             | 64    | 05           |       |            | 5                | 352      |                  | 0.89         |
| 02     | 33  | 861201 | 17.78          | 63             | 64    | 05           |       |            | 5                | 354      |                  | 5.04         |
| 02     | 34  | 861201 | 17.78          | 64             | 05    | 63           |       |            | 5                | 354      |                  | 3.56         |
| 02     | 35  | 861201 | 17.78          | 64             | 05    | 63           |       |            | 6                | 354      |                  | 1.48         |
| 02     | 36  | 861201 | 17.78          | 64             | 05    | 63           |       |            | 6                | 354      |                  | 0.30         |
| 01     | 01  | 861202 | 18.52          | 55             | 63    | 05           | 05    | 03         | 2                | 330      | 18 53 N 112 18 W | 6.17         |
| 01     | 02  | 861202 | 18.52          | 63             | 05    | 55           | 05    | 03         | 3                | 330      | 20 47 N 113 36 W | 6.48         |
| 01     | 03  | 861202 | 18.52          | 05             | 55    | 63           |       |            | 3                | 330      |                  | 2.16         |
| 01     | 04  | 861202 | 18.52          | 38             | 64    | 61           |       |            | 3                | 330      |                  | 4.63         |
| 01     | 05  | 861202 | 18.52          | 38             | 64    | 61           | 05    | 03         | 3                | 330      |                  | 1.23         |
| 01     | 06  | 861202 | 18.52          | 05             | 55    | 63           | 05    | 03         | 3                | 330      |                  | 4.01         |
| 01     | 07  | 861202 | 18.52          | 55             | 63    | 05           | 05    | 03         | 3                | 330      |                  | 6.17         |
| 01     | 08  | 861202 | 18.52          | 63             | 05    | 55           |       |            | 3                | 330      |                  | 6.17         |
| 01     | 09  | 861202 | 18.52          | 64             | 61    | 38           | 05    | 02         | 3                | 330      |                  | 5.25         |
| 02     | 01  | 861202 | 18.52          | 61             | 38    | 64           | 06    | 02         | 3                | 329      | 21 10 N 113 49 W | 6.17         |
| 02     | 02  | 861202 | 18.52          | 38             | 64    | 61           | 06    | 02         | 3                | 329      |                  | 6.17         |
| 02     | 03  | 861202 | 18.52          | 64             | 61    | 38           | 06    | 01         | 3                | 329      |                  | 3.09         |
| 03     | 01  | 861202 | 18.52          | 63             | 05    | 55           | 06    | 01         | 3                | 329      | 21 19 N 113 56 W | 3.40         |
| 04     | 01  | 861202 | 18.52          | 05             | 55    | 63           | 06    | 01         | 3                | 329      | 21 23 N 113 55 W | 6.17         |
| 04     | 02  | 861202 | 18.52          | 64             | 61    | 38           | 07    | 01         | 3                | 329      |                  | 3.70         |
| 04     | 03  | 861202 | 18.52          | 55             | 63    | 05           | 07    | 01         | 3                | 329      |                  | 6.17         |
| 04     | 04  | 861202 | 18.52          | 63             | 05    | 55           | 07    | 01         | 3                | 329      |                  | 3.09         |
| 04     | 05  | 861202 | 18.52          | 61             | 38    | 64           | 07    | 01         | 3                | 329      |                  | 3.40         |
| 05     | 01  | 861202 | 18.52          | 38             | 64    | 61           | 08    | 01         | 3                | 331      | 21 31 N 114 11 W | 3.70         |
| 06     | 01  | 861202 | 18.52          | 38             | 64    | 61           | 08    | 01         | 3                | 331      | 21 34 N 114 13 W | 2.47         |
| 06     | 02  | 861202 | 18.52          | 64             | 61    | 38           | 08    | 02         | 3                | 331      |                  | 5.56         |
| 07     | 01  | 861202 | 18.52          | 55             | 63    | 05           | 08    | 02         | 2                | 331      | 21 37 N 114 14 W | 6.17         |
| 07     | 02  | 861202 | 18.52          | 63             | 05    | 55           | 09    | 02         | 2                | 331      |                  | 6.17         |
| 07     | 03  | 861202 | 18.52          | 05             | 55    | 63           | 09    | 02         | 2                | 331      |                  | 2.78         |
| 08     | 01  | 861202 | 18.52          | 55             | 63    | 05           | 09    | 03         | 2                | 331      | 21 44 N 114 20 W | 7.10         |
| 08     | 02  | 861202 | 18.52          | 63             | 05    | 55           | 09    | 03         | 2                | 331      | 21 48 N 114 22 W | 3.09         |
| 08     | 03  | 861202 | 18.52          | 38             | 64    | 61           | 09    | 03         | 2                | 331      |                  | 6.48         |
| 08     | 04  | 861202 | 18.52          | 55             | 63    | 05           | 09    | 03         | 2                | 331      |                  | 2.78         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf.<br>No. | Course<br>(Deg.) | Position |           | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|---------------|------------------|----------|-----------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |               |                  | Latitude | Longitude |              |
| 01     | 01  | 861203 | 18.52          | 61             | 64    | 38           |       | 1             | 327              | 23 46 N  | 115 30 W  | 6.17         |
| 01     | 02  | 861203 | 18.52          | 64             | 38    | 61           | 05    | 1             | 327              | 23 49 N  | 115 31 W  | 6.17         |
| 01     | 03  | 861203 | 18.52          | 38             | 61    | 64           | 05    | 1             | 327              |          |           | 2.16         |
| 01     | 04  | 861203 | 18.52          | 55             | 63    | 05           | 05    | 0             | 327              |          |           | 6.48         |
| 01     | 05  | 861203 | 18.52          | 61             | 64    | 38           | 05    | 0             | 327              |          |           | 6.17         |
| 01     | 06  | 861203 | 18.52          | 64             | 38    | 61           | 05    | 0             | 327              |          |           | 5.86         |
| 01     | 07  | 861203 | 18.52          | 64             | 38    | 61           | 05    | 0             | 332              |          |           | 0.31         |
| 01     | 08  | 861203 | 18.52          | 38             | 61    | 64           | 05    | 0             | 332              |          |           | 2.47         |
| 02     | 01  | 861203 | 18.52          | 05             | 63    | 55           | 05    | 0             | 332              | 24 01 N  | 115 47 W  | 1.85         |
| 03     | 01  | 861203 | 18.52          | 05             | 63    | 55           | 06    | 0             | 332              | 24 01 N  | 115 46 W  | 5.25         |
| 03     | 02  | 861203 | 18.52          | 63             | 55    | 05           | 06    | 1             | 332              |          |           | 6.17         |
| 03     | 03  | 861203 | 18.52          | 55             | 05    | 63           | 06    | 1             | 332              |          |           | 6.48         |
| 03     | 04  | 861203 | 18.52          | 64             | 38    | 61           | 06    | 1             | 332              |          |           | 6.17         |
| 04     | 01  | 861203 | 18.52          | 38             | 61    | 64           | 06    | 1             | 332              | 24 17 N  | 115 52 W  | 4.63         |
| 04     | 02  | 861203 | 18.52          | 55             | 63    | 05           | 06    | 0             | 332              |          |           | 7.41         |
| 04     | 03  | 861203 | 18.52          | 64             | 61    | 38           | 07    | 0             | 332              |          |           | 6.17         |
| 04     | 04  | 861203 | 18.52          | 63             | 05    | 55           | 07    | 0             | 332              |          |           | 6.79         |
| 04     | 05  | 861203 | 18.52          | 05             | 55    | 63           | 07    | 0             | 332              | 24 29 N  | 115 58 W  | 6.17         |
| 04     | 06  | 861203 | 18.52          | 55             | 63    | 05           | 07    | 0             | 332              |          |           | 6.17         |
| 04     | 07  | 861203 | 18.52          | 63             | 05    | 55           | 08    | 0             | 332              |          |           | 6.17         |
| 04     | 08  | 861203 | 18.52          | 05             | 55    | 63           | 08    | 0             | 332              |          |           | 6.17         |
| 04     | 09  | 861203 | 18.52          | 55             | 63    | 05           | 08    | 0             | 332              |          |           | 2.78         |
| 04     | 10  | 861203 | 14.82          | 55             | 63    | 05           | 08    | 0             | 332              |          |           | 0.99         |
| 05     | 01  | 861203 | 14.82          | 64             | 61    | 38           | 09    | 0             | 332              | 24 42 N  | 116 04 W  | 1.73         |
| 05     | 02  | 861203 | 18.52          | 64             | 61    | 38           | 09    | 0             | 332              |          |           | 4.01         |
| 05     | 03  | 861203 | 18.52          | 61             | 38    | 64           | 09    | 0             | 332              |          |           | 6.17         |
| 05     | 04  | 861203 | 18.52          | 38             | 64    | 61           | 09    | 0             | 332              |          |           | 6.48         |
| 05     | 05  | 861203 | 18.52          | 64             | 61    | 38           | 09    | 0             | 332              |          |           | 6.17         |
| 05     | 06  | 861203 | 18.52          | 61             | 38    | 64           | 09    | 0             | 332              |          |           | 3.40         |
| 05     | 07  | 861203 | 18.52          | 05             | 63    | 55           | 09    | 0             | 332              |          |           | 5.56         |
| 05     | 08  | 861203 | 18.52          | 64             | 38    | 61           | 09    | 0             | 332              |          |           | 6.17         |
| 05     | 09  | 861203 | 18.52          | 38             | 61    | 64           | 09    | 0             | 332              |          |           | 1.23         |
| 05     | 10  | 861203 | 18.52          | 55             | 63    | 05           | 09    | 0             | 332              |          |           | 3.40         |
| 01     | 01  | 861204 | 18.89          | 55             | 63    | 05           | 05    | 2             | 329              | 26 34 N  | 117 03 W  | 6.30         |
| 01     | 02  | 861204 | 18.89          | 64             | 61    | 38           | 05    | 2             | 329              |          |           | 3.46         |
| 02     | 01  | 861204 | 18.89          | 63             | 05    | 55           | 05    | 2             | 329              |          |           | 5.04         |
| 02     | 02  | 861204 | 18.89          | 63             | 05    | 55           | 05    | 1             | 329              | 26 40 N  | 117 12 W  | 1.26         |

Table 2. (continued)

| Series | Leg | Date   | Speed<br>Km/Hr | Observer Codes |       | Sun Position |       | Beauf. No. | Course<br>(Deg.) | Position |                  | KM<br>In Leg |
|--------|-----|--------|----------------|----------------|-------|--------------|-------|------------|------------------|----------|------------------|--------------|
|        |     |        |                | Left           | Right | Horz.        | Vert. |            |                  | Latitude | Longitude        |              |
| 02     | 03  | 861204 | 18.89          | 05             | 55    | 63           | 05    | 02         | 1                | 329      |                  | 6.30         |
| 02     | 04  | 861204 | 18.89          | 55             | 63    | 05           | 05    | 02         | 1                | 329      |                  | 6.30         |
| 02     | 05  | 861204 | 18.89          | 64             | 38    | 61           |       |            | 1                | 329      |                  | 5.35         |
| 03     | 01  | 861204 | 17.96          | 38             | 61    | 64           | 06    | 01         | 0                | 331      | 26 59 N 117 27 W | 5.09         |
| 04     | 01  | 861204 | 17.96          | 63             | 55    | 05           | 06    | 01         | 0                | 331      | 27 02 N 117 29 W | 5.99         |
| 04     | 02  | 861204 | 17.96          | 55             | 05    | 63           | 06    | 01         | 0                | 331      |                  | 5.99         |
| 04     | 03  | 861204 | 17.96          | 05             | 63    | 55           | 07    | 01         | 0                | 331      |                  | 3.29         |
| 04     | 04  | 861204 | 17.96          | 61             | 64    | 38           | 07    | 01         | 0                | 331      |                  | 5.69         |
| 04     | 05  | 861204 | 17.96          | 05             | 63    | 55           | 07    | 01         | 0                | 331      |                  | 3.29         |
| 04     | 06  | 861204 | 17.96          | 63             | 55    | 05           | 07    | 01         | 0                | 331      |                  | 5.99         |
| 04     | 07  | 861204 | 17.96          | 55             | 05    | 63           | 07    | 01         | 0                | 331      |                  | 1.20         |
| 04     | 08  | 861204 | 17.96          | 64             | 38    | 61           | 08    | 01         | 1                | 331      |                  | 4.79         |
| 05     | 01  | 861204 | 17.96          | 38             | 61    | 64           | 08    | 01         | 1                | 331      | 27 16 N 117 45 W | 5.99         |
| 05     | 02  | 861204 | 17.96          | 61             | 64    | 38           | 08    | 01         | 1                | 331      |                  | 5.99         |
| 05     | 03  | 861204 | 17.96          | 64             | 38    | 61           | 08    | 02         | 1                | 331      |                  | 5.99         |
| 05     | 04  | 861204 | 17.96          | 38             | 61    | 64           | 08    | 02         | 1                | 331      |                  | 2.10         |
| 05     | 05  | 861204 | 17.96          | 63             | 55    | 05           | 09    | 02         | 1                | 331      |                  | 5.99         |
| 05     | 06  | 861204 | 17.96          | 55             | 05    | 63           | 09    | 02         | 1                | 331      |                  | 4.19         |
| 05     | 07  | 861204 | 17.96          | 55             | 05    | 63           | 09    | 02         | 1                | 334      |                  | 1.80         |
| 05     | 08  | 861204 | 17.96          | 05             | 63    | 55           | 09    | 02         | 1                | 334      |                  | 6.29         |
| 06     | 01  | 861204 | 17.96          | 63             | 55    | 05           | 09    | 02         | 1                | 334      | 27 35 N 117 56 W | 3.89         |
| 07     | 01  | 861204 | 17.96          | 38             | 64    | 61           |       |            | 1                | 334      | 27 44 N 117 56 W | 1.20         |



Table 3. Marine mammal sightings, classified by species code groups, encountered in the eastern tropical Pacific during July 29 through December 6, 1986.

| DATE<br>YRMOYD | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |       |
|----------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|-------|
|                |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST             | LOW   |
| 860802         | 01     | 12  | 01              | 09           | 01    | 2                | 05             | 1.0                 | 22 10 N             | 119 56 W             | 100.0                       | 77.0             | 66.0  |
| 860803         | 01     | 02  | 01              | 08           | 02    | 2                | 05             | 4.1                 | 19 15 N             | 121 21 W             | 52.0                        | 95.0             | 78.0  |
| 860803         | 07     | 09  | 07              | 03           | 02    | 3                | 38             | 1.7                 | 17 55 N             | 121 43 W             | 100.0                       | 116.0            | 112.0 |
| 860805         |        |     | 02              | 09           | 02    | 5                | 05             | 4.5                 | 12 13 N             | 123 02 W             | 100.0                       | 7.0              | 7.0   |
| 860805         | 01     | 03  | 01              | 09           | 02    | 5                | 38             | 0.2                 | 12 13 N             | 123 01 W             | 82.5                        | 67.0             | 57.0  |
| 860806         | 02     | 02  | 01              |              | 01    | 4                | 61             | 0.3                 | 08 35 N             | 123 30 W             | 100.0                       | 67.0             | 62.0  |
| 860809         | 01     | 06  | 01              | 12           | 12    | 3                | 64             | 0.2                 | 00 52 S             | 125 18 W             | 100.0                       | 82.0             | 70.0  |
| 860815         | 02     | 06  | 01              | 11           | 02    | 5                | 63             | 0.8                 | 02 43 S             | 117 45 W             | 91.7                        | 633.0            | 517.0 |
| 860817         | 03     | 09  | 03              | 06           | 01    | 3                | 38             | 2.2                 | 04 51 S             | 110 18 W             | 53.7                        | 177.0            | 151.0 |
| 860908         | 02     | 02  | 03              |              | 03    | 2                | 64             | 0.5                 | 08 32 S             | 087 43 W             | 20.0                        | 166.0            | 144.0 |
| 860910         | 01     | 12  | 01              |              | 01    | 4                | 55             | 0.2                 | 06 48 S             | 092 35 W             | 45.0                        | 16.0             | 12.0  |
| 860910         | 02     | 29  | 02              |              | 02    | 5                | 38             | 1.6                 | 07 33 S             | 093 41 W             | 100.0                       | 436.0            | 379.0 |
| 860917         | 01     | 07  | 01              |              | 01    | 5                | 55             | 3.3                 | 00 50 N             | 093 18 W             | 100.0                       | 151.0            | 117.0 |
| 860917         | 06     | 02  | 05              |              | 05    | 4                | 55             | 7.3                 | 01 24 N             | 092 48 W             | 55.6                        | 465.0            | 395.0 |
| 860917         | 07     | 04  | 09              |              | 09    | 4                | 61             | 0.1                 | 01 23 N             | 092 35 W             | 53.3                        | 417.0            | 333.0 |
| 860917         | 08     | 01  | 10              |              | 10    | 4                | 05             | 0.8                 | 01 N                | 092 W                | 20.0                        | 187.0            | 165.0 |
| 860918         | 01     | 02  | 01              |              | 01    | 4                | 05             | 0.5                 | 02 28 N             | 091 00 W             | 100.0                       | 37.0             | 29.0  |
| 860928         | 03     | 03  | 02              |              | 02    | 3                | 64             | 5.0                 | 04 13 N             | 081 25 W             | 100.0                       | 114.0            | 100.0 |
| 861009         |        |     | 05              | 03           | 12    | 5                | 61             | 7.4                 | 01 04 S             | 087 36 W             | 100.0                       | 192.0            | 175.0 |
| 861011         | 06     | 01  | 15              | 10           | 02    | 4                | 38             | 2.0                 | 00 25 S             | 093 53 W             | 100.0                       | 98.0             | 87.0  |
| 861012         | 02     | 13  | 01              | 04           | 01    | 5                | 64             | 0.1                 | 01 53 N             | 094 53 W             | 60.0                        | 170.0            | 145.0 |
| 861017         | 01     | 31  | 03              | 11           | 12    | 5                | 64             | 7.7                 | 02 24 N             | 113 25 W             | 100.0                       | 115.0            | 98.0  |
| 861017         | 02     | 03  | 04              | 11           | 02    | 5                | 61             | 1.8                 | 02 32 N             | 113 38 W             | 50.0                        | 255.0            | 237.0 |
| 861019         | 01     | 03  | 01              | 06           | 03    | 5                | 61             | 3.5                 | 03 42 N             | 118 55 W             | 71.0                        | 97.0             | 82.0  |
| 861019         | 02     | 06  | 02              |              | 02    | 5                | 63             | 1.1                 | 03 54 N             | 119 12 W             | 100.0                       | 34.0             | 27.0  |
| 861020         | 01     | 02  | 01              |              | 01    | 5                | 61             | 1.1                 | 04 21 N             | 121 48 W             | 100.0                       | 126.0            | 110.0 |
| 861020         | 02     | 08  | 02              |              | 02    | 6                | 05             | 4.1                 | 04 28 N             | 122 14 W             | 100.0                       | 47.0             | 38.0  |
| 861023         | 01     | 10  | 01              | 07           | 02    | 5                | 61             | 0.0                 | 05 15 N             | 131 55 W             | 100.0                       | 47.0             | 40.0  |
| 861023         | 02     | 01  | 02              | 07           | 01    | 5                | 38             | 1.6                 | 05 18 N             | 132 00 W             | 100.0                       | 68.0             | 62.0  |
| 861027         | 01     | 02  | 01              | 05           | 03    | 3                | 05             | 1.8                 | 07 17 N             | 143 56 W             | 100.0                       | 158.0            | 137.0 |
| 861028         | 04     | 06  | 04              | 12           | 12    | 3                | 64             | 0.5                 | 09 14 N             | 146 27 W             | 75.0                        | 179.0            | 156.0 |

SPECIES CODE: 2

SPECIES: OFFSHORE SPOTTED DOLPHIN  
(STENELLA ATTENUATA)

Table 3. (continued)

| DATE<br>YRMOYD | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>VERT. NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |       |
|----------------|--------|-----|-----------------|--------------|-------|------------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|-------|
|                |        |     |                 | HORZ.        | VERT. |                        |                |                     |                     |                      |                             | BEST             | LOW   |
| 861030         | 03     | 14  | 02              | 09           | 01    | 5                      | 38             | 0.3                 | 13 41 N             | 150 07 W             | 100.0                       | 84.0             | 70.0  |
| 861113         | 08     | 04  | 06              |              |       | 4                      | 38             | 0.0                 | 09 43 N             | 138 44 W             | 28.3                        | 533.0            | 467.0 |
| 861115         | 02     | 03  | 01              |              |       | 4                      | 61             | 0.5                 | 11 56 N             | 133 04 W             | 12.2                        | 200.0            | 171.0 |
| 861115         | 03     | 04  | 02              |              |       | 3                      | 55             | 0.4                 | 12 05 N             | 129 59 W             | 41.7                        | 73.0             | 63.0  |
| 861115         | 04     | 08  | 04              | 07           | 02    | 2                      | 64             | 9.4                 | 12 29 N             | 132 34 W             | 6.3                         | 420.0            | 383.0 |
| 861116         | 03     | 01  | 01              |              |       | 2                      | 64             | 4.1                 | 14 01 N             | 131 08 W             | 6.3                         | 417.0            | 395.0 |
| 861117         | 03     | 14  | 06              |              |       | 3                      | 38             | 0.4                 | 13 10 N             | 127 42 W             | 57.3                        | 93.0             | 73.0  |
| 861121         | 03     | 02  | 01              | 01           | 01    | 5                      | 38             | 0.1                 | 07 44 N             | 116 12 W             | 99.0                        | 112.0            | 92.0  |
| 861124         | 01     | 30  | 02              | 09           | 01    | 5                      | 61             | 0.5                 | 04 56 N             | 108 05 W             | 46.3                        | 155.0            | 131.0 |
| 861126         | 01     | 24  | 03              |              |       | 4                      | 38             | 0.6                 | 07 40 N             | 111 52 W             | 85.0                        | 207.0            | 179.0 |
| 861127         | 01     | 04  | 01              | 05           | 03    | 3                      | 63             | 1.9                 | 09 01 N             | 113 26 W             | 100.0                       | 170.0            | 138.0 |
| 861127         | 02     | 06  | 02              | 06           | 01    | 4                      | 61             | 0.6                 | 09 25 N             | 113 45 W             | 100.0                       | 175.0            | 158.0 |
| 861127         | 03     | 03  | 03              |              |       | 4                      | 38             | 2.6                 | 09 33 N             | 113 56 W             | 26.7                        | 167.0            | 138.0 |
| 861128         | 02     | 04  | 01              |              |       | 3                      | 55             | 2.0                 | 11 40 N             | 115 56 W             | 25.0                        | 112.0            | 97.0  |
| 861130         | 04     | 06  | 05              | 06           | 02    | 4                      | 63             | 3.1                 | 15 58 N             | 114 17 W             | 100.0                       | 80.0             | 68.0  |
| 861201         | 01     | 03  | 01              | 02           | 03    | 5                      | 61             | 0.0                 | 17 27 N             | 112 27 W             | 100.0                       | 45.0             | 38.0  |

Table 3. (continued)

| DATE<br>YRMO | SERIES | LEG | SIGHT<br>NUMBER | SUN<br>HORZ. | POSITION<br>VERT. | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |       |
|--------------|--------|-----|-----------------|--------------|-------------------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|-------|
|              |        |     |                 |              |                   |                  |                |                     |                     |                      |                             | BEST             | EST   |
| 860805       | 01     | 03  | 01              | 09           | 02                | 5                | 38             | 0.2                 | 12 13 N             | 123 01 W             | 17.5                        | 67.0             | 57.0  |
| 860910       | 01     | 12  | 01              |              |                   | 4                | 55             | 0.2                 | 06 48 S             | 092 35 W             | 5.0                         | 16.0             | 12.0  |
| 861126       | 01     | 24  | 03              |              |                   | 4                | 38             | 0.6                 | 07 40 N             | 111 52 W             | 15.0                        | 207.0            | 179.0 |

SPECIES CODE: 3

SPECIES: SPINNER DOLPHIN  
(STENELLA LONGIROSTRIS)

Table 3. (continued)

| DATE<br>YRMOYD | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |     | BEAUF.<br>VERT. NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |     |
|----------------|--------|-----|-----------------|--------------|-----|------------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|-----|
|                |        |     |                 | HORZ.        | EST |                        |                |                     |                     |                      |                             | BEST             | LOW |
| 860825         | 03     | 02  | 02              |              | 4   | 38                     | 0.1            | 03 38 S             | 085 18 W            | 100.0                | 720.0                       | 615.0            |     |
| 860826         | 01     | 02  | 02              |              | 2   | 55                     | 1.1            | 03 28 S             | 083 41 W            | 100.0                | 43.0                        | 41.0             |     |
| 860826         | 02     | 02  | 03              |              | 2   | 38                     | 0.4            | 03 24 S             | 083 32 W            | 100.0                | 72.0                        | 64.0             |     |
| 860826         | 05     | 01  | 08              |              | 2   | 38                     | 0.0            | 03 14 S             | 083 02 W            | 100.0                | 18.0                        | 14.0             |     |
| 860826         | 06     | 04  | 11              |              | 2   | 55                     | 1.3            | 03 09 S             | 082 38 W            | 100.0                | 242.0                       | 177.0            |     |
| 860905         | 01     | 16  | 01              |              | 5   | 64                     | 0.2            | 05 42 S             | 082 37 W            | 100.0                | 645.0                       | 590.0            |     |
| 860914         | 01     | 05  | 03              |              | 3   | 05                     | 0.0            | 00 07 N             | 099 37 W            | 100.0                | 91.0                        | 72.0             |     |
| 860916         | 01     | 07  | 01              |              | 5   | 55                     | 0.3            | 00 02 S             | 095 19 W            | 97.0                 | 69.0                        | 54.0             |     |
| 860916         | 03     | 01  | 03              |              | 4   | 64                     | 0.4            | 00 18 S             | 095 16 W            | 100.0                | 305.0                       | 238.0            |     |
| 860916         | 05     | 02  | 04              | 08           | 5   | 55                     | 3.1            | 00 31 S             | 094 28 W            | 100.0                | 267.0                       | 182.0            |     |
| 860925         | 02     | 05  | 02              |              | 5   | 55                     | 0.6            | 00 27 S             | 081 47 W            | 100.0                | 575.0                       | 500.0            |     |
| 860925         | 03     | 02  | 03              |              | 4   | 61                     | 0.4            | 00 35 S             | 081 49 W            | 100.0                | 1004.0                      | 880.0            |     |
| 860925         | 05     | 05  | 04              |              | 4   | 64                     | 0.4            | 00 52 S             | 081 56 W            | 100.0                | 367.0                       | 333.0            |     |
| 860925         | 09     | 06  | 06              |              | 4   | 38                     | 0.7            | 00 58 S             | 082 22 W            | 100.0                | 270.0                       | 227.0            |     |
| 861010         | 01     | 01  | 01              |              | 4   | 61                     | 1.8            | 01 54 S             | 089 05 W            | 100.0                | 137.0                       | 122.0            |     |
| 861010         | 03     | 09  | 04              |              | 3   | 61                     | 3.6            | 01 44 S             | 089 44 W            | 98.8                 | 1540.0                      | 1360.0           |     |
| 861010         | 07     | 03  | 11              |              | 3   | 38                     | 0.0            | 01 37 S             | 090 24 W            | 100.0                | 827.0                       | 712.0            |     |
| 861010         | 08     | 03  | 14              |              | 3   | 05                     | 5.2            | 01 34 S             | 090 45 W            | 100.0                | 455.0                       | 407.0            |     |
| 861011         | 01     | 01  | 01              |              | 3   | 61                     | 0.3            | 01 27 S             | 092 36 W            | 100.0                | 142.0                       | 125.0            |     |
| 861011         | 01     | 04  | 03              |              | 3   | 64                     | 1.0            | 01 27 S             | 092 45 W            | 100.0                | 123.0                       | 111.0            |     |
| 861117         | 04     | 01  | 07              |              | 4   | 64                     | 0.5            | 13 05 N             | 127 34 W            | 100.0                | 25.0                        | 21.0             |     |
| 861202         | 01     | 09  | 01              | 05           | 3   | 61                     | 2.6            | 21 07 N             | 113 49 W            | 100.0                | 315.0                       | 267.0            |     |
| 861202         | 03     | 01  | 02              | 06           | 3   | 05                     | 4.6            | 21 21 N             | 113 57 W            | 100.0                | 245.0                       | 200.0            |     |
| 861202         | 04     | 05  | 03              | 07           | 3   | 61                     | 4.8            | 21 34 N             | 114 02 W            | 100.0                | 694.0                       | 606.0            |     |
| 861202         | 07     | 03  | 05              | 09           | 2   | 05                     | 2.8            | 21 44 N             | 114 18 W            | 100.0                | 152.0                       | 134.0            |     |
| 861202         | 08     | 01  | 06              | 09           | 2   | 63                     | 1.2            | 21 45 N             | 114 21 W            | 100.0                | 35.0                        | 33.0             |     |
| 861203         | 01     | 08  | 02              | 05           | 0   | 38                     | 3.7            | 24 02 N             | 115 42 W            | 100.0                | 274.0                       | 248.0            |     |
| 861203         | 03     | 04  | 03              | 06           | 1   | 38                     | 5.6            | 24 11 N             | 115 52 W            | 100.0                | 312.0                       | 290.0            |     |
| 861204         | 04     | 08  | 08              | 08           | 1   | 64                     | 7.0            | 27 19 N             | 117 39 W            | 52.5                 | 277.0                       | 251.0            |     |
| 861204         | 06     | 01  | 12              | 09           | 1   | 55                     | 6.1            | 27 38 N             | 117 58 W            | 93.3                 | 223.0                       | 200.0            |     |
| 861204         | 07     | 01  | 14              |              | 1   | 64                     | 3.7            | 27 44 N             | 117 56 W            | 71.2                 | 425.0                       | 344.0            |     |

Table 3. (continued)

| DATE   | SERIES | LEG | SIGHT NUMBER | SUN POSITION | VERT. NUMBER | DETECTED BY | PERP. DIST. (KM) | LATITUDE DEG MIN | LONGITUDE DEG MIN | PROPORTION (% OF SCHOOL) | SPECIES CODE: 6  |         |
|--------|--------|-----|--------------|--------------|--------------|-------------|------------------|------------------|-------------------|--------------------------|------------------|---------|
|        |        |     |              |              |              |             |                  |                  |                   |                          | MEAN SCHOOL SIZE | EST LOW |
| 861004 | 01     | 01  | 01           | 2            | 61           | 0.2         | 08 45 N          | 079 29 W         | 100.0             | 15.0                     | 13.0             |         |
| 861004 | 01     | 04  | 05           | 1            | 55           | 1.1         | 08 32 N          | 079 29 W         | 100.0             | 67.0                     | 55.0             |         |
| 861004 | 02     | 01  | 06           | 1            | 38           | 1.2         | 08 26 N          | 079 28 W         | 100.0             | 159.0                    | 142.0            |         |

Tabel 3. (continued)

SPECIES: EASTERN SPINNER DOLPHIN  
(STENELLA LONGIROSTRIS)

SPECIES CODE: 10

| DATE<br>YRMO | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |       |
|--------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|-------|
|              |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST             | LOW   |
| 860804       | 01     | 04  | 01              | 09           | 02    | 3                | 38             | 0.2                 | 15 49 N             | 122 20 W             | 100.0                       | 7.0              | 7.0   |
| 860806       | 04     | 03  | 02              | 12           | 12    | 5                | 63             | 1.5                 | 08 09 N             | 123 46 W             | 10.0                        | 10.0             | 10.0  |
| 860815       | 02     | 06  | 01              | 11           | 02    | 5                | 63             | 0.8                 | 02 43 S             | 117 45 W             | 7.3                         | 633.0            | 517.0 |
| 861118       | 01     | 10  | 01              | 12           | 02    | 5                | 38             | 2.2                 | 12 18 N             | 125 58 W             | 99.0                        | 354.0            | 322.0 |
| 861128       | 02     | 04  | 01              |              |       | 3                | 55             | 2.0                 | 11 40 N             | 115 56 W             | 75.0                        | 112.0            | 97.0  |
| 861129       | 01     | 07  | 01              | 02           | 02    | 6                | 38             | 0.3                 | 13 33 N             | 117 31 W             | 100.0                       | 27.0             | 23.0  |

Table 3. (continued)

| DATE<br>YRMOYD | SERIES | LEG | SIGHT<br>NUMBER | SUN<br>HORZ. | SUN<br>VERT. | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | SPECIES CODE: 11 |         |
|----------------|--------|-----|-----------------|--------------|--------------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|---------|
|                |        |     |                 |              |              |                  |                |                     |                     |                      |                             | MEAN SCHOOL SIZE | EST LOW |
| 860803         | 01     | 02  | 01              | 08           | 02           | 2                | 05             | 4.1                 | 19 15 N             | 121 21 W             | 31.3                        | 95.0             | 78.0    |
| 860803         | 03     | 02  | 03              | 09           | 02           | 2                | 63             | 0.7                 | 19 05 N             | 121 26 W             | 100.0                       | 110.0            | 51.0    |
| 860810         | 05     | 01  | 06              | 01           | 01           | 3                | 55             | 0.4                 | 01 48 S             | 128 51 W             | 100.0                       | 89.0             | 71.0    |
| 860816         | 02     | 09  | 01              | 11           | 01           | 5                | 38             | 0.1                 | 03 51 S             | 114 23 W             | 100.0                       | 45.0             | 40.0    |
| 860817         | 03     | 09  | 03              | 06           | 01           | 3                | 38             | 2.2                 | 04 51 S             | 110 18 W             | 46.3                        | 177.0            | 151.0   |
| 860908         | 02     | 02  | 03              |              |              | 2                | 64             | 0.5                 | 08 32 S             | 087 43 W             | 60.0                        | 166.0            | 144.0   |
| 860917         | 06     | 02  | 05              |              |              | 4                | 55             | 7.3                 | 01 24 N             | 092 48 W             | 3.8                         | 465.0            | 395.0   |
| 860917         | 07     | 04  | 09              |              |              | 4                | 61             | 0.1                 | 01 23 N             | 092 35 W             | 46.7                        | 417.0            | 333.0   |
| 860917         | 08     | 01  | 10              |              |              | 4                | 05             | 0.8                 | 01 N                | 092 W                | 55.0                        | 187.0            | 165.0   |
| 861012         | 02     | 13  | 01              | 04           | 01           | 5                | 64             | 0.1                 | 01 53 N             | 094 53 W             | 40.0                        | 170.0            | 145.0   |
| 861014         | 03     | 10  | 02              |              |              | 5                | 63             | 0.5                 | 02 40 N             | 101 09 W             | 100.0                       | 41.0             | 37.0    |
| 861017         | 02     | 03  | 04              | 11           | 02           | 5                | 61             | 1.8                 | 02 32 N             | 113 38 W             | 50.0                        | 255.0            | 237.0   |
| 861019         | 01     | 03  | 01              | 06           | 03           | 5                | 61             | 3.5                 | 03 42 N             | 118 55 W             | 29.0                        | 97.0             | 82.0    |
| 861028         | 04     | 06  | 04              | 12           | 12           | 3                | 64             | 0.5                 | 09 14 N             | 146 27 W             | 25.0                        | 179.0            | 156.0   |
| 861113         | 08     | 04  | 06              |              |              | 4                | 38             | 0.0                 | 09 43 N             | 138 44 W             | 71.7                        | 533.0            | 467.0   |
| 861115         | 02     | 03  | 01              |              |              | 4                | 61             | 0.5                 | 11 56 N             | 133 04 W             | 87.7                        | 200.0            | 171.0   |
| 861115         | 03     | 04  | 02              |              |              | 3                | 55             | 0.4                 | 12 05 N             | 129 59 W             | 25.0                        | 73.0             | 63.0    |
| 861115         | 04     | 08  | 04              | 07           | 02           | 2                | 64             | 9.4                 | 12 29 N             | 132 34 W             | 93.7                        | 420.0            | 383.0   |
| 861116         | 03     | 01  | 01              |              |              | 2                | 64             | 4.1                 | 14 01 N             | 131 08 W             | 93.7                        | 417.0            | 395.0   |
| 861116         | 04     | 12  | 04              |              |              | 3                | 55             | 2.3                 | 14 36 N             | 130 28 W             | 100.0                       | 40.0             | 35.0    |
| 861117         | 01     | 08  | 02              | 12           | 02           | 3                | 55             | 0.7                 | 13 41 N             | 128 50 W             | 100.0                       | 31.0             | 27.0    |
| 861117         | 02     | 11  | 04              | 01           | 01           | 3                | 36             | 1.3                 | 13 27 N             | 128 23 W             | 38.3                        | 170.0            | 142.0   |
| 861117         | 03     | 14  | 06              |              |              | 3                | 38             | 0.4                 | 13 10 N             | 127 42 W             | 9.3                         | 93.0             | 73.0    |
| 861124         | 01     | 30  | 02              | 09           | 01           | 5                | 61             | 0.5                 | 04 56 N             | 108 05 W             | 53.8                        | 155.0            | 131.0   |
| 861127         | 03     | 03  | 03              |              |              | 4                | 38             | 2.6                 | 09 33 N             | 113 56 W             | 73.3                        | 167.0            | 138.0   |

Table 3. (continued)

SPECIES: STRIPED DOLPHIN  
(S. COERULEOALBA)

SPECIES CODE: 13

| DATE<br>YRMDY | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE EST |        |
|---------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|----------------------|--------|
|               |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST                 | LOW    |
| 860802        | 03     | 06  | 03              | 02           | 02    | 1                | 38             | 3.8                 | 21 21 N             | 120 18 W             | 65.8                        | 53.0                 | 45.0   |
| 860816        | 04     | 01  | 03              | 06           | 02    | 4                | 55             | 0.3                 | 04 08 S             | 113 31 W             | 100.0                       | 4.0                  | 3.0    |
| 860818        | 02     | 10  | 03              | 11           | 01    | 5                | 55             | 0.0                 | 05 18 S             | 107 51 W             | 100.0                       | 13.0                 | 10.0   |
| 860818        | 03     | 05  | 04              | 10           | 12    | 5                | 64             | 0.5                 | 05 17 S             | 107 36 W             | 100.0                       | 36.0                 | 30.0   |
| 860821        | 03     | 09  | 01              |              |       | 3                | 55             | 0.2                 | 02 10 S             | 096 59 W             | 100.0                       | 9.0                  | 7.0    |
| 860825        | 01     | 11  | 01              | 11           | 01    | 4                | 63             | 1.1                 | 03 40 S             | 085 43 W             | 100.0                       | 41.0                 | 36.0   |
| 860826        | 04     | 04  | 07              |              |       | 2                | 38             | 1.1                 | 03 17 S             | 083 06 W             | 100.0                       | 24.0                 | 20.0   |
| 860913        | 07     | 01  | 05              | 09           | 02    | 4                | 64             | 0.4                 | 02 18 S             | 099 32 W             | 100.0                       | 85.0                 | 61.0   |
| 860913        | 08     | 02  | 06              | 09           | 02    | 4                | 38             | 1.0                 | 02 02 S             | 099 31 W             | 100.0                       | 28.0                 | 24.0   |
| 860914        | 07     | 02  | 10              | 07           | 01    | 4                | 63             | 1.8                 | 00 47 N             | 098 49 W             | 100.0                       | 32.0                 | 27.0   |
| 860915        | 01     | 03  | 01              | 05           | 03    | 5                | 38             | 1.0                 | 00 26 S             | 097 18 W             | 100.0                       | 47.0                 | 42.0   |
| 860915        | 02     | 03  | 02              |              |       | 5                | 64             | 1.7                 | 00 22 S             | 097 17 W             | 100.0                       | 154.0                | 136.0  |
| 860915        | 03     | 01  | 03              |              |       | 5                | 38             | 0.8                 | 00 21 S             | 097 16 W             | 100.0                       | 0.0*                 | 15.0   |
| 860915        | 09     | 02  | 06              |              |       | 5                | 38             | 0.3                 | 00 27 N             | 096 29 W             | 100.0                       | 20.0                 | 15.0   |
| 860915        | 10     | 03  | 07              |              |       | 5                | 61             | 0.1                 | 00 35 N             | 096 22 W             | 100.0                       | 252.0                | 220.0  |
| 860917        | 04     | 04  | 03              |              |       | 5                | 38             | 0.5                 | 01 15 N             | 092 55 W             | 97.0                        | 107.0                | 88.0   |
| 860917        | 07     | 04  | 08              |              |       | 4                | 38             | 0.0                 | 01 23 N             | 092 35 W             | 100.0                       | 62.0                 | 47.0   |
| 860918        | 03     | 02  | 02              |              |       | 4                | 05             | 0.5                 | 02 33 N             | 090 51 W             | 100.0                       | 21.0                 | 17.0   |
| 860918        | 05     | 13  | 05              |              |       | 5                | 61             | 0.6                 | 03 12 N             | 089 12 W             | 100.0                       | 138.0                | 123.0  |
| 860919        | 01     | 05  | 01              |              |       | 5                | 63             | 0.2                 | 03 59 N             | 087 10 W             | 100.0                       | 38.0                 | 33.0   |
| 860920        | 03     | 01  | 04              |              |       | 3                | 64             | 1.0                 | 05 52 N             | 082 51 W             | 100.0                       | 78.0                 | 67.0   |
| 860923        | 04     | 03  | 04              |              |       | 3                | 38             | 2.8                 | 05 46 N             | 079 32 W             | 100.0                       | 62.0                 | 52.0   |
| 860923        | 07     | 01  | 07              |              |       | 4                | 05             | 1.3                 | 05 27 N             | 079 39 W             | 100.0                       | 63.0                 | 56.0   |
| 860926        |        |     | 05              |              |       | 4                | 38             | 2.9                 | 00 42 S             | 085 03 W             | 100.0                       | 0.0*                 | 75.0   |
| 860927        | 04     | 14  | 02              |              |       | 5                | 05             | 0.5                 | 01 44 N             | 082 29 W             | 100.0                       | 36.0                 | 32.0   |
| 861009        | 02     | 08  | 02              |              |       | 5                | 05             | 4.0                 | 00 34 S             | 087 34 W             | 100.0                       | 73.0                 | 67.0   |
| 861009        | 03     | 09  | 03              |              |       | 5                | 38             | 0.0                 | 00 54 S             | 087 34 W             | 100.0                       | 53.0                 | 48.0   |
| 861009        | 03     | 12  | 04              | 03           | 12    | 5                | 61             | 3.1                 | 01 04 S             | 087 36 W             | 100.0                       | 48.0                 | 42.0   |
| 861009        | 04     | 08  | 06              | 03           | 02    | 4                | 05             | 5.0                 | 01 20 S             | 087 41 W             | 100.0                       | 280.0                | 255.0  |
| 861010        | 03     | 09  | 04              |              |       | 3                | 61             | 3.6                 | 01 44 S             | 089 44 W             | 1.2                         | 1540.0               | 1360.0 |
| 861010        | 04     | 05  | 06              | 12           | 12    | 3                | 64             | 1.9                 | 01 41 S             | 089 58 W             | 56.5                        | 91.0                 | 81.0   |



Table 3. (continued)

| DATE<br>YRMO | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |       |
|--------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|-------|
|              |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST             | LOW   |
| 861011       | 04     | 03  | 11              |              |       | 3                | 38             | 2.5                 | 01 26 S             | 093 09 W             | 100.0                       | 47.0             | 41.0  |
| 861011       | 06     | 02  | 16              | 10           | 03    | 3                | 38             | 1.3                 | 00 16 S             | 093 56 W             | 100.0                       | 61.0             | 53.0  |
| 861021       | 03     | 17  | 07              |              |       | 5                | 38             | 0.7                 | 05 43 N             | 126 35 W             | 100.0                       | 37.0             | 30.0  |
| 861022       | 01     | 20  | 02              | 08           | 12    | 5                | 61             | 0.4                 | 05 42 N             | 128 52 W             | 100.0                       | 62.0             | 53.0  |
| 861026       | 02     | 02  | 01              |              |       | 3                | 05             | 0.9                 | 06 22 N             | 141 32 W             | 100.0                       | 1.0              | 1.0   |
| 861027       | 04     | 15  | 03              | 11           | 02    | 4                | 38             | 1.0                 | 07 53 N             | 145 26 W             | 100.0                       | 38.0             | 30.0  |
| 861028       | 01     | 06  | 01              | 05           | 02    | 3                | 64             | 1.6                 | 08 34 N             | 146 04 W             | 100.0                       | 74.0             | 64.0  |
| 861028       | 03     | 02  | 03              | 05           | 01    | 3                | 05             | 1.7                 | 08 53 N             | 146 13 W             | 100.0                       | 84.0             | 73.0  |
| 861117       | 02     | 11  | 04              | 01           | 01    | 3                | 36             | 1.3                 | 13 27 N             | 128 23 W             | 61.7                        | 170.0            | 142.0 |
| 861124       | 02     | 03  | 03              | 10           | 02    | 5                | 61             | 1.4                 | 05 06 N             | 108 10 W             | 100.0                       | 162.0            | 142.0 |
| 861125       | 01     | 05  | 01              | 06           | 02    | 5                | 38             | 0.0                 | 05 46 N             | 109 09 W             | 100.0                       | 47.0             | 38.0  |
| 861125       | 02     | 07  | 03              | 06           | 01    | 6                | 05             | 0.2                 | 05 55 N             | 109 22 W             | 100.0                       | 123.0            | 112.0 |
| 861129       | 02     | 16  | 02              | 04           | 12    | 5                | 64             | 0.1                 | 14 01 N             | 116 54 W             | 100.0                       | 77.0             | 66.0  |
| 861204       | 01     | 02  | 01              | 05           | 03    | 2                | 61             | 0.2                 | 26 38 N             | 117 07 W             | 100.0                       | 58.0             | 48.0  |
| 861204       | 02     | 05  | 02              |              |       | 1                | 38             | 0.4                 | 26 51 N             | 117 16 W             | 100.0                       | 52.0             | 43.0  |
| 861204       | 02     | 05  | 03              |              |       | 1                | 64             | 6.4                 | 26 51 N             | 117 16 W             | 100.0                       | 719.0            | 581.0 |
| 861204       | 04     | 08  | 08              | 08           | 01    | 1                | 64             | 7.0                 | 27 19 N             | 117 39 W             | 47.5                        | 277.0            | 251.0 |
| 861204       | 06     | 01  | 12              | 09           | 02    | 1                | 55             | 6.1                 | 27 38 N             | 117 58 W             | 6.7                         | 223.0            | 200.0 |
| 861204       | 07     | 01  | 14              |              |       | 1                | 64             | 3.7                 | 27 44 N             | 117 56 W             | 28.7                        | 425.0            | 344.0 |

Table 3. (continued)

| DATE<br>YRMOYD | SERIES | LEG | SIGHT NUMBER |    | SUN<br>HORZ. | VERT. | POSITION<br>NUMBER | BEAUF.<br>BY | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) |      | MEAN SCHOOL<br>SIZE | EST<br>LOW |
|----------------|--------|-----|--------------|----|--------------|-------|--------------------|--------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------|---------------------|------------|
|                |        |     | 04           | 03 |              |       |                    |              |                |                     |                     |                      | BEST                        | LOW  |                     |            |
| 860803         | 03     | 02  | 04           | 02 | 09           | 02    | 2                  | 38           | 0.1            | 19 05 N             | 121 26 W            | 100.0                | 1.0                         | 1.0  |                     |            |
| 860928         | 04     | 01  | 03           | 12 | 12           | 12    | 3                  | 64           | 0.0            | 04 12 N             | 081 24 W            | 20.0                 | 78.0                        | 68.0 |                     |            |
| 860929         | 04     | 03  | 06           | 02 | 02           | 01    | 1                  | 05           | 4.0            | 06 40 N             | 079 53 W            | 58.0                 | 31.0                        | 27.0 |                     |            |
| 861005         | 06     | 01  | 08           | 12 | 12           | 12    | 2                  | 55           | 0.4            | 06 41 N             | 081 41 W            | 100.0                | 3.0                         | 2.0  |                     |            |

SPECIES CODE: 15

SPECIES: ROUGH-TOOTHED DOLPHIN  
(STENO BREIDANENSIS)

Table 3. (continued)

SPECIES: BOTTLENOSED DOLPHINS  
(TURSIOPS TRUNCATUS)

SPECIES CODE: 18

| DATE<br>YRMOY | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE EST |       |
|---------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|----------------------|-------|
|               |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST                 | LOW   |
| 860802        | 03     | 06  | 03              | 02           | 02    | 1                | 38             | 3.8                 | 21 21 N             | 120 18 W             | 9.3                         | 53.0                 | 45.0  |
| 860811        | 02     | 02  | 02              | 11           | 01    | 5                | 61             | 0.9                 | 02 01 S             | 130 11 W             | 100.0                       | 1.0                  | 1.0   |
| 860815        | 02     | 06  | 01              | 11           | 02    | 5                | 63             | 0.8                 | 02 43 S             | 117 45 W             | 1.0                         | 633.0                | 517.0 |
| 860817        | 01     | 17  | 02              | 12           | 12    | 4                | 55             | 2.1                 | 04 45 S             | 110 42 W             | 22.6                        | 16.0                 | 14.0  |
| 860826        | 11     | 03  | 14              | 07           | 01    | 2                | 38             | 2.6                 | 03 06 S             | 082 24 W             | 100.0                       | 19.0                 | 14.0  |
| 860906        | 01     | 02  | 01              |              |       | 5                | 38             | 0.2                 | 09 06 S             | 083 42 W             | 20.0                        | 0.0*                 | 25.0  |
| 860908        | 01     | 13  | 02              |              |       | 2                | 38             | 1.5                 | 08 43 S             | 087 36 W             | 90.0                        | 55.0                 | 40.0  |
| 860909        | 03     | 03  | 05              | 12           | 12    | 3                | 64             | 0.2                 | 05 04 S             | 089 57 W             | 7.5                         | 6.0                  | 6.0   |
| 860913        | 05     | 04  | 04              | 12           | 12    | 5                | 38             | 1.0                 | 02 53 S             | 099 30 W             | 12.0                        | 21.0                 | 16.0  |
| 860916        | 01     | 07  | 01              |              |       | 5                | 55             | 0.3                 | 00 02 S             | 095 19 W             | 3.0                         | 69.0                 | 54.0  |
| 860920        | 02     | 02  | 02              | 01           | 01    | 3                | 38             | 1.8                 | 05 50 N             | 082 56 W             | 50.0                        | 4.0                  | 4.0   |
| 860921        | 01     | 03  | 01              |              |       | 1                | 64             | 0.2                 | 07 59 N             | 079 30 W             | 100.0                       | 15.0                 | 14.0  |
| 860921        | 03     | 09  | 07              |              |       | 2                | 38             | 2.6                 | 08 37 N             | 079 29 W             | 100.0                       | 8.0                  | 6.0   |
| 860923        | 05     | 01  | 06              |              |       | 3                | 63             | 3.9                 | 05 41 N             | 079 34 W             | 4.3                         | 262.0                | 238.0 |
| 860927        | 03     | 04  | 01              |              |       | 5                | 61             | 2.0                 | 01 30 N             | 082 59 W             | 30.8                        | 18.0                 | 15.0  |
| 860928        | 04     | 01  | 03              | 12           | 12    | 3                | 64             | 0.0                 | 04 12 N             | 081 24 W             | 5.0                         | 78.0                 | 68.0  |
| 860929        | 04     | 03  | 06              | 02           | 01    | 1                | 05             | 4.0                 | 06 40 N             | 079 53 W             | 34.0                        | 31.0                 | 27.0  |
| 861004        | 03     | 03  | 07              |              |       | 1                | 05             | 3.5                 | 08 12 N             | 079 27 W             | 100.0                       | 163.0                | 143.0 |
| 861005        | 01     | 01  | 01              |              |       | 4                | 63             | 0.7                 | 06 51 N             | 080 38 W             | 50.0                        | 14.0                 | 12.0  |
| 861005        | 05     | 04  | 07              | 12           | 12    | 3                | 61             | 4.0                 | 06 38 N             | 081 35 W             | 27.0                        | 22.0                 | 19.0  |
| 861010        |        |     | 12              |              |       | 3                | 38             | 0.5                 | 01 37 S             | 090 26 W             | 30.0                        | 32.0                 | 27.0  |
| 861010        | 02     | 03  | 02              |              |       | 3                | 55             | 0.0                 | 01 48 S             | 089 14 W             | 30.0                        | 22.0                 | 19.0  |
| 861010        | 04     | 05  | 06              | 12           | 12    | 3                | 64             | 1.9                 | 01 41 S             | 089 58 W             | 31.5                        | 91.0                 | 81.0  |
| 861010        | 05     | 01  | 07              |              |       | 3                | 05             | 1.0                 | 01 41 S             | 090 03 W             | 100.0                       | 131.0                | 117.0 |
| 861010        | 06     | 03  | 10              |              |       | 3                | 63             | 0.1                 | 01 38 S             | 090 14 W             | 53.3                        | 23.0                 | 21.0  |
| 861116        | 04     | 11  | 03              |              |       | 3                | 55             | 3.0                 | 14 39 N             | 130 32 W             | 25.0                        | 15.0                 | 11.0  |
| 861130        | 01     | 05  | 03              | 02           | 02    | 3                | 05             | 2.3                 | 15 21 N             | 115 07 W             | 100.0                       | 211.0                | 178.0 |

Table 3. (continued)

SPECIES: RISSO'S DOLPHIN  
(GRAMPUS GRISEUS)

SPECIES CODE: 21

| DATE<br>YR/MO/DY | SERIES | LEG | SIGHT NUMBER |     | SUN POSITION<br>HORZ. VERT. | BEAUF. NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |      | EST |
|------------------|--------|-----|--------------|-----|-----------------------------|---------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|------|-----|
|                  |        |     | NO.          | NO. |                             |               |                |                     |                     |                      |                             | BEST             | LOW  |     |
| 860809           | 02     | 03  | 02           | 01  | 02                          | 05            | 05             | 0.2                 | 00 54 S             | 125 29 W             | 100.0                       | 15.0             | 13.0 |     |
| 860809           | 03     | 10  | 04           | 02  | 01                          | 64            | 64             | 0.6                 | 01 03 S             | 126 03 W             | 100.0                       | 6.0              | 5.0  |     |
| 860905           | 02     | 06  | 02           |     |                             | 55            | 55             | 0.1                 | 05 52 S             | 082 41 W             | 100.0                       | 3.0              | 3.0  |     |
| 860906           | 01     | 02  | 01           |     |                             | 38            | 38             | 0.2                 | 09 06 S             | 083 42 W             | 80.0                        | 0.0*             | 25.0 |     |
| 860908           | 01     | 13  | 02           |     |                             | 38            | 38             | 1.5                 | 08 43 S             | 087 36 W             | 10.0                        | 55.0             | 40.0 |     |
| 860908           | 03     | 23  | 06           |     |                             | 55            | 55             | 0.3                 | 07 34 S             | 088 20 W             | 100.0                       | 6.0              | 5.0  |     |
| 860909           | 03     | 03  | 05           | 12  |                             | 64            | 64             | 0.2                 | 05 04 S             | 089 57 W             | 42.5                        | 6.0              | 6.0  |     |
| 860913           | 04     | 01  | 03           | 12  |                             | 61            | 61             | 0.2                 | 03 03 S             | 099 29 W             | 100.0                       | 4.0              | 4.0  |     |
| 860913           | 05     | 04  | 04           | 12  |                             | 38            | 38             | 1.0                 | 02 53 S             | 099 30 W             | 12.0                        | 21.0             | 16.0 |     |
| 860924           | 01     | 09  | 01           | 02  |                             | 38            | 38             | 0.3                 | 02 53 N             | 080 36 W             | 100.0                       | 4.0              | 4.0  |     |
| 860926           | 05     | 17  | 07           |     |                             | 05            | 05             | 0.5                 | 00 14 N             | 084 45 W             | 100.0                       | 1.0              | 1.0  |     |
| 860927           | 03     | 04  | 01           |     |                             | 61            | 61             | 2.0                 | 01 30 N             | 082 59 W             | 69.3                        | 18.0             | 15.0 |     |
| 860928           | 04     | 01  | 03           | 12  |                             | 64            | 64             | 0.0                 | 04 12 N             | 081 24 W             | 75.0                        | 78.0             | 68.0 |     |
| 861010           |        |     | 12           |     |                             | 38            | 38             | 0.5                 | 01 37 S             | 090 26 W             | 25.0                        | 32.0             | 27.0 |     |
| 861010           | 06     | 03  | 09           |     |                             | 61            | 61             | 0.0                 | 01 38 S             | 090 14 W             | 100.0                       | 3.0              | 3.0  |     |
| 861026           | 03     | 02  | 02           |     |                             | 55            | 55             | 0.9                 | 06 24 N             | 141 39 W             | 100.0                       | 6.0              | 5.0  |     |
| 861026           | 06     | 02  | 06           |     |                             | 05            | 05             | 1.1                 | 06 32 N             | 142 01 W             | 100.0                       | 9.0              | 8.0  |     |
| 861116           |        |     | 02           |     |                             | 63            | 63             | 0.0                 | 13 58 N             | 131 09 W             | 100.0                       | 6.0              | 5.0  |     |
| 861130           | 02     | 11  | 04           | 01  | 04                          | 61            | 61             | 1.3                 | 15 46 N             | 114 36 W             | 100.0                       | 17.0             | 15.0 |     |

Tabel 3. (continued)

SPECIES: FRASER'S DOLPHIN  
(LAGENODELPHIS HOSEI)

SPECIES CODE: 26

| DATE<br>YRMOYD | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE EST |       |
|----------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|----------------------|-------|
|                |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST                 | LOW   |
| 860810         | 01     | 02  | 01              | 06           | 03    | 2                | 61             | 0.6                 | 01 37 S             | 127 55 W             | 100.0                       | 384.0                | 292.0 |
| 860811         | 01     | 09  | 01              | 11           | 01    | 5                | 63             | 0.8                 | 02 03 S             | 130 14 W             | 100.0                       | 17.0                 | 13.0  |
| 861021         | 02     | 07  | 05              | 09           | 12    | 5                | 38             | 2.0                 | 05 32 N             | 125 50 W             | 100.0                       | 533.0                | 467.0 |
| 861025         |        |     | 02              | 11           | 02    | 5                | 64             | 1.7                 | 05 39 N             | 139 29 W             | 100.0                       | 525.0                | 392.0 |

Table 3. (continued)

|        |        | SPECIES: MELON-HEADED WHALE<br>(PEPONOCEPHALA ELECTRA) |              |                        |          |                    |                  |                  |                   |                          |                  | SPECIES CODE: 31 |  |
|--------|--------|--|--------------|------------------------|----------|--------------------|------------------|------------------|-------------------|--------------------------|------------------|------------------|--|
| DATE   | SERIES | LEG  | SIGHT NUMBER | SUN HORZ. VERT. NUMBER | POSITION | BEAUF. DETECTED BY | PERP. DIST. (KM) | LATITUDE DEG MIN | LONGITUDE DEG MIN | PROPORTION (% OF SCHOOL) | MEAN SCHOOL SIZE | SCHOOL SIZE EST  |  |
| YRMODY |        |  |              |                        |          |                    |                  |                  |                   |                          | BEST             | LOW              |  |
| 860923 | 05     | 01   | 06           | 3                      | 63       | 3.9                | 05 41 N          | 079 34 W         | 79.0              | 262.0                    | 238.0            |                  |  |

Table 3. (continued)

SPECIES: FALSE KILLER WHALE  
(PSEUDORCA CRASSIDENS)      SPECIES CODE: 33

| DATE | SERIES | LEG | SIGHT NUMBER | SUN HORZ. | SUN VERT. | POSITION | BEAUF. DETECTED BY | PERP. DIST. (KM) | LATITUDE DEG MIN | LONGITUDE DEG MIN | PROPORTION (% OF SCHOOL) | MEAN SCHOOL SIZE | SCHOOL SIZE EST |
|------|--------|-----|--------------|-----------|-----------|----------|--------------------|------------------|------------------|-------------------|--------------------------|------------------|-----------------|
| YR   | MO     | DAY | HR           | MIN       | SEC       |          |                    |                  |                  |                   |                          | BEST             | LOW             |
| 86   | 09     | 13  | 05           | 04        | 12        | 12       | 5                  | 38               | 02 53 S          | 099 30 W          | 76.0                     | 21.0             | 16.0            |
| 86   | 11     | 13  | 03           | 02        | 11        | 01       | 3                  | 63               | 10 28 N          | 139 17 W          | 100.0                    | 12.0             | 11.0            |

Table 3. (continued)

SPECIES: PILOT WHALE  
(GLOBICEPHALA SP.)

SPECIES CODE: 34

| DATE<br>YRMDY | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE EST |      |
|---------------|--------|-----|-----------------|--------------|-------|----------------|---------------------|---------------------|----------------------|-----------------------------|----------------------|------|
|               |        |     |                 | HORZ.        | VERT. |                |                     |                     |                      |                             | BEST                 | LOW  |
| 860815        | 04     | 04  | 03              | 09           | 12    | 6              | 0.6                 | 02 45 S             | 117 14 W             | 100.0                       | 4.0                  | 4.0  |
| 860817        | 01     | 17  | 02              | 12           | 12    | 4              | 2.1                 | 04 45 S             | 110 42 W             | 77.4                        | 16.0                 | 14.0 |
| 860914        |        |     | 05              |              |       | 3              | 0.4                 | 00 13 N             | 099 29 W             | 100.0                       | 2.0                  | 2.0  |
| 860914        | 05     | 02  | 09              | 12           | 12    | 4              | 0.7                 | 00 41 N             | 098 51 W             | 100.0                       | 35.0                 | 34.0 |
| 860915        | 08     | 04  | 05              | 12           | 12    | 5              | 0.5                 | 00 22 N             | 096 33 W             | 85.5                        | 17.0                 | 15.0 |
| 860917        | 04     | 04  | 03              |              |       | 5              | 0.5                 | 01 15 N             | 092 55 W             | 3.0                         | 107.0                | 88.0 |
| 860926        | 01     | 01  | 01              |              |       | 5              | 1.1                 | 00 58 S             | 084 47 W             | 100.0                       | 2.0                  | 2.0  |
| 860928        | 05     | 12  | 05              |              |       | 3              | 0.1                 | 04 38 N             | 081 06 W             | 100.0                       | 7.0                  | 5.0  |
| 861005        | 01     | 01  | 01              |              |       | 4              | 0.7                 | 06 51 N             | 080 38 W             | 50.0                        | 14.0                 | 12.0 |
| 861005        | 04     | 06  | 05              | 08           | 12    | 4              | 2.3                 | 06 41 N             | 081 26 W             | 100.0                       | 4.0                  | 4.0  |
| 861005        | 05     | 04  | 07              | 12           | 12    | 3              | 4.0                 | 06 38 N             | 081 35 W             | 73.0                        | 22.0                 | 19.0 |
| 861010        |        |     | 12              |              |       | 3              | 0.5                 | 01 37 S             | 090 26 W             | 45.0                        | 32.0                 | 27.0 |
| 861010        | 02     | 03  | 02              |              |       | 3              | 0.0                 | 01 48 S             | 089 14 W             | 70.0                        | 22.0                 | 19.0 |
| 861010        | 03     | 01  | 03              |              |       | 3              | 0.6                 | 01 47 S             | 089 21 W             | 80.0                        | 12.0                 | 10.0 |
| 861010        | 04     | 05  | 06              | 12           | 12    | 3              | 1.9                 | 01 41 S             | 089 58 W             | 12.0                        | 91.0                 | 81.0 |
| 861010        | 06     | 03  | 10              |              |       | 3              | 0.1                 | 01 38 S             | 090 14 W             | 46.8                        | 23.0                 | 21.0 |
| 861011        | 02     | 02  | 06              |              |       | 3              | 0.3                 | 01 26 S             | 092 52 W             | 100.0                       | 4.0                  | 3.0  |
| 861011        | 03     | 02  | 07              |              |       | 3              | 1.9                 | 01 26 S             | 092 56 W             | 85.0                        | 12.0                 | 12.0 |
| 861116        | 04     | 11  | 03              |              |       | 3              | 3.0                 | 14 39 N             | 130 32 W             | 75.0                        | 15.0                 | 11.0 |
| 861126        | 01     | 05  | 01              |              |       | 4              | 3.6                 | 07 04 N             | 111 21 W             | 100.0                       | 4.0                  | 4.0  |
| 861127        | 03     | 03  | 04              |              |       | 4              | 1.4                 | 09 33 N             | 113 56 W             | 100.0                       | 4.0                  | 4.0  |



Table 3. (continued)

SPECIES: KILLER WHALE  
(ORCINUS ORCA)

SPECIES CODE: 37

| DATE<br>YRMDY | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |     |
|---------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|-----|
|               |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST             | LOW |
| 860907        | 01     | 35  | 04              |              |       | 3                | 63             | 2.2                 | 11 05 S             | 086 08 W             | 100.0                       | 7.0              | 6.0 |
| 860913        | 02     | 05  | 01              | 03           | 01    | 4                | 64             | 0.0                 | 03 09 S             | 099 24 W             | 100.0                       | 3.0              | 3.0 |
| 860926        | 02     | 07  | 02              |              |       | 5                | 64             | 3.8                 | 00 59 S             | 085 05 W             | 100.0                       | 3.0              | 3.0 |
| 861113        | 06     | 07  | 05              | 02           | 01    | 3                | 63             | 1.0                 | 10 04 N             | 138 59 W             | 100.0                       | 6.0              | 6.0 |

Table 3. (continued)

| DATE   | SERIES | LEG | SIGHT NUMBER | SUN POSITION |       | BEAUF. NUMBER | DETECTED BY | PERP. DIST. (KM) | LATITUDE DEG MIN | LONGITUDE DEG MIN | PROPORTION (% OF SCHOOL) |      | MEAN SCHOOL SIZE | EST LOW |
|--------|--------|-----|--------------|--------------|-------|---------------|-------------|------------------|------------------|-------------------|--------------------------|------|------------------|---------|
|        |        |     |              | HORZ.        | VERT. |               |             |                  |                  |                   | BEST                     | LOW  |                  |         |
| 860826 | 03     | 01  | 04           |              |       | 2             | 61          | 2.8              | 03 22 S          | 083 23 W          | 100.0                    | 8.0  | 7.0              |         |
| 860914 | 01     | 04  | 02           |              |       | 3             | 63          | 4.1              | 00 03 N          | 099 35 W          | 100.0                    | 10.0 | 8.0              |         |
| 860918 | 04     | 18  | 04           |              |       | 5             | 63          | 2.4              | 02 56 N          | 089 54 W          | 100.0                    | 9.0  | 8.0              |         |
| 860920 | 02     | 02  | 02           | 01           |       | 3             | 38          | 1.8              | 05 50 N          | 082 56 W          | 50.0                     | 4.0  | 4.0              |         |
| 860920 | 04     | 01  | 05           |              |       | 3             | 38          | 0.3              | 05 50 N          | 082 46 W          | 100.0                    | 11.0 | 11.0             |         |
| 860923 | 05     | 01  | 05           |              |       | 3             | 38          | 0.3              | 05 43 N          | 079 33 W          | 100.0                    | 5.0  | 5.0              |         |
| 860924 |        |     | 03           |              |       | 6             |             | 0.0              | 02 13 N          | 080 52 W          | 100.0                    | 4.0  | 4.0              |         |
| 860926 | 04     | 07  | 06           |              |       | 4             | 05          | 1.4              | 00 24 S          | 085 03 W          | 100.0                    | 10.0 | 10.0             |         |
| 860929 | 01     | 01  | 01           |              |       | 3             | 38          | 0.4              | 06 06 N          | 080 08 W          | 100.0                    | 1.0  | 1.0              |         |
| 860929 | 04     | 02  | 05           | 02           |       | 1             | 64          | 4.0              | 06 39 N          | 079 54 W          | 100.0                    | 2.0  | 2.0              |         |
| 860929 | 04     | 03  | 06           | 02           | 01    | 1             | 05          | 4.0              | 06 40 N          | 079 53 W          | 8.0                      | 31.0 | 27.0             |         |
| 861011 | 01     | 03  | 02           |              |       | 3             | 63          | 1.5              | 01 27 S          | 092 43 W          | 100.0                    | 1.0  | 1.0              |         |
| 861011 | 02     | 01  | 05           |              |       | 3             | 05          | 2.9              | 01 26 S          | 092 50 W          | 100.0                    | 2.0  | 2.0              |         |
| 861011 | 03     | 02  | 09           |              |       | 3             | 38          | 7.4              | 01 26 S          | 092 58 W          | 100.0                    | 1.0  | 1.0              |         |
| 861012 | 03     | 14  | 04           |              |       | 6             | 55          | 2.5              | 02 34 N          | 095 08 W          | 100.0                    | 1.0  | 1.0              |         |
| 861022 | 02     | 15  | 03           | 12           | 02    | 5             | 55          | 2.5              | 05 37 N          | 129 37 W          | 100.0                    | 6.0  | 6.0              |         |
| 861028 | 02     | 05  | 02           | 05           | 01    | 3             | 64          | 3.1              | 08 50 N          | 146 11 W          | 100.0                    | 1.0  | 1.0              |         |
| 861101 | 01     | 03  | 01           | 05           | 03    | 5             | 55          | 3.5              | 17 24 N          | 153 28 W          | 100.0                    | 1.0  | 1.0              |         |
| 861125 | 02     | 03  | 02           |              |       | 5             | 55          | 2.6              | 05 49 N          | 109 13 W          | 100.0                    | 2.0  | 2.0              |         |

SPECIES CODE: 46

SPECIES: SPERM WHALE  
(PHYSETER MACROCEPHALUS)

Table 3. (continued)

|        |        | SPECIES: PYGMY SPERM WHALE<br>(KOGIA BREVICEPS) |              |           |           |          |               |             |                  |                  |                   | SPECIES CODE: 47         |                  |         |
|--------|--------|---|--------------|-----------|-----------|----------|---------------|-------------|------------------|------------------|-------------------|--------------------------|------------------|---------|
| DATE   | SERIES | LEG   | SIGHT NUMBER | SUN HORZ. | SUN VERT. | POSITION | BEAUF. NUMBER | DETECTED BY | PERP. DIST. (KM) | LATITUDE DEG MIN | LONGITUDE DEG MIN | PROPORTION (% OF SCHOOL) | MEAN SCHOOL SIZE | EST LOW |
| 861203 | 04     | 05  | 05           | 07        | 01        | 0        | 05            | 05          | 1.1              | 24 29 N          | 115 58 W          | 100.0                    | 1.0              | 1.0     |
| 861204 | 04     | 05  | 07           | 07        | 01        | 0        | 05            | 05          | 1.4              | 27 13 N          | 117 35 W          | 100.0                    | 1.0              | 1.0     |

Table 3. (continued)

SPECIES: BEAKED WHALE  
(ZIPHIID)

SPECIES CODE: 49

| DATE<br>YRMO | SERIES | LEG | SIGHT<br>NUMBER | SUN<br>HORZ. | POSITION<br>VERT. | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) |     | MEAN SCHOOL<br>SIZE | EST<br>LOW |
|--------------|--------|-----|-----------------|--------------|-------------------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|-----|---------------------|------------|
|              |        |     |                 |              |                   |                  |                |                     |                     |                      | BEST                        | LOW |                     |            |
| 860803       | 04     | 08  | 05              | 12           | 12                | 1                | 64             | 0.1                 | 18 40 N             | 121 30 W             | 100.0                       | 1.0 | 1.0                 | 1.0        |
| 860811       | 03     | 16  | 04              | 07           | 01                | 5                | 64             | 0.1                 | 02 07 S             | 129 26 W             | 100.0                       | 3.0 | 3.0                 | 3.0        |
| 860826       | 04     | 03  | 05              |              |                   | 2                | 05             | 1.5                 | 03 18 S             | 083 10 W             | 100.0                       | 1.0 | 1.0                 | 1.0        |
| 860826       | 04     | 03  | 06              |              |                   | 2                | 55             | 0.1                 | 03 18 S             | 083 10 W             | 100.0                       | 1.0 | 1.0                 | 1.0        |
| 860826       | 10     | 01  | 13              |              |                   | 2                | 64             | 1.1                 | 03 06 S             | 082 27 W             | 100.0                       | 2.0 | 2.0                 | 2.0        |
| 860928       | 05     | 09  | 04              | 08           | 02                | 2                | 38             | 0.1                 | 04 32 N             | 081 12 W             | 100.0                       | 1.0 | 1.0                 | 1.0        |
| 861005       | 04     | 07  | 06              | 12           | 12                | 4                | 64             | 1.3                 | 06 41 N             | 081 28 W             | 100.0                       | 3.0 | 3.0                 | 3.0        |
| 861005       | 09     | 03  | 11              | 12           | 02                | 3                | 64             | 1.3                 | 06 36 N             | 082 07 W             | 100.0                       | 4.0 | 4.0                 | 4.0        |
| 861017       | 01     | 10  | 01              | 06           | 02                | 5                | 38             | 0.7                 | 02 19 N             | 112 23 W             | 100.0                       | 1.0 | 1.0                 | 1.0        |
| 861026       | 05     | 01  | 04              | 12           | 12                | 2                | 55             | 0.5                 | 06 31 N             | 141 55 W             | 100.0                       | 1.0 | 1.0                 | 1.0        |
| 861130       | 01     | 03  | 02              | 02           | 03                | 3                | 05             | 0.7                 | 15 17 N             | 115 12 W             | 100.0                       | 1.0 | 1.0                 | 1.0        |
| 861204       | 05     | 08  | 11              | 09           | 02                | 1                | 05             | 3.0                 | 27 34 N             | 117 56 W             | 100.0                       | 2.0 | 2.0                 | 2.0        |

Table 3. (continued)

SPECIES: UNID. MESOPILODONT  
(MESOPILODON SP.)

SPECIES CODE: 51

| DATE     | SERIES | LEG | SIGHT  | SUN POSITION | BEAUF. NUMBER | DETECTED | PERP. DIST. (KM) | LATITUDE DEG MIN | LONGITUDE DEG MIN | PROPORTION (% OF SCHOOL) | MEAN SCHOOL SIZE | EST |
|----------|--------|-----|--------|--------------|---------------|----------|------------------|------------------|-------------------|--------------------------|------------------|-----|
| YR/MO/DY |        |     | NUMBER | HORZ. VEKT.  |               | BY       |                  |                  |                   |                          | BEST             | LOW |
| 860826   | 05     | 05  | 10     | 12           | 12            | 2        | 55               | 03 11 S          | 082 50 W          | 100.0                    | 2.0              | 2.0 |
| 860826   | 12     | 03  | 15     | 07           | 02            | 2        | 61               | 03 05 S          | 082 11 W          | 100.0                    | 1.0              | 1.0 |
| 860907   | 01     | 29  | 03     |              | 3             | 3        | 64               | 11 20 S          | 085 58 W          | 100.0                    | 4.0              | 3.0 |
| 860923   | 03     | 11  | 03     |              | 3             | 3        | 05               | 05 53 N          | 079 30 W          | 100.0                    | 2.0              | 2.0 |

Table 3. (continued)

SPECIES: CUVIER'S BEAKED WHALE  
(ZIPHIUS CAVIROSTRIS)

SPECIES CODE: 61

| DATE   | SERIES | LEG | SIGHT NUMBER | SUN POSITION |       | BEAUF. NUMBER | DETECTED BY | PERP. DIST. (KM) | LATITUDE DEG MIN | LONGITUDE DEG MIN | PROPORTION (% OF SCHOOL) | MEAN SCHOOL SIZE EST |     |
|--------|--------|-----|--------------|--------------|-------|---------------|-------------|------------------|------------------|-------------------|--------------------------|----------------------|-----|
|        |        |     |              | HORZ.        | VERT. |               |             |                  |                  |                   |                          | BEST                 | LOW |
| 860811 | 02     | 02  | 03           | 11           | 01    | 5             | 05          | 0.6              | 02 01 S          | 130 10 W          | 100.0                    | 2.0                  | 2.0 |
| 860824 |        | 01  | 01           | 12           | 12    | 5             | 38          | 0.1              | 03 43 S          | 087 43 W          | 100.0                    | 2.0                  | 2.0 |
| 860928 | 01     | 08  | 01           | 02           | 02    | 3             | 05          | 0.2              | 03 46 N          | 081 44 W          | 100.0                    | 2.0                  | 2.0 |
| 861010 | 04     | 02  | 05           |              |       | 3             | 38          | 0.1              | 01 41 S          | 089 56 W          | 100.0                    | 1.0                  | 1.0 |
| 861117 | 01     | 01  | 01           |              |       | 3             | 38          | 0.4              | 13 47 N          | 129 01 W          | 100.0                    | 1.0                  | 1.0 |

Table 3. (continued)

| DATE<br>YRMOYD | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION   |        | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE EST |       |
|----------------|--------|-----|-----------------|----------------|--------|----------------|---------------------|---------------------|----------------------|-----------------------------|----------------------|-------|
|                |        |     |                 | HORZ.<br>VERT. | NUMBER |                |                     |                     |                      |                             | BEST                 | LOW   |
| 860815         | 06     | 12  | 05              | 06             | 02     | 55             | 0.1                 | 02 56 S             | 116 43 W             | 100.0                       | 9.0                  | 8.0   |
| 860818         | 01     | 02  | 01              | 11             | 03     | 55             | 0.7                 | 05 14 S             | 108 22 W             | 100.0                       | 1.0                  | 1.0   |
| 860818         | 04     | 14  | 05              | 06             | 02     | 64             | 1.1                 | 05 20 S             | 107 00 W             | 100.0                       | 3.0                  | 3.0   |
| 860822         | 02     | 02  | 02              | 11             | 02     | 55             | 1.4                 | 02 49 S             | 095 20 W             | 100.0                       | 1.0                  | 1.0   |
| 860908         | 03     | 06  | 04              |                |        | 38             | 0.9                 | 08 17 S             | 087 52 W             | 100.0                       | 1.0                  | 1.0   |
| 860917         |        |     | 02              |                |        | 5              | 0.2                 | 00 52 N             | 093 18 W             | 100.0                       | 1.0                  | 1.0   |
| 860917         | 06     | 02  | 05              |                |        | 55             | 7.3                 | 01 24 N             | 092 48 W             | 1.0                         | 465.0                | 395.0 |
| 860918         | 04     | 07  | 03              |                |        | 38             | 1.8                 | 02 43 N             | 090 30 W             | 100.0                       | 1.0                  | 1.0   |
| 861012         | 03     | 06  | 03              | 12             | 12     | 05             | 5.1                 | 02 15 N             | 095 02 W             | 100.0                       | 1.0                  | 1.0   |
| 861014         | 02     | 01  | 01              |                |        | 55             | 1.3                 | 02 40 N             | 100 47 W             | 100.0                       | 1.0                  | 1.0   |
| 861026         | 04     | 04  | 03              |                |        | 38             | 0.1                 | 06 30 N             | 141 53 W             | 100.0                       | 1.0                  | 1.0   |







Table 3. (continued)

SPECIES: UNIDENTIFIED DOLPHIN

SPECIES CODE: 77

| DATE<br>YRMOYD | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE EST |       |
|----------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|----------------------|-------|
|                |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST                 | LOW   |
| 860801         | 03     | 11  | 01              | 09           | 12    | 4                | 64             | 0.1                 | 25 46 N             | 118 03 W             | 100.0                       | 10.0                 | 4.0   |
| 860803         | 02     | 01  | 02              | 09           | 02    | 2                | 05             | 0.6                 | 19 10 N             | 121 25 W             | 100.0                       | 1.0                  | 1.0   |
| 860803         | 05     | 04  | 06              | 12           | 12    | 2                | 05             | 7.4                 | 18 28 N             | 121 33 W             | 100.0                       | 20.0                 | 12.0  |
| 860806         | 04     | 03  | 02              | 12           | 12    | 5                | 63             | 1.5                 | 08 09 N             | 123 46 W             | 90.0                        | 10.0                 | 10.0  |
| 860810         | 02     | 02  | 02              | 06           | 01    | 3                | 64             | 0.5                 | 01 43 S             | 128 11 W             | 100.0                       | 1.0                  | 1.0   |
| 860810         | 03     | 05  | 04              | 12           | 12    | 3                | 05             | 2.2                 | 01 49 S             | 128 30 W             | 100.0                       | 1.0                  | 1.0   |
| 860810         | 06     | 04  | 07              | 01           | 01    | 3                | 05             | 0.4                 | 01 15 S             | 129 04 W             | 100.0                       | 1.0                  | 1.0   |
| 860811         | 03     | 24  | 05              | 07           | 02    | 5                | 61             | 3.5                 | 02 09 S             | 129 05 W             | 100.0                       | 2.0                  | 2.0   |
| 860815         | 05     | 02  | 04              | 09           | 12    | 6                | 63             | 0.9                 | 02 45 S             | 117 11 W             | 100.0                       | 2.0                  | 2.0   |
| 860816         | 03     | 18  | 02              | 06           | 02    | 4                | 63             | 0.9                 | 04 07 S             | 113 35 W             | 100.0                       | 7.0                  | 5.0   |
| 860822         | 02     | 10  | 03              | 11           | 01    | 3                | 05             | 3.9                 | 02 55 S             | 095 01 W             | 100.0                       | 8.0                  | 6.0   |
| 860822         | 03     | 28  | 05              | 06           | 03    | 3                | 38             | 0.1                 | 03 10 S             | 093 56 W             | 100.0                       | 2.0                  | 2.0   |
| 860826         | 01     | 02  | 01              |              |       | 2                | 61             | 0.7                 | 03 28 S             | 083 41 W             | 100.0                       | 1.0                  | 1.0   |
| 860826         | 05     | 03  | 09              |              |       | 2                | 64             | 0.7                 | 03 13 S             | 082 56 W             | 100.0                       | 0.0*                 | 2.0   |
| 860904         | 01     | 05  | 01              |              |       | 3                | 05             | 2.3                 | 03 00 S             | 080 52 W             | 100.0                       | 800.0                | 600.0 |
| 860906         | 01     | 11  | 02              |              |       | 5                | 38             | 3.6                 | 09 29 S             | 083 54 W             | 100.0                       | 2.0                  | 2.0   |
| 860906         | 01     | 12  | 03              |              |       | 5                | 63             | 2.4                 | 09 33 S             | 083 57 W             | 100.0                       | 10.0                 | 6.0   |
| 860908         | 03     | 18  | 05              |              |       | 4                | 63             | 0.7                 | 07 48 S             | 088 11 W             | 100.0                       | 0.0*                 | 2.0   |
| 860909         | 01     | 03  | 01              |              |       | 3                | 38             | 0.2                 | 05 51 S             | 089 34 W             | 100.0                       | 1.0                  | 1.0   |
| 860909         | 01     | 04  | 02              |              |       | 3                | 38             | 3.1                 | 05 47 S             | 089 33 W             | 100.0                       | 2.0                  | 2.0   |
| 860909         | 02     | 10  | 04              |              |       | 3                | 55             | 3.7                 | 05 13 S             | 089 55 W             | 100.0                       | 80.0                 | 50.0  |
| 860913         | 03     | 02  | 02              | 03           | 01    | 4                | 55             | 0.8                 | 03 05 S             | 099 26 W             | 100.0                       | 20.0                 | 15.0  |
| 860914         | 01     | 01  | 01              |              |       | 3                | 55             | 1.7                 | 00 04 S             | 099 37 W             | 100.0                       | 6.0                  | 4.0   |
| 860914         | 02     | 02  | 04              | 01           | 02    | 3                | 38             | 0.3                 | 00 13 N             | 099 31 W             | 100.0                       | 2.0                  | 2.0   |
| 860915         | 04     | 03  | 04              |              |       | 5                | 55             | 1.9                 | 00 14 S             | 097 07 W             | 100.0                       | 12.0                 | 10.0  |
| 860916         | 02     | 05  | 02              |              |       | 4                | 61             | 0.2                 | 00 15 S             | 095 18 W             | 100.0                       | 2.0                  | 1.0   |
| 860917         | 05     | 01  | 04              |              |       | 4                | 05             | 0.5                 | 01 20 N             | 092 53 W             | 100.0                       | 1.0                  | 1.0   |
| 860920         | 01     | 14  | 01              |              |       | 3                | 64             | 0.4                 | 05 46 N             | 083 03 W             | 100.0                       | 2.0                  | 2.0   |
| 860921         | 02     | 02  | 02              |              |       | 1                | 55             | 1.0                 | 08 02 N             | 079 30 W             | 100.0                       | 3.0                  | 3.0   |
| 860921         | 02     | 02  | 03              |              |       | 1                | 64             | 0.9                 | 08 03 N             | 079 30 W             | 100.0                       | 2.0                  | 2.0   |
| 860921         | 03     | 04  | 05              |              |       | 1                | 05             | 0.7                 | 08 21 N             | 079 31 W             | 100.0                       | 18.0                 | 15.0  |

Table 3. (continued)

SPECIES: UNIDENTIFIED DOLPHIN

SPECIES CODE: 77

119

| DATE<br>YRMO | SERIES | LEG | SIGHT<br>NUMBER | SUN<br>HORZ. | POSITION<br>VERT. | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE EST |      |
|--------------|--------|-----|-----------------|--------------|-------------------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|----------------------|------|
|              |        |     |                 |              |                   |                  |                |                     |                     |                      |                             | BEST                 | LOW  |
| 860921       | 03     | 05  | 06              |              |                   | 1                | 05             | 0.0                 | 08 26 N             | 079 30 W             | 100.0                       | 0.0*                 | 4.0  |
| 860923       | 02     | 01  | 01              |              |                   | 3                | 64             | 4.0                 | 06 17 N             | 079 25 W             | 100.0                       | 0.0*                 | 2.0  |
| 860924       | 02     | 06  | 02              |              |                   | 6                | 61             | 0.0                 | 02 36 N             | 080 42 W             | 100.0                       | 1.0                  | 1.0  |
| 860925       | 01     | 07  | 01              |              |                   | 5                | 64             | 0.1                 | 00 19 S             | 081 45 W             | 100.0                       | 8.0                  | 6.0  |
| 860925       | 08     | 01  | 05              |              |                   | 4                | 05             | 0.3                 | 01 00 S             | 082 02 W             | 100.0                       | 0.0*                 | 3.0  |
| 860925       | 10     | 06  | 07              |              |                   | 4                | 55             | 0.2                 | 00 57 S             | 082 37 W             | 100.0                       | 2.0                  | 2.0  |
| 860926       | 03     | 02  | 03              |              |                   | 5                | 05             | 0.0                 | 00 57 S             | 085 05 W             | 100.0                       | 0.0*                 | 1.0  |
| 860926       | 03     | 07  | 04              |              |                   | 4                | 63             | 5.5                 | 00 43 S             | 085 03 W             | 100.0                       | 1.0                  | 1.0  |
| 860927       | 05     | 05  | 03              |              |                   | 4                | 55             | 2.1                 | 01 54 N             | 082 12 W             | 100.0                       | 1.0                  | 1.0  |
| 860929       | 01     | 04  | 02              |              |                   | 3                | 64             | 5.9                 | 06 12 N             | 080 06 W             | 100.0                       | 0.0*                 | 50.0 |
| 861004       | 01     | 02  | 02              |              |                   | 2                | 61             | 0.7                 | 08 37 N             | 079 29 W             | 100.0                       | 20.0                 | 18.0 |
| 861004       | 01     | 03  | 03              |              |                   | 1                | 61             | 0.4                 | 08 35 N             | 079 29 W             | 100.0                       | 2.0                  | 2.0  |
| 861004       | 01     | 03  | 04              |              |                   | 1                | 55             | 2.6                 | 08 35 N             | 079 29 W             | 100.0                       | 50.0                 | 40.0 |
| 861005       | 07     | 01  | 09              | 12           |                   | 2                | 63             | 0.3                 | 06 40 N             | 081 43 W             | 100.0                       | 3.0                  | 2.0  |
| 861010       | 03     | 01  | 03              |              |                   | 3                | 38             | 0.6                 | 01 47 S             | 089 21 W             | 20.0                        | 12.0                 | 10.0 |
| 861011       | 02     | 01  | 04              |              |                   | 3                | 05             | 1.4                 | 01 26 S             | 092 49 W             | 100.0                       | 0.0*                 | 4.0  |
| 861011       | 03     | 02  | 07              |              |                   | 3                | 64             | 1.9                 | 01 26 S             | 092 56 W             | 15.0                        | 12.0                 | 12.0 |
| 861011       | 03     | 03  | 10              |              |                   | 3                | 55             | 0.8                 | 01 26 S             | 093 00 W             | 100.0                       | 6.0                  | 6.0  |
| 861011       | 05     | 01  | 12              |              |                   | 3                | 64             | 1.7                 | 01 22 S             | 093 14 W             | 100.0                       | 1.0                  | 1.0  |
| 861011       | 05     | 08  | 14              | 12           |                   | 5                | 38             | 0.1                 | 01 13 S             | 093 29 W             | 100.0                       | 5.0                  | 5.0  |
| 861015       | 01     | 05  | 01              |              |                   | 6                | 64             | 0.3                 | 02 35 N             | 104 39 W             | 100.0                       | 0.0*                 | 0.0* |
| 861021       | 01     | 01  | 01              |              |                   | 5                | 05             | 0.0                 | 05 20 N             | 124 51 W             | 100.0                       | 2.0                  | 2.0  |
| 861021       | 01     | 08  | 02              | 06           |                   | 5                | 05             | 0.0                 | 05 23 N             | 125 05 W             | 100.0                       | 1.0                  | 1.0  |
| 861021       | 01     | 17  | 03              |              |                   | 6                | 05             | 0.0                 | 05 30 N             | 125 35 W             | 100.0                       | 0.0*                 | 15.0 |
| 861021       | 03     | 02  | 06              | 12           |                   | 5                | 55             | 0.2                 | 05 35 N             | 125 58 W             | 100.0                       | 6.0                  | 5.0  |
| 861025       | 01     | 26  | 01              | 12           |                   | 5                | 38             | 0.1                 | 05 26 N             | 138 54 W             | 100.0                       | 1.0                  | 1.0  |
| 861026       | 06     | 02  | 07              |              |                   | 2                | 05             | 7.2                 | 06 33 N             | 142 02 W             | 100.0                       | 1.0                  | 1.0  |
| 861027       | 02     | 14  | 02              | 07           |                   | 5                | 55             | 2.5                 | 07 36 N             | 144 40 W             | 100.0                       | 4.0                  | 4.0  |
| 861028       | 06     | 05  | 05              | 10           |                   | 3                | 55             | 1.5                 | 09 50 N             | 146 49 W             | 100.0                       | 2.0                  | 2.0  |
| 861029       | 03     | 01  | 01              |              |                   | 4                | 55             | 0.8                 | 11 19 N             | 148 04 W             | 100.0                       | 3.0                  | 3.0  |
| 861030       | 02     | 12  | 01              | 12           |                   | 5                | 63             | 1.8                 | 13 11 N             | 149 39 W             | 100.0                       | 30.0                 | 25.0 |

Table 3. (continued)

| DATE<br>YRMO DY | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) |       | MEAN SCHOOL SIZE | EST<br>LOW |
|-----------------|--------|-----|-----------------|--------------|-------|----------------|---------------------|---------------------|----------------------|-----------------------------|-------|------------------|------------|
|                 |        |     |                 | VERT.        | HOFZ. |                |                     |                     |                      | BEST                        | LOW   |                  |            |
| 861031          | 01     | 07  | 01              |              |       | 05             | 1.0                 | 15 10 N             | 151 31 W             | 100.0                       | 0.0*  | 2.0              |            |
| 861101          |        |     | 02              | 06           |       | 38             | 0.0                 | 18 31 N             | 154 17 W             | 100.0                       | 75.0  | 50.0             |            |
| 861113          | 02     | 06  | 01              | 11           |       | 63             | 2.1                 | 10 40 N             | 139 22 W             | 100.0                       | 10.0  | 8.0              |            |
| 861113          | 09     | 02  | 07              | 03           |       | 64             | 1.6                 | 09 39 N             | 138 41 W             | 100.0                       | 0.0*  | 20.0             |            |
| 861117          | 03     | 02  | 05              | 02           |       | 38             | 1.8                 | 13 27 N             | 128 15 W             | 100.0                       | 1.0   | 1.0              |            |
| 861121          | 03     | 02  | 01              | 01           |       | 38             | 0.1                 | 07 44 N             | 116 12 W             | 1.0                         | 112.0 | 92.0             |            |
| 861121          | 05     | 07  | 02              | 04           |       | 55             | 1.8                 | 07 27 N             | 115 25 W             | 100.0                       | 1.0   | 1.0              |            |
| 861126          | 01     | 11  | 02              | 06           |       | 38             | 0.1                 | 07 16 N             | 111 30 W             | 100.0                       | 1.0   | 1.0              |            |
| 861130          | 01     | 02  | 01              | 02           |       | 64             | 0.7                 | 15 17 N             | 115 13 W             | 100.0                       | 0.0*  | 2.0              |            |
| 861201          | 02     | 28  | 02              | 08           |       | 38             | 0.0                 | 18 38 N             | 112 14 W             | 100.0                       | 3.0   | 3.0              |            |
| 861203          | 04     | 01  | 04              | 06           |       | 38             | 7.7                 | 24 20 N             | 115 53 W             | 100.0                       | 0.0*  | 1.0              |            |
| 861203          | 04     | 08  | 06              | 08           |       | 55             | 0.4                 | 24 39 N             | 116 03 W             | 100.0                       | 3.0   | 3.0              |            |

Table 3. (continued)

SPECIES: UNIDENTIFIED SMALL WHALE

SPECIES CODE: 78

| DATE<br>YRMO | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) |     | MEAN SCHOOL<br>SIZE | EST |
|--------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|-----|---------------------|-----|
|              |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      | BEST                        | LOW |                     |     |
| 860810       | 04     | 04  | 05              | 01           | 01    | 3                | 64             | 0.4                 | 01 48 S             | 128 48 W             | 100.0                       | 2.0 | 1.0                 |     |
| 860825       | 04     | 01  | 03              |              |       | 4                | 38             | 2.3                 | 03 37 S             | 085 16 W             | 100.0                       | 2.0 | 2.0                 |     |
| 860826       | 08     | 01  | 12              |              |       | 2                | 38             | 1.0                 | 03 07 S             | 082 31 W             | 100.0                       | 1.0 | 1.0                 |     |
| 860826       | 12     | 03  | 16              | 07           | 02    | 2                | 38             | 0.0                 | 03 05 S             | 082 11 W             | 100.0                       | 1.0 | 1.0                 |     |
| 860908       | 01     | 06  | 01              |              |       | 2                | 64             | 0.0                 | 09 04 S             | 087 19 W             | 100.0                       | 1.0 | 1.0                 |     |
| 860909       | 01     | 08  | 03              |              |       | 3                | 61             | 0.0                 | 05 34 S             | 089 42 W             | 100.0                       | 2.0 | 2.0                 |     |
| 860923       | 03     | 04  | 02              |              |       | 3                | 38             | 4.5                 | 06 09 N             | 079 28 W             | 100.0                       | 2.0 | 1.0                 |     |
| 860929       | 02     | 04  | 03              |              |       | 2                | 64             | 1.0                 | 06 29 N             | 080 00 W             | 100.0                       | 1.0 | 1.0                 |     |
| 861011       | 03     | 02  | 08              |              |       | 3                | 38             | 1.5                 | 01 26 S             | 092 56 W             | 100.0                       | 1.0 | 1.0                 |     |
| 861024       | 03     | 05  | 01              | 08           | 01    | 2                | 63             | 0.0                 | 04 57 N             | 135 01 W             | 100.0                       | 1.0 | 1.0                 |     |
| 861026       | 05     | 02  | 05              |              |       | 2                | 63             | 0.9                 | 06 32 N             | 141 58 W             | 100.0                       | 8.0 | 6.0                 |     |
| 861113       | 04     | 02  | 03              | 11           | 01    | 3                | 38             | 0.6                 | 10 23 N             | 139 13 W             | 100.0                       | 3.0 | 3.0                 |     |
| 861113       | 05     | 01  | 04              |              |       | 3                | 38             | 0.5                 | 10 21 N             | 139 11 W             | 100.0                       | 2.0 | 2.0                 |     |
| 861117       | 02     | 10  | 03              |              |       | 3                | 38             | 5.9                 | 13 28 N             | 128 23 W             | 100.0                       | 1.0 | 1.0                 |     |
| 861123       | 01     | 04  | 01              |              |       | 5                | 63             | 0.7                 | 05 23 N             | 110 48 W             | 100.0                       | 7.0 | 5.0                 |     |
| 861124       | 01     | 20  | 01              | 04           | 12    | 5                | 05             | 3.8                 | 04 42 N             | 107 48 W             | 100.0                       | 1.0 | 1.0                 |     |

Table 3. (continued)

SPECIES: UNIDENTIFIED LARGE WHALE      SPECIES CODE: 79.

| DATE   | SERIES | LEG | SIGHT NUMBER |       | SUN POSITION | BEAUF. NUMBER | DETECTED BY | PERP. DIST. (KM) | LATITUDE DEG MIN | LONGITUDE DEG MIN | PROPORTION (% OF SCHOOL) |     | MEAN SCHOOL SIZE | EST LOW |
|--------|--------|-----|--------------|-------|--------------|---------------|-------------|------------------|------------------|-------------------|--------------------------|-----|------------------|---------|
|        |        |     | HORZ.        | VERT. |              |               |             |                  |                  |                   | BEST                     | LOW |                  |         |
| 860914 | 04     | 07  | 08           | 12    | 12           | 4             | 05          | 2.9              | 00 27 N          | 099 12 W          | 100.0                    | 1.0 | 1.0              | 1.0     |
| 861011 | 05     | 01  | 13           |       |              | 3             | 38          | 0.8              | 01 22 S          | 093 14 W          | 100.0                    | 1.0 | 1.0              | 1.0     |
| 861022 | 01     | 04  | 01           |       |              | 4             | 64          | 8.5              | 05 48 N          | 128 08 W          | 100.0                    | 1.0 | 1.0              | 1.0     |
| 861204 | 05     | 04  | 10           | 08    | 02           | 1             | 38          | 0.1              | 27 25 N          | 117 51 W          | 100.0                    | 1.0 | 1.0              | 1.0     |

Table 3. (continued)

| DATE<br>YRMO | SERIES | LEG | SIGHT<br>NUMBER | SUN POSITION |       | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE EST |      |
|--------------|--------|-----|-----------------|--------------|-------|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|----------------------|------|
|              |        |     |                 | HORZ.        | VERT. |                  |                |                     |                     |                      |                             | BEST                 | LOW  |
| 860802       | 03     | 05  | 02              | 02           | 02    | 1                | 61             | 3.1                 | 21 24 N             | 120 17 W             | 100.0                       | 2.0                  | 2.0  |
| 860809       | 03     | 07  | 03              | 02           | 02    | 3                | 05             | 0.0                 | 01 02 S             | 125 53 W             | 100.0                       | 2.0                  | 2.0  |
| 860810       | 03     | 01  | 03              |              |       | 3                | 63             | 0.0                 | 01 46 S             | 128 15 W             | 100.0                       | 0.0*                 | 2.0  |
| 860822       | 03     | 10  | 04              | 12           | 12    | 3                | 05             | 0.0                 | 03 02 S             | 094 38 W             | 100.0                       | 1.0                  | 1.0  |
| 860905       | 03     | 02  | 03              |              |       | 5                | 64             | 0.4                 | 06 10 S             | 082 43 W             | 100.0                       | 10.0                 | 0.0* |
| 860905       | 04     | 06  | 04              |              |       | 5                | 64             | 0.1                 | 06 26 S             | 082 46 W             | 100.0                       | 1.0                  | 1.0  |
| 860907       | 01     | 26  | 02              |              |       | 3                | 55             | 0.4                 | 11 28 S             | 085 52 W             | 100.0                       | 1.0                  | 1.0  |
| 860909       | 03     | 03  | 06              | 12           | 12    | 3                | 64             | 1.5                 | 05 01 S             | 090 00 W             | 100.0                       | 2.0                  | 2.0  |
| 861009       | 02     | 03  | 01              |              |       | 5                | 61             | 0.3                 | 00 18 S             | 087 32 W             | 100.0                       | 2.0                  | 2.0  |
| 861010       | 06     | 01  | 08              |              |       | 3                | 64             | 1.9                 | 01 38 S             | 090 10 W             | 100.0                       | 1.0                  | 1.0  |
| 861021       | 02     | 01  | 04              |              |       | 5                | 61             | 0.3                 | 05 28 N             | 125 35 W             | 100.0                       | 3.0                  | 3.0  |
| 861115       | 04     | 05  | 03              |              |       | 1                | 38             | 1.9                 | 12 22 N             | 132 40 W             | 100.0                       | 1.0                  | 1.0  |
| 861203       | 01     | 04  | 01              | 05           | 03    | 0                | 55             | 0.3                 | 23 55 N             | 115 36 W             | 100.0                       | 1.0                  | 1.0  |
| 861204       | 04     | 01  | 05              | 06           | 01    | 0                | 55             | 0.2                 | 27 02 N             | 117 29 W             | 100.0                       | 1.0                  | 1.0  |
| 861204       | 04     | 02  | 06              | 06           | 01    | 0                | 55             | 0.0                 | 27 07 N             | 117 31 W             | 100.0                       | 2.0                  | 2.0  |

Table 3. (continued)

## SPECIES: UNIDENTIFIED WHALE

SPECIES CODE: 98

| DATE<br>YRMO | SERIES | LEG | SIGHT NUMBER |       | SUN POSITION |     | BEAUF.<br>NUMBER | DETECTED<br>BY | PERP.<br>DIST. (KM) | LATITUDE<br>DEG MIN | LONGITUDE<br>DEG MIN | PROPORTION<br>(% OF SCHOOL) | MEAN SCHOOL SIZE |       | EST<br>LOW |
|--------------|--------|-----|--------------|-------|--------------|-----|------------------|----------------|---------------------|---------------------|----------------------|-----------------------------|------------------|-------|------------|
|              |        |     | HORZ.        | VERT. | BEST         | LOW |                  |                |                     |                     |                      |                             |                  |       |            |
| 860808       | 01     | 08  | 01           |       |              | 5   | 61               | 2.5            | 01 46 N             | 125 20 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860808       | 03     | 02  | 02           | 04    | 02           | 4   | 64               | 0.2            | 00 30 N             | 125 16 W            | 100.0                | 2.0                         | 2.0              | 2.0   |            |
| 860817       | 01     | 06  | 01           | 11    | 02           | 4   | 38               | 0.5            | 04 38 S             | 111 17 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860822       | 01     | 04  | 01           | 11    | 02           | 2   | 38               | 2.4            | 02 48 S             | 095 25 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860907       | 01     | 04  | 01           |       |              | 4   | 64               | 2.6            | 12 24 S             | 085 12 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860914       | 03     | 02  | 06           |       |              | 4   | 38               | 1.2            | 00 16 N             | 099 25 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860914       | 04     | 05  | 07           | 01    | 01           | 4   | 63               | 0.4            | 00 23 N             | 099 17 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860917       | 07     | 01  | 06           |       |              | 4   | 63               | 3.6            | 01 16 N             | 092 41 W            | 100.0                | 0.0*                        | 1.0              | 1.0   |            |
| 860917       | 07     | 02  | 07           |       |              | 4   | 55               | 3.0            | 01 18 N             | 092 40 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860920       | 02     | 02  | 03           | 01    | 01           | 3   | 38               | 6.1            | 05 50 N             | 082 56 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860921       | 02     | 04  | 04           |       |              | 1   | 64               | 3.1            | 08 07 N             | 079 31 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 860929       | 04     | 02  | 04           | 02    | 01           | 1   | 05               | 6.8            | 06 38 N             | 079 54 W            | 100.0                | 3.0                         | 3.0              | 3.0   |            |
| 861005       | 02     | 01  | 03           |       |              | 4   | 63               | 3.6            | 06 50 N             | 080 39 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861005       | 03     | 02  | 04           |       |              | 4   | 55               | 2.3            | 06 50 N             | 080 39 W            | 100.0                | 3.0                         | 3.0              | 3.0   |            |
| 861005       | 09     | 03  | 10           | 07    | 01           | 3   | 64               | 2.6            | 06 44 N             | 081 06 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861006       | 01     | 04  | 01           | 12    | 02           | 3   | 61               | 4.7            | 06 36 N             | 082 07 W            | 100.0                | 20.0                        | 20.0             | 15.0  |            |
| 861008       | 01     | 02  | 01           |       |              | 4   | 38               | 8.2            | 06 14 N             | 083 43 W            | 100.0                | 4.0                         | 4.0              | 4.0   |            |
| 861008       | 01     | 06  | 02           | 09    | 03           | 5   | 64               | 3.0            | 03 35 N             | 087 09 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861010       | 08     | 02  | 13           |       |              | 3   | 38               | 0.0            | 01 34 S             | 090 44 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861012       | 01     | 28  | 02           | 12    | 12           | 5   | 55               | 0.1            | 02 01 N             | 094 56 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861024       | 03     | 23  | 02           | 11    | 12           | 5   | 55               | 2.2            | 02 24 N             | 113 15 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861118       | 01     | 10  | 01           | 12    | 01           | 3   | 64               | 1.3            | 04 37 N             | 135 56 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861130       | 05     | 05  | 06           |       |              | 4   | 61               | 2.2            | 12 18 N             | 125 58 W            | 1.0                  | 354.0                       | 322.0            | 322.0 |            |
| 861201       | 02     | 33  | 03           |       |              | 5   | 63               | 0.5            | 16 03 N             | 114 05 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861202       | 05     | 01  | 04           | 08    | 01           | 3   | 64               | 1.1            | 18 51 N             | 112 17 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
| 861204       | 05     | 01  | 09           | 08    | 01           | 1   | 38               | 0.3            | 21 33 N             | 114 12 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |
|              |        |     |              |       |              |     |                  |                | 27 17 N             | 117 45 W            | 100.0                | 1.0                         | 1.0              | 1.0   |            |

\*denotes that no estimate was made.



Table 4. Marine mammal school size estimates for each observer, classified by species codes, for all sightings encountered in the eastern tropical Pacific during July 29 through December 6, 1986.

| SPECIES | DATE   | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|---------|--------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|         |        |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
|         | 860802 | 01        | 135       | 100 | 75        | 100 | 60        | 100 | 70        | 100 | 70        | 100 | 50        | 100 |
|         | 860803 | 01        | 100       | 65  | 90        | 67  | 175       | 40  | 55        | 80  | 55        | 80  | 55        | 60  |
|         | 860803 | 07        | 200       | 100 | 150       | 100 |           |     | 35        | 100 | 80        | 100 |           |     |
|         | 860805 | 01        | 60        | 75  | 75        | 90  |           |     | 85        | 100 |           |     |           |     |
|         | 860806 | 01        |           |     | 50        | 100 |           |     |           |     |           |     |           |     |
|         | 860809 | 01        | 90        | 100 | 125       | 100 |           |     |           |     | 65        | 100 | 48        | 100 |
|         | 860815 | 01        | 600       | 95  | 900       | 90  | 400       | 90  |           |     |           |     |           |     |
|         | 860817 | 03        | 200       | 25  | 200       | 30  | 250       | 70  |           |     | 60        | 90  |           |     |
|         | 860908 | 03        | 225       | 15  | 90        | 20  |           |     | 350       | 35  |           |     | 75        | 30  |
|         | 860910 | 01        |           |     | 12        | 90  |           |     |           |     |           |     |           |     |
|         | 860910 | 02        | 350       | 100 | 500       | 100 | 400       | 100 | 800       | 100 | 130       | 100 |           |     |
|         | 860917 | 01        | 225       | 100 | 200       | 100 | 125       | 100 |           |     |           |     | 55        | 100 |
|         | 860917 | 05        |           |     |           |     | 250       | 90  | 1000      | 98  |           |     | 171       | 90  |
|         | 860917 | 09        |           |     | 300       | 25  | 350       | 75  | 600       | 60  |           |     |           |     |
|         | 860917 | 10        | 200       | 20  | 90        | 20  | 400       | 40  |           |     |           |     |           |     |
|         | 860918 | 01        | 65        | 100 | 40        | 100 | 30        | 100 |           |     |           |     | 12        | 100 |
|         | 860928 | 02        | 145       | 100 | 110       | 100 | 200       | 100 | 55        | 100 |           |     | 58        | 100 |
|         | 861011 | 15        |           |     | 100       | 100 | 120       | 100 |           |     |           |     | 75        | 100 |
|         | 861012 | 01        |           |     | 90        | 70  | 250       | 50  |           |     |           |     |           |     |
|         | 861017 | 03        | 125       | 100 |           |     |           |     | 150       | 100 |           |     | 70        | 100 |
|         | 861017 | 04        | 185       | 60  |           |     |           |     | 325       | 40  |           |     |           |     |
|         | 861019 | 01        | 95        | 63  | 75        | 85  |           |     | 120       | 65  |           |     |           |     |
|         | 861019 | 02        |           |     | 35        | 100 | 60        | 100 |           |     | 15        | 100 | 25        | 100 |
|         | 861020 | 01        |           |     | 65        | 100 | 225       | 100 | 125       | 100 |           |     | 90        | 100 |
|         | 861020 | 02        | 55        | 100 |           |     |           |     |           |     | 30        | 100 | 56        | 100 |
|         | 861023 | 01        |           |     | 35        | 100 |           |     | 60        | 100 |           |     |           |     |
|         | 861023 | 02        |           |     | 55        | 100 |           |     | 80        | 100 |           |     | 70        | 100 |
|         | 861027 | 01        | 300       | 100 | 75        | 100 | 160       | 100 |           |     |           |     | 97        | 100 |
|         | 861028 | 04        | 225       | 85  | 110       | 60  | 190       | 75  |           |     |           |     | 192       | 80  |
|         | 861030 | 02        |           |     | 55        | 100 | 150       | 100 |           |     |           |     | 46        | 100 |
|         | 861113 | 06        |           |     | 275       | 40  | 425       | 25  | 900       | 20  |           |     |           |     |
|         | 861115 | 01        |           |     | 60        | 15  | 130       | 20  | 300       | 10  |           |     | 310       | 4   |
|         | 861115 | 02        | 80        | 65  |           |     | 80        | 60  |           |     |           |     |           |     |
|         | 861115 | 04        |           |     | 150       | 10  |           |     | 800       | 5   |           |     | 310       | 4   |





Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
| SPECIES 11 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860817     | 03        | 200       | 75  | 200       | 70  | 250       | 30  |           |     | 60        | 10  |           |     |
| 860908     | 03        | 225       | 85  | 90        | 80  |           |     | 350       | 65  |           |     | 75        | 70  |
| 860917     | 05        |           |     |           |     | 250       | 9   | 1000      | 1   |           |     | 171       | 9   |
| 860917     | 09        |           |     | 300       | 75  | 350       | 25  | 600       | 40  |           |     |           |     |
| 860917     | 10        | 200       | 80  | 90        | 80  | 400       | 60  |           |     |           |     |           |     |
| 861012     | 01        |           |     | 90        | 30  | 250       | 50  |           |     |           |     |           |     |
| 861014     | 02        |           |     | 55        | 100 |           |     |           |     | 35        | 100 | 34        | 100 |
| 861017     | 04        | 185       | 40  |           |     |           |     | 325       | 60  |           |     |           |     |
| 861019     | 01        | 95        | 37  | 75        | 15  |           |     | 120       | 35  |           |     |           |     |
| 861028     | 04        | 225       | 15  | 110       | 40  | 190       | 25  |           |     |           |     | 192       | 20  |
| 861113     | 06        |           |     | 275       | 60  | 425       | 75  | 900       | 80  |           |     |           |     |
| 861115     | 01        |           |     | 60        | 85  | 130       | 80  | 300       | 90  |           |     | 310       | 96  |
| 861115     | 02        | 80        | 35  |           |     | 80        | 40  |           |     |           |     |           |     |
| 861115     | 04        |           |     | 150       | 90  |           |     | 800       | 95  |           |     | 310       | 96  |
| 861116     | 01        |           |     | 155       | 90  |           |     | 800       | 96  |           |     | 295       | 95  |
| 861116     | 04        | 40        | 100 |           |     |           |     |           |     | 25        | 100 | 32        | 100 |
| 861117     | 02        |           |     | 115       | 20  | 35        | 100 |           |     | 120       | 85  |           |     |
| 861117     | 04        |           |     | 110       | 25  |           |     | 275       | 10  |           |     |           |     |
| 861117     | 06        |           |     | 125       | 65  |           |     | 100       | 3   |           |     |           |     |
| 861124     | 02        | 145       | 60  | 125       | 65  | 150       | 40  | 200       | 50  |           |     |           |     |
| 861127     | 03        | 165       | 75  | 135       | 65  |           |     | 200       | 80  |           |     |           |     |
| SPECIES 13 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860802     | 03        |           |     | 60        | 83  |           |     | 60        | 90  |           |     |           |     |
| 860816     | 03        | 1         | 100 |           |     | 8         | 100 |           |     |           |     | 3         | 100 |
| 860818     | 03        | 20        | 100 | 10        | 100 | 12        | 100 |           |     | 10        | 100 |           |     |
| 860818     | 04        | 50        | 100 |           |     | 50        | 100 | 40        | 100 | 25        | 100 | 16        | 100 |
| 860821     | 01        |           |     |           |     | 8         | 100 | 10        | 100 |           |     |           |     |
| 860825     | 01        | 40        | 100 | 60        | 100 |           |     |           |     | 50        | 100 | 16        | 100 |
| 860826     | 07        |           |     | 25        | 100 |           |     |           |     | 30        | 100 | 16        | 100 |
| 860913     | 05        | 150       | 100 |           |     |           |     |           |     |           |     | 20        | 100 |
| 860913     | 06        | 40        | 100 |           |     | 15        | 100 | 30        | 100 |           |     |           |     |
| 860914     | 10        | 35        | 100 |           |     | 30        | 100 |           |     | 30        | 100 |           |     |
| 860915     | 01        |           |     | 45        | 100 |           |     | 75        | 100 |           |     | 22        | 100 |

Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
| SPECIES 13 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860915     | 02        | 135       | 100 | 225       | 100 |           |     | 200       | 100 |           |     | 56        | 100 |
| 860915     | 06        |           |     | 20        | 100 |           |     | 400       | 100 |           |     | 130       | 100 |
| 860915     | 07        |           |     | 225       | 100 |           |     | 150       | 98  | 45        | 94  |           |     |
| 860917     | 03        |           |     | 125       | 98  |           |     |           |     | 25        | 100 |           |     |
| 860917     | 08        |           |     | 100       | 100 |           |     |           |     |           |     | 8         | 100 |
| 860918     | 02        | 35        | 100 | 30        | 100 | 12        | 100 | 200       | 100 | 140       | 100 |           |     |
| 860918     | 05        |           |     | 75        | 100 |           |     | 50        | 100 | 30        | 100 |           |     |
| 860919     | 01        |           |     | 35        | 100 |           |     |           |     |           |     |           |     |
| 860920     | 04        |           |     | 110       | 100 | 60        | 100 |           |     |           |     | 65        | 100 |
| 860923     | 04        |           |     | 75        | 100 |           |     |           |     |           |     | 50        | 100 |
| 860923     | 07        | 65        | 100 | 85        | 100 | 50        | 100 | 60        | 100 |           |     | 55        | 100 |
| 860927     | 02        | 38        | 100 | 45        | 100 |           |     | 40        | 100 |           |     | 22        | 100 |
| 861009     | 02        | 85        | 100 |           |     | 60        | 100 |           |     |           |     | 75        | 100 |
| 861009     | 03        |           |     | 75        | 100 |           |     | 50        | 100 | 35        | 100 |           |     |
| 861009     | 04        |           |     | 45        | 100 |           |     | 60        | 100 | 40        | 100 |           |     |
| 861009     | 06        | 185       | 100 | 300       | 100 | 325       | 100 | 500       | 100 |           |     | 90        | 100 |
| 861010     | 04        | 1700      | 1   | 1500      | 1   |           |     | 2300      | 1   | 800       | 1   | 1400      | 2   |
| 861010     | 06        | 115       | 70  |           |     |           |     |           |     |           |     | 68        | 43  |
| 861011     | 11        |           |     | 45        | 100 |           |     |           |     |           |     | 26        | 100 |
| 861011     | 16        |           |     | 65        | 100 |           |     |           |     |           |     | 32        | 100 |
| 861021     | 07        |           |     | 30        | 100 |           |     | 40        | 100 |           |     |           |     |
| 861022     | 02        |           |     | 55        | 100 |           |     | 80        | 100 |           |     |           |     |
| 861026     | 01        | 1         | 100 | 1         | 100 | 1         | 100 |           |     |           |     | 1         | 100 |
| 861027     | 03        |           |     | 35        | 100 |           |     | 50        | 100 | 30        | 100 |           |     |
| 861028     | 01        |           |     | 35        | 100 |           |     |           |     |           |     | 108       | 100 |
| 861028     | 03        | 80        | 100 |           |     | 100       | 100 |           |     |           |     | 72        | 100 |
| 861117     | 04        |           |     | 115       | 80  |           |     | 275       | 90  | 120       | 15  |           |     |
| 861124     | 03        |           |     |           |     |           |     | 250       | 100 |           |     | 74        | 100 |
| 861125     | 01        |           |     | 50        | 100 |           |     |           |     | 35        | 100 | 56        | 100 |
| 861125     | 03        | 80        | 100 |           |     | 70        | 100 | 220       | 100 |           |     | 64        | 100 |
| 861129     | 02        | 65        | 100 | 60        | 100 | 115       | 100 | 80        | 100 |           |     |           |     |
| 861204     | 01        | 55        | 100 |           |     | 80        | 100 | 40        | 100 |           |     | 72        | 100 |
| 861204     | 02        |           |     | 35        | 100 |           |     | 50        | 100 |           |     | 675       | 100 |
| 861204     | 03        | 550       | 100 | 550       | 100 |           |     | 1100      | 100 |           |     |           |     |

Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
| SPECIES 13 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 861204     | 08        |           |     | 275       | .55 | 370       | 40  | 250       | 50  | 120       | 5   | 215       | 45  |
| 861204     | 12        | 275       | 5   |           |     | 275       | 10  |           |     |           |     |           |     |
| 861204     | 14        |           |     | 550       | 35  | 300       | 25  | 425       | 40  |           |     | 425       | 15  |
| SPECIES 15 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860803     | 04        | 2         | 100 | 1         | 100 |           |     |           |     |           |     |           |     |
| 860928     | 03        |           |     |           |     |           |     |           |     |           |     | 78        | 20  |
| 860929     | 06        | 31        | 58  |           |     |           |     |           |     |           |     |           |     |
| 861005     | 08        | 4         | 100 |           |     | 2         | 100 |           |     |           |     |           |     |
| SPECIES 18 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860802     | 03        |           |     | 60        | 17  |           |     | 60        | 10  |           |     |           |     |
| 860811     | 02        |           |     |           |     |           |     | 1         | 100 |           |     |           |     |
| 860815     | 01        | 600       | 1   | 900       | 1   | 400       | 1   |           |     |           |     |           |     |
| 860817     | 02        |           |     | 15        | 20  | 18        | 33  | 25        | 20  | 11        | 30  | 10        | 10  |
| 860826     | 14        |           |     | 25        | 100 |           |     |           |     | 25        | 100 | 8         | 100 |
| 860908     | 02        |           |     | 55        | 90  |           |     |           |     |           |     |           |     |
| 860909     | 05        | 6         | 15  |           |     |           |     |           |     |           |     |           |     |
| 860913     | 04        |           |     | 21        | 12  |           |     |           |     |           |     |           |     |
| 860916     | 01        | 87        | 2   |           |     | 52        | 4   |           |     |           |     | 4         | 50  |
| 860920     | 02        |           |     | 4         | 50  | 4         | 50  |           |     |           |     | 15        | 100 |
| 860921     | 01        |           |     | 15        | 100 |           |     |           |     |           |     |           |     |
| 860921     | 07        |           |     | 8         | 100 |           |     |           |     |           |     |           |     |
| 860923     | 06        | 176       | 5   | 200       | 5   | 300       | 5   | 550       | 1   | 200       | 10  | 16        | 30  |
| 860927     | 01        | 20        | 25  | 22        | 35  |           |     | 15        | 33  |           |     | 78        | 5   |
| 860928     | 03        |           |     |           |     |           |     |           |     |           |     |           |     |
| 860929     | 06        | 31        | 34  |           |     |           |     |           |     |           |     |           |     |
| 861004     | 07        | 163       | 100 |           |     |           |     |           |     |           |     |           |     |
| 861005     | 01        |           |     | 16        | 50  | 12        | 50  |           |     |           |     |           |     |
| 861005     | 07        |           |     | 30        | 33  | 20        | 25  | 20        | 20  |           |     | 18        | 30  |
| 861010     | 02        |           |     | 25        | 20  | 30        | 40  |           |     | 13        | 20  | 20        | 40  |
| 861010     | 06        | 115       | 20  |           |     |           |     |           |     |           |     | 68        | 43  |
| 861010     | 07        | 115       | 100 | 125       | 100 | 150       | 100 |           |     |           |     | 135       | 100 |
| 861010     | 10        |           |     | 30        | 50  |           |     | 24        | 60  | 13        | 33  | 25        | 70  |

Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
| SPECIES 18 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 861116     | 03        | 10        | 20  |           |     | 20        | 30  |           |     |           |     |           |     |
| 861130     | 03        | 400       | 100 | 250       | 100 | 80        | 100 |           |     | 130       | 100 | 195       | 100 |
| SPECIES 21 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860809     | 02        | 15        | 100 | 15        | 100 |           |     | 20        | 100 | 15        | 100 | 8         | 100 |
| 860809     | 04        | 10        | 100 | 7         | 100 | 5         | 100 |           |     | 5         | 100 | 4         | 100 |
| 860905     | 02        |           |     | 5         | 100 | 3         | 100 | 2         | 100 |           |     |           |     |
| 860908     | 02        |           |     | 55        | 10  |           |     |           |     |           |     |           |     |
| 860908     | 06        | 6         | 100 | 7         | 100 | 7         | 100 | 3         | 100 | 6         | 100 |           |     |
| 860909     | 05        | 6         | 85  |           |     |           |     |           |     |           |     |           |     |
| 860913     | 03        |           |     | 21        | 12  |           |     | 4         | 100 |           |     |           |     |
| 860913     | 04        |           |     | 7         | 100 |           |     |           |     |           |     |           |     |
| 860924     | 01        |           |     |           |     |           |     |           |     | 2         | 100 | 3         | 100 |
| 860926     | 07        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| 860927     | 01        | 20        | 75  | 22        | 65  |           |     | 15        | 67  |           |     | 16        | 70  |
| 860928     | 03        |           |     |           |     |           |     |           |     |           |     | 78        | 75  |
| 861010     | 09        | 3         | 100 |           |     |           |     | 3         | 100 |           |     | 3         | 100 |
| 861026     | 02        | 6         | 100 | 4         | 100 | 10        | 100 |           |     |           |     | 4         | 100 |
| 861026     | 06        | 13        | 100 | 10        | 100 | 7         | 100 |           |     |           |     | 5         | 100 |
| 861130     | 04        | 17        | 100 | 12        | 100 | 27        | 100 | 22        | 100 | 10        | 100 | 14        | 100 |
| SPECIES 26 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860810     | 01        | 325       | 100 | 250       | 100 | 450       | 100 | 600       | 100 | 380       | 100 | 300       | 100 |
| 860811     | 01        | 30        | 100 | 15        | 100 |           |     | 20        | 100 | 12        | 100 | 6         | 100 |
| 861021     | 05        | 250       | 100 | 600       | 100 |           |     | 750       | 100 |           |     |           |     |
| SPECIES 31 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860923     | 06        | 176       | 95  | 200       | 95  | 300       | 95  | 550       | 99  | 200       | 90  |           |     |
| SPECIES 33 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860913     | 04        |           |     | 21        | 76  |           |     |           |     |           |     |           |     |
| 861113     | 02        | 16        | 100 | 9         | 100 |           |     |           |     |           |     | 10        | 100 |

Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
| SPECIES 34 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860815     | 03        |           |     | 5         | 100 | 5         | 100 |           |     |           |     | 2         | 100 |
| 860817     | 02        |           |     | 15        | 80  | 18        | 67  | 25        | 80  | 11        | 70  | 10        | 90  |
| 860914     | 09        |           |     | 50        | 100 |           |     | 40        | 100 |           |     | 16        | 100 |
| 860915     | 05        | 14        | 86  | 22        | 90  | 14        | 86  |           |     | 18        | 80  |           |     |
| 860917     | 03        |           |     | 125       | 2   |           |     | 150       | 2   | 45        | 6   |           |     |
| 860926     | 01        | 2         | 100 |           |     |           |     | 5         | 100 |           |     | 4         | 100 |
| 860928     | 05        | 11        | 100 | 8         | 100 |           |     |           |     |           |     |           |     |
| 861005     | 01        | 4         | 100 | 16        | 50  | 12        | 50  |           |     |           |     |           |     |
| 861005     | 05        |           |     | 30        | 67  | 20        | 75  | 20        | 80  | 13        | 80  | 18        | 70  |
| 861005     | 07        |           |     | 25        | 80  | 30        | 60  |           |     |           |     | 20        | 60  |
| 861010     | 02        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861010     | 03        | 12        | 80  |           |     |           |     |           |     |           |     | 68        | 14  |
| 861010     | 06        | 115       | 10  |           |     |           |     |           |     |           |     | 25        | 30  |
| 861010     | 10        |           |     | 30        | 50  |           |     | 24        | 40  | 13        | 67  | 4         | 100 |
| 861011     | 06        | 4         | 100 |           |     |           |     |           |     |           |     |           |     |
| 861011     | 07        |           |     |           |     | 20        | 70  |           |     |           |     | 12        | 85  |
| 861116     | 03        | 10        | 80  |           |     |           |     |           |     |           |     |           |     |
| 861126     | 01        |           |     | 4         | 100 |           |     |           |     |           |     |           |     |
| 861127     | 04        |           |     | 4         | 100 |           |     |           |     |           |     |           |     |
| SPECIES 37 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860907     | 04        | 7         | 100 | 7         | 100 | 7         | 100 | 6         | 100 | 10        | 100 | 7         | 100 |
| 860913     | 01        | 3         | 100 | 4         | 100 |           |     |           |     | 2         | 100 | 3         | 100 |
| 860926     | 02        |           |     |           |     |           |     |           |     |           |     | 3         | 100 |
| 861113     | 05        | 6         | 100 | 6         | 100 |           |     |           |     | 6         | 100 | 7         | 100 |
| SPECIES 46 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860826     | 04        |           |     | 10        | 100 | 7         | 100 | 9         | 100 | 6         | 100 | 7         | 100 |
| 860914     | 02        | 9         | 100 |           |     |           |     |           |     | 12        | 100 |           |     |
| 860918     | 04        |           |     | 12        | 100 | 7         | 100 |           |     | 8         | 100 |           |     |
| 860920     | 02        |           |     | 4         | 50  | 4         | 50  |           |     |           |     | 4         | 50  |
| 860920     | 05        |           |     | 11        | 100 |           |     |           |     |           |     | 11        | 100 |
| 860923     | 05        | 6         | 100 | 5         | 100 |           |     |           |     |           |     |           |     |
| 860926     | 06        | 10        | 100 |           |     |           |     | 11        | 100 |           |     |           |     |



Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
| SPECIES 46 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860929     | 01        |           |     | 1         | 100 | 1         | 100 | 1         | 100 | 1         | 100 | 2         | 100 |
| 860929     | 05        |           |     |           |     |           |     |           |     |           |     |           |     |
| 860929     | 06        | 31        | 8   |           |     |           |     |           |     |           |     |           |     |
| 861011     | 02        | 1         | 100 |           |     |           |     |           |     | 1         | 100 |           |     |
| 861011     | 05        | 2         | 100 |           |     |           |     |           |     |           |     |           |     |
| 861011     | 09        |           |     | 1         | 100 |           |     |           |     |           |     |           |     |
| 861012     | 04        |           |     |           |     | 1         | 100 |           |     |           |     | 2         | 100 |
| 861022     | 03        |           |     | 6         | 100 | 7         | 100 | 6         | 100 |           |     | 1         | 100 |
| 861028     | 02        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861101     | 01        |           |     |           |     | 3         | 100 | 2         | 100 |           |     | 1         | 100 |
| 861125     | 02        |           |     |           |     |           |     |           |     |           |     |           |     |
| SPECIES 47 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 861203     | 05        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| 861204     | 07        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| SPECIES 49 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860803     | 05        | 1         | 100 |           |     |           |     |           |     |           |     | 1         | 100 |
| 860811     | 04        |           |     | 4         | 100 |           |     |           |     |           |     | 2         | 100 |
| 860826     | 05        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| 860826     | 06        | 1         | 100 |           |     | 1         | 100 |           |     |           |     |           |     |
| 860826     | 13        |           |     |           |     |           |     |           |     |           |     |           |     |
| 860928     | 04        |           |     | 1         | 100 |           |     |           |     |           |     | 2         | 100 |
| 861005     | 06        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861005     | 11        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861017     | 01        |           |     | 1         | 100 |           |     |           |     |           |     | 3         | 100 |
| 861026     | 04        |           |     |           |     | 1         | 100 |           |     |           |     | 4         | 100 |
| 861130     | 02        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| 861204     | 11        | 2         | 100 |           |     |           |     |           |     |           |     |           |     |
| SPECIES 51 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860826     | 10        | 2         | 100 |           |     | 2         | 100 | 2         | 100 |           |     |           |     |
| 860826     | 15        |           |     |           |     |           |     | 1         | 100 |           |     |           |     |
| 860907     | 03        |           |     | 4         | 100 |           |     |           |     |           |     | 5         | 100 |
|            |           |           |     |           |     |           |     |           |     |           |     |           | 4   |
|            |           |           |     |           |     |           |     |           |     |           |     |           | 100 |
|            |           |           |     |           |     |           |     |           |     |           |     |           | 4   |
|            |           |           |     |           |     |           |     |           |     |           |     |           | 100 |



Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
| SPECIES 77 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860810     | 04        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| 860810     | 07        | 1         | 100 |           |     | 1         | 100 |           |     |           |     |           |     |
| 860811     | 05        |           |     |           |     | 2         | 100 |           |     |           |     |           |     |
| 860815     | 04        |           |     |           |     | 1         | 100 |           |     | 4         | 100 |           |     |
| 860816     | 02        |           |     |           |     |           |     |           |     | 7         | 100 |           |     |
| 860822     | 03        | 8         | 100 |           |     |           |     |           |     |           |     |           |     |
| 860822     | 05        |           |     |           |     |           |     |           |     |           |     |           | 2   |
| 860826     | 01        |           |     |           |     |           |     |           | 1   | 100       |     |           | 2   |
| 860904     | 01        | 800       | 100 |           |     |           |     |           |     |           |     |           | 100 |
| 860906     | 02        |           |     | 2         | 100 |           |     |           |     |           |     |           |     |
| 860906     | 03        |           |     | 1         | 100 |           |     |           |     |           |     |           |     |
| 860909     | 01        |           |     | 2         | 100 |           |     |           |     |           |     |           |     |
| 860909     | 02        |           |     |           |     |           |     |           |     |           |     |           |     |
| 860909     | 04        |           |     |           |     | 80        | 100 |           |     |           |     |           |     |
| 860913     | 02        |           |     |           |     | 20        | 100 |           |     |           |     |           |     |
| 860914     | 01        |           |     |           |     | 6         | 100 |           |     |           |     |           |     |
| 860914     | 04        |           |     | 2         | 100 |           |     |           |     |           |     |           |     |
| 860915     | 04        |           |     |           |     | 12        | 100 |           |     |           |     |           |     |
| 860916     | 02        |           |     |           |     |           |     |           | 2   | 100       |     |           |     |
| 860917     | 04        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| 860920     | 01        |           |     |           |     |           |     |           |     |           |     |           | 2   |
| 860921     | 02        |           |     |           |     | 3         | 100 |           |     |           |     |           | 100 |
| 860921     | 03        |           |     |           |     |           |     |           |     |           |     |           | 100 |
| 860921     | 05        | 18        | 100 |           |     |           |     |           |     |           |     |           |     |
| 860924     | 02        |           |     |           |     |           |     |           | 1   | 100       |     |           |     |
| 860925     | 01        |           |     |           |     |           |     |           |     |           |     |           | 8   |
| 860925     | 07        |           |     |           |     | 2         | 100 |           |     |           |     |           |     |
| 860926     | 04        |           |     |           |     | 1         | 100 |           |     |           | 1   | 100       |     |
| 860927     | 03        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861004     | 02        |           |     |           |     | 20        | 100 |           |     |           |     |           |     |
| 861004     | 03        |           |     |           |     | 2         | 100 |           |     |           |     |           |     |
| 861004     | 04        |           |     |           |     | 50        | 100 |           |     |           |     |           |     |
| 861005     | 09        |           |     |           |     |           |     |           |     |           |     |           | 3   |
| 861010     | 03        | 12        | 20  |           |     |           |     |           |     |           |     |           | 100 |



Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |     |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT |
| SPECIES 78 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 861113     | 04        |           |     | 2         | 100 |           |     | 2         | 100 |           |     |           |     |
| 861117     | 03        |           |     | 1         | 100 |           |     |           |     |           |     |           |     |
| 861123     | 01        |           |     |           |     |           |     |           |     | 7         | 100 |           |     |
| 861124     | 01        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| SPECIES 79 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860914     | 08        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| 861011     | 13        |           |     | 1         | 100 |           |     |           |     |           |     |           |     |
| 861022     | 01        |           |     | 1         | 100 |           |     |           |     |           |     | 1         | 100 |
| 861204     | 10        |           |     | 1         | 100 |           |     |           |     |           |     |           |     |
| SPECIES 96 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860802     | 02        |           |     |           |     |           |     | 2         | 100 |           |     |           |     |
| 860809     | 03        |           |     | 2         | 100 |           |     |           |     |           |     |           |     |
| 860822     | 04        | 1         | 100 |           |     |           |     |           |     |           |     |           |     |
| 860905     | 03        |           |     |           |     |           |     |           |     | 10        | 100 |           |     |
| 860905     | 04        |           |     |           |     |           |     | 1         | 100 |           |     |           | 1   |
| 860907     | 02        |           |     |           |     |           |     |           |     |           |     |           |     |
| 860909     | 06        |           |     |           |     |           |     | 2         | 100 |           |     |           | 2   |
| 861009     | 01        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861010     | 08        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861021     | 04        |           |     | 1         | 100 |           |     |           |     |           |     |           | 1   |
| 861115     | 03        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861203     | 01        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861204     | 05        |           |     |           |     |           |     |           |     |           |     |           |     |
| 861204     | 06        |           |     |           |     |           |     |           |     |           |     |           |     |
| SPECIES 98 |           |           |     |           |     |           |     |           |     |           |     |           |     |
| 860808     | 01        |           |     |           |     |           |     | 1         | 100 |           |     |           |     |
| 860808     | 02        |           |     |           |     |           |     |           |     |           |     |           |     |
| 860817     | 01        |           |     | 1         | 100 |           |     |           |     |           |     |           | 2   |
| 860822     | 01        | 1         | 100 | 1         | 100 |           |     | 1         | 100 |           |     |           |     |
| 860907     | 01        |           |     |           |     |           |     |           |     |           |     |           |     |
| 860914     | 06        | 1         | 100 |           |     |           |     | 1         | 100 |           |     |           | 1   |

Table 4. (continued)

| DATE       | SIGHT NO. | OBS 5     |     | OBS 38    |     | OBS 55    |     | OBS 61    |     | OBS 63    |     | OBS 64    |       |
|------------|-----------|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-------|
|            |           | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT | BEST EST. | PCT   |
| SPECIES 98 |           |           |     |           |     |           |     |           |     |           |     |           |       |
| 860914     | 07        |           |     |           |     |           |     |           |     | 1         | 100 |           |       |
| 860917     | 07        |           |     | 1         | 100 |           |     |           |     |           |     |           |       |
| 860920     | 03        |           |     | 1         | 100 |           |     |           |     |           |     |           |       |
| 860921     | 04        |           |     |           |     |           |     |           |     |           |     |           | 1 100 |
| 860929     | 04        | 3         | 100 |           |     |           |     |           |     |           |     |           |       |
| 861005     | 03        |           |     |           |     | 3         | 100 |           |     |           |     |           |       |
| 861005     | 04        |           |     |           |     |           |     |           |     |           |     |           | 1 100 |
| 861005     | 10        |           |     |           |     |           |     | 20        | 100 |           |     |           |       |
| 861006     | 01        |           |     | 4         | 100 |           |     |           |     |           |     |           |       |
| 861008     | 01        |           |     |           |     |           |     |           |     |           |     |           | 1 100 |
| 861008     | 02        |           |     | 1         | 100 |           |     |           |     |           |     |           |       |
| 861010     | 13        |           |     | 1         | 100 |           |     |           |     |           |     |           |       |
| 861017     | 02        |           |     |           |     | 1         | 100 |           |     |           |     |           |       |
| 861024     | 02        |           |     |           |     |           |     | 600       | 1   | 161       | 1   |           |       |
| 861118     | 01        | 301       | 1   |           |     |           |     | 1         | 100 |           |     |           |       |
| 861130     | 06        |           |     |           |     |           |     |           |     |           |     |           |       |
| 861201     | 03        |           |     |           |     |           |     |           |     | 1         | 100 |           |       |
| 861202     | 04        |           |     |           |     |           |     |           |     |           |     |           | 1 100 |
| 861204     | 09        | 1         | 100 |           |     |           |     |           |     |           |     |           |       |

Table 5. Summary of marine mammal sightings encountered in the eastern tropical Pacific during July 29 through December 6, 1986.

| Species Name<br>(Scientific Name)                              | Species Sightings |       |       | Estimated-Mean-School-Size |             |             |             |
|--|-------------------|-------|-------|----------------------------|-------------|-------------|-------------|
|  | Code              | Total | Mixed | Low / (n)                  | High / (n)  | Best / (n)  |             |
| Offshore Spotted Dolphin<br>( <u>Stenella attenuata</u> )      | 2                 | 47    | 23    | 24                         | 91.72( 47)  | 128.12( 47) | 107.24( 47) |
| Spinner Dolphin<br>( <u>Stenella longirostris</u> )            | 3                 | 3     | 0     | 3                          | 12.47( 3)   | 17.88( 3)   | 14.53( 3)   |
| Common Dolphin<br>( <u>Delphinus delphis</u> )                 | 5                 | 31    | 26    | 5                          | 295.75( 31) | 399.66( 31) | 341.92( 31) |
| Coastal Spotted Dolphin<br>( <u>S.A. graffmani</u> )           | 6                 | 3     | 3     | 0                          | 70.00( 3)   | 98.67( 3)   | 80.33( 3)   |
| Eastern Spinner Dolphin<br>( <u>Stenella longirostris</u> )    | 10                | 6     | 2     | 4                          | 76.71( 6)   | 120.33( 5)  | 85.94( 6)   |
| Whitebelly Spinner Dolphin<br>( <u>Stenella longirostris</u> ) | 11                | 25    | 6     | 19                         | 96.19( 25)  | 134.89( 25) | 111.62( 25) |
| Striped Dolphin<br>( <u>S. coeruleoalba</u> )                  | 13                | 50    | 42    | 8                          | 68.62( 50)  | 98.47( 48)  | 81.69( 48)  |
| Rough-Toothed Dolphin<br>( <u>Steno bredanensis</u> )          | 15                | 4     | 2     | 2                          | 8.07( 4)    | 10.73( 4)   | 9.39( 4)    |
| Bottlenosed Dolphin<br>( <u>Tursiops truncatus</u> )           | 18                | 27    | 7     | 20                         | 23.12( 27)  | 31.74( 26)  | 27.86( 26)  |
| Risso's Dolphin<br>( <u>Grampus griseus</u> )                  | 21                | 19    | 12    | 7                          | 8.82( 19)   | 11.21( 18)  | 9.42( 18)   |
| Fraser's Dolphin<br>( <u>Lagenodelphis hosei</u> )             | 26                | 4     | 4     | 0                          | 291.00( 4)  | 468.50( 4)  | 364.75( 4)  |
| Unidentified Dolphin   | 77                | 74    | 70    | 4                          | 14.68( 73)  | 30.39( 53)  | 21.29( 60)  |

Table 5. (continued)

| Species Name<br>(Scientific Name)                       | Species Sightings |       |            | Estimated-Mean-School-Size |            |            |            |
|---|-------------------|-------|------------|----------------------------|------------|------------|------------|
|   | Code              | Total | Pure Mixed | Low / (n)                  | High / (n) | Best / (n) |            |
| Melon-Headed Whale<br>( <u>Peponocephala electra</u> )  | 31                | 1     | 0          | 1                          | 188.02( 1) | 235.42( 1) | 206.98( 1) |
| False Killer Whale<br>( <u>Pseudorca Crassidens</u> )   | 33                | 2     | 1          | 1                          | 11.58( 2)  | 16.88( 2)  | 13.98( 2)  |
| Pilot Whale<br>( <u>Globicephala sp.</u> )              | 34                | 21    | 9          | 12                         | 8.55( 21)  | 12.36( 20) | 9.61( 21)  |
| Killer Whale<br>( <u>Orcinus orca</u> )                 | 37                | 4     | 4          | 0                          | 4.50( 4)   | 6.33( 3)   | 4.75( 4)   |
| Sperm Whale<br>( <u>Physeter macrocephalus</u> )        | 46                | 19    | 17         | 2                          | 3.96( 19)  | 4.99( 19)  | 4.18( 19)  |
| Pygmy Sperm Whale<br>( <u>Kogia breviceps</u> )         | 47                | 2     | 2          | 0                          | 1.00( 2)   | 1.00( 2)   | 1.00( 2)   |
| Beaked Whale<br>( <u>Ziphiid</u> )                      | 49                | 12    | 12         | 0                          | 1.75( 12)  | 1.75( 12)  | 1.75( 12)  |
| Unid. Mesoplodont<br>( <u>Mesoplodon sp.</u> )          | 51                | 4     | 4          | 0                          | 2.00( 4)   | 2.50( 4)   | 2.25( 4)   |
| Cuvier's Beaked Whale<br>( <u>Ziphius cavirostris</u> ) | 61                | 5     | 5          | 0                          | 1.60( 5)   | 1.60( 5)   | 1.60( 5)   |
| Rorqual<br>( <u>Balaenoptera sp.</u> )                  | 70                | 11    | 10         | 1                          | 2.09( 11)  | 2.50( 11)  | 2.24( 11)  |
| Minke Whale<br>( <u>B. acutorostrata</u> )              | 71                | 2     | 2          | 0                          | 1.00( 2)   | 1.00( 2)   | 1.00( 2)   |
| Bryde's Whale<br>( <u>B. edeni</u> )                    | 72                | 3     | 2          | 1                          | 1.39( 3)   | 1.63( 3)   | 1.49( 3)   |
| Unidentified Small Whale                                | 78                | 16    | 16         | 0                          | 1.87( 16)  | 2.71( 14)  | 2.25( 16)  |
| Unidentified Large Whale                                | 79                | 4     | 4          | 0                          | 1.00( 4)   | 1.25( 4)   | 1.00( 4)   |
| Unidentified Cetacean                                   | 96                | 15    | 15         | 0                          | 1.57( 14)  | 1.69( 13)  | 2.14( 14)  |
| Unidentified Whale                                      | 98                | 28    | 27         | 1                          | 1.87( 28)  | 2.50( 26)  | 2.09( 27)  |



Table 6. Summary of distance searched, large dolphin schools detected, and rates of encountering dolphins by observers aboard the McArthur in the eastern tropical Pacific during July 29 through December 6, 1986.

|                             | Distance Searched (km) | Percent Searched km | Number Schools Detected | Percent All Schools Detected | Detection Rate (Schools/1000 km) | S.E. Detection Rate | Number <sup>1</sup> |               |
|-----------------------------|------------------------|---------------------|-------------------------|------------------------------|----------------------------------|---------------------|---------------------|---------------|
|                             |                        |                     |                         |                              |                                  |                     | Days Searched       | Days Searched |
| All Data                    | 12172                  | 100                 | 147                     | 100                          | 12.07                            | 1.55                | 90                  | 90            |
| Northern                    | 678                    | 6                   | 13                      | 9                            | 19.18                            | 10.05               | 5                   | 5             |
| Inshore                     | 1843                   | 15                  | 31                      | 21                           | 16.82                            | 5.60                | 19                  | 19            |
| Middle                      | 2570                   | 21                  | 34                      | 23                           | 13.23                            | 2.28                | 20                  | 20            |
| West                        | 3131                   | 26                  | 28                      | 18                           | 8.94                             | 1.80                | 23                  | 23            |
| South                       | 3950                   | 32                  | 41                      | 28                           | 10.38                            | 2.61                | 30                  | 30            |
| Sea State Conditions        |                        |                     |                         |                              |                                  |                     |                     |               |
| Calm                        | 1265                   | 10                  | 31                      | 21                           | 24.51                            | 5.58                | 27                  | 27            |
| Rough                       | 10907                  | 90                  | 116                     | 79                           | 10.64                            | 1.28                | 85                  | 85            |
| Visibility Conditions       |                        |                     |                         |                              |                                  |                     |                     |               |
| Good                        | 11257                  | 92                  | 140                     | 95                           | 12.44                            | 1.59                | 90                  | 90            |
| Poor                        | 914                    | 8                   | 7                       | 5                            | 7.66                             | 3.61                | 51                  | 51            |
| Observers                   |                        |                     |                         |                              |                                  |                     |                     |               |
| 5                           | 6164                   | 51                  | 19                      | 13                           | 3.08                             | 0.88                | 89                  | 89            |
| 38                          | 5984                   | 49                  | 40                      | 27                           | 6.68                             | 1.20                | 89                  | 89            |
| 55                          | 5971                   | 49                  | 21                      | 14                           | 3.52                             | 1.02                | 88                  | 88            |
| 61                          | 6160                   | 51                  | 28                      | 19                           | 4.55                             | 0.99                | 90                  | 90            |
| 63                          | 6076                   | 50                  | 12                      | 8                            | 1.98                             | 0.61                | 88                  | 88            |
| 64                          | 6031                   | 50                  | 27                      | 18                           | 4.48                             | 1.01                | 90                  | 90            |
| Observer Teams <sup>2</sup> |                        |                     |                         |                              |                                  |                     |                     |               |
| 1                           | 6131                   | 51                  | 57                      | 39                           | 9.30                             | 1.50                | 89                  | 89            |
| 2                           | 5951                   | 49                  | 90                      | 61                           | 15.12                            | 2.37                | 89                  | 89            |

<sup>1</sup>Day included in tally if searching effort for the variable occurred during any part of the day.  
<sup>2</sup>89 km occurred when either both or no team leaders were on duty and is not used for team analysis.

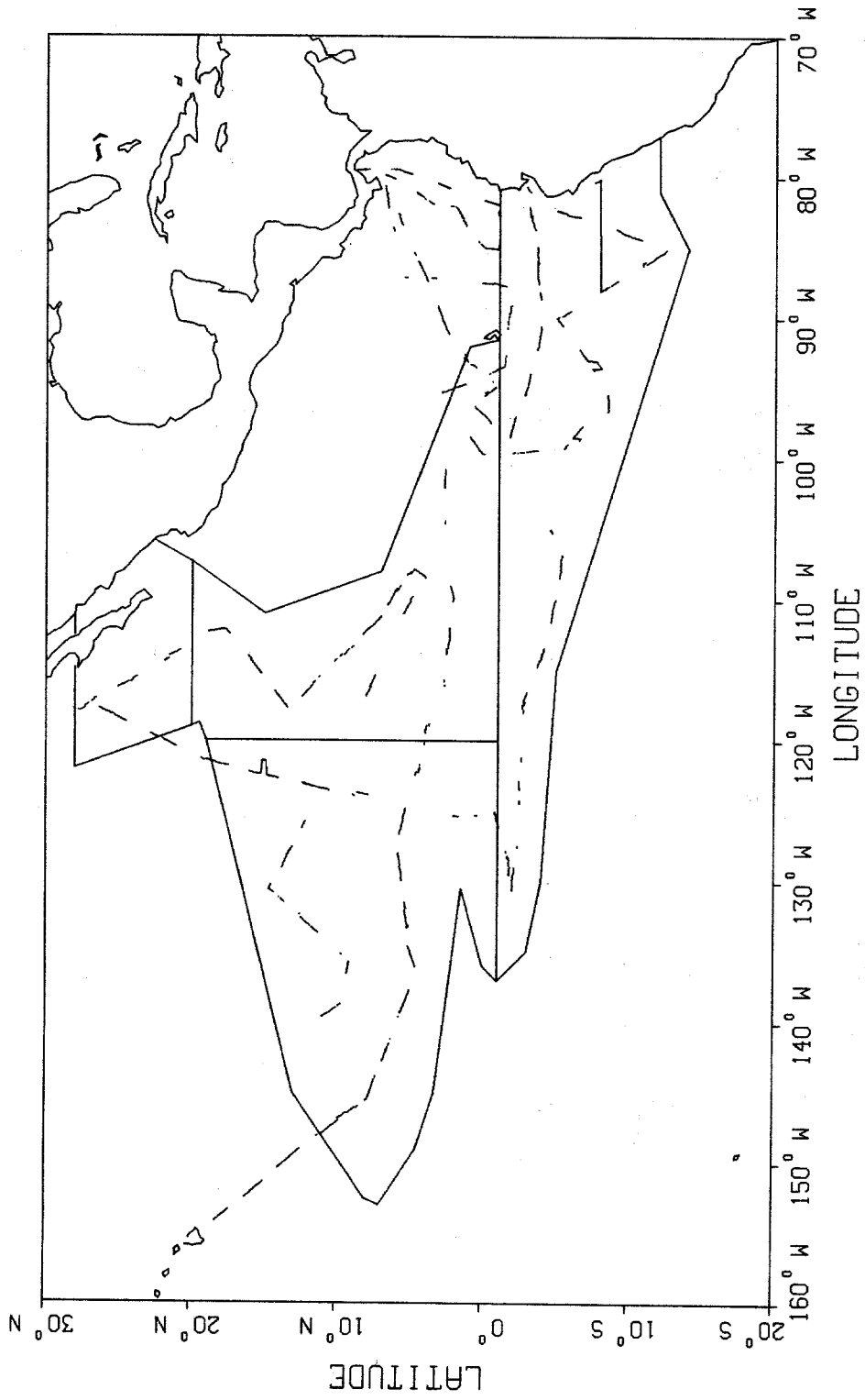


Figure 1. Tracklines surveyed from the R/V McArthur in the eastern tropical Pacific during July 29 through December 6, 1986.



| CRUISE # | DATE |       |     | SIGHT # | SERIES # | LEG # | CARD # |
|----------|------|-------|-----|---------|----------|-------|--------|
|          | YEAR | MONTH | DAY |         |          |       |        |
|          |      |       |     |         |          |       | 01     |

**RESEARCH SHIP  
MARINE MAMMAL  
SIGHTING RECORD**

| SIGHTING CUE |                   |                     |      | ENVIR. COND. AT CUE  |          |          |          | POSITION AT TIME OF CUE |           |     |                   | OBSERVER POSITIONS |           |            |     |                  |    |    |    |
|--------------|-------------------|---------------------|------|----------------------|----------|----------|----------|-------------------------|-----------|-----|-------------------|--------------------|-----------|------------|-----|------------------|----|----|----|
| TIME         | BEARING FROM SHIP | DISTANCE nm & 10ths | BEAU | SURF TEMP *F & 10ths | HORZ SUN | VERT SUN | LATITUDE | N/S                     | LONGITUDE | E/W | TIME M.M. SIGHTED | Y/N                | LEFT BIND | RIGHT BIND | REC | M.M. DETECTED BY |    |    |    |
| 18           | 22                | 23                  | 24   | 27                   | 30       | 31       | 34       | 36                      | 38        | 42  | 43                | 48                 | 49        | 50         | 54  | 55               | 57 | 59 | 61 |

**OBSERVER 1**

| OBS. CODE | SCHOOL SIZE ESTIMATE |      |     | CARD # | SPECIES PROPORTIONS |           |             |           |             |           |             |           |    |    |  |  |  |  |  |
|-----------|----------------------|------|-----|--------|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|----|----|--|--|--|--|--|
|           | BEST                 | HIGH | LOW |        | SPECIES 1 %         | SP 1 CODE | SPECIES 2 % | SP 2 CODE | SPECIES 3 % | SP 3 CODE | SPECIES 4 % | SP 4 CODE |    |    |  |  |  |  |  |
|           |                      |      |     | 02     |                     |           |             |           |             |           |             |           |    |    |  |  |  |  |  |
|           | 63                   | 65   | 69  | 73     | 76                  | 16        | 18          | 21        | 23          | 26        | 28          | 31        | 33 | 36 |  |  |  |  |  |
|           | S P 1                |      |     | S P 2  |                     |           | S P 3       |           |             | S P 4     |             |           |    |    |  |  |  |  |  |

**OBSERVER 2**

| OBS. CODE | SCHOOL SIZE ESTIMATE |      |     | SPECIES PROPORTIONS |           |             |           |             |           |             |           |    |  |  |  |  |  |  |  |
|-----------|----------------------|------|-----|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|----|--|--|--|--|--|--|--|
|           | BEST                 | HIGH | LOW | SPECIES 1 %         | SP 1 CODE | SPECIES 2 % | SP 2 CODE | SPECIES 3 % | SP 3 CODE | SPECIES 4 % | SP 4 CODE |    |  |  |  |  |  |  |  |
|           |                      |      |     |                     |           |             |           |             |           |             |           |    |  |  |  |  |  |  |  |
|           | 38                   | 40   | 44  | 48                  | 52        | 55          | 57        | 60          | 62        | 65          | 67        | 70 |  |  |  |  |  |  |  |
|           | S P 1                |      |     | S P 2               |           |             | S P 3     |             |           | S P 4       |           |    |  |  |  |  |  |  |  |

**OBSERVER 3**

| OBS. CODE | SCHOOL SIZE ESTIMATE |      |     | CARD # | SPECIES PROPORTIONS |           |             |           |             |           |             |           |    |    |  |  |  |  |  |
|-----------|----------------------|------|-----|--------|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|----|----|--|--|--|--|--|
|           | BEST                 | HIGH | LOW |        | SPECIES 1 %         | SP 1 CODE | SPECIES 2 % | SP 2 CODE | SPECIES 3 % | SP 3 CODE | SPECIES 4 % | SP 4 CODE |    |    |  |  |  |  |  |
|           |                      |      |     | 03     |                     |           |             |           |             |           |             |           |    |    |  |  |  |  |  |
|           | 72                   | 74   | 77  | 16     | 18                  | 22        | 26          | 29        | 31          | 34        | 36          | 39        | 41 | 44 |  |  |  |  |  |
|           | S P 1                |      |     | S P 2  |                     |           | S P 3       |           |             | S P 4     |             |           |    |    |  |  |  |  |  |

**OBSERVER 4**

| OBS. CODE | SCHOOL SIZE ESTIMATE |      |     | CARD # | SPECIES PROPORTIONS |           |             |           |             |           |             |           |    |    |  |  |  |  |  |
|-----------|----------------------|------|-----|--------|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|----|----|--|--|--|--|--|
|           | BEST                 | HIGH | LOW |        | SPECIES 1 %         | SP 1 CODE | SPECIES 2 % | SP 2 CODE | SPECIES 3 % | SP 3 CODE | SPECIES 4 % | SP 4 CODE |    |    |  |  |  |  |  |
|           |                      |      |     | 04     |                     |           |             |           |             |           |             |           |    |    |  |  |  |  |  |
|           | 46                   | 48   | 52  | 56     | 60                  | 63        | 65          | 68        | 70          | 73        | 75          | 77        | 16 | 18 |  |  |  |  |  |
|           | S P 1                |      |     | S P 2  |                     |           | S P 3       |           |             | S P 4     |             |           |    |    |  |  |  |  |  |

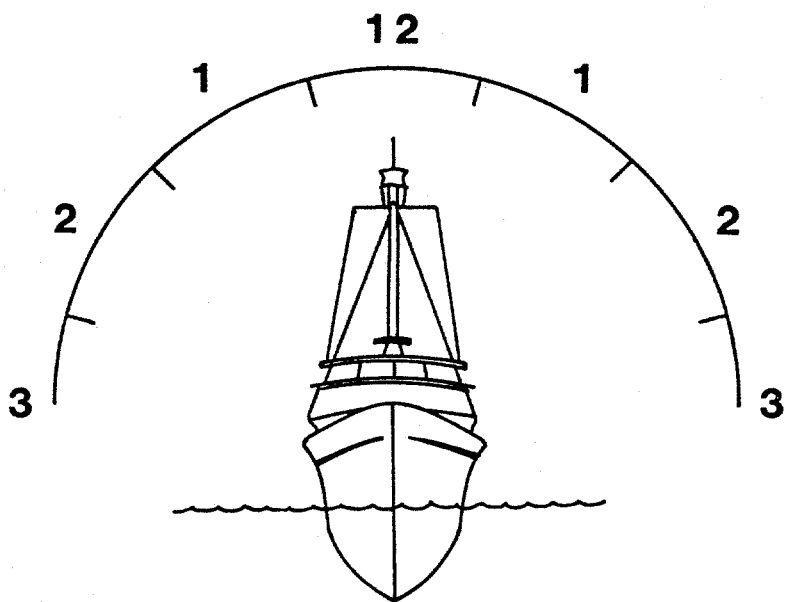
**OBSERVER 5**

| OBS. CODE | SCHOOL SIZE ESTIMATE |      |     | SPECIES PROPORTIONS |           |             |           |             |           |             |           |    |  |  |  |  |  |  |  |
|-----------|----------------------|------|-----|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|----|--|--|--|--|--|--|--|
|           | BEST                 | HIGH | LOW | SPECIES 1 %         | SP 1 CODE | SPECIES 2 % | SP 2 CODE | SPECIES 3 % | SP 3 CODE | SPECIES 4 % | SP 4 CODE |    |  |  |  |  |  |  |  |
|           |                      |      |     |                     |           |             |           |             |           |             |           |    |  |  |  |  |  |  |  |
|           | 20                   | 22   | 26  | 30                  | 34        | 37          | 39        | 42          | 44        | 47          | 49        | 52 |  |  |  |  |  |  |  |
|           | S P 1                |      |     | S P 2               |           |             | S P 3     |             |           | S P 4       |           |    |  |  |  |  |  |  |  |

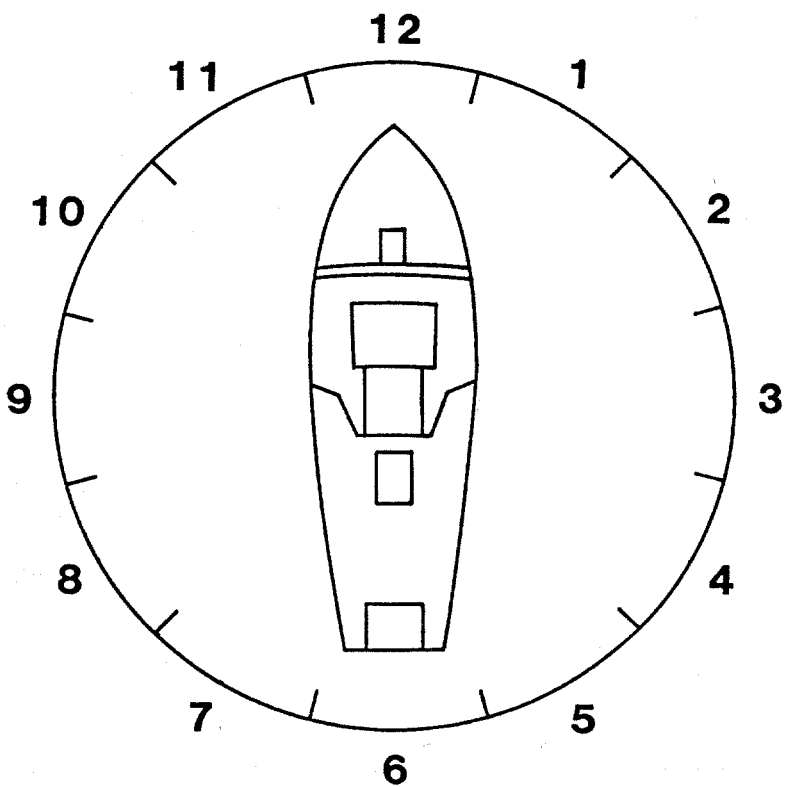
**OBSERVER 6**

| OBS. CODE | SCHOOL SIZE ESTIMATE |      |     | CARD # | SPECIES PROPORTIONS |           |             |           |             |           |             |           | RECORDING |      |      |      |      |      |    |
|-----------|----------------------|------|-----|--------|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-----------|------|------|------|------|------|----|
|           | BEST                 | HIGH | LOW |        | SPECIES 1 %         | SP 1 CODE | SPECIES 2 % | SP 2 CODE | SPECIES 3 % | SP 3 CODE | SPECIES 4 % | SP 4 CODE | RC 1      | RC 2 | RC 3 | RC 4 | RC 5 | RC 6 |    |
|           |                      |      |     | 05     |                     |           |             |           |             |           |             |           |           |      |      |      |      |      |    |
|           | 54                   | 56   | 60  | 64     | 68                  | 71        | 73          | 76        | 16          | 18        | 21          | 23        | 26        | 28   | 29   | 30   | 31   | 32   | 33 |
|           | S P 1                |      |     | S P 2  |                     |           | S P 3       |           |             | S P 4     |             |           |           |      |      |      |      |      |    |

Figure 3. Research ship marine mammal sighting record.



**VERTICAL SUN POSITION**



**HORIZONTAL SUN POSITION**

Figure 4. Vertical and horizontal sun position categories.

| CRUISE # | DATE |       |     | SIGHT # | SERIES # | LEG # | OBS. CODE |
|----------|------|-------|-----|---------|----------|-------|-----------|
|          | YEAR | MONTH | DAY |         |          |       |           |
| 1        | 4    | 6     | 8   | 10      | 12       | 14    | 16        |

**SIGHTING SUMMARY**

LIST ALL DIAGNOSTIC FEATURES OBSERVED  
(INCLUDING ESTIMATED BODY LENGTH)

SKETCH FEATURES OF ANIMALS SIGHTED

BEHAVIOR – (DESCRIBE AGGREGATION, MOVEMENT, BOW AND STERN RIDING, BLOWS, ETC.)

ASSOCIATED ANIMALS – (INCLUDE NUMBER AND SPECIES OF BIRDS)

PHOTOS: ROLL # \_\_\_\_\_

FRAME(S): # \_\_\_\_\_

TOTAL TIME OF OBSERVATION \_\_\_\_\_

ENVIR. COND. (RAIN, OVERCAST, FOG, CHOPPY) \_\_\_\_\_

CLOSEST DISTANCE OF OBSERVATION \_\_\_\_\_

AMT. OF TIME AT CLOSEST DISTANCE \_\_\_\_\_

TAGS ASSOCIATED WITH SIGHTING \_\_\_\_\_

METHOD OF OBSERVATION (EYE, 7x, 10x, 25x) \_\_\_\_\_

Figure 5. Research ship marine mammal sighting record continuation sheet.

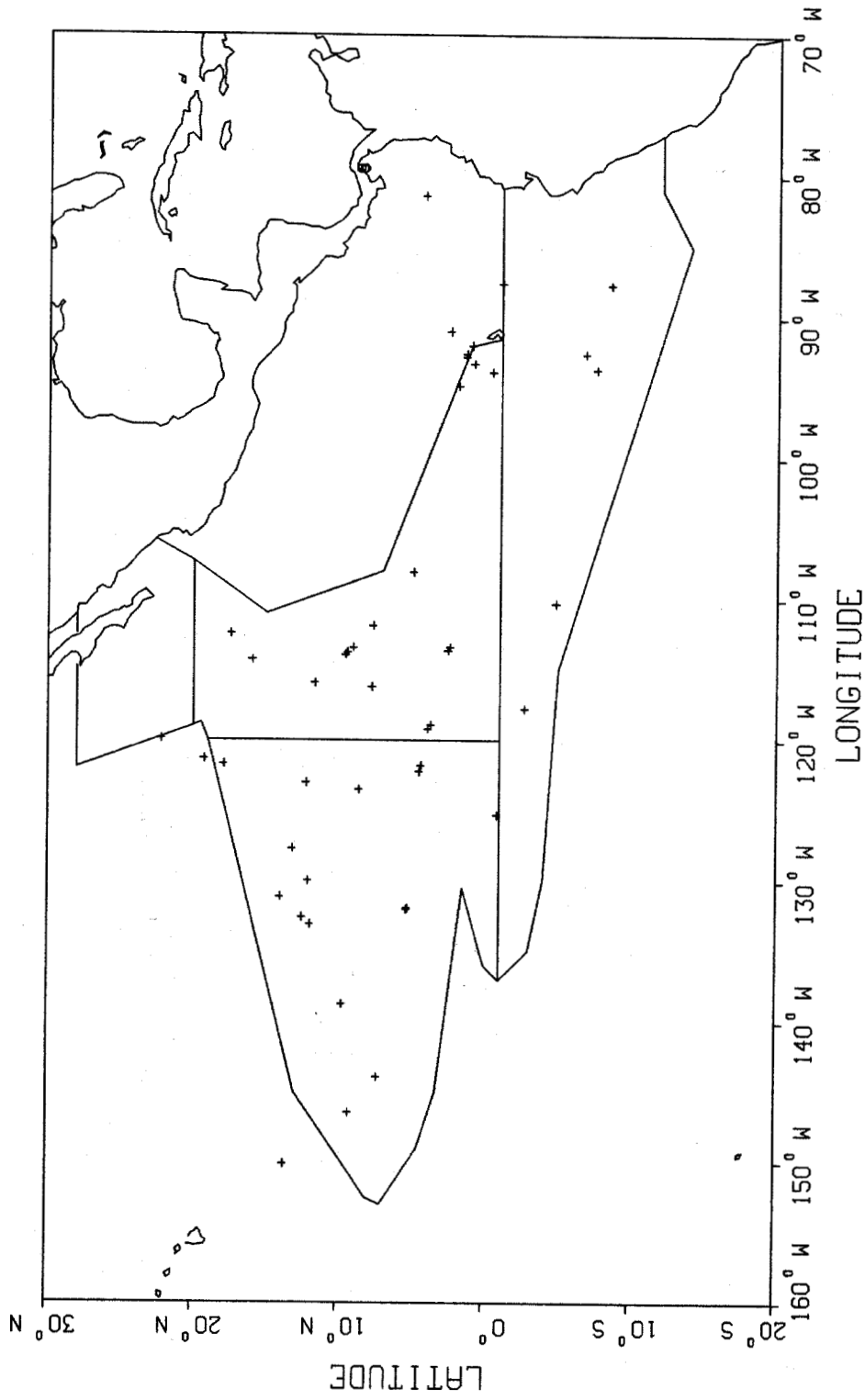


Figure 6. Offshore (+) and coastal (o) spotted dolphins detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

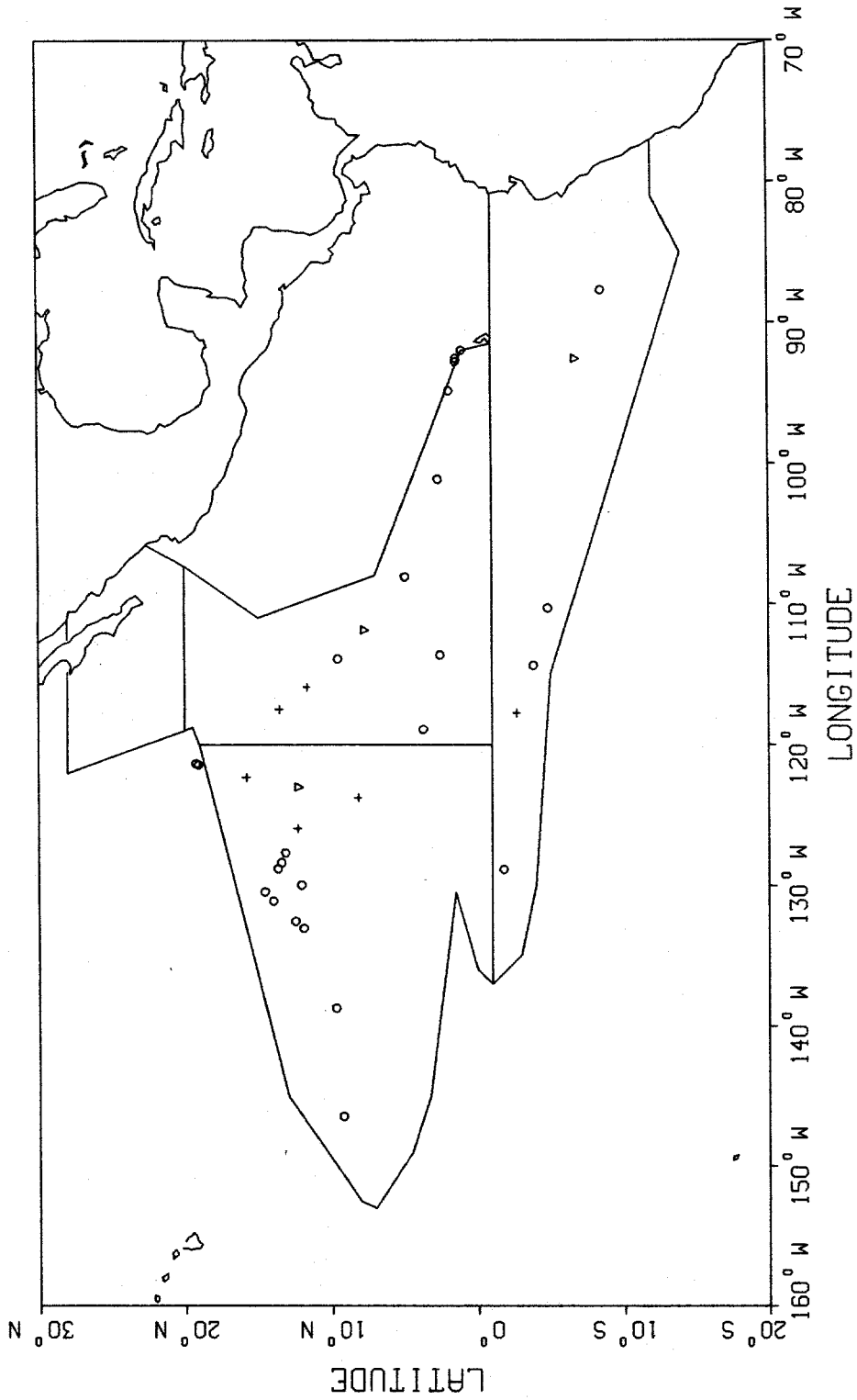


Figure 7. Eastern (+), whitebelly (o) and unidentified (v) spinner dolphins detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.





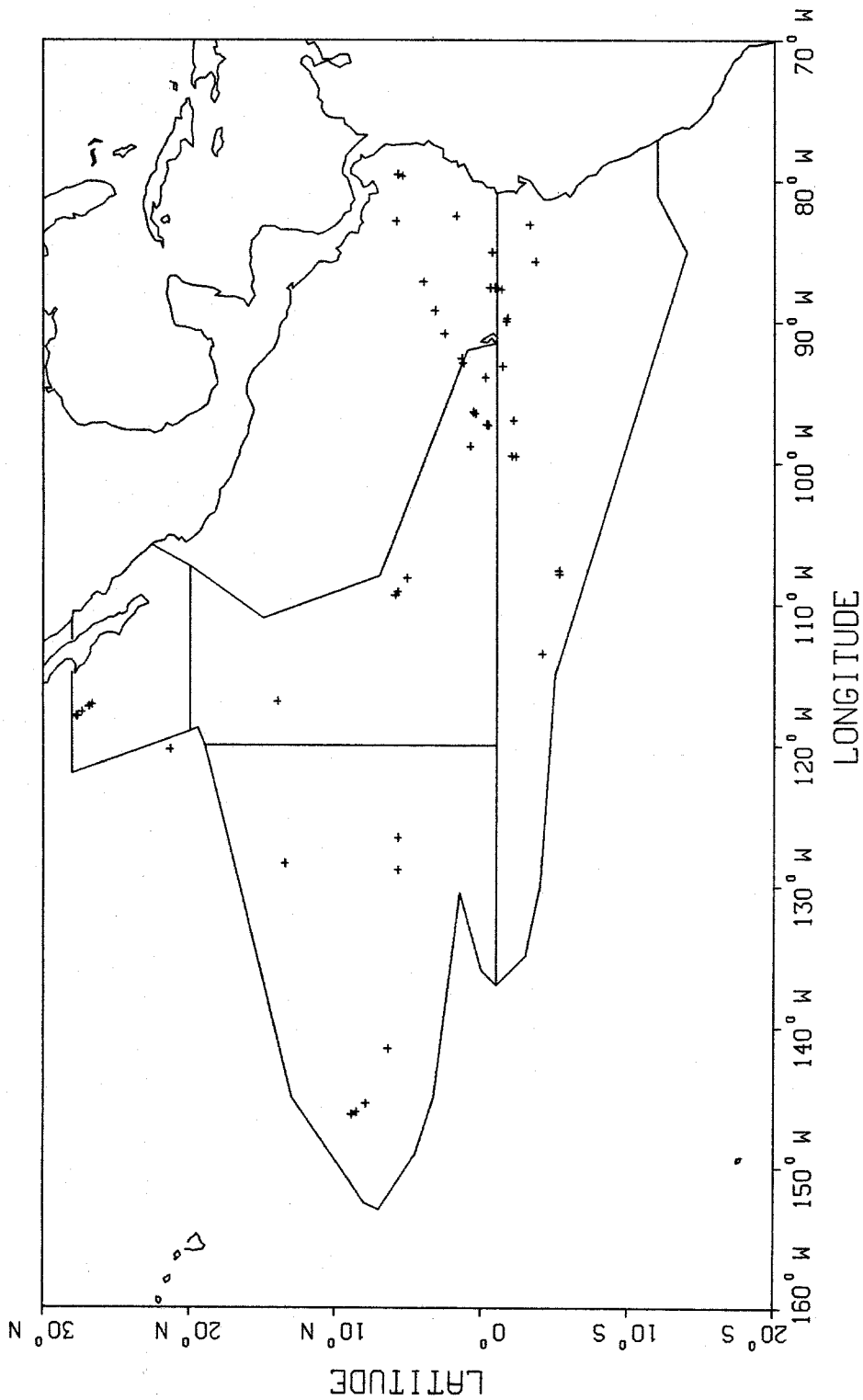


Figure 9. Striped dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

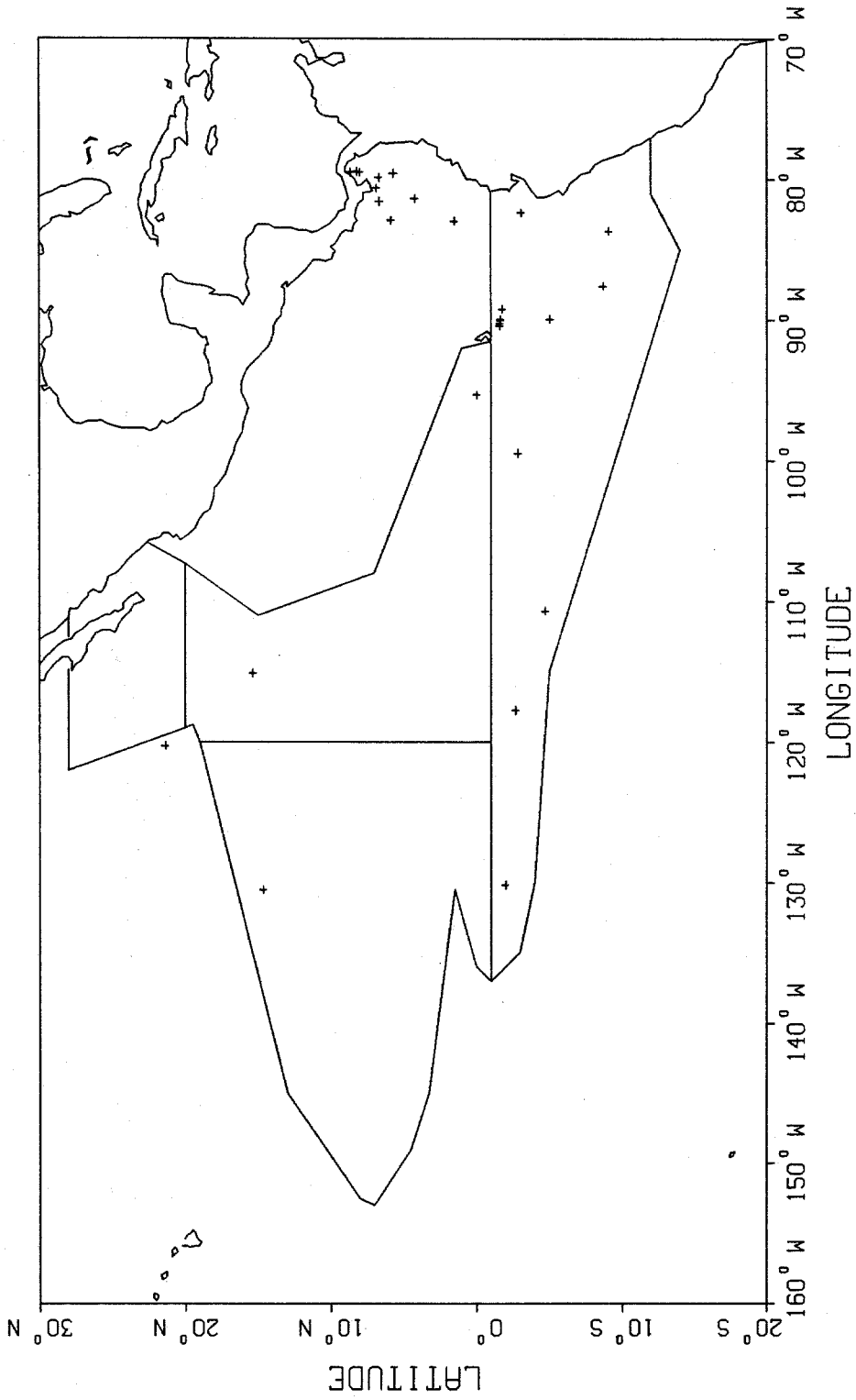


Figure 10. Bottlenose dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

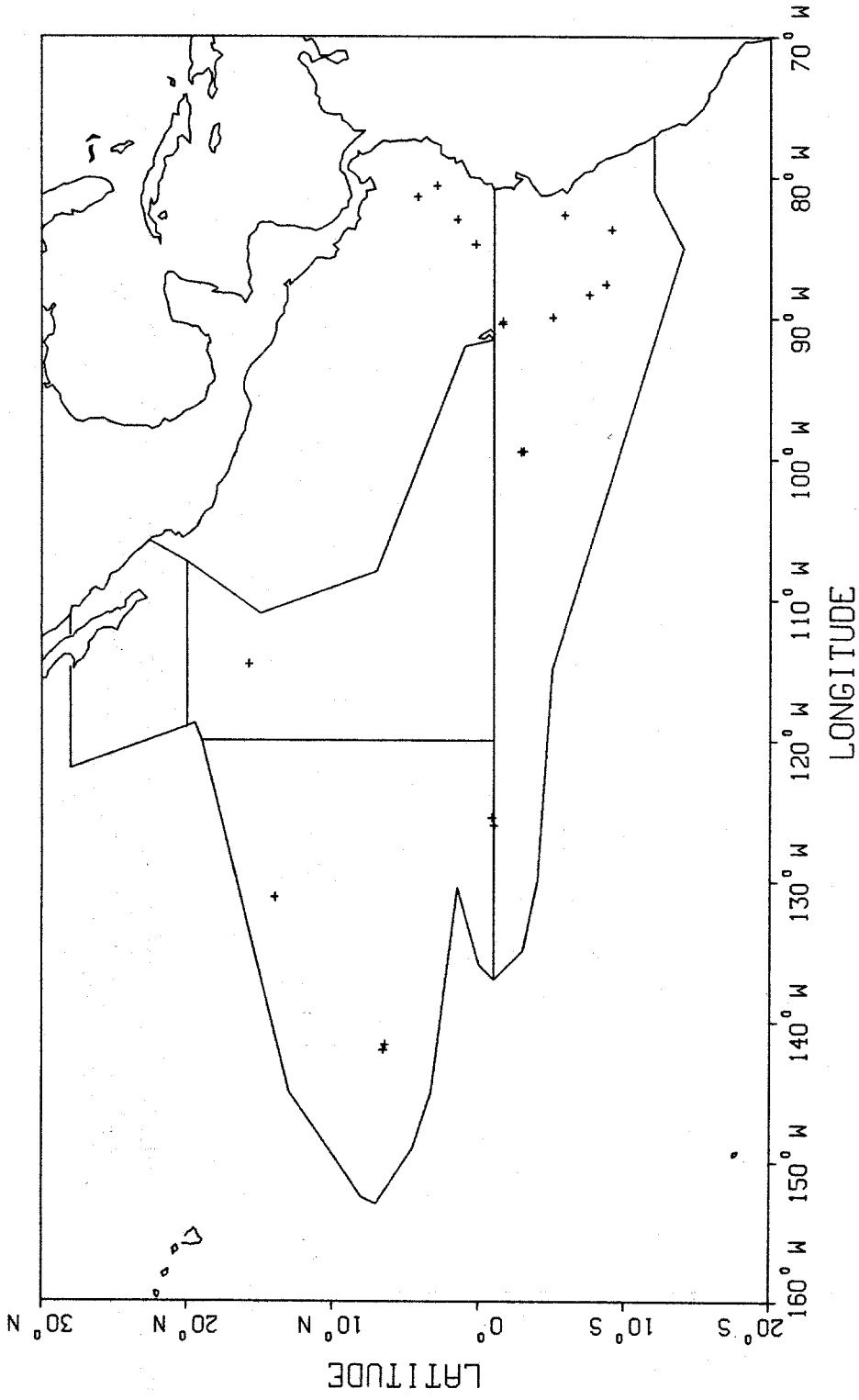


Figure 11. Risso's dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

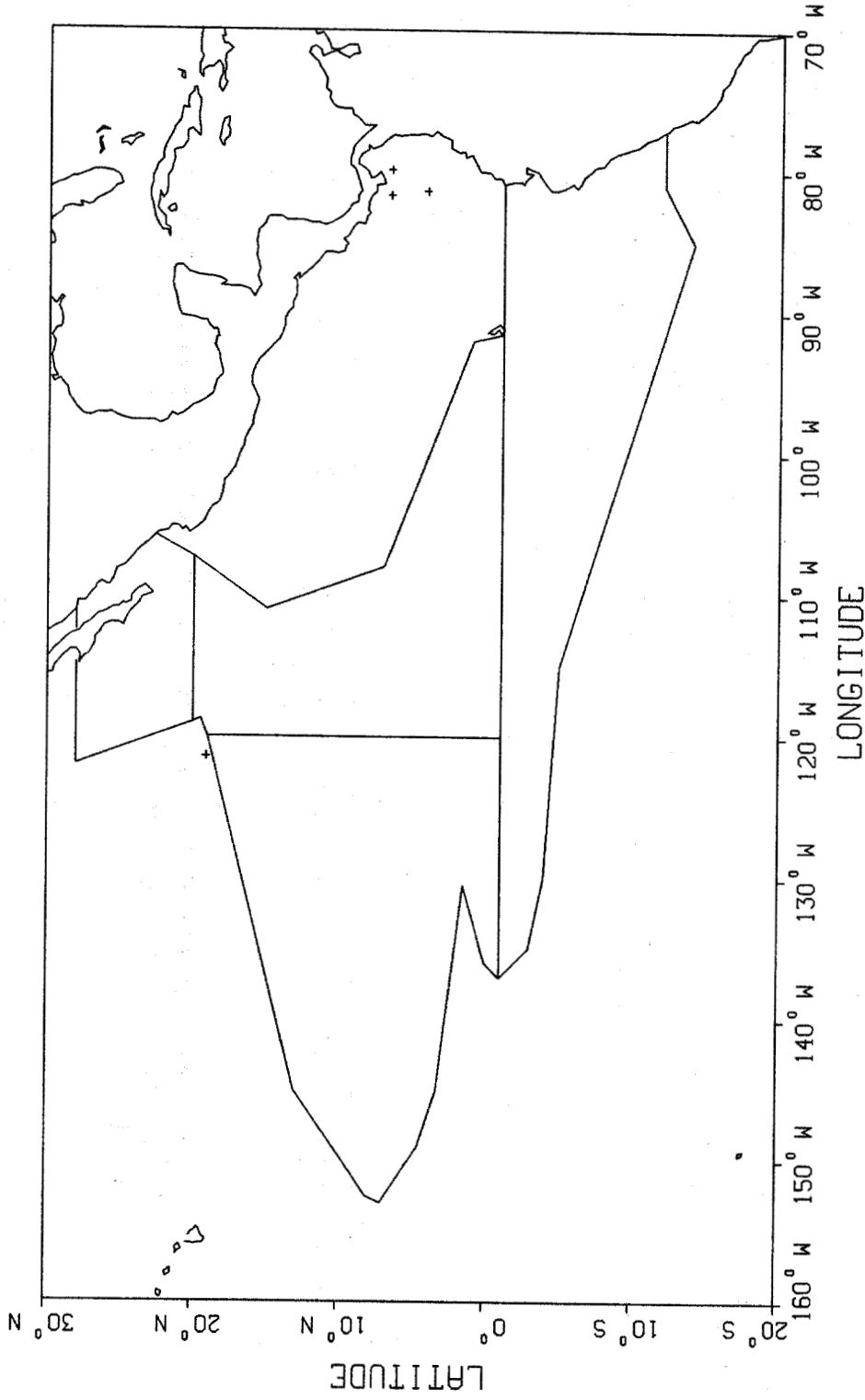


Figure 12. Rough-toothed dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

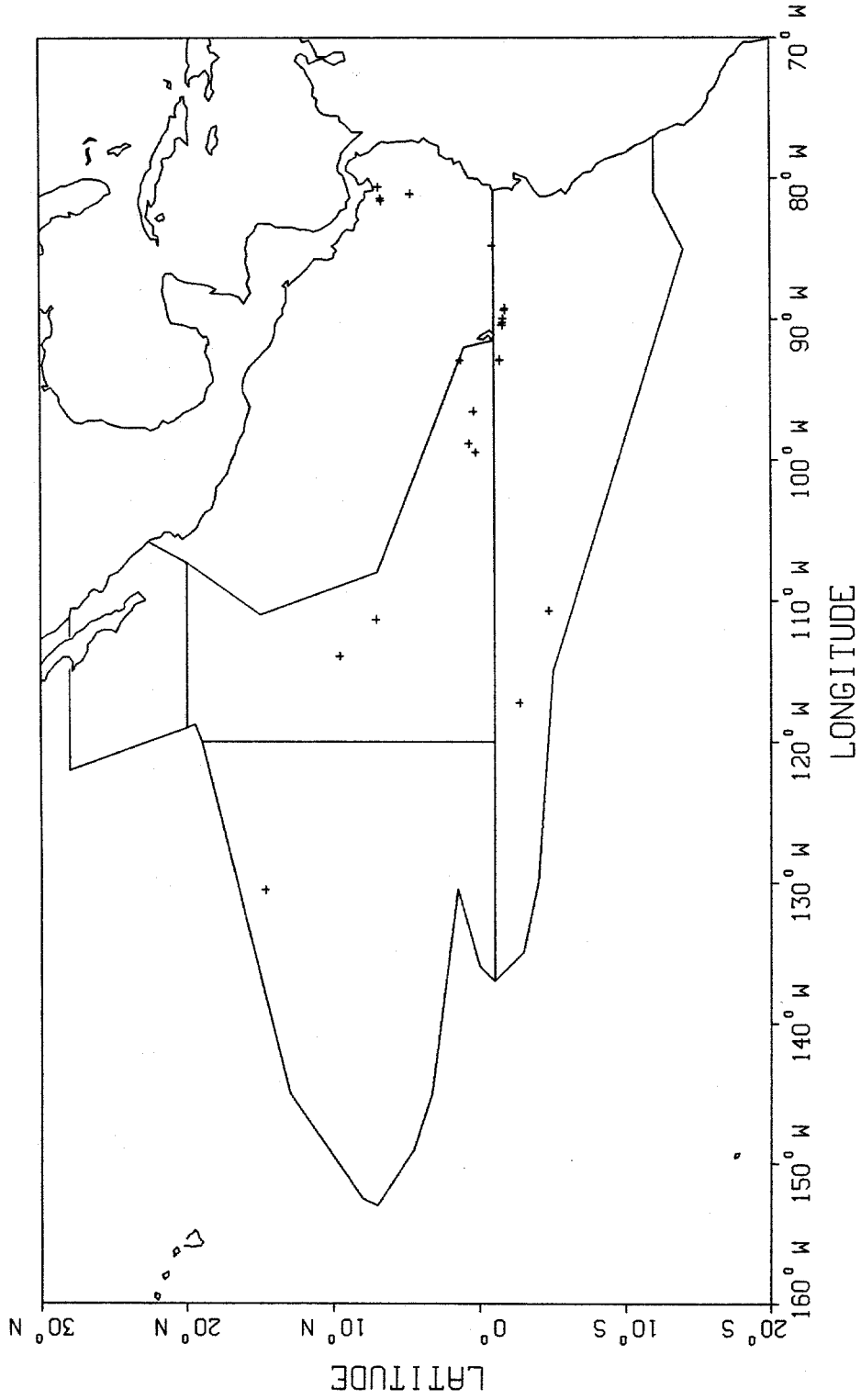


Figure 13. Pilot whales (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

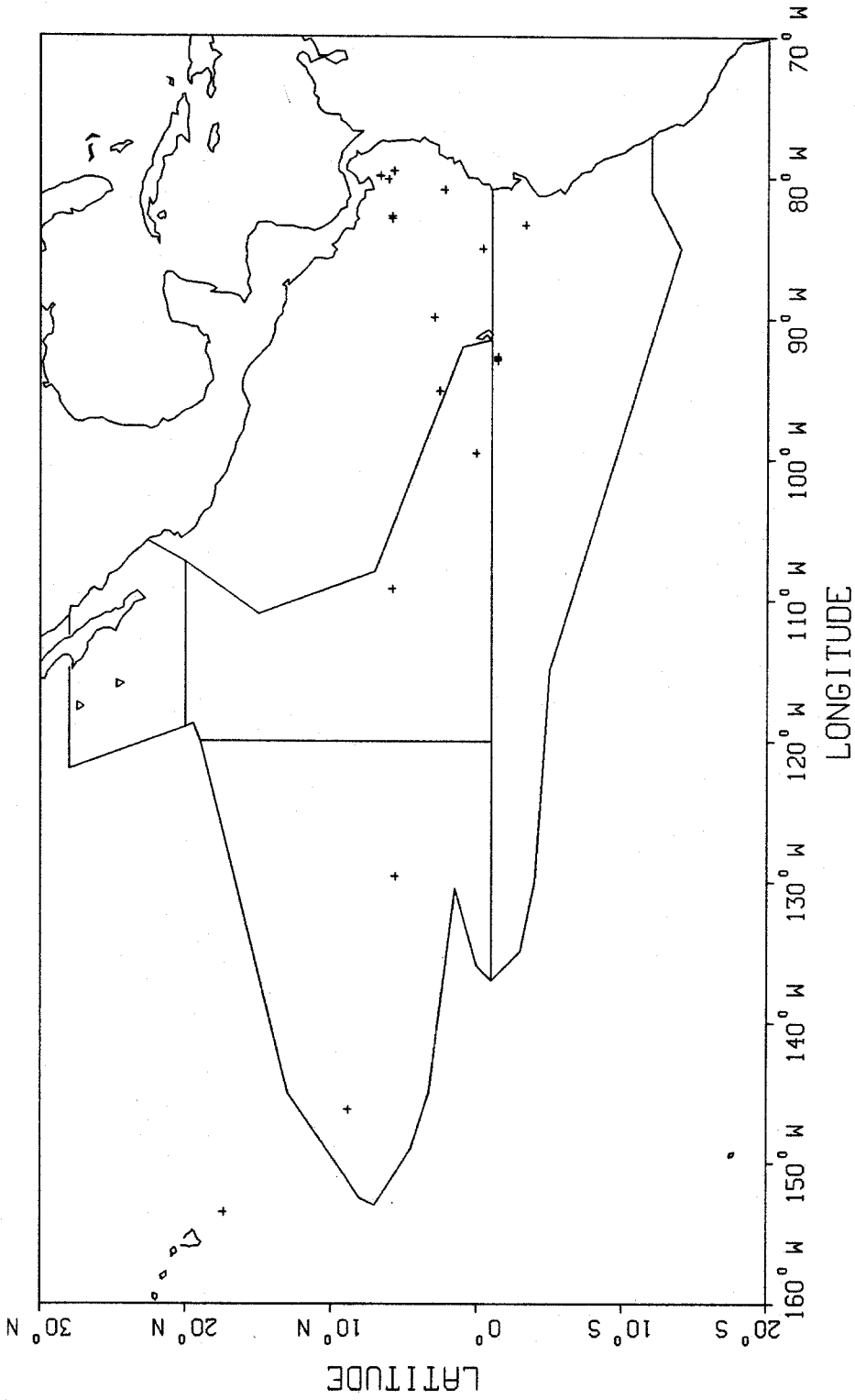


Figure 14. Sperm (+) and pygmy sperm (v) whales detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.





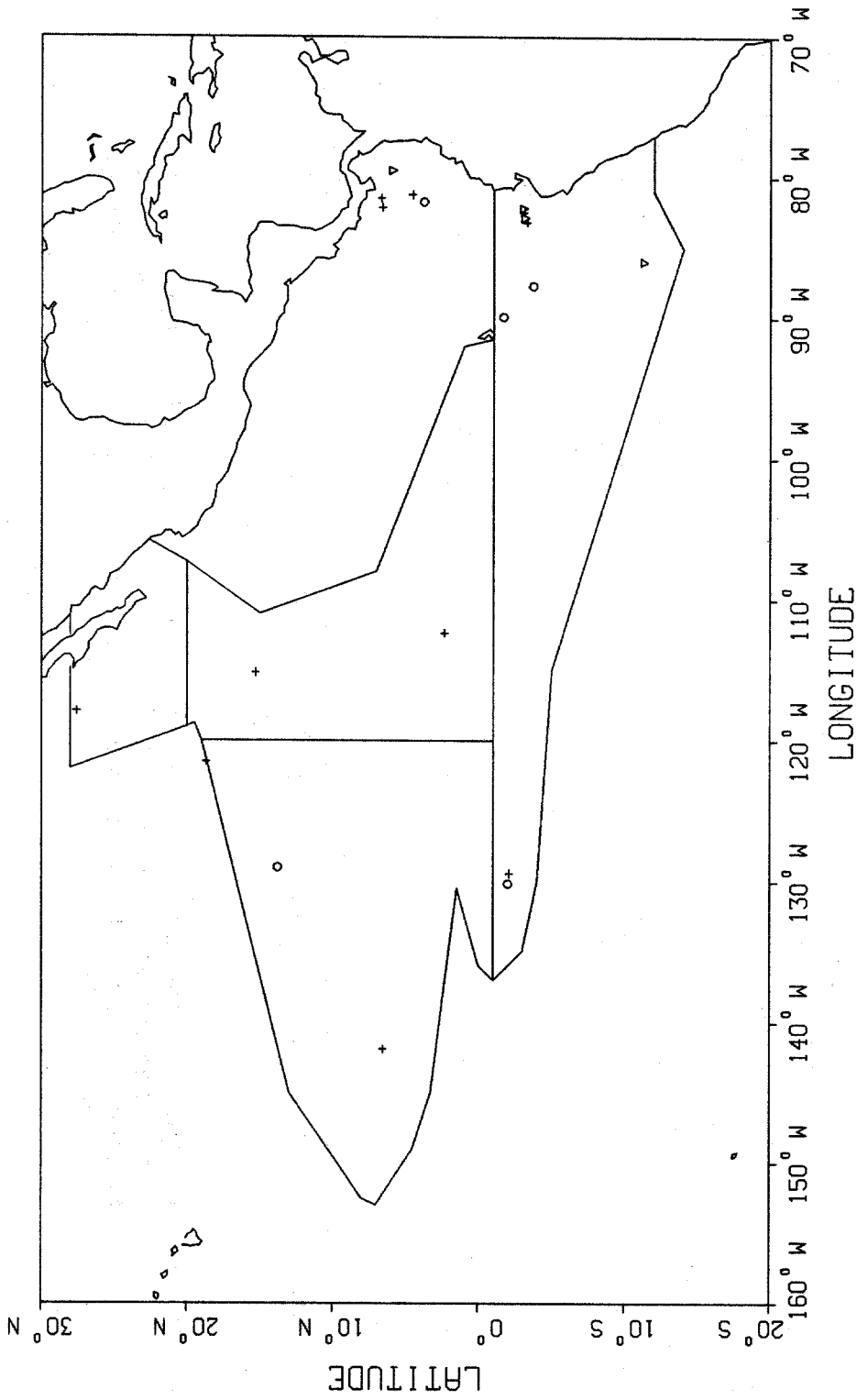


Figure 16. Unidentified beaked (+), Cuvier's beaked (o) and unidentified mesoplodon (v) whales detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

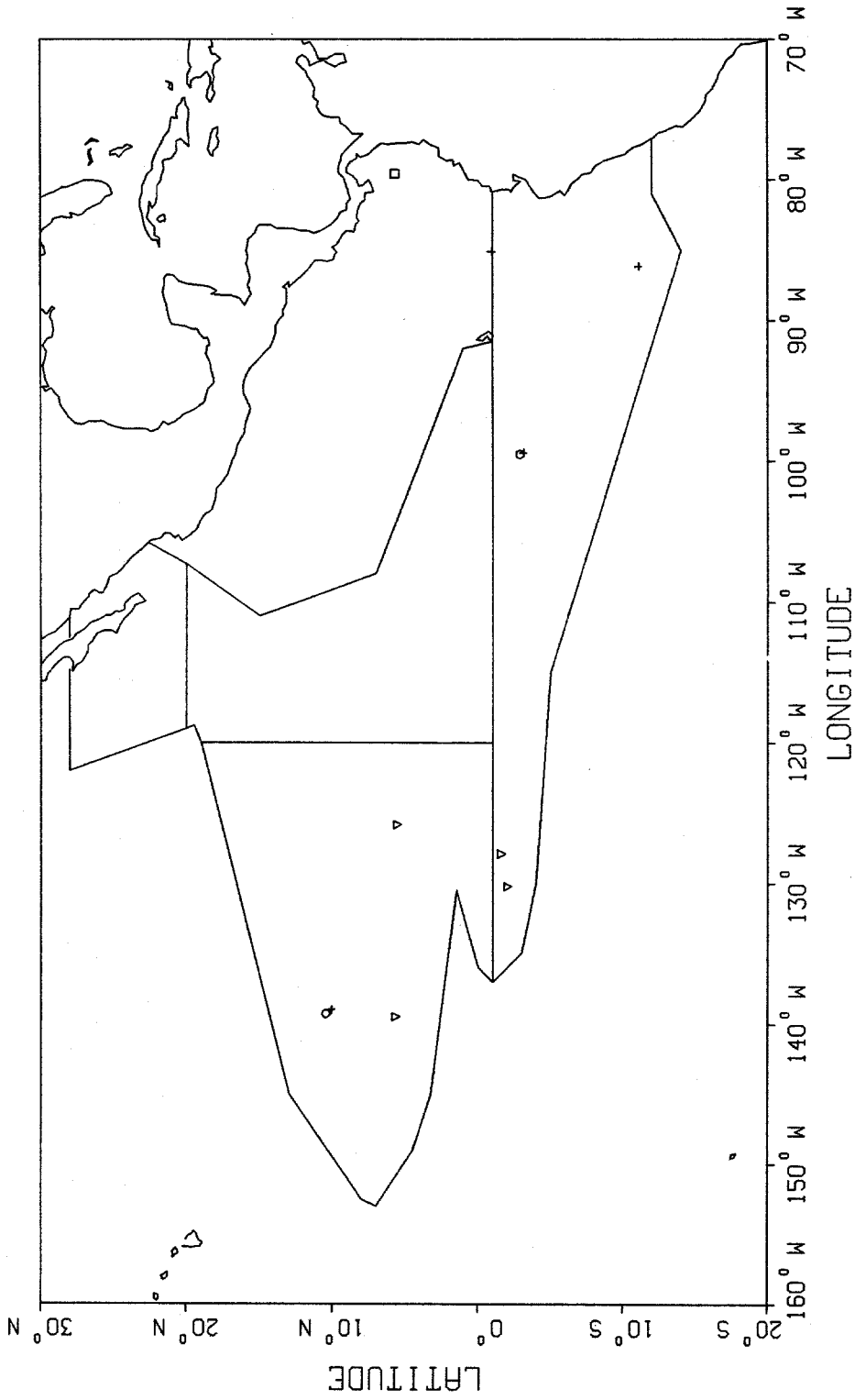


Figure 17. Killer (+) and false killer (o) whales, Fraser's dolphins (▽) and melon-headed whales (□) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

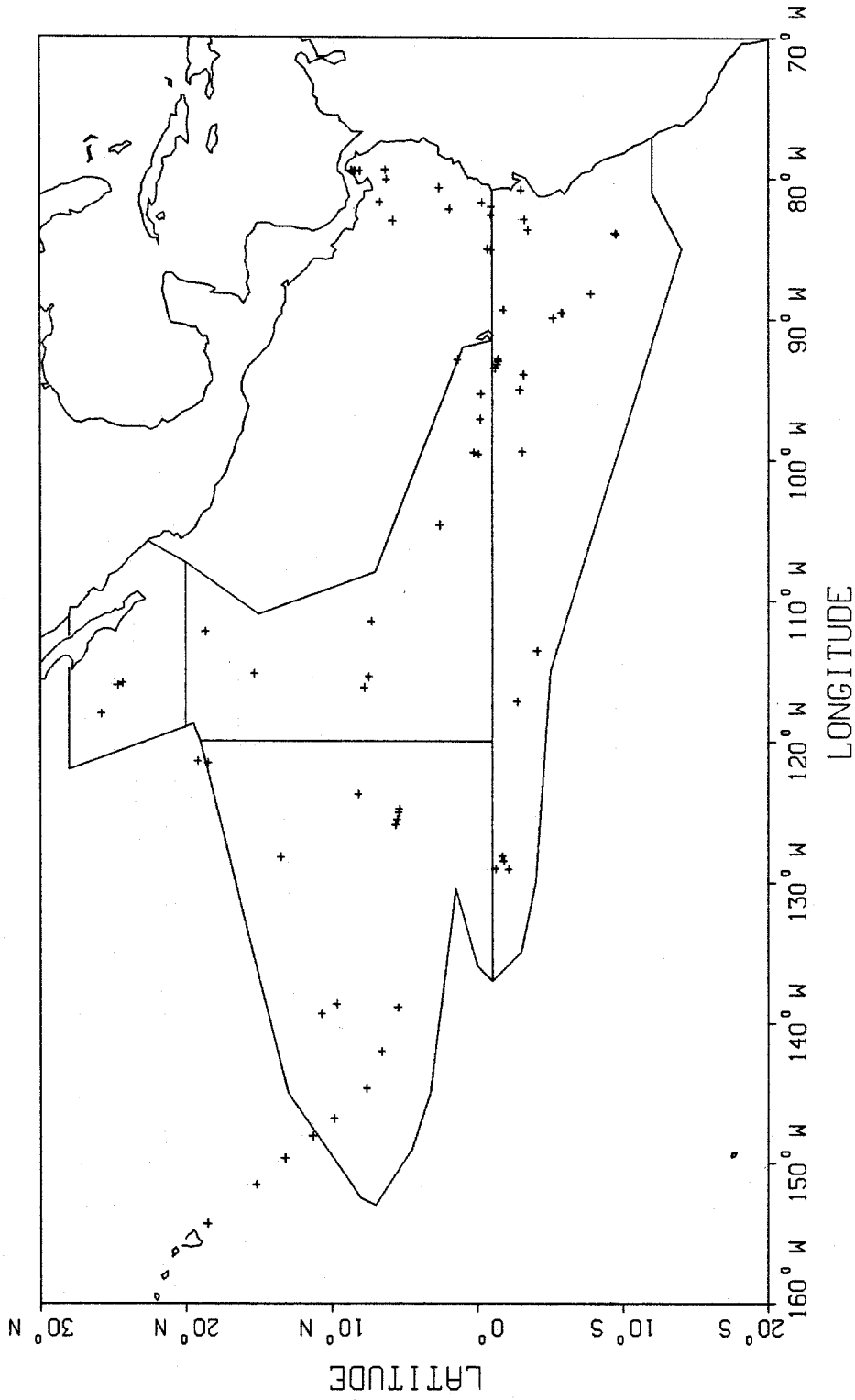


Figure 18. Unidentified dolphins (+) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

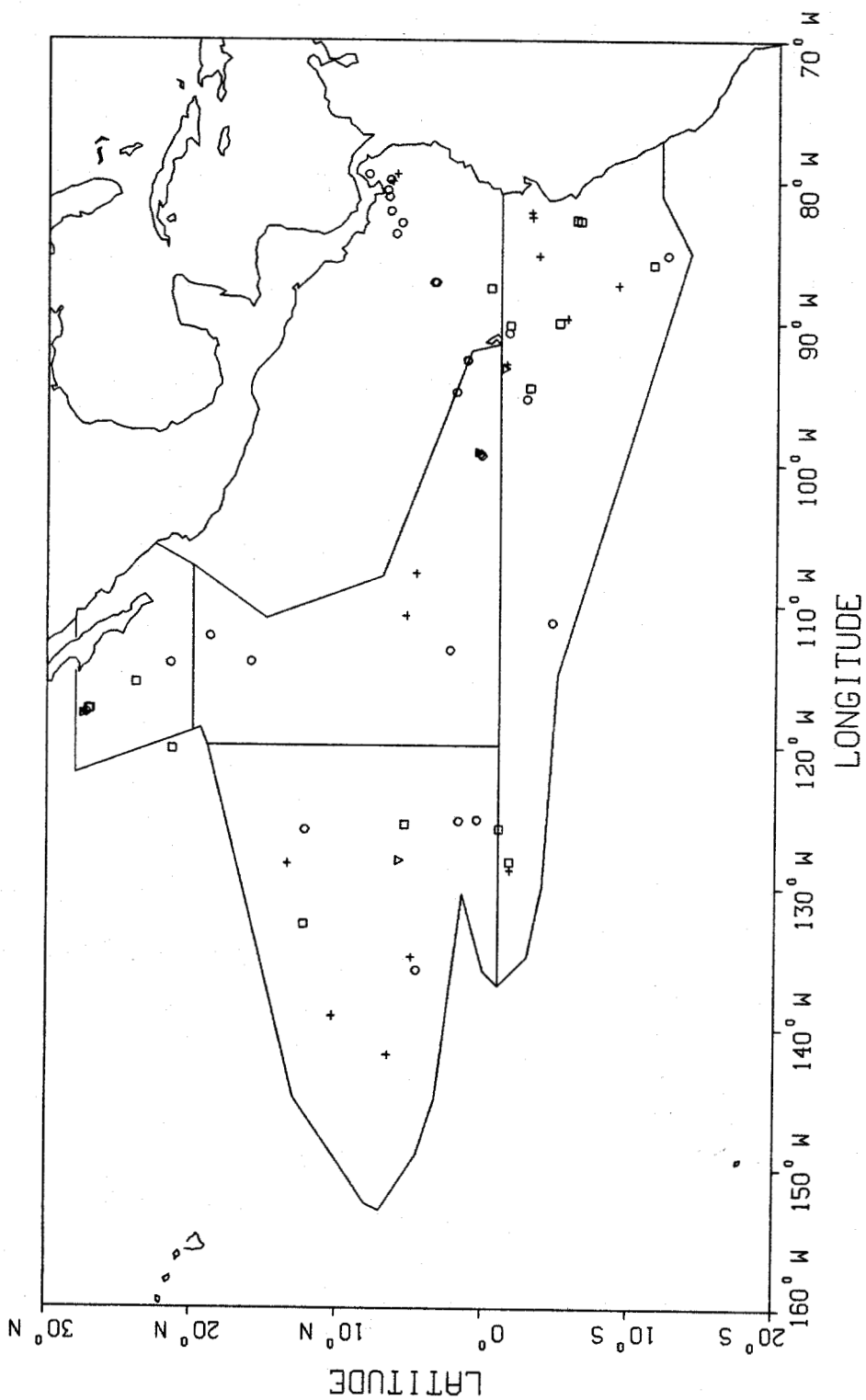


Figure 19. Unidentified small whales (+), unidentified whales (o), unidentified large whales (v) and unidentified cetaceans (□) detected from aboard the NOAA ship McArthur from July 29 through December 6, 1986 in the eastern tropical Pacific.

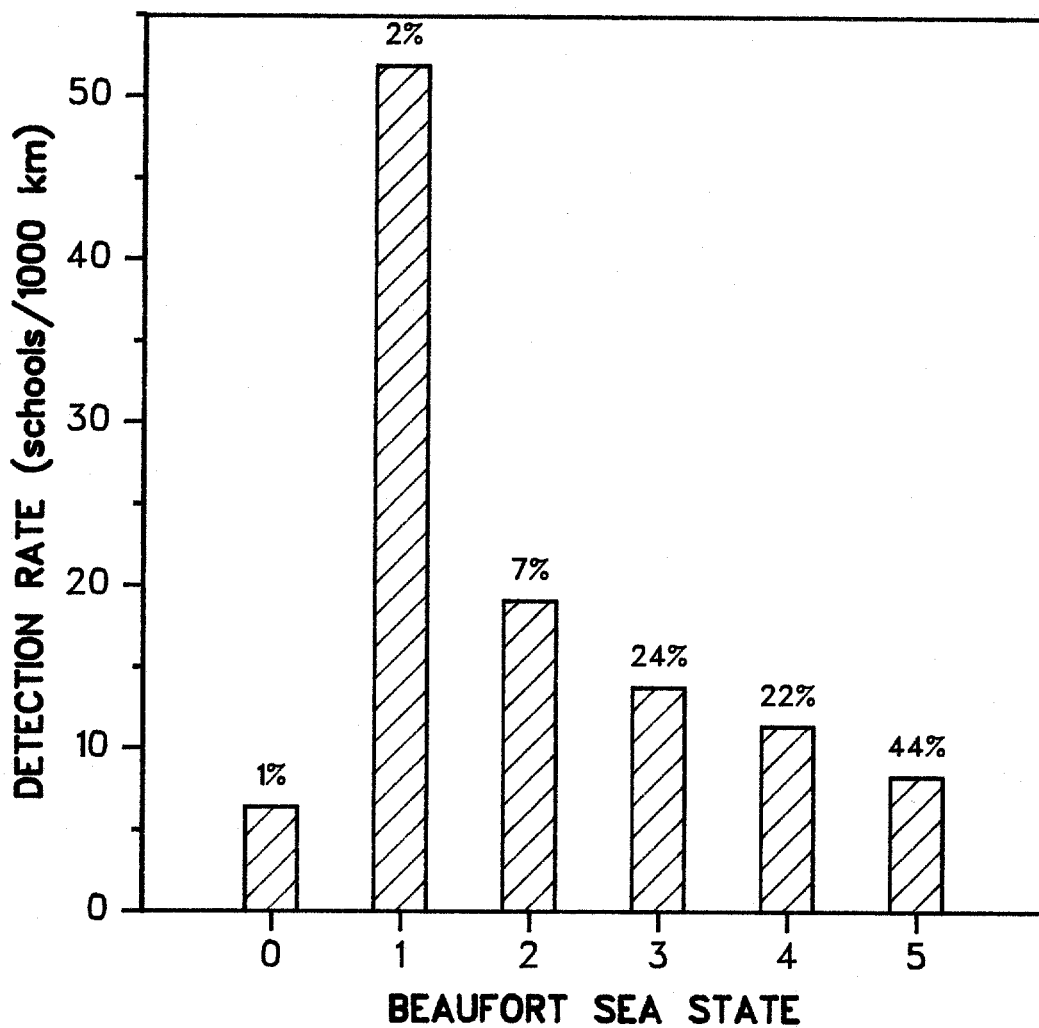


Figure 20. Rate of encountering dolphin schools during each Beaufort state from aboard the McArthur in the eastern tropical Pacific during July 29 through December 6, 1986. Percentages are amount of total effort searched during each sea state.

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